BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of The Application of Moraine Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility.)))))	Case No. 21-516-EL-REN
In the Matter of The Application of Rugby Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility.)))))	Case No. 21-517-EL-REN
In the Matter of The Application of Elm Creek II for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility.))))))	Case No. 21-531-EL-REN
In the Matter of The Application of Buffalo Ridge II for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility.))))))	Case No. 21-532-EL-REN
In the Matter of The Application of Barton Windpower 1 for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility.))))))	Case No. 21-544-EL-REN
In the Matter of The Application of Barton Windpower, LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility.)))))	Case No. 22-380-EL-REN

TESTIMONY OF JOHN CHILES ON BEHALF OF APPLICANTS MORAINE WIND LLC, RUGBY WIND LLC, ELM CREEK WIND II LLC, BUFFALO RIDGE II LLC, BARTON WINDPOWER 1, BARTON WINDPOWER LLC, AND AVANGRID RENEWABLES, LLC AND BLUE DELTA ENERGY, LLC

1 I. INTRODUCTION

2 Q1. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- *A1.* My name is John Chiles. My principal place of business is at 1850 Parkway Place
 SE, Suite 800, Marietta, GA 30067.
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Q2. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

7 A2. I am the principal of GDS Associates, Inc. (GDS), an energy engineering and management consulting firm. GDS has 175 employees with offices throughout the 8 9 United States. GDS's clients are principally publicly owned utilities such as cooperatives, municipals, and joint action agencies, although the firm also renders 10 services to regulatory agencies, commercial/industrial entities, utility consumer 11 groups, and state and federal government bodies. GDS offers information 12 technology, market research, and statistical and social media marketing services to 13 a diverse client base. In recent years, GDS has performed consulting services for 14 over 700 different clients. 15

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Q3. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?

A3. My testimony is being sponsored by the Applicants Moraine Wind LLC, Rugby
Wind LLC, Elm Creek II Wind LLC, Barton Windpower 1, Barton Windpower
LLC, Buffalo Ridge II Wind LLC, and Avangrid Renewables LLC (collectively,
the Applicants or Avangrid) and Blue Delta Energy, LLC (Blue Delta). Applicants
and Blue Delta jointly retained GDS to explain the deliverability requirement for
renewable facilities located in the Midcontinent Independent System Operator

1 (MISO) that are seeking certification by the Public Utilities Commission of Ohio 2 (PUCO) to become qualified renewable energy resource (REN) generating 3 facilities under Ohio law and to explain that each of the renewable facilities at issue 4 in this proceeding meets the deliverability requirement. GDS has also been retained 5 to explain and assess the PUCO's deliverability test and the effectiveness of the 6 PJM Interconnection, L.L.C. (PJM) distribution factor (DFAX) methodology. I am 7 testifying on behalf of the Applicants and Blue Delta.

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Q4.

PLEASE DESCRIBE YOUR PROFESSIONAL EXPERIENCE AND QUALIFICATIONS.

I have a bachelor of science degree in engineering, and over thirty years of electric 11 *A4*. 12 utility and consulting experience. I provide regulatory and strategic support for 13 generation and transmission cooperatives, municipal electric systems, independent 14 generation developers, industrial consumers and state commissions regarding 15 regional transmission organization energy markets, open access transmission issues, transmission planning and need certification, generation siting and 16 17 interconnection, North American Electric Reliability Corporation (NERC) 18 compliance support and training, and stakeholder representation in RTO stakeholder forums. I have filed expert testimony at the Federal Energy Regulatory 19 Commission (FERC) and at several state regulatory commissions. For a complete 20 21 list of my qualifications, please see my resume attached as an Appendix to the Expert Report.¹ 22

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¹ See Attachment A, Expert Report of GDS Associates, Inc. (Aug. 12, 2022) (Expert Report) at Appendix E, Resume of John Chiles.

A5. No, this is my first time testifying before the PUCO. However, as explained above, 3 4 I have previously provided expert testimony before a number of regulatory agencies, including FERC, the Arkansas Public Service Commission, the Georgia 5 Public Service Commission, the Mississippi Public Service Commission, the Public 6 Utility Commission of Texas, and the Commonwealth of Virginia State 7 Corporation Commission Division of Energy. For a complete list of cases in which 8 I have testified, please see my resume attached as an Appendix to the Expert 9 Report.² 10

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II. OVERVIEW AND CONCLUSIONS

13 Q6. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A6. The purpose of my testimony is to briefly summarize my Export Report that is 14 attached hereto as Attachment A, to explain the deliverability requirement for 15 qualifying REN facilities to become certified in Ohio, and to explain that each of 16 the Applicants' renewable facilities at issue in this proceeding (collectively, 17 Avangrid Facilities) meets this requirement. I will also explain the technical 18 justifications for the use of power flow studies to demonstrate physical 19 deliverability. My Expert Report further analyzes the history of the PUCO's 20 deliverability test (known as the *Koda* Test), its relation to industry-wide standards 21 and regulations, the justification behind the Koda Test, the application of the Koda 22 Test to the six Avangrid Facilities, and the challenges raised by Carbon Solutions 23

² See Expert Report at Appendix E, Resume of John Chiles.

1		Group (CSG). My Expert Report also assesses the use of the distribution factor
2		(DFAX) methodology and DFAX studies to determine deliverability to Ohio. I
3		adopt and incorporate herein the findings and conclusions set forth in my Expert
4		Report.
5		
6		I also support the conclusions reached in the Review and Recommendation filed by
7		PUCO Staff (Staff Report) in each of the above-captioned cases. The Staff Reports
8		concluded that each of the six Avangrid Facilities satisfies the requirements for
9		REN certification, including the deliverability requirement. ³ I recommend that the
10		PUCO adopt the conclusions and recommendations of each Staff Report.
11		
12	Q7.	WHAT EXHIBITS ARE YOU SPONSORING?
13	A7.	I am sponsoring Attachment A, which is my Expert Report, as well as the six DFAX
14		studies regarding the Avangrid Facilities.
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³ In the Matter of The Application of Moraine Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-516-EL-REN, Staff Review and Recommendation (Aug, 20, 2021); In the Matter of The Application of Rugby Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-517-EL-REN, Staff Review and Recommendation (Aug, 20, 2021); In the Matter of The Application of Elm Creek II for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-531-EL-REN, Staff Review and Recommendation (Aug, 20, 2021); In the Matter of The Application of Buffalo Ridge II for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-532-EL-REN, Staff Review and Recommendation (Aug, 20, 2021); In the Matter of The Application of Barton Windpower 1 for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-532-EL-REN, Staff Review and Recommendation (Aug, 20, 2021); In the Matter of The Application of Barton Windpower 1 for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-544-EL-REN, Staff Review and Recommendation (Aug. 20, 2021); In the Matter of The Application of Barton 2 for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 22-0380-EL-REN, Staff Review and Recommendation (Aug. 5, 2022).

1 2 3	Q8.	WHAT INFORMATION DID YOU REVIEW IN DRAFTING YOUR EXPERT REPORT?
4	<i>A8</i> .	I reviewed the certification applications, Staff Reports, and pleadings filed in each
5		of the above-captioned cases. I also reviewed the DFAX results for each of the
6		Avangrid Facilities provided by PJM, ⁴ as well as the Joint Operating Agreement
7		between PJM and MISO, which are included as appendixes to the attached Expert
8		Report. ⁵
9		
10 11	Q9.	COULD YOU SUMMARIZE THE CONCLUSIONS OF YOUR EXPERT REPORT?
12	<i>A9</i> .	Yes. As more further explained in the attached Expert Report, I made the following
13		conclusions:
14 15 16 17		• The use of DFAX as a proxy for deliverability to the state Ohio as utilized in the <i>Koda</i> Test reflects a standard that is commonly used in the electric utility industry and has wide acceptance by both NERC and FERC.
18 19 20		• The 5% DFAX and 1 MW minimum requirements utilized by the PUCO are reasonable when compared to other entities located in the Eastern Interconnection.
21 22 23		• The DFAX studies performed by PJM demonstrate that each of the six Avangrid Facilities passes the <i>Koda</i> Test, and that electricity from those facilities is physically deliverable into the state of Ohio.
24 25		

⁴ See Expert Report, Appendix A, DFAX Reports and Spreadsheets for Moraine, Rugby, Elm Creek II, and Buffalo Ridge II Facilities; *id.*, Appendix B, DFAX Reports and Spreadsheets for Barton 1 Facility; *id.*, Appendix C, DFAX Reports and Spreadsheets for Barton 2 Facility.

⁵ See Expert Report, Appendix D, Joint Operating Agreement Between the Midcontinent Independent System Operator, Inc. and PJM Interconnection, L.L.C (Dec. 11, 2008) (JOA).

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III.

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PUCO CERTIFICATION

Q10. ARE YOU FAMILIAR WITH THE REQUIREMENTS FOR CERTIFICATION OF QUALIFYING RENEWABLE ENERGY RESOURCES IN OHIO?

A10. Yes. I am aware that Ohio law sets forth three requirements that a renewable
 generation facility must satisfy before being certified as a qualifying renewable
 energy resource in Ohio.⁶ Applicants Witness Landoni explained how the filed
 applications satisfied all three criteria. My testimony focuses on the deliverability
 requirement and the application of the *Koda* Test to the six facilities seeking
 certification.

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13 IV. DELIVERABILITY REQUIREMENT

14 *Q11. WHAT IS THE DELIVERABILITY REQUIREMENT IN OHIO?*

A11. As explained in my Expert Report, to obtain REN certification in Ohio, a qualifying
renewable energy resource must either have a facility located in Ohio, or be
deliverable into Ohio.⁷ Electricity is deliverable into Ohio if the electricity either
"originates from a facility within a state contiguous to Ohio" or if "the electricity
is physically deliverable to the state."⁸ The PUCO created the *Koda* Test to make
the determination of whether generation from a renewable facility not located in
Ohio and not contiguous to Ohio is physically deliverable to Ohio.⁹

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⁷ R.C. 4928.64.

⁶ R.C. 4928.64 and 4928.01.

⁸ Ohio Adm.Code 4901:1-40-01(F).

⁹ In the Matter of the Application of Koda Energy LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 09-555-EL-REN, Finding and Order (Mar. 23, 2011) (Koda).

1 **V.**

HISTORY OF THE KODA TEST

Q12. CAN YOU EXPLAIN HOW ELECTRICITY FROM A FACILITY IS DEEMED TO BE "DELIVERABLE INTO OHIO?"

A12. Yes. As detailed in my Expert Report, since actual, physical deliverability cannot 4 be tracked, the PUCO has historically used the Koda Test based on DFAX studies 5 performed by PJM. The Koda Test uses a DFAX power flow study produced by a 6 regional transmission organization to measure the change in power flows across 7 transmission lines when generation has been added to the transmission grid, and 8 then measures the impact on power flows over transmission lines in Ohio. The 9 PUCO then reviews the results of the DFAX studies to determine whether the 10 facility meets two benchmarks—a DFAX value on a transmission line in Ohio of 11 12 at least 5%, and a megawatt (MW) equivalent of at least 1 MW.

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14 Q13. WHAT IS YOUR UNDERSTANDING OF HOW THE KODA TEST WAS 15 ADOPTED IN OHIO?

A13. Based upon my research, the PUCO first adopted the *Koda* Test in *In the Matter*of *Koda Energy LLC*, Case No. 09-555-EL-REN, where Koda Energy LLC (Koda
Energy), the owners of a 23.9 MW biomass facility located in Minnesota, applied
to the PUCO for REN certification.¹⁰ To determine whether the electricity from
Koda Energy was physically deliverable into the state of Ohio, PUCO Staff issued
a Staff Report that recommended that the PUCO adopt a deliverability
methodology, which eventually became known as the *Koda* Test.¹¹ In the *Koda*

¹⁰ *Koda*, Finding and Order at 1-2 (Mar. 23, 2011).

¹¹ Koda, Staff Review and Recommendations at 6-7 (Feb. 28, 2011).

1		case, the PUCO agreed with Staff's determination that "it is impossible to
2		physically track energy from a specific generating facility to a specific load
3		location."12 The PUCO, therefore, adopted Staff's recommended methodology for
4		evaluating the physical deliverability of electricity into Ohio based on the use of
5		distribution factors and a MW impact on transmission lines in Ohio. Staff's
6		methodology devised two deliverability criteria: "to be determined deliverable, the
7		absolute value of the impact on a transmission line in Ohio must be greater than 5%
8		and greater than 1 MW." ¹³
9		
10		Interestingly, the very first time that Staff applied the deliverability methodology
11		and Koda test, Staff concluded that the Applicant failed to satisfy the test and
12		recommended denial of certification. ¹⁴ The PUCO agreed and denied Koda
13		Energy's application as the facility failed to meet both the 5% and 1 MW
14		benchmarks. In my expert opinion, this demonstrates that from the inception of the
15		Koda Test, it has served as a meaningful standard that ensures only those resources
16		that are physically deliverable into Ohio receive REN certification.
17		
18 19	Q14.	HAVE THERE BEEN CHALLENGES TO THE USE OF THE KODA TEST AND THE PUCO'S DELIVERABILITY STANDARD?
20	<i>A14</i> .	Yes. A review of prior PUCO rulemaking proceedings discloses that there have

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¹⁴ Id.

been attempts to change or modify the Koda Test through these rulemakings, but

¹² *Koda*, Finding and Order at 3 (Mar. 23, 2011).

¹³ Id., Staff Review and Recommendations at 6-7 (Feb. 28, 2011).

the PUCO declined to make such revisions to its rules or to apply a new 1 deliverability standard. For example, the PUCO rejected the assertion that 2 deliverability requires a financial element when it rejected the argument that 3 deliverability relies on the "contract path" of electricity.¹⁵ The PUCO held that "a 4 demonstration of delivery via a power flow study...should be necessary, although 5 not to the extent of requiring signed contracts." The PUCO also rejected the 6 assertion that deliverability is determined by the regional transmission organization 7 on which a facility is located. In a subsequent rulemaking case, parties requested 8 9 to revise the definition of "deliverable into this state...to include electricity originating from a source located in MISO or PJM."16 The PUCO declined to adopt 10 it and instead upheld the Koda Test. The PUCO stated that the definition of 11 deliverability "does not need to be expanded to include any generation originating 12 within the PJM or MISO transmission systems." Although parties have challenged 13 it, the PUCO has applied the Koda Test consistently for more than a decade, 14 continuing to use DFAX studies to demonstrate physical deliverability. 15

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¹⁵ In the Matter of the Adoption of Rules for Alternative and Renewable Energy Technology, Resources, and Climate Regulations, and Review of Chapters 4901:5-1, 4901:5-5, and 4901:5-7 of the Ohio Administrative Code, Pursuant to Chapter 4928.66, Revised Code, as Amended by Amended Substitute Senate Bill No. 221, Case No. 08-888-ELORD, Opinion and Order at 27-28 (Apr. 15, 2009).

¹⁶ In the Matter of the Amendment of Ohio Administrative Code Chapter 4901:1-40 Regarding the Alternative Energy Portfolio Standard, to Implement Am. Sub. S.B. 315, Case Nos. 12-2156-EL-ORD, et al., Finding and Order at ¶ 180 (Dec. 19, 2018).

1 IV. APPLICATION OF THE KODA TEST

Q15. HAVE REN CERTIFICATIONS BEEN GRANTED TO FACILITIES IN STATES THAT ARE NOT CONTIGUOUS TO OHIO, AND THAT ARE NOT CONNECTED TO PJM?

5	<i>A15</i> .	Yes. Out-of-state applicants, which are not connected to PJM and which are located
6		in states not contiguous to Ohio, have sought REN certifications numerous times
7		since the PUCO adopted the Koda Test. The PUCO has consistently applied the
8		Koda Test to limit REN certification to those facilities that can be shown to be
9		physically deliverable into Ohio. For example, the Harvest Ridge Wind Farm ¹⁷ and
10		the Pioneer Trail Wind Farm ¹⁸ are located in Illinois and connected to MISO, and
11		the Superior Wind Project ¹⁹ and the Lakota Wind Project ²⁰ are both located in Iowa
12		and connected to MISO. Each of these facilities was granted REN certification
13		because each satisfied both the 5% and 1 MW benchmarks from the DFAX studies.
14		

- 15 On the other hand, the PUCO has denied REN certification for facilities located in
- 16 MISO when the facilities do not meet the DFAX benchmarks.²¹ The PUCO has

¹⁷ In The Matter Of The Application Of Harvest Ridge Wind Farm For Certification As An Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-987-EL-REN, Application (Sept. 22, 2021); *id.*, Finding and Order (Dec. 1, 2021).

¹⁸ In The Matter Of The Application Of Pioneer Trail Wind Farm, LLC For Certification As An Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 20-1821-EL-REN, Application (Dec. 17, 2020); *id.*, Finding and Order (Mar. 24, 2021).

¹⁹ In The Matter Of The Application Of The Superior Wind Project For Certification As An Eligible Ohio Energy Resource Generating Facility, Case No. 20-1637-EL-REN, Finding and Order (Dec. 16, 2020)

²⁰ In The Matter Of The Application Of The Lakota Wind Project For Certification As An Eligible Ohio Energy Resource Generating Facility, Case No. 20-1638-EL-REN, Finding and Order (Dec. 16, 2020).

²¹ See In the Matter of the Application of Elk Wind Farm for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 09-835-EL-REN, Finding and Order (Oct. 12, 2011).

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also rejected REN certification applications for facilities located in PJM that do not satisfy the DFAX benchmarks.²²

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4 Q16. WHAT IS THE SIGNIFICANCE OF THE DFAX STUDIES?

5 *A16*. As explained in more detail in my Expert Report, the DFAX studies model the impacts of power flows in Ohio and the surrounding areas from a REN facility's 6 7 injection of energy onto transmission facilities. Since it is impossible to physically track energy from a specific generating facility to a specific location of load, the 8 DFAX studies are used to determine whether power flows from generating facilities 9 modeled within PJM and MISO, but located outside of both Ohio and states 10 contiguous to Ohio, have an impact on power flows over transmission lines located 11 within Ohio. 12

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In reviewing the power flow studies performed by PJM and MISO, a threshold value is used: if the DFAX value on a transmission line is below 5%, then the facility is not considered deliverable to Ohio. In addition, the MW equivalence of the impact is calculated by multiplying the DFAX value by the facility's nameplate capacity. Electricity from a facility is not considered deliverable into Ohio if the MW equivalence is below 1 MW.

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²² See In the Matter of the Application of Anthony Harrington for Certification As an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 17-2039-EL-REN, Finding and Order (Mar. 14, 2018); In the Matter of the Application of Endeavor Solar Farm for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 10-322-EL-REN, Finding and Order (Sept. 20, 2011).

1		The DFAX results are reviewed and the highest DFAX value from the facility on a
2		transmission line located in Ohio is determined. If the DFAX value and the MW
3		equivalent pass the 5% and 1 MW thresholds that demonstrates that the electricity
4		is physically deliverable into Ohio, and the facility is considered to have passed the
5		Koda Test.
6		
7	V.	TECHINICAL JUSTIFICATIONS
8	Q 17.	CAN YOU EXPLAIN HOW DFAX VALUES ARE CALUCATED?
9	A17.	Yes. A DFAX value is the percentage of a transaction between a point of injection
10		and a point of withdrawal that flows across a particular element of a transmission
11		system. The transfer distribution is driven by the impedance of all elements in the
12		transmission network. Lines with a lower impedance carry a higher percentage of
13		flow that lines with a higher impedance.
14		
15	Q18.	DO YOU BELIEVE THE USE OF DFAX STUDIES IS REASONABLE?
16 17	A18.	Yes, as further explained in my Expert Report, the use of a DFAX study as a proxy
18		for deliverability represents a reasonable and widely accepted industry standard.
19		Additionally, the 5% DFAX and 1 MW minimum requirements are reasonable
20		when compared to other entities located in the Eastern Interconnection.
21		
22 23 24	Q19.	CAN YOU EXPLAIN YOUR CONCLUSION THAT THE USE OF DFAX AS A PROXY FOR DELIVERABILITY REFLECTS AN INDUSTRY WIDE STANDARD?
25	A19.	Yes. Since 1999, NERC has supported the use of a DFAX-based Transmission
26		Loading Relief (TLR) process to address real-time loading on the bulk electric

system. The fact that NERC continues to maintain multiple standards that reference
 the use of TLR for congestion management is a testament to the longstanding and
 prudent practice that benefits from a DFAX-based methodology.

5 In addition, FERC's support for the use of a DFAX methodology for expansion 6 planning cost allocation highlights the reasonableness of this method. Additionally, 7 FERC has not requested NERC to remove the interconnection reliability operation 8 and coordination (IRO) standards and modeling, data, and analysis (MOD) 9 standards that rely on DFAX as their foundation. If the DFAX method had some 10 fatal flaw, FERC would not continue to permit its use throughout the industry.

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Furthermore, PJM documents their use of DFAX values for the calculation of 12 Available Transfer Capability in their Available Transfer Capability 13 14 Implementation Document. The use of DFAX as an approximation of system flows and deliverability is also employed throughout the United States. In the Southeast, 15 the DFAX is part of the calculation for short-term Available Transfer Capability in 16 17 the Tennessee Valley Authority, Southern Company System, Santee Cooper, Duke Energy Carolinas, Duke Energy Progress, Florida Power & Light and Emera -18 19 Tampa Electric Company systems. As previously described, the DFAX-based TLR 20 procedures are an important part of managing regional flows between systems, including market-to-non-market seams with MISO, Southwest Power Pool and 21 PJM. In the Western Interconnection, the DFAX and Transfer Distribution Factors 22 23 have been part of evaluating Unscheduled Flows.

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1Q20.CAN YOU EXPLAIN YOUR CONCLUSION THAT THE 5% DFAX AND 1 MW2EQUIVALENT MINIMUM REQUIREMENTS ARE REASONABLE?

A20. Yes. The use of a 5% DFAX threshold is not only reasonable, but is in many 3 4 respects, a very conservative threshold. For example, in the Southern Company System (SCS), the Company uses a 3% threshold to eliminate those facilities that 5 are minimally impacted by the installation of a new generator. Entergy, prior to 6 joining MISO, used a 3% threshold as well. With a 5% DFAX threshold, PJM is 7 excluding even more facilities that these two systems. Moreover, pursuant to the 8 Joint Operating Agreement, PJM and MISO use a DFAX threshold of 3% to 9 interconnection requests regional 10 evaluate between the transmission organizations.23 11

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The Koda Test also requires an impact on a transmission line in Ohio of greater than 1 MW. The use of a 1 MW threshold is designed to capture those transactions which have a higher DFAX impact but the size of the resource is so small that the actual impact on a line is negligible. For example, a 10 MW project with a 5% DFAX impact on a 230-kV line would only have a 0.5 MW impact on a facility with a rating much higher than the transaction impact.

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²³ Expert Report, Appendix D, JOA at Section 9.3.3.

1Q21.CAN YOU EXPLAIN YOUR CONCLUSION THAT THE RESULTS OF THE2DFAX STUDY FOR EACH OF THE AVANGRID FACILITIES3DEMONSTRATES THAT EACH FACILITY PASSES THE KODA TEST?

4 A21. Yes. The DFAX results for each of the Avangrid Facilities demonstrates that each
 5 facility has an impact on transmission lines in Ohio far beyond the 5% DFAX and
 6 1 MW equivalent thresholds used in the *Koda* Test.

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Table 1 shows the DFAX impact of each facility as noted in the results of the DFAX studies performed by PJM. The DFAX impact column contains two values. The first value is the highest DFAX for the case where either the start or end of the line is in Ohio. The second value is the highest DFAX for a transmission line, which has *both* a starting point and end point in Ohio. Even when taking the lower number, each Facility successfully passed the requirements of the *Koda* Test with respect to the DFAX cutoff.

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Table 1: Summary of DFAX Values

51.0	16.37%/11.16%
149.1	16.44%/11.18%
148.8	16.50%/11.20%
210.0	16.38%/11.16%
80.0	17%/11.36%
78.0	17%/11.36%
	51.0 149.1 148.8 210.0 80.0 78.0

1617Table 2 shows the MW equivalent of each facility, taken by multiplying the results18of the DFAX studies performed by PJM by the capacity of each facility. The DFAX19impact column contains two values. The first value is the highest DFAX for the20case where either the start or end of the line is in Ohio. The second value is the21highest DFAX for a transmission line that has *both* a starting point and end point in

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Ohio. Even when taking the lower number, each facility successfully passed the requirements of the *Koda* Test with respect to the MW threshold.

3	Table 2: Summary of MW Equivalent			
	Project (Location)	Capacity (MW)	Impact (MW)	
	Moraine (MN)	51.0	8.35 MW/5.69 MW	
	Rugby (ND)	149.1	24.50 MW/16.66 MW	
	Elm Creek II (MN)	148.8	24.55 MW/16.66 MW	
	Buffalo Ridge II (SD)	210.0	34.40 MW/23.44 MW	
	Barton Windpower 1 (IA)	80.0	13.60 MW/9.09 MW	
	Barton 2 (IA)	78.0	13.26 MW/8.86 MW	
4 5	Even when using a conser	rvative application of the I	DFAX methodology, each of the	
6	Avangrid Facilities demo	onstrates physical deliver	ability significantly beyond the	
7	minimum benchmarks required for REN certification.			

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9 VI. CHALLENGES TO THE PUCO'S DELIVERABILITY STANDARD

10 Q22. ARE THERE TWO WAYS OF MEASURING DELIVERABILITY IN OHIO?

No. Although CSG claims that there are two ways of measuring deliverability, A22. 11 physical and contractual, Ohio law explicitly specifies that deliverability must be 12 physical.²⁴ Notably, the measures for physical and contractual deliverability have 13 no bearing on each other. If the physical deliverability refers to a direct connection 14 between the generator and the load that is typically considered as a contract path, 15 this ignores the basic physics of the power grid, including parallel flows on other 16 systems. If the contract path refers to a contractual transmission path between the 17 generator and the load that respects the physical flows on the power grid, then it is 18 incumbent to choose the methodology that respects the laws of physics. 19

²⁴ Ohio Adm.Code 4901:1-40-01(F).

1 Q23. DOES CONTRACT PATH GUARANTEE PHYSICAL DELIVERY?

2 A23. No, contrary to what CSG may argue, the presence of a contract path does not guarantee physical delivery from a generating resource to a specific location of 3 load. The theory that a contract path is the only way to guarantee physical delivery 4 5 is not supported by basic physics or by operational reality. In fact, there are only 6 two scenarios in which a contract path can guarantee physical delivery: 1) if a load 7 and a resource are directly connected using a direct-current (DC) line, which .bypasses the network transmission system and the associated parallel flows that 8 9 would occur; and 2) if a single generator and a single load are connected by a single alternating-current (AC) line where no other AC lines are present. Neither of these 10 scenarios are applicable to the facilities seeking certification in this proceeding. 11

In an integrated transmission network, power flows according to the impedance of all facilities and thus follows the path of least resistance. Electrons do not follow contractual arrangements, unless the two scenarios referenced above are applicable.

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VII. RECOMMENDATIONS

18 Q24. WHAT ARE YOUR RECOMMENDATIONS?

A24. As further explained in my attached Expert Report, the *Koda* Test represents a wellreasoned and prudent proxy for actual physical deliverability, is reasonable, and
should be affirmed. The data reflects that each of the Avangrid Facilities passes
the *Koda* Test, and therefore generates electricity that is physically deliverable into
Ohio. Accordingly, I recommend that the PUCO grant REN certification to each
of the Avangrid Facilities.

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1 Q25. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

A25. Yes. However, I reserve the right to incorporate new information that may
subsequently become available through outstanding discovery or otherwise.

CERTIFICATE OF SERVICE

The Public Utilities Commission of Ohio's e-filing system will electronically serve notice of the filing of this document on the parties referenced on the service list of the docket card who have electronically subscribed to the case. In addition, the undersigned hereby certifies that a copy of the foregoing document also is being served via electronic mail on August 12, 2022 upon the parties listed below.

> <u>/s/Angela Paul Whitfield</u> Angela Paul Whitfield

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Attachment A

PREPARED BY GDS ASSOCIATES, INC.

PJM DELIVERABILITY ASSESSMENT - OHIO

REVIEW OF *KODA* TEST AND DFAX METHODOLOGY

Prepared for Avangrid Resources and Blue Delta Energy

PUCO Cases 21-516-EL-REN, 21-517-EL-REN, 21-531-EL-REN, 21-532-EL-REN, 21-544-EL-REN, and 22-380-EL-REN

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1 Background and Experience of GDS Associates, Inc.

1.1 OVERVIEW OF GDS ASSOCIATES

GDS Associates, Inc. (GDS), a privately-owned C corporation, was founded in 1986 and is an energy engineering and management consulting firm. GDS has 175 employees with offices throughout the United States. Our firm is committed foremost to identifying and meeting its client needs and striving to

The **GDS MISSION** is to "help our clients succeed by anticipating and understanding their needs and by efficiently delivering quality services with confidence and integrity" continuously provide high quality work and responsive customer service. For more information on the full range of energy consulting services that GDS provides, please visit our website at <u>www.gdsassociates.com</u>. Our clients are principally publicly owned utilities such as cooperatives, municipals, and joint action agencies. We also render services to regulatory agencies, commercial/industrial entities, utility consumer

groups, and state and federal government bodies.

1.2 CORPORATE CORE VALUES OF GDS ASSOCIATES, INC.

The size and depth of GDS permits us to offer clients multiple sources of assistance, ensuring complete, competent, and timely service. GDS' long history of meeting client needs has established our reputation within the industry. In fact, most of our project assignments are derived from repeat work for existing clients or from client referrals. GDS recognizes that no two clients or problems are exactly alike, so we strive to deliver "right-fit" solutions for each client's particular situation. GDS conducts its business in accordance with stated core values which we follow steadfastly in providing services to our clients.



1.3 CORE BUSINESS OF GDS ASSOCIATES, INC.

GDS consultants are recognized leaders in their respective fields, dedicated to their clients, innovative in their approach to meeting unique challenges, and known for consistently being available when needed. Our comprehensive range of expertise focuses on clients associated with, or affected by, electric, natural gas, water and wastewater utilities. In addition, GDS offers information technology, market research, statistical and social media marketing services to a diverse client base. In recent years, we have performed consulting services for over 700 different clients.



FIGURE 1.1 GDS CONSULTING SERVICES

Figure 1.1 above presents the consulting service areas in which GDS has specialized expertise. GDS is headquartered in Marietta, GA. We have regional offices in Auburn, AL; Augusta, ME; Austin, TX; Kirkland, WA; Madison, WI; Manchester, NH; Orlando, FL; and Portland, OR.

1.4 EXPERIENCE OF PROJECT AUTHOR



John Chiles, Principal of GDS, has over 30 years of electric utility and consulting experience. He has worked in several sectors of the energy industry, including electric cooperatives, municipal utilities, investor-owned utilities, and merchant energy companies. Included in this experience is generation and transmission planning, RFP bid evaluation, market design analysis, transmission access issues, locational marginal

pricing, regulatory litigation, control area operations and next-day transmission trading. He was responsible for managing the daily transmission portfolio for the two largest merchant power plants in the United States and coordinated a generator-only control area in the WECC region. He has represented multiple companies at Regional Transmission Organizations (RTOs) and has provided technical guidance on issues before state commissions and the Federal Energy Regulatory Commission's (FERC) such as generator operating limits, generator imbalance protocols, RTO transmission issues, transmission facility need determination and transmission access.

Specifically, Mr. Chiles has consulted with utilities, government agencies, and industrial clients in the following areas:

- Served as Stakeholder Representative for clients within Entergy, the Midcontinent Independent System Operator (MISO) and the Southwest Power Pool (SPP) on matters related to transmission expansion planning and market design
- Assisted multiple clients during the Entergy integration into MISO, including conversion of transmission rights, valuation of generation assets, and Day 2 market preparation
- Provided generation interconnection support services for renewable and fossil-fuel based facilities, including siting analysis, technical study support, client representation with Transmission Providers, and negotiation of Interconnection Agreements
- Filed expert witness testimony at FERC and State jurisdictions regarding transmission facility need determination, transmission loss calculations, integrated resource planning and RTO integration activities
- Conducted North American Electric Reliability Corporation (NERC) mock audits on Transmission Planning (TPL), Facility Rating (FAC), and Modeling (MOD) Standards for numerous municipal and cooperative organizations
- Supported generation procurement Request for Proposals (RFPs) through providing technical and strategic support on transmission issues

Mr. Chiles holds a Bachelor of Science Degree in Engineering from the University of South Florida.

A more detailed resume of Mr. Chiles' experience and expert witness qualifications can be found in the Appendix.

1.5 BACKGROUND

Given its expertise in the industry, GDS Associates was retained by Blue Delta Energy, LLC (Blue Delta) and Avangrid Renewables, LLC (Avangrid) to assess the effectiveness of the PJM Interconnection, L.L.C. (PJM) distribution factor (DFAX) methodology with respect to certain renewable facilities located in the MISO RTO that are seeking certification by the Public Utilities Commission of Ohio (PUCO) to become qualified renewable energy resource generating facilities pursuant to R.C. 4928.64.

The following Avangrid facilities have been consolidated in a single proceeding for the purpose of the PUCO evaluating the Carbon Solutions Group's (CSG) request challenging the effectiveness of the DFAX methodology and applicability of the *Koda* Test to evaluate whether resources located outside the state of Ohio should be eligible to qualify as Ohio renewable energy resource facilities. The discussion below is applicable to each of the facilities being considered as the issues are consistent across all of the renewable assets. A summary of each facility and their pending applications before the PUCO are provided below:

1.5.1 Moraine Wind LLC (Case 21-516-EL-REN)¹

The Moraine Wind facility consists of thirty-four 1.5 MW turbines for a total capacity of 51.0 MW located in Murray County, Minnesota. The facility is connected to the Xcel transmission system in MISO.

¹ See In the Matter of The Application of Moraine Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-516-EL-REN, Application (Apr. 30, 2021).

1.5.2 Rugby Wind LLC (Case 21-517-EL-REN)²

The Rugby Wind facility consists of seventy-one 2.1 MW turbines for a total capacity of 149.1 MW located in Rugby, North Dakota. The facility is connected to the Otter Tail Power transmission system in MISO.

1.5.3 Elm Creek Wind II LLC (Case 21-531-EL-REN)³

The Elm Creek Wind facility consists of seventy-one 2.4 MW turbines for a total capacity of 148.8 MW located in Alpha, Minnesota. The facility is connected to the Northern States Power transmission system in MISO.

1.5.4 Buffalo Ridge II LLC (Case 21-532-EL-REN)⁴

The Buffalo Ridge II wind facility consists of one-hundred and five 2.0 MW turbines for a total capacity of 210.0 MW located in Brookings and Deuel Counties in South Dakota. The facility is connected to the Xcel transmission system at the Brookings substation in MISO.

1.5.5 Barton Wind Power LLC (Case 21-544-EL-REN)⁵

The Barton Windpower 1 facility consists of forty 2.0 MW turbines for a total capacity of 80.0 MW located in Worth County, Iowa. The facility is connected to the Alliant Energy (West) transmission system between the Adams South and Lime Creek substations in MISO.

1.5.6 Barton Wind 2 Branch Solar LLC (Case 22-0380-EL-REN)⁶

The Barton 2 facility consists of thirty-nine 2.0 MW turbines for a total capacity of 78.0 MW located in Worth County, Iowa. The facility is connected to the Alliant Energy (West) transmission system at the Barton 161 kV substation in MISO.

² In the Matter of The Application of Rugby Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-517-EL-REN, Application (Apr. 30, 2021).

³ In the Matter of the Application of Elm Creek II for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-0531-EL-REN, Application (May 3, 2021).

⁴ In the Matter of The Application of Buffalo Ridge II for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-532-EL-REN, Application (May 3, 2021).

⁵ In the Matter of The Application of Barton Windpower 1 for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-544-EL-REN, Application (May 4, 2021).

⁶ In the Matter of The Application of Barton 2 for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 22-0380-EL-REN, Application (April 13, 2022).

2 Summary of Conclusions and Recommendations

GDS has reached the following conclusions based upon a review and analysis of the pending applications and related documents:

- The PUCO's use of DFAX as a proxy for deliverability to the state Ohio as utilized in the *Koda* Test reflects a standard that is commonly used in the electric utility industry and has wide acceptance by both NERC and FERC. The five percent DFAX and 1 MW minimum requirements recognized by the PUCO are reasonable when compared to other entities located in the Eastern Interconnection.
- NERC supports the DFAX method for flowgate calculations, transmission loading relief and the calculation of Available Transfer Capability between regions. The two entities most impacted by the deliverability arguments made by CSG, PJM and MISO, have a FERC-approved joint operating agreement that relies on DFAX as the basis for expansion planning, interconnection planning, real-time congestion management and facility cost allocation. The five percent DFAX and 1 MW minimum requirements are reasonable when compared to other entities located in the Eastern Interconnection.

Given that the *Koda* Test is based on industry standards, and is reasonable, GDS supports the use of the *Koda* Test. GDS also supports the PUCO Staff's findings that the six Avangrid facilities seeking certification satisfy the *Koda* Test and the site-specific requirements embedded in Ohio law, and thus, should be certified in Ohio as qualifying renewable energy resources generating facilities.

3 Summary of *Koda* Test and Basics (Governing Principles/Authorities)

3.1 THE KODA TEST

In PUCO Case No. 09-555-EL-REN, Koda Energy LLC (Koda Energy), the owners of a 23.9 MW bio-mass facility located in Minnesota, petitioned for certification as an eligible Ohio renewable energy resource generating facility.⁷ To qualify, the PUCO noted that an applicant must demonstrate that the facility satisfies several criteria, including that:

The generation produced by the renewable energy resource generating facility can be shown to be <u>deliverable into the state of Ohio</u>, pursuant to Section 4928.64(B)(3), Revised Code.⁸

To determine whether the renewable energy resource generating facility can be shown to be <u>deliverable</u> <u>into the state of Ohio</u>, Staff recommended that the Commission adopt a new deliverability methodology.⁹ Staff proposed a study method to determine deliverability based on the use of distribution factors and a MW impact on transmission lines in Ohio resulting from the potential transaction:

Staff recommends evaluating the physical deliverability of electricity into Ohio from a generating facility located outside of Ohio or a contiguous state based on the following methodology:

<u>A demonstration of deliverability may include a power flow study</u> performed by the transmission operator(s) which offers evidence of any significant impact on power flows over transmission lines located in the state of Ohio and serving loads connected to distribution lines located in Ohio due to electricity produced at the renewable generating facility's location.¹⁰

Staff notes that it is impossible to physically track energy from a specific generating facility to a specific load location. At Staff's request, MISO and PJM, the two RTOs operating in Ohio, conducted DFAX or power flow studies to determine whether power flows from generating facilities modeled within PJM and MISO, but located outside of both Ohio and states contiguous to Ohio, have an impact on power flows over transmission lines located within Ohio. Staff

⁷ In the Matter of the Application of Koda Energy LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 09-555-EL-REN (Koda), Application (July 1, 2009).

⁸ Koda, Finding and Order at ¶ 2 (Mar. 23, 2011).

⁹ Koda, Staff Review and Recommendation at 8-9 (Feb. 28, 2011) (emphasis added).

¹⁰ Koda, Finding and Order at ¶ 7 (Mar. 23, 2011) (emphasis added).

explains that a DFAX study is a computer model of the transmission systems that measures the change in power flows across a flowgate due to a change in generation, if any significant impact was evident from the study. Staff recommends that this impact be considered as evidence of physical deliverability into Ohio.¹¹

Staff further explains that only generating facilities that are connected to the transmission systems operated by PJM and MISO were modeled in the power flow studies. Thus, in order for a generating facility located outside of Ohio or a contiguous state to meet the deliverability criteria, the facility would have to be interconnected with a transmission system and be modeled by the RTO in the power flow study. In reviewing the power flow studies performed by PJM and MISO, Staff noted that some of the DFAX values are very small and within the error tolerance of the study. In recognition of this fact, Staff recommends application of a cut-off threshold value. Staff notes that, for billing purposes, an agreement exists in both PJM and MISO that, if the DFAX value on a transmission line is below five percent, there is no associated charge as such an impact is considered "noise" or otherwise insignificant. In addition, MISO also relies upon the megawatt (MW) equivalence of the impact and does not assess charges unless the impact exceeds a DFAX value of greater than five percent and the MW equivalence of the impact is greater than 1 MW. The MW equivalence of the impact is calculated by multiplying the DFAX value by the facility's nameplate capacity. Staff recommends that the Commission adopt this threshold as the definition of a "significant impact" on a transmission line in Ohio. Under Staff's recommended definition, an impact would be deemed significant, and thus physically deliverable into Ohio under Staff's proposed methodology, if the impact exceeds a DFAX value of greater than five percent and is greater than one megawatt.¹²

The PUCO ultimately issued an order denying the application of Koda Energy, but agreed with and adopted Staff's proposed methodology for assessing deliverability (the *Koda* Test). The Order states:

The Commission finds that <u>Staff's proposed methodology and recommended</u> <u>definition of "significant impact" are reasonable and should be adopted</u>. Accordingly, any applicant seeking to demonstrate the physical deliverability of energy into Ohio from a generating facility located outside of Ohio or a contiguous state may do so with a power flow study, performed by an RTO, offering evidence of a significant impact on power flows over transmission lines located in the state of Ohio. The transmission lines must serve loads connected to distribution lines located in Ohio. If the study shows an impact on a transmission line in Ohio that is greater than five percent and greater than one megawatt, the electricity produced by the renewable generating facility would be deemed to have a significant impact, thereby satisfying the statutory criteria that the electricity is physically deliverable into Ohio.¹³

From the PUCO's Order adopting the *Koda* Test, it is clear that the application of the *Koda* Test is not a rubber stamp to certify facilities outside of Ohio and neighboring states. In *Koda*, the application of the methodology was the only evidence used to show that the first criteria for qualification was not successfully met.

Over the years, the *Koda* Test has withstood challenges by parties petitioning the PUCO to adopt a different standard, including a challenge to define deliverability based on the RTO in which the facility is located.¹⁴ Furthermore, the PUCO has twice affirmed that deliverability does not require a demonstration of a "contract path."¹⁵

3.1.1 The Koda Test Has a Basis in NERC and FERC Precedent

Since 1999, NERC has supported the use of a DFAX-based Transmission Loading Relief process to address real-time loading on the bulk electric system. The fact that NERC continues to maintain multiple standards that reference the use of TLR for congestion management is a testament to the longstanding and prudent practice that benefits from a DFAX-based methodology.

FERC's support for the use of a DFAX methodology for expansion planning cost allocation highlights the reasonableness of this method. Additionally, FERC has not requested NERC to remove the interconnection reliability operation and coordination (IRO) standards and modeling, data, and analysis (MOD) standards that rely on DFAX as their foundation. If the DFAX method had some fatal flaw, the FERC would not continue to permit its use throughout the industry.

3.2 DISTRIBUTION FACTOR BASICS

A Transfer Distribution Factor is the percentage of a transaction between a point of injection and a point of withdrawal that flows across a particular element of a transmission system. The transfer distribution is driven by the impedance of all elements in the transmission network. Lines with a lower impedance carry a higher percentage of flow that lines with a higher impedance.

¹³ *Koda*, Finding and Order at ¶¶ 9-10 (Mar. 23, 2011) (The DFAX impact in *Koda* on Ohio facilities was 2.5%, which resulted in a 0.375-megawatt impact.) (emphasis added).

¹⁴ In the Matter of the Amendment of Ohio Administrative Code Chapter 4901:1-40 Regarding the Alternative Energy Portfolio Standard, to Implement Am. Sub. S.B. 315, Case Nos. 12-2156-EL-ORD, et al., Finding and Order at ¶¶ 180-181 (Dec. 19, 2018).

¹⁵ In the Matter of the Amendment of Ohio Administrative Code Chapter 4901:1-40 Regarding the Alternative Energy Portfolio Standard, to Implement Am. Sub. S.B. 315, Case Nos. 12-2156-EL-ORD, et al., Finding and Order at ¶ 181 (Dec. 19, 2018), quoting In the Matter of the Adoption of Rules for Alternative and Renewable Energy Technology, Resources, and Climate Regulations, and Review of Chapters 4901:5-1, 4901:5-5, and 4901:5-7 of the Ohio Administrative Code, Pursuant to Chapter 4928.66, Revised Code, as Amended by Amended Substitute Senate Bill No. 221, Case No. 08-888-EL-ORD, Opinion and Order at 28 (Apr. 15, 2009).

There are several types of distribution factors. These include:

- Power Transfer Distribution Factor (PTDF)
 - The Power Transfer Distribution Factor (PTDF) is the percent of flow between a source (A) and a sink (B) that flows across element X.
- Outage Transfer Distribution Factor (OTDF)
 - The Outage Transfer Distribution Factor (OTDF) is percent of flow between a source (A) and a sink (B) that flows across element X for the loss of element Y.
- Line Outage Distribution Factor (LODF)
 - The Line Outage Distribution Factor (LODF) is the percent of flow between a source (A) and a sink (B) from element Y that flows across element X for the loss of element Y.

Mathematically, the flow across Element X (no contingencies) for a transaction between Point of Injection A and Point of Withdrawal B is:

$$Flow_X = MW_{A-B} * PTDF_{X(A-B)}$$

For the case where flow across Element X is impacted by the contingency loss of Element Y, the flow across Element X is:

 $Flow_X = MW_{A-B} * PTDF_{X(A-B)} + MW_{A-B} * OTDF_{Y(A-B)} or$

 $Flow_{X} = MW_{A-B} * PTDF_{X(A-B)} + MW_{A-B} * PTDF_{Y(A-B)} * LODF_{X ftlo Y(A-B)}$

PJM documents its use of distribution factors for the calculation of Available Transfer Capability (ATC) in their Available Transfer Capability Implementation Document (ATCID), effective March 29, 2019.¹⁶ Attachment C to the PJM Open Access Transmission Tariff (OATT) references the methodology used to assess ATC and has been approved by FERC as part of the PJM OATT. Section 5 of the ATCID details the Flowgate Methodology that references distribution factors.

¹⁶ <u>https://www.pjm.com/pub/oasis/ATCID.pdf</u>.

4 Assumptions Made by PJM and Their Reasonableness

4.1 USE OF A FIVE PERCENT DFAX CUTOFF

The PUCO uses a five percent DFAX minimum in its deliverability requirement. The use of a five percent DFAX cutoff is not only reasonable, but is in many respects, a very conservative use of the cutoff. For example, in the Southern Company System (SCS), the Company uses a three percent TDF cutoff to eliminate those facilities that are minimally impacted by the installation of a new generator. Entergy, prior to joining MISO, used a three percent TDF cutoff as well. With a five percent DFAX cutoff, PJM is excluding even more facilities that these two systems.

The Joint Operating Agreement (JOA) between PJM and MISO¹⁷ governs how the two RTOs collectively analyze their systems for coordinated planning, operation, and congestion management. This most recent version of this agreement has been in place since December of 2008. MISO and PJM perform affected system studies for new interconnection requests¹⁸ based on a DFAX screening. If the interconnection request is for a connection to the PJM system, PJM completes the following process:

During the course of its interconnection feasibility studies, PJM shall monitor the MISO transmission system and provide to MISO the draft results of the potential impacts to the MISO transmission system. This monitoring will include an examination of the potential for projects to impact the MISO system by determining whether the project under study has $a \ge 3$ percent distribution factor on MISO facilities that operate below 500 kV or ≥ 10 percent distribution factor on MISO facilities that operate at or above 500 kV under system intact conditions.¹⁹

If the interconnection request is on a MISO facility, then MISO completes the following process:

After completion of DPP cycle application deadline and at least thirty (30) days prior to the commencement of the DPP Phase I, MISO shall perform screening analysis to monitor the PJM transmission system and provide to PJM the draft results of the potential impacts to the PJM transmission system. This monitoring will include an examination of the potential projects to impact the PJM system through determination if the project under study has a \geq 3 percent distribution factor or \geq 5 MW impact or \geq 1 percent of facility rating on any PJM facilities under normal and contingency conditions.²⁰

¹⁹ *Id.*, Section 9.3.3, (f) (i) (emphasis added).

¹⁷ Appendix D, Joint Operating Agreement Between the Midcontinent Independent System Operator, Inc. and PJM Interconnection, L.L.C, available at https://www.pjm.com/directory/merged-tariffs/miso-joa.pdf (Dec. 11, 2008) (JOA).

¹⁸ Appendix D, JOA, Section 9.3.3.

²⁰ *Id.*, Section 9.3.3 (g) (i) (emphasis added).

The five percent DFAX cutoff adopted by the PUCO in the *Koda* Test is consistent with, and in some respects, superior to other utilities located in the Eastern Interconnection. The DFAX criteria is also consistent with the FERC-approved MISO-PJM JOA.

4.1.1 DFAX Impact of Avangrid Facilities

Table 4-1 shows the DFAX impact of each facility provided by PJM for the facilities regarding the applications. The DFAX reports prepared by PJM for these facilities can be found in the Appendix. The DFAX impact column contains two values. The first value is the highest DFAX for the case where either the start or end of the line is in Ohio. The second value is the highest DFAX for a transmission line which has both a starting point and end point in Ohio. Each facility successfully passed the requirements of the *Koda* test with respect to the DFAX cutoff.

Project (Location)	Capacity (MW)	DFAX (%)
Moraine (MN)	51.0	16.37%/11.16% ²¹
Rugby (ND)	149.1	16.44%/11.18% ²²
Elm Creek II (MN)	148.8	16.50%/11.20% ²³
Buffalo Ridge II (SD)	210.0	16.38%/11.16% ²⁴
Barton Windpower 1 (IA)	80.0	17%/11.36% ²⁵
Barton 2 (IA)	78.0	17%/11.36% ²⁶

TABLE 4-1. SUMMARY OF DFAX STUDY RESULTS

Even using the ten percent DFAX criteria referenced by PJM, which is double the threshold required by the PUCO's *Koda* Test, each one of the Avangrid facilities passes the PJM threshold. Accordingly, in the

 ²¹ Appendix A, DFAX Reports and Spreadsheets for Moraine, Rugby, Elm Creek II, and Buffalo Ridge II Facilities; *See also In the Matter of The Application of Moraine Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility*, Case No. 21-516-EL-REN, Staff Review and Recommendation (Aug, 20, 2021).
 ²² Appendix A, DFAX Reports and Spreadsheets for Moraine, Rugby, Elm Creek II, and Buffalo Ridge II Facilities; *See also In the Matter of The Application of Rugby Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility*, Case No. 21-517-EL-REN, Staff Review and Recommendation (Aug, 20, 2021).
 ²³ Appendix A, DFAX Reports and Spreadsheets for Moraine, Rugby, Elm Creek II, and Buffalo Ridge II Facilities; *See also In the Matter of The Application of Rugby Wind LLC for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility*, Case No. 21-517-EL-REN, Staff Review and Recommendation (Aug, 20, 2021).
 ²³ Appendix A, DFAX Reports and Spreadsheets for Moraine, Rugby, Elm Creek II, and Buffalo Ridge II Facilities; *See*

also In the Matter of The Application of Elm Creek II for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-531-EL-REN, Staff Review and Recommendation (Aug, 20, 2021).

²⁴ Appendix A, DFAX Reports and Spreadsheets for Moraine, Rugby, Elm Creek II, and Buffalo Ridge II Facilities; *See* also In the Matter of The Application of Buffalo Ridge II for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility, Case No. 21-532-EL-REN, Staff Review and Recommendation (Aug, 20, 2021).

²⁵ Appendix B, DFAX Reports and Spreadsheets for Barton 1 Facility; *See also In the Matter of The Application of Barton Windpower 1 for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility*, Case No. 21-544-EL-REN, Staff Review and Recommendation (Aug. 20, 2021).

²⁶ Appendix C, DFAX Reports and Spreadsheets for Barton 2 Facility; *In the Matter of The Application of Barton 2 for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility*, Case No. 22-0380-EL-REN, Staff Review and Recommendation (Aug. 5, 2022).

Staff Review and Recommendation filed in each of the six Avangrid cases, Staff recommended certification of each facility at issue.
4.2 THE USE OF A 1 MW THRESHOLD CUTOFF

The *Koda* Test also requires an impact on a transmission line in Ohio of greater than 1 MW. The use of a 1 MW threshold cutoff is designed to capture those transactions which have a higher DFAX impact but the size of the resource is so small that the actual impact on a line is negligible. For example, a 10 MW project with a five percent DFAX impact on a 230-kV line would only have a 0.5 MW impact on a facility with a rating much higher than the transaction impact. Depending on the solution technique used by the power flow solution, the "noise" in the model would likely exceed a 1 MW threshold.

4.2.1 MW Impact of Avangrid Facilities

Table 4-2 shows the MW impact of each facility as noted by PJM provided by PJM for the facilities regarding the applications. The MW impact column contains two values. The first value is based on the highest DFAX for the case where either the start or end of the line is in Ohio. The second value is based on the highest DFAX for a transmission line, which has both a starting point and end point in Ohio. Each facility successfully passed the requirements of the *Koda* test with respect to the MW cutoff.

Project (Location)	Capacity (MW)	Impact (MW)
Moraine (MN)	51.0	8.35 MW/5.69 MW
Rugby (ND)	149.1	24.50 MW/16.66 MW
Elm Creek II (MN)	148.8	24.55 MW/16.66 MW
Buffalo Ridge II (SD)	210.0	34.40 MW/23.44 MW
Barton Windpower 1 (IA)	80.0	13.60 MW/9.09 MW
Barton 2 (IA)	78.0	13.26 MW/8.86 MW

TABLE 4-2. SUMMARY OF MW IMPACT RESULTS

Even using the 5 MW criteria referenced by PJM, which is significantly higher than the 1 MW threshold required by the *Koda* Test, each one of the facilities passes the MISO threshold. Accordingly, in the Staff Review and Recommendation filed in each of the six Avangrid cases, Staff correctly recommended certification of the specific facility at issue.

5 Issues Raised by CSG

5.1 "PHYSICAL DELIVERY" VERSUS "CONTRACT PATH"

In the Avangrid cases, CSG intervened and submitted comments, claiming there are two ways of measuring deliverability: physical and contractual. The Ohio rule specifies that deliverability must be physical. Notably, the measures for physical and contractual deliverability have no bearing on each other. If the physical deliverability refers to a direct connection between the generator and the load that is typically considered as a contract path, this ignores the basic physics of the power grid including parallel flows on other systems. If the contract path refers to a contractual transmission path between the generator and the load that respects the physical flows on the grid, then it is incumbent to choose the methodology that respects the laws of physics.

5.1.1 Contract Path Does Not Guarantee Physical Delivery

CSG opines that the presence of the contract path is the only way to guarantee physical delivery from a generating resource to a specific load. The premise is not supported by basic physics or by operational reality. There are only two scenarios in which CSG's assertions are true. The first scenario is if a load and a resource are directly connected using a direct-current (DC) line. The DC line allows for injection to be at a specific location and withdrawal to occur at the end of the circuit. The DC line bypasses the network transmission system and the associated parallel flows that would occur. The second scenario is if a single generator and a single load are connected by a single AC line where no other AC lines are present. Neither of these scenarios are applicable to the facilities seeking certification in this proceeding.

In an integrated transmission network, power flows according to the impedance of all facilities and thus follows the path of least resistance. Electrons do not follow contractual arrangements, unless the two scenarios referenced above are applicable. Those who remember the details of the August 14, 2003, blackout in the northeastern US understood that loss of power transfers due to the loss of the FirstEnergy ties into PJM resulted from the impacts of interrupted parallel flows and not the impacts of contract path flows. In MISO, the limitations put in place to address the transmission loading on the New Madrid - Dell 500-kV for the integration of the MISO South members were not the 1,000 MW contract path limit but were related to the 4,000+ MW of incremental network flows that occurred on the Dell – New Madrid line in addition to flows across the Southwest Power Pool (SPP) and Tennessee Valley Authority (TVA) systems coming from MISO North to MISO South transactions.

5.2 ACCEPTANCE OF THE DFAX METHODOLOGY

5.2.1 Use of DFAX with Respect to NERC Practices

CSG suggests that the DFAX methodology is dated and "no longer holds today" and that it is a "flawed" methodology. However, DFAX methodology is currently and commonly used by federal regulators and system operators to assess deliverability to maintain system integrity.

5.2.1.1 DFAX and the NERC/RTO Congestion Management Processes

Standards promulgated by NERC include two standards that are directly applicable to the discussion of the use of DFAX as an acceptable methodology with respect to deliverability of resources to load. Standard IRO-006-5, which is the Reliability Coordination – Transmission Loading Relief (TLR) standard and IRO-006-EAST-2, which is the TLR Procedure for the Eastern Interconnection, rely on the use of distribution factors as a foundation for the evaluation and curtailment of Interchange transactions between balancing authorities. The evaluation of Interchange transactions uses the Interchange Distribution Calculator (IDC). The IDC is a matrix that uses a form of distribution factors, known as generation distribution shift factors (GDSF) and load distribution shift factors (LDSF) to calculate the impact of any transaction between two balancing authorities. Curtailment of transactions is based on the percentage of flow between two balancing authorities across a flowgate that may become overloaded. Curtailment priority is determined by the flow impact across the flowgate in question.

5.2.1.2 DFAX and the NERC Standards for Calculation of Deliverability (MOD)

NERC has established three acceptable methodologies for calculating the ability to move power between locations. MOD-028-2 is the Area Interchange Methodology. MOD-029-2a is the Rated System Path Methodology. MOD-030-3 is the Flowgate Methodology. Both the Area Interchange Methodology and the Flowgate Methodology specifically rely upon the use of various distribution factors for the identification of flowgates and the application of those flowgate to assess Available Transmission Capacity between regions. Requirement R2.1.1 states:

Results of a first Contingency transfer analysis for ATC Paths internal to a Transmission Operator's system up to the path capability such that at a minimum the first three limiting Elements and their worst associated Contingency combinations with an <u>OTDF of at least 5%</u> and within the Transmission Operator's system are included as Flowgates.²⁷

Requirement R2.1.2 of MOD-030-3 also states:

Results of a first Contingency transfer analysis from all adjacent Balancing Authority source and sink (as defined in the ATCID) combinations up to the path capability such that at a minimum the first three limiting Elements and their worst associated Contingency combinations with an Outage Transfer Distribution Factor (OTDF) of at least 5% and within the Transmission Operator's system are included as Flowgates unless the interface between such adjacent Balancing Authorities is accounted for using another ATC methodology.²⁸

Lastly, Requirement R2.1.4.1 of MOD-030 references the valid usage of distribution factors for determination of assessments of deliverability between Balancing Authorities:

²⁷ NERC Standard MOD-030-3, R2.1.1, available at <u>https://www.nerc.com/files/MOD-030-3.pdf</u> (Nov. 13, 2014) (emphasis added).

²⁸ *Id.*, R2.1.2 (emphasis added).

Any generator within the Transmission Service Provider's area has at least <u>a 5%</u> <u>Power Transfer Distribution Factor (PTDF) or Outage Transfer Distribution Factor</u> (<u>OTDF) impact</u> on the Flowgate when delivered to the aggregate load of its own area, or A transfer from any Balancing Area within the Transmission Service Provider's area to a Balancing Area adjacent has <u>at least a 5% PTDF or OTDF</u> <u>impact on the Flowgate</u>. The <u>Transmission Operator may utilize distribution</u> <u>factors less than 5%</u> if desired.²⁹

5.2.2 Use of DFAX with Respect to MISO-PJM Facility Expansion

PJM documents their use of distribution factors for the calculation of Available Transfer Capability (ATC) in their ATCID, effective March 29, 2019.³⁰ Attachment C to the PJM OATT references the methodology used to assess ATC and has been approved by FERC as part of the PJM OATT. Section 5 of the ATCID details the Flowgate Methodology that references distribution factors.

MISO and PJM also support the use of DFAX for cost allocation of Cross-Border Baseline Reliability Projects (CBBRPs). Section 9.4.4.2.1 of the JOA states:

The Coordinated System Plan shall designate the share of the Project Cost to be allocated to each RTO based on the relative contribution of the combined Load of each RTO to loading on the constrained facility requiring the need for the CBBRP. The loading contribution will be pre-determined using a joint RTO planning model developed and agreed to by the planning staff of both RTOs. This model will form the base case from which reliability needs on the combined systems will be determined for the Coordinated System Plan. The model, adjusted for the conditions driving the upgrade needs, will be used to calculate the DFAX for cost allocation purposes for each RTO, using a source of the aggregate of RTO generation (network resources) for each RTO to a sink of all Loads within that RTO. The DFAX is the appropriate distribution factor for the condition causing the upgrade; OTDF for contingency condition flow criteria violations, and PTDF for normal condition flow criteria violations. The DFAX calculation determines the MW flow impact attributable to each RTO on the constraint requiring the transmission system to be upgraded. The total load of each RTO for the condition modeled is multiplied by the DFAX associated with that RTO to determine the respective MW flow contribution of that RTO to the constraint. The RTOs will quantify the relative impact due to PJM's system and the relative impact due to MISO's system and then will allocate between PJM and MISO the load contributions to the reliability constraint on the system by calculating the relative impacts caused by each RTO. This methodology will determine the extent to

²⁹ NERC Standard MOD-030-3, R2.1.4.1, available at <u>https://www.nerc.com/files/MOD-030-3.pdf</u> (Nov. 13, 2014) (emphasis added).

³⁰ PJM Available Transfer Capability Implementation Document, available at <u>https://www.pjm.com/pub/oasis/ATCID.pdf</u> (Mar. 29, 2019).

which each RTO contributes to the need for a reliability upgrade consistent with the Coordinated System Plan modeling that determined the need for the upgrade. The MISO total load impacts will be allocated to MISO and the PJM total load impacts will be allocated to PJM. PJM and MISO will then reallocate their shares internally in accordance with their respective tariffs. *By calculating the impacts in this manner, the RTOs will ensure that the relative contribution of each RTO (including both the aggravating and benefiting contributions of generation and load patterns within each RTO) to the need for a particular upgrade, is appropriately captured in the ensuing allocations, and that the allocation is consistent with the Coordinated System Plan modeling that determined the need for the upgrade.³¹*

5.2.3 Use of DFAX in Other Regions of the US

The use of DFAX as an approximation of system flows and deliverability is employed throughout the United States. In the Southeast, the DFAX is part of the calculation for short-term Available Transfer Capability in the Tennessee Valley Authority, Southern Company System, Santee Cooper, Duke Energy Carolinas, Duke Energy Progress, Florida Power & Light and Emera – Tampa Electric Company systems. As previously described, the DFAX-based Transmission Loading Relief (TLR) procedures are an important part of managing regional flows between systems, including market-to-non-market seams with MISO, Southwest Power Pool and PJM. In the Western Interconnection, the DFAX and Transfer Distribution Factors have been part of evaluating Unscheduled Flows³² since 2016 and continue to be used today.³³

³¹ Appendix D, JOA, Section 9.4.4.2.1(a) (emphasis added).

³² See Western Interconnection Unscheduled Flow Mitigation Plan (WIUFMP).

³³ https://www.spp.org/western-services/western-interconnection-unscheduled-flow-mitigation-plan-wiufmp/.

6 Conclusions

The use of DFAX as a proxy for deliverability to the state of Ohio as utilized in the *Koda* Test reflects a standard that is commonly used in the electric utility industry and has wide acceptance by FERC. NERC supports the DFAX method for flowgate calculations, transmission loading relief and the calculation of Available Transfer Capability between regions. The two entities most impacted by the deliverability arguments made by CSG—PJM and MISO—have a FERC-approved joint operating agreement that relies on DFAX as the basis for expansion planning, interconnection planning, real-time congestion management and facility cost allocation. The PUCO's five percent DFAX and 1 MW minimum requirements are reasonable when compared to other entities located in the Eastern Interconnection.

Given that the *Koda* Test is based on industry standards, and is reasonable, GDS supports the use of the *Koda* Test. GDS also supports the PUCO Staff's findings that the six Avangrid facilities seeking certification satisfy the *Koda* Test and the requirements embedded in Ohio law, and thus, should be certified in Ohio as qualifying renewable energy resources generating facilities.

APPENDIX A.

DFAX Reports and Spreadsheets provided by PJM for Moraine, Rugby, Elm Creek II and Buffalo Ridge II Facilities



DFAX Analysis of Renewable Resources for Avangrid

PJM Transmission Planning May 18, 2021

For Public Use



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Study of Renewable Resource Impact on Ohio Transmission Facilities through DFAX Analysis

PJM performed DFAX analysis in order to determine the impacts of various windfarm facilities outside of the PJM footprint on the transmission facilities inside the state of Ohio that are contained in the PJM footprint. Below is a summary of those findings:

PJM confirmed that all of the renewable resources included in the study have >5% DFAX on facilities in this study. This was confirmed using the 2025 RTEP base case and the TARA software program. Attached is a list of all the BES facilities in AEP, DEOK, DAYTON and ATSI. DFAX values with a magnitude above 5% are highlighted in green. Some of the facilities in the list are **outside** of Ohio because the service territories for AEP, ATSI and DEOK extends to other states.

The information below provides some background information on the analysis.

PJM confirmed the required information about the renewable resources from MISO to identify these facilities in the 2025 RTEP PSS/E case with the information for these facilities contained in the list below. A DFAX analysis on approximately 3,000 BES transmission facilities in Ohio and surrounding areas was performed using the TARA program. The buses at which the Wind generators are located provided the source for the DFAX analysis, and the generation with the PJM footprint provided the sink for the DFAX analysis. Finally, it was confirmed that there were a number of EHV transmission facilities on which at least 5% of the energy from these wind resources would be expected to flow if they were to deliver their energy into PJM. Details of the analysis are in the table attached to this report.

- 1. Moraine I is a 49.5 MW Wind farm in Xcel Energy North that connects to Chanarambie 34.5 kV bus. In the 2025 RTEP case, it is modeled at bus 600092.
- 2. Rugby is a 149.1 MW Wind farm in Otter Tail Power Company that connects to Rugby Wind 230 kV bus. In the 2025 RTEP case, it is modeled at bus 620115.
- 3. Buffalo Ridge II is a 210 MW Wind farm in Xcel Energy North that connects to Oak Lake Wind 115 kV bus. In the 2025 RTEP case, it is modeled at bus 600137 and 600140.
- 4. Elm Creek is a 148.8 MW Wind farm in Xcel Energy North that connects to Lakefield 345 kV bus. In the 2025 RTEP case, it is modeled at bus 600134.

Attached file:

PJM DFAX Analysis for Wind Farms May 2021 Request_final_for_Avan Grid.xlsx

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11	242940 05MUSKNG	345 242947 05WATERFORD 345 1	24294	0.05MUSKNG	242947 05WATERFORD	1 345	205 AFP	1025 1318	Base Case	0 -996 7	- 97.23	-1 15%	-1 15%	0.64%	0 1 01
12	242046 05H05HH6	139 246067 05NATERFORD 545 1	24204	6 05KAMMED13	246067 05NATENTONB	1 139	205 AEP	205 294	Base Case	0 103 2	- 94.23	0.09%	0.09%	-0.07%	
12	243020 05RAPPERTS	120 244020 0ENEW CADLT1 120 1	24302		244020 05NAIRIONS4	1 120	205 AEF	203 204	Base Case	0 195.2	- 79.74	0.03%	0.03%	0.11%	
14	250057 08M FORM	120 250151 00UPPTAD 120 1	24005	7 09M FORT	250151 094PPTAD	1 120	212 DE014	207 3371	Base Case	0 177 0	- 74.72	0.15%	-0.06%	0.11/0	
15	235346 01RONCVRT	138 242777 05PONCVP 138 7B	23534	6 01 PONCUPT	242777 05PONCVP	78 138	201/205 AP/AFP	104 104 1	Base Case	0 =75.7	- 72.83	0.00%	0.00%	0.00%	
16	242835 05TRISTA	138 242842 05W HIINT 138 1	23334	5 05TRISTA	242842 05W HUNT	1 130	205 AEP	205 284	Base Case	0 148 3	- 72.33	-0.09%	-0.09%	-0.13%	
17	242935 05F LTMA	345 242989 05E LTMA 139 2	24203	5 05E LIMA	242989 05F T.TMA	2 345/139	205 AFP	285 3691	Base Case	0 205 5	- 72.1	0.02%	0.02%	0.05%	
18	242605 05CLNCHR	138 242606 05CLNLED 138 1	24293	5 05CLNCHR	242606 05CT.NLED	1 128	205 AFP	223 3101	Base Case	0 159 5	- 71.51	-0.11%	-0.11%	0.02%	
19	242701 05LEESVT	138 314667 4ALTVSTA 139 1	24200	1 05LEESVT	314667 4ALTVSTA	1 138	205/345 AEP/DVP	205 284 1	Base Case	0 105.5	- 70.9	-0.14%	-0.14%	-0.51%	
20	270140 AA2-116 POT	345 270141 AA2-116 MAIN 345 1	27014	0 AA2-116 POT	270141 AA2-116 MATN	1 345	205 AEP	1239 12301	Base Case	0 -865 3	- 69.84	-0 54%	-0.54%	-0.54%	
21	242921 05CORNU	765 242924 05HANG R 765 1	24292	1 05CORNU	242924 05HANG B	1 765	205 AEP	1540 1540	Base Case	0 1066 8	- 69.27	-0.67%	-0.67%	-0.67%	
22	242926 05MALTS	765 243538 05MALTSX 138 1	24292	6 05MALTS	243538 05MAT.TSX	1 765/138	205 AEP	820 9261	Base Case	0 567 8	- 69.24	0.24%	0.24%	0.12%	
23	243012 05G WASHGTON	1 138 243026 05KAMMER13 138 1	24301	2 05G WASHGTON	243026 05KAMMER13	1 138	205 AEP	446 621 1	Base Case	0 -308.1	- 69.08	-0.29%	-0.29%	0.29%	
24	238649 02DALE	138 245797 05W.CANTON2 138 1	23864	9 02DALE	245797 05W.CANTON2	1 138	202/205 ATSI/AEP	233 282 1	Base Case	0 -160.7	- 68.98	-0.10%	-0.10%	0.13%	
25	243537 05MALIS	138 243538 05MALISX 138 ZB	24353	7 05MALIS	243538 05MALISX	ZB 138	205 AEP	820 1054	Base Case	0 -564.9	- 68.9 (0.24%	0.24%	0.12%	
26	239154 02W.FREM	138 243009 05FRMNT 138 1	23915	4 02W.FREM	243009 05FRMNT	1 138	202/205 ATSI/AEP	296 361 1	Base Case	0 202.3	- 68.36 (0.00%	0.00%	-0.21%	
27	250145 08MELDAL	138 250154 08MELDLS 138 1	25014	5 08MELDAL	250154 08MELDLS	1 138	212 DE0&K	125 125 1	Base Case	0 -84.2	- 67.4 (-0.05%	-0.05%	-0.05%	
28	235345 01HINTON	138 242668 05HINTON 138 ZB	23534	5 01HINTON	242668 05HINTON	ZB 138	201/205 AP/AEP	23 23 1	Base Case	0 -15.5	- 67.29 (0.00%	0.00%	0.00%	
29	249581 08MELDAL	345 250145 08MELDAL 138 1	24958	1 08MELDAL	250145 08MELDAL	1 345/138	212 DE0&K	126 126 1	Base Case	0 -84	- 66.7	-0.05%	-0.05%	-0.05%	
30	250118 08TRMNL2	138 249575 08TERMNL 345 1	25011	8 08TRMNL2	249575 08TERMNL	1 138/345	212 DE0&K	504 504 1	Base Case	0 -335.6	- 66.59 (-0.04%	-0.04%	-0.07%	
31	238514 02IRONV	138 238568 02BAYSHO 138 1	23851	4 02IRONV	238568 02BAYSHO	1 138	202 ATSI	223 271	Base Case	0 -148.2	- 66.44 (0.01%	0.01%	-0.01%	
32	242987 05DEXTER	138 243619 05ROSEWOODSS 138 1	24298	7 05DEXTER	243619 05ROSEWOODSS	1 138	205 AEP	293 341	Base Case	0 194.6	- 66.41 0	0.01%	0.01%	0.20%	
33	243212 05BENTON	345 243250 05BENTON 138 1	24321	2 05BENTON	243250 05BENTON	1 345/138	205 AEP	488 521 1	Base Case	0 323.1	- 66.21 (0.13%	0.13%	0.00%	
34	243026 05KAMMER13	138 246940 05BIGR2Z 138 1	24302	6 05KAMMER13	246940 05BIGR2Z	1 138	205 AEP	205 284 1	Base Case	0 135.3	- 66.02 (-0.12%	-0.12%	0.05%	
35	243070 050HIOCT	138 246770 05DRESDN 138 1	24307	0 050HIOCT	246770 05DRESDN	1 138	205 AEP	680 7951	Base Case	0 -448.3	- 65.93 (-0.28%	-0.28%	-0.28%	
36	242668 05HINTON	138 242777 05RONCVR 138 1	24266	8 05HINTON	242777 05RONCVR	1 138	205 AEP	145 145	Base Case	0 95.3	- 65.74 0	0.00%	0.00%	0.00%	
37	243453 05BEATTY	345 245769 05ADKINS 345 1	24345	3 05BEATTY	245769 05ADKINS	1 345	205 AEP	1096 1203 1	Base Case	0 -719.3	- 65.63	-0.88%	-0.88%	-0.24%	
38	246940 05BIGR2Z	138 247128 05ASTNSS 138 1	24694	0 05BIGR2Z	247128 05ASTNSS	1 138	205 AEP	205 284 1	Base Case	0 134.2	- 65.45 0	-0.12%	-0.12%	0.05%	
39	242943 05SCANTO	345 247463 05SCANTO XFL 345 Z1	24294	3 05SCANTO	247463 05SCANTO XFL 2	Z1 345	205 AEP	1740 1868 1	Base Case	0 -1128.6	- 64.86 0	-1.42%	-1.43%	2.25%	
40	250117 08TRMNL1	138 249575 08TERMNL 345 1	25011	7 08TRMNL1	249575 08TERMNL	1 138/345	212 DEO&K	498 498 1	Base Case	0 -322.7	- 64.8	-0.03%	-0.03%	-0.06%	
41	238568 02BAYSHO	138 240854 02CLIFFS NR 138 1	23856	8 02BAYSHO	240854 02CLIFFS NR	1 138	202 ATSI	297 365 1	Base Case	0 192.1	- 64.69 0	0.07%	0.07%	-0.01%	
42	243014 05GRBLOP	138 243300 05GRABIL 138 Z1	24301	4 05GRBLOP	243300 05GRABIL	Z1 138	205 AEP	19 19	Base Case	0 12.3	- 64.69 0	0.00%	0.00%	0.00%	
43	239123 02STAR	138 239160 02WADS 138 1	23912	3 02STAR	239160 02WADS	1 138	202 ATSI	221 262 1	Base Case	0 142.8	- 64.62 (-0.04%	-0.04%	0.04%	
44	250057 08M.FORT	138 325014 4CLIFTY TAP2 138 1	25005	7 08M.FORT	325014 4CLIFTY TAP2	1 138	212/363 DEO&K/LGEE	129 129 1	Base Case	0 -83	- 64.32	0.00%	0.00%	0.06%	
45	242605 05CLNCHR	138 242644 05FREMO1 138 1	24260	5 05CLNCHR	242644 05FREM01	1 138	205 AEP	223 310 1	Base Case	0 143.2	- 64.21 (0.01%	0.01%	0.18%	
46	243537 05MALIS	138 243553 05POLARS 138 1	24353	7 05MALIS	243553 05POLARS	1 138	205 AEP	223 310 1	Base Case	0 141.5	- 63.47 (0.01%	0.01%	0.00%	
47	249570 08P.UNON	345 250082 08P.UN1 138 1	24957	0 08P.UNON	250082 08P.UN1	1 345/138	212 DE0&K	500 500 1	Base Case	0 316.7	- 63.33 (0.03%	0.03%	0.00%	
48	248013 06PIERCE	345 250143 08PRCE18 138 18	24801	3 06PIERCE	250143 08PRCE18	18 345/138	206/212 OVEC/DEO&K	480 501	Base Case	0 303.6	- 63.25 (0.14%	0.14%	0.14%	
49	242921 05CORNU	765 242934 05CORNU 345 1	24292	1 05CORNU	242934 05CORNU	1 765/345	205 AEP	1698 1698 1	Base Case	0 -1068.1	- 62.9	-0.67%	-0.67%	-0.67%	
50	242639 05FLETCH	138 242801 05SKEGGS BRZ 138 1	24263	9 05FLETCH	242801 05SKEGGS BRZ	1 138	205 AEP	196 247 1	Base Case	0 123.1	- 62.83 (-0.12%	-0.12%	-0.02%	
51	243534 05LICK	138 246738 05JACKSON 138 Z1	24353	4 05LICK	246738 05JACKSON	Z1 138	205 AEP	43 52 1	Base Case	0 26.9	- 62.46	0.00%	0.00%	0.00%	
52	243229 050LIVE	345 243353 050LIVE 138 2	24322	9 050LIVE	243353 050LIVE	2 345/138	205 AEP	766 803 1	Base Case	0 476.5	- 62.2	-0.05%	-0.05%	0.03%	
53	242835 05TRISTA	138 243904 05MARIETT 138 1	24283	5 05TRISTA	243904 05MARIETT	1 138	205 AEP	531 531	Base Case	0 -330.1	- 62.17 (-0.23%	-0.23%	-0.23%	
54	238662 02DKQ-17	138 238740 02FWLSQ2 138 1	23866	2 02DKQ-17	238740 02FWLSQ2	1 138	202 ATSI	103 133 1	Base Case	0 -63.9	- 62.01 0	-0.02%	-0.02%	0.00%	
55	249991 08BUFTN1	138 250028 08FLRNC2 138 1	24999	1 08BUFTN1	250028 08FLRNC2	1 138	212 DEO&K	266 266 1	Base Case	0 164.7	- 61.91 0	0.04%	0.04%	0.07%	
56	242691 05KENOVA	138 242835 05TRISTA 138 1	24269	1 05KENOVA	242835 05TRISTA	1 138	205 AEP	334 466 1	Base Case	0 -206.7	- 61.9 0	0.02%	0.02%	0.18%	
57	242659 05GRNGST	138 246919 05CHADWICK2 138 1	24265	9 05GRNGST	246919 05CHADWICK2	1 138	205 AEP	409 527 1	Base Case	0 252.7	- 61.78 (-0.09%	-0.09%	0.05%	
58	243250 05BENTON	138 243396 05WESTST 138 1	24325	0 05BENTON	243396 05WESTST	1 138	205 AEP	167 245 1	Base Case	0 103.1	- 61.74 (0.01%	0.01%	-0.01%	
59	242835 05TRISTA	138 243681 05CHADWICK1 138 1	24283	5 05TRISTA	243681 05CHADWICK1	1 138	205 AEP	251 335 1	Base Case	0 154.9	- 61.7 (0.05%	0.05%	0.08%	
60	250081 080AKLEY	138 250092 08REDBK1 138 1	25008	1 080AKLEY	250092 08REDBK1	1 138	212 DEO&K	324 324 1	Base Case	0 -199.8	- 61.65 0	-0.02%	-0.02%	-0.03%	

		Α		В	С	DE	F	G	НІ	J	К		М	N	0	Р	Q	R	S	T U
61 242928 05MARYSV	765	242939 05MARYSV	345 2	242928	05MARYSV	242939 05MARYSV	2	2 765/345	205 AEP	1868	1868 Base	Case	0	1150.6	-	61.6	0	0.42%	0.42%	0.85%
62 238822 02INQ-11	138	239324 02CH	138 1	238822	02INQ-11	239324 02CH	1	138	202 ATSI	273	332 Base	Case	0	167.9	-	61.51	0	-0.07%	-0.07%	0.04%
63 242987 05DEXTER	138	246310 05MEIGS SW1Z	138 1	242987	05DEXTER	246310 05MEIGS SW1	Z 1	138	205 AEP	329	361 Base	Case	0 -	-201.4	-	61.2	0	0.01%	0.01%	0.20%
64 243038 05MEIG1Z	138	243084 05RUTLAN	138 1	243038	05MEIG1Z	243084 05RUTLAN	.1	138	205 AEP	334	440 Base	Case	0 -	-203.4	-	60.9	0	0.01%	0.01%	0.20%
65 242576 05CAPITOLH	138	242593 05CHEM 2	138 1	242576	05CAPITOLH	242593 05CHEM 2	1	138	205 AEP	410	568 Base	Case	0 -	-248.7	-	60.65	0	-0.32%	-0.32%	-0.31%
66 238563 02BAY SH	345	238568 02BAYSHO	138 2	238563	02BAY SH	238568 02BAYSHO	2	2 345/138	202 ATSI	546	616 Base	Case	0	331	-	60.62	0	0.03%	0.03%	0.02%
67 238581 02BRBRTN	138	239619 02ALCOA	138 1	238581	02BRBRTN	239619 02ALCOA	1	138	202 ATSI	233	282 Base	Case	0	141.1	-	60.55	0	-0.08%	-0.08%	0.09%
68 243062 05NMUSKG	138	247374 05MUSKNG2B	138 1	243062	05NMUSKG	247374 05MUSKNG2B	t	138	205 AEP	223	310 Base	Case	0	-135	-	60.52	0	0.14%	0.14%	0.13%
69 253005 09BATH	138	253085 09URBANA	138 1	253005	09BATH	253085 09URBANA	1	138	209 DAY	163	200 Base	Case	0	98.6		60.46	0	-0.17%	-0.17%	-0.04%
70 243038 05MEIG1Z	138	246310 05MEIGS SW1Z	138 1	243038	0.5MEIG1Z	246310 05MEIGS SW1	7 1	138	205 AEP	334	480 Base	Case	0	201.4	-	60.31	0	0.01%	0.01%	0.20%
71 248013 06PTERCE	345	250086 08PTERCE	138 17	248013	06PTERCE	250086 08PTERCE	13	7 345/138	206/212 OVEC/DEO&K	515	537 Base	Case	0	309.9	-	60.17	0	0.17%	0.17%	0.15%
72 238766 02GBED D	138	238767 02GRED T	138 1	238766	02GRED D	238767 02GBED T	1	138	202 ATST	26	26 Base	ase	0	-15.6	-	60.09	0	0.00%	0.00%	0.00%
73 239093 025AMMTS	138	239369 02TORONTO	138 1	239093	02SAMMTS	239369 02TORONTO	1	138	202 1101	278	330 Base	~aeo	0.	-167 1	-	60.09	0	0.00%	0.00%	0.06%
74 243234 05TWIN P	345	243395 05TWIN P	139 7	243234	OSTWIN D	243385 05TWIN P		7 3/5/139	205 AFD	670	752 Base	7250	0	401.6	-	59.03	0	-0.02%	-0.02%	-0.01%
75 242229 05MEDIDN	245	243385 051WIN B	2/5 1	243234	O SMEDIDN	243303 05TWIN B	-	245	205 AEF	106	550 Base	2000	0	200 5		59.93	0	0.02%	0.02%	0.00%
75 243228 USMERIDN	120	243763 USEWHILI	120 1	243220	05MERIDN 050mmpp	243763 UJEWHILI		120	203 AEF	400	245 Dase	Case	0	290.3		59.77	0	0.00%	0.00%	0.00%
70 242741 05011ER	130	SI4007 4ALIVSIA	130 I	242741	09DOTTER	SI4007 4ALIVSIA		130	205/345 AEP/DVP	240	245 Base	Case	0	-99.4	-	59.52	0	0.00%	0.00%	0.95%
79 242207 0525055	130	200090 UOKEDBKZ	130 L	249984	05CDODN	200093 08KEDBKZ		100	212 DEU&K	240	233 Base	Case		141.0 077 E	-	59.02	0	-0.01%	-0.01%	0.10%
70 242807 USSPORN	138	2428U8 USSPURNS	130 1	242807	OGRIMER	242808 05SPORNS	71	138	203 AEP	4/1	042 Base	Jase	U -	1052 7	-	28.91	0	0.1/%	0.1/%	0.19%
13 2495// U8ZIMER	345	249580 0821MERG	345 21	249577	UOZIMER	249580 0821MERG	21	345	ZIZ DEO&K	1/93	1/93 Base	Jase	0 -	1033./	-	58.77	0	-0.66%	-0.66%	-0.00%
00 25005/ 08M.FORT	138	24956/ U8M.FORT	345 9	250057	USM.FORT	24956/U8M.FORT		138/345	212 DEO®K	422.9	4/4.8 Base	Jase	0 -	-24/.5	-	58.51	0	-0.05%	-0.05%	-0.10%
81 243131 USTILTON	138	243143 U5WBELLA	138 1	243131	USTILTON	243143 U5WBELLA		138	205 AEP	251	335 Base	Jase	0 -	-146.8	-	58.5	0	-0.62%	-0.62%	0.01%
82 250016 08EBNZR	138	250057 08M.FORT	138 1	250016	USEBNZR	250057 08M.FORT	1	138	212 DEO&K	266	266 Base	Case	0 -	-155.6	-	58.49	0	-0.03%	-0.03%	0.00%
83 243312 05HUMMEL	138	244658 05GRNTWN	138 1	243312	USHUMMEL	244658 05GRNTWN	1	138	205 AEP	219	251 Base	Case	0 -	-127.6	-	58.26	0	-0.07%	-0.07%	-0.01%
84 242607 05CLOVRD	138	242676 05HUNTCT	138 1	242607	USCLOVRD	242676 05HUNTCT	1	138	205 AEP	251	335 Base	Case	0	145.8	-	58.09	0	0.11%	0.11%	-0.17%
85 243224 05KENZIE	345	243322 05KENZIE	138 1	243224	05KENZIE	243322 05KENZIE]	345/138	205 AEP	508	535 Base	Case	0	295.1	-	58.08	0	-0.02%	-0.02%	-0.01%
86 249573 08SGROVE	345	250097 08SGROVE	138 1	249573	08SGROVE	250097 08SGROVE	1	345/138	212 DEO&K	495	498 Base	Case	0	287.4	-	58.05	0	-0.10%	-0.10%	-0.12%
87 242687 05JOHNMT	138	242741 050TTER	138 1	242687	05JOHNMT	242741 050TTER	1	138	205 AEP	167	245 Base	Case	0	-96.2	-	57.61	0	0.00%	0.00%	0.95%
88 250046 08HINKLE	138	250117 08TRMNL1	138 1	250046	08HINKLE	250117 08TRMNL1	1	138	212 DE0&K	275	275 Base	Case	0	-158	-	57.47	0	-0.04%	-0.04%	-0.04%
89 242606 05CLNLFD	138	242639 05FLETCH	138 1	242606	05CLNLFD	242639 05FLETCH	1	138	205 AEP	223	310 Base	Case	0	128.1	-	57.45	0	-0.12%	-0.12%	-0.02%
90 243049 05NATRIUM12	138	246067 05NATRIUM34	138 Z2	243049	05NATRIUM12	246067 05NATRIUM34	Z2	138	205 AEP	187	240 Base	Case	0 -	-107.1	-	57.3	0	0.06%	0.06%	0.03%
91 243049 05NATRIUM12	138	246067 05NATRIUM34	138 Z1	243049	05NATRIUM12	246067 05NATRIUM34	Z1	138	205 AEP	187	240 Base	Case	0 -	-107.1	-	57.3	0	0.06%	0.06%	0.03%
92 249567 08M.FORT	345	250057 08M.FORT	138 10	249567	08M.FORT	250057 08M.FORT	10	345/138	212 DEO&K	442.7	487.9 Base	Case	0	253.2	-	57.2	0	-0.05%	-0.05%	-0.16%
93 243513 05GENOA	138	243591 05SPRNGR	138 1	243513	05genoa	243591 05SPRNGR	1	138	205 AEP	196	216 Base	Case	0	111.9	-	57.1	0	0.04%	0.04%	0.01%
94 243250 05BENTON	138	243365 05RIVERSIDE1	138 2	243250	05BENTON	243365 05RIVERSIDE	1 2	138	205 AEP	136	167 Base	Case	0	77.3	-	56.84	0	0.04%	0.04%	0.00%
95 243547 05MORSE	138	243577 05STELZR	138 1	243547	05MORSE	243577 05STELZR	1	138	205 AEP	187	240 Base	Case	0	105.4	-	56.34	0	0.07%	0.07%	0.00%
96 249574 08TDHNTR	345	250107 08TODM15	138 1	249574	08TDHNTR	250107 08TODM15	1	345/138	212 DEO&K	477	489 Base	Case	0	266.8	-	55.94	0	-0.03%	-0.03%	-0.04%
97 250057 08M.FORT	138	250131 08WILEY2	138 1	250057	08M.FORT	250131 08WILEY2	1	138	212 DEO&K	198	198 Base	Case	0	110.3	-	55.68	0	-0.03%	-0.03%	0.01%
98 238978 02N.STAR	138	239120 02SSPRNG	138 1	238978	02N.STAR	239120 02SSPRNG	1	138	202 ATSI	176	229 Base	Case	0	-97.8		55.54	0	0.00%	0.00%	0.00%
99 243396 05WESTST	138	247134 05EWATRV	138 1	243396	05WESTST	247134 05EWATRV	1	138	205 AEP	167	245 Base	Case	0	92.5	-	55.36	0	0.00%	0.00%	-0.01%
100 241901 02LALLENDORF	345	241902 020REGON	345 ZL	241901	02LALLENDORF	241902 020REGON	ZL	345	202 ATSI	1195	1195 Base	Case	0 -	-660.7	-	55.29	0	-0.41%	-0.41%	-0.41%
101 242948 05WBELLA	345	243143 05WBELLA	138 3	242948	05WBELLA	243143 05WBELLA	3	3 345/138	205 AEP	680	747 Base	Case	0	373.9		54.99	0	-0.29%	-0.29%	0.04%
102 238759 02GM WAR	138	239138 02TOD	138 1	238759	02GM WAR	239138 02TOD	1	138	202 ATSI	267	352 Base	Case	0 -	-146.7	-	54.93	0	0.10%	0.10%	0.00%
103 243529 0.5KENNY	138	243560 05ROBERT	138 1	243529	05KENNY	243560 05ROBERT	1	138	205 AEP	213	282 Base	Case	0	-117	-	54.91	n	-0.10%	-0,10%	-0.05%
104 249566 08FOSTER	345	250035 08FTRM11	138 1	249566	08FOSTER	250035 08FTRM11	1	345/138	212 DE0&K	492	498 Base	Case	0	269.1	-	54.69	0	0.06%	0.06%	0.01%
105 243062 05NMUSKG	138	243074 05PHTLO1	138 1	243062	05NMUSKG	243074 05PHTLO1	1	138	205 AFP	210	255 Base	Case	0	119.4		54 53	0	0 14%	0.14%	0.13%
106 238538 02APRO-1	138	238836 02,765013	138 1	238538	02APRO-1	238836 02.765013	1	130	202 ATST	205	265 Base	Case	0.	-111.7	-	54 51	n	0.01%	0.01%	0.01%
107 250092 088EDBK1	138	249571 08PEDBK1	345 1	250000	08PEDBK1	249571 08REDBK1		138/345	212 DEOSK	490	501 Base		0	-265 1		54 22	0	-0.05%	-0.05%	-0.06%
108 243469 05PEATTY	139	926010 AC1-078 TAD	138 1	243460	05BEATTY	926010 201-078 000		120	205/202 AFD/ATCT	200	242 8380		0	108 /		54.22	0	0.00%	0.00%	0.06%
100 239922 0350-14	120	220242 02401 T-2	120 1	243403	021NO-14	220210 ACT 070 TAT		120	203/202 AEF/AISI	200	242 Dase	2220	0	140		54.05	0	-0.01%	-0.01%	0.00%
110 242907 05000PM	130	200242 02HULT-A	130 1	230023	05CDODN	2420242 UZHULI-A		130	202 AIDI 205 AFD	209	202 Page	Case	0	100 2	_	52 05	0	-0.01%	-0.01%	0.02%
111 242807 055PORN	100	243084 USRUILAN	130 1	242007	055PORN	243064 USKUILAN		130	205 AEP	101	392 Base	Jase	0	100.2		53.95	0	0.03%	0.03%	0.23%
112 243409 USBEATTY	138	243380 USWHITER	130 1	243469	O SEATTY	243500 USWHITER		138	205 AEP	191	209 Base	Jase	U	103	-	53.94	0	-0.07%	-0.07%	-0.05%
112 24268/ USJOHNMT	138	242/34 USNEWLDN	138 1	242687	USJOHNMT	242/34 USNEWLDN		138	205 AEP	167	240 Base	Jase	U	89.8	-	53.76	0	0.00%	0.00%	0.95%
113 238539 UZARMCO	138	238540 UZARMCO+	138 1	238539	UZARMCO	238540 U2ARMCO+		138	202 ATS1	159	191 Base	case	U	-85.4	-	53.7	0	0.00%	0.00%	0.00%
114 242605 05CLNCHR	138	243899 U5LOCKHA	138 1	242605	USCLNCHR	243899 U5LOCKHA	1	138	205 AEP	223	310 Base	Jase	0	119.7	-	53.69	0	0.02%	0.02%	0.18%
115 247/97 05STEMPLE	345	24//98 Y2-050_STN	345 1	247797	USSTEMPLE	24//98 Y2-050 STN	1	345	205 AEP	999	999 Base	Jase	0 -	-535.4	-	53.59	0	-0.33%	-0.33%	-0.33%
116 243563 05ROZELL	138	243585 05WAVERL	138 1	243563	USROZELL	243585 05WAVERL	- 1	138	205 AEP	223	302 Base	Case	0 -	-119.4	-	53.56	0	-0.08%	-0.08%	0.07%
11/ 238504 02GM-PWR-TRN	138	241945 AB1-107 TAP	138 1	238504	02GM-PWR-TRN	241945 AB1-107 TAP	1	138	202 ATSI	278	342 Base	Case	0 -	-148.6		53.46	0	0.05%	0.05%	-0.03%
118 238540 02ARMCO+	138	238906 02LNGVEW	138 1	238540	02ARMCO+	238906 02LNGVEW	1	138	202 ATSI	160	192 Base	Case	0	-85.4	-	53.37	0	0.00%	0.00%	0.00%
119 238620 02CL Q12	138	239296 02CPPRDG	138 1	238620	02CL Q12	239296 02CPPRDG	1	138	202 ATSI	187	222 Base	Case	0	99.7	-	53.33	0	-0.22%	-0.22%	-0.01%
120 242576 05CAPITOLH	138	247794 05COCO	138 1	242576	05CAPITOLH	247794 05COCO	1	138	205 AEP	257	360 Base	Case	0	136.9	-	53.27	0	-0.33%	-0.33%	-0.22%

	Α		B C	D	E	F	G	НІ	J	К	L.	M	N	0	Р	Q	R	S	T U
121 239107 02SHNAGO	138 239934 02HEASLEY 1	138 2	239107 02SHNAGO	239934	02HEASLEY	2	138	202 ATSI	176	229	Base Case	0	93.7	-	53.24	0	-0.37%	-0.37%	0.00%
122 242946 05TIDD	345 253965 15COLLIE 3	345 1	242946 05TIDD	253965	15COLLIE	1	345	205/215 AEP/DLCO	1229	1391	Base Case	0	650.7	-	52.94	0	-1.16%	-1.16%	0.49%
123 242583 05CATAWB	138 242607 05CLOVRD 1	138 1	242583 05CATAWB	242607	05CLOVRD	1	138	205 AEP	205	205	Base Case	0	-108.5	-	52.93	0	0.12%	0.12%	0.23%
124 242701 05LEESVI	138 242802 05SMITHMTN 1	138 1	242701 05LEESVI	242802	05SMITHMTN	1	138	205 AEP	205	255	Base Case	0	-108.1	-	52.74	0	-0.12%	-0.12%	-0.48%
125 250151 08HEBTAP	138 250152 08HEBRNG 1	138 Z1	250151 08HEBTAP	250152	08HEBRNG	Z1	138	212 DEO&K	309	349	Base Case	0	163	-	52.74	0	-0.06%	-0.06%	-0.04%
126 243307 05HARTEO	138 247134 05EWATRV 1	138 1	243307 05HABTEO	247134	05EWATRV	1	138	205 AEP	167	245	Base Case	0	-87.8	-	52 54	0	0.00%	0.00%	-0.01%
127 243008 05FREMCT	138 243009 05ERMNT 1	138 1	243008 05FREMCT	243009	05FRMNT	1	138	205 AEP	251	251	Base Case	0	-131.9	_	52.54	0	0.00%	0.00%	-0.17%
128 250162 08GARVER	138 249582 08CARVER 3	345 1	250162 08CARVER	249582	OSCARVER	1	138/345	212 DEOEK	478	478	Base Case	0	-249 8	_	52.01	0	-0.02%	-0.02%	-0.03%
120 242939 05THETVE	139 243004 05MARTERT 1	120 1	242939 05 THE VE	243904	05MADIETT	1	130/343	205 AFP	695	605	Base Case	0	362 0		52.20	0	-0.23%	-0.23%	-0.23%
120 232037 02N MED	130 230107 02PUCKEY 1	120 1	2320377 02N MED	243304	OOPHCKEY		120	203 AEF	222	2035	Base Case	0	101 5		52.21	0	-0.23%	-0.23%	-0.23%
130 238377 02N MED	130 246200 05CLOPE ME Z 1	130 1	236977 02N MED	239197	OZBUCKEI		130	202 AISI	1.67	102	Dase Case	0	121.3		52.13	0	-0.13%	-0.13%	-0.01%
131 243767 USGLOBE	138 246399 USGLOBE MT Z 1	138 1	243767 USGLOBE	246399	OSGLOBE MT Z		138	205 AEP	167	167	Base Case	0	-86.8	-	51.98	0	0.00%	0.00%	0.00%
132 243049 05NATRIUMI2	138 243775 05PITTPL 1	138 1	243049 05NATRIUMI2	243775	05PITTPL		138	205 AEP	143	153	Base Case	0	/4.2	-	51.85	0	0.00%	0.00%	0.00%
133 242940 05MUSKNG	345 242941 050HIOCT 3	345 1	242940 05MUSKNG	242941	050HIOCT	1	345	205 AEP	1025	1318	Base Case	0	530.3	-	51.73	0	0.72%	0.72%	0.53%
134 249574 08TDHNTR	345 250109 08TODM17 1	138 1	249574 08TDHNTR	250109	08TODM17	1	345/138	212 DEO&K	491	503	Base Case	0	253.1	-	51.55	0	-0.03%	-0.03%	-0.04%
135 249574 08TDHNTR	345 250108 08TODM16 1	138 1	249574 08TDHNTR	250108	08TODM16	1	1 345/138	212 DEO&K	492	504	Base Case	0	253.6	-	51.55	0	-0.03%	-0.03%	-0.04%
136 242938 05MARQUI	345 246888 05BIERSR 3	345 1	242938 05MARQUI	246888	05BIERSR	1	345	205 AEP	1390	1390	Base Case	0	716.4	-	51.54	0	-0.36%	-0.37%	0.70%
137 242932 05CANTNC	345 247797 05STEMPLE 3	345 1	242932 05CANTNC	247797	05STEMPLE	1	345	205 AEP	1409	1409	Base Case	0	-725.8	-	51.51	0	0.14%	0.14%	-0.16%
138 243247 05AUBURN	138 255125 17DEKALB 1	138 1	243247 05AUBURN	255125	17DEKALB	1	138	205/217 AEP/NIPS	45	45	Base Case	0	23.2		51.48	0	0.01%	0.01%	0.01%
139 250046 08HINKLE	138 250074 08MTCHL4 1	138 1	250046 08HINKLE	250074	08MTCHL4	1	138	212 DEO&K	275	275	Base Case	0	141.1	-	51.31	0	-0.04%	-0.04%	-0.04%
140 249988 08BKJ135	138 250086 08PIERCE 1	138 1	249988 08BKJ135	250086	08PIERCE	1	138	212 DEO&K	603	603	Base Case	0	-309.3	-	51.3	0	0.17%	0.17%	0.15%
141 239161 02WAKRON	138 239619 02ALCOA 1	138 1	239161 02WAKRON	239619	02ALCOA	1	138	202 ATSI	270	332	Base Case	0	-138.5	-	51.28	0	-0.08%	-0.08%	0.09%
142 249571 08REDBK1	345 250093 08REDBK2 1	138 1	249571 08REDBK1	250093	08REDBK2	1	345/138	212 DEO&K	485	497	Base Case	0	248.2	-	51.18	0	-0.04%	-0.04%	-0.06%
143 246481 05NMUSKG BP	138 246490 05PHILO BP 1	138 1	246481 05NMUSKG BP	246490	05PHILO BP	1	138	205 AEP	187	240	Base Case	0	95.6	-	51.15	0	-0.15%	-0.15%	0.10%
144 242855 05WYOMIN	138 247004 05GUYAND 1	138 1	242855 05WYOMIN	247004	05GUYAND	1	138	205 AEP	205	284	Base Case	0	104.2	-	50.81	0	-0.08%	-0.08%	-0.01%
145 243473 05BIXBY	138 243536 05LS-II 1	138 1	243473 05BIXBY	243536	05LS-II	1	138	205 AEP	196	247	Base Case	0	99.6	-	50.81	0	0.07%	0.07%	0.00%
146 242537 05AMOS	138 242538 05AMOS 6 XFL 1	138 1	242537 05AMOS	242538	05AMOS 6 XFL	1	138	205 AEP	696	747	Base Case	0	-352.7	-	50.68	0	-0.15%	-0.15%	-0.18%
147 242689 05KANAWHA1	138 247092 05KANAWH BSZ 1	138 ZT.	242689 05KANAWHA1	247092	05KANAWH BSZ	21.	138	205 AEP	285	368	Base Case	0	-144.3	-	50.64	0	-0.12%	-0.12%	0.04%
148 243034 05MAROUT	138 243501 05E BEAV 1	138 1	243034 05MAROUT	243501	05E BEAV	1	138	205 AEP	223	310	Base Case	0	112 8	-	50 6	0	-0.08%	-0.08%	0.00%
149 242997 05F NEWCONCZ	138 246490 05PHILO BP 1	138 1	242997 05E NEWCONCZ	246490	05PHTIO BP	1	138	205 AEP	187	240	Base Case	0	-94 3	-	50.44	0	-0.15%	-0.15%	0.10%
150 247790 05KLINE	139 255163 17NOPTHEAST 1	130 1	242337 05E.NEWCONC2	255163	17NOPTHEAST	1	130	205/217 AFD/NTDC	1.95	230	Base Case	0	03.2		50.39	0	-0.07%	-0.07%	-0.07%
151 242540 05MULDBY	130 24262 06D07ELL 1	120 1	242540 05KLINE	200100	05DOZELI		120	205/21/ AEF/NIFS	202	22.5	Base Case	0	_112 4		50.33	0	-0.07%	-0.07%	0.07%
151 243349 05M0LBRI	130 2445565 USROZELL 1	130 1	243349 05M0LBR1	243303	OFCONTIN		130	205 AEF	223	310	Dase Case	0	126.4		50.35	0	-0.08%	-0.08%	0.07%
152 243302 05GRANT	138 244658 USGRNTWN 1	138 1	243302 05GRANT	244658	USGRNTWN		138	205 AEP	251	335	Base Case	0	-126.4	-	50.35	0	-0.07%	-0.07%	-0.05%
153 243224 USKENZIE	345 270139 AA2-116 TAP2 3	345 1	243224 USKENZIE	270139	AAZ-116 TAPZ		. 345	205 AEP	1409	1409	Base Case	0	-/08.5	-	50.29	0	-0.17%	-0.17%	-0.28%
154 249989 08BKJ246	138 250143 08PRCE18 1	138 1	249989 08BKJ246	250143	08PRCE18		138	212 DE0&K	603	603	Base Case	0	-303	-	50.25	0	0.14%	0.14%	0.14%
155 238568 02BAYSHO	138 239029 020REGON 1	138 1	238568 UZBAYSHO	239029	02OREGON		138	202 ATS1	287	342	Base Case	0	144.1	-	50.21	0	0.00%	0.00%	-0.03%
156 242637 05FLATWO	138 247794 05COCO 1	138 1	242637 05FLATWO	247794	05COCO]	138	205 AEP	219	255	Base Case	0	-109.9	-	50.2	0	-0.29%	-0.29%	0.03%
157 246352 05HAVILAND2	138 246950 05TIMBSS 1	138 1	246352 05HAVILAND2	246950	05TIMBSS	1	. 138	205 AEP	187	240	Base Case	0	-93.5	-	50.01	0	-0.17%	-0.17%	-0.05%
158 250091 08RCHLE3	138 250118 08TRMNL2 1	138 1	250091 08RCHLE3	250118	08TRMNL2	1	138	212 DEO&K	268	275	Base Case	0	-133.9	-	49.95	0	-0.02%	-0.02%	-0.05%
159 243855 05JUG ST	345 243856 05JUG ST 1-6 1	138 5	243855 05JUG ST	243856	05JUG ST 1-6	5	5 345/138	205 AEP	515	544	Base Case	0	257.2	-	49.94	0	0.01%	0.01%	0.01%
160 242575 05CAMDLM	138 242802 05SMITHMTN 1	138 1	242575 05CAMDLM	242802	05SMITHMTN	1	138	205 AEP	205	255	Base Case	0	-102.2	-	49.87	0	-0.06%	-0.06%	0.37%
161 250105 08TDHNTR	138 250116 08TRENTON 1 1	138 1	250105 08TDHNTR	250116	08TRENTON_1	1	138	212 DEO&K	302	302	Base Case	0	150.5	-	49.83	0	0.04%	0.04%	0.04%
162 238847 02JP	138 240854 02CLIFFS_NR 1	138 1	238847 02JP	240854	02CLIFFS_NR	1	138	202 ATSI	312	380	Base Case	0	-155.4	-	49.8	0	0.07%	0.07%	-0.01%
163 246751 05VASSEL	765 247728 05VASSEL_XFL 3	345 1	246751 05VASSEL	247728	05VASSEL_XFL	1	765/345	205 AEP	2403	2772	Base Case	0	1196.4	-	49.79	0	0.93%	0.93%	0.38%
164 240359 02BENTLEYQ1	138 241927 02AVQ1 1	138 1	240359 02BENTLEYQ1	241927	02AVQ1	1	138	202 ATSI	278	339	Base Case	0	-138.3	-	49.77	0	-0.25%	-0.25%	-0.03%
165 242685 05J.FERX	138 242745 05PEAKCK 1	138 1	242685 05J.FERX	242745	05PEAKCK	1	138	205 AEP	251	335	Base Case	0	124.8	-	49.74	0	-0.10%	-0.10%	-0.16%
166 243685 05DORTON	138 243899 05LOCKHA 1	138 1	243685 05DORTON	243899	05LOCKHA	1	138	205 AEP	223	310	Base Case	0	-110.9	-	49.73	0	0.02%	0.02%	0.18%
167 250052 08KYUNIV	138 250097 08SGROVE 1	138 1	250052 08KYUNIV	250097	08SGROVE	1	138	212 DEO&K	275	275	Base Case	0	-136.8	-	49.73	0	-0.01%	-0.01%	0.00%
168 243055 05NEGLEY	138 243092 05scanto 1	138 1	243055 05NEGLEY	243092	05SCANTO	1	138	205 AEP	251	335	Base Case	0	-124.6	-	49.64	0	-0.08%	-0.08%	0.05%
169 242728 05MULLNV	138 247004 05GUYAND 1	138 1	242728 05MULLNV	247004	05GUYAND	1	138	205 AEP	205	284	Base Case	0	-101.7	-	49.59	0	-0.08%	-0.08%	-0.01%
170 243127 05TIDD 1-2	138 247016 05GABLSS 1	138 1	243127 05TIDD 1-2	247016	05GABLSS	1	138	205 AEP	287	337	Base Case	0	141.8	-	49.39	0	0.32%	0.32%	-0.04%
171 242689 05KANAWHA1	138 247068 05KANAWH ASZ 1	138 ZU	242689 05KANAWHA1	247068	05KANAWH ASZ	ZU	138	205 AEP	285	337	Base Case	0	-140.7	_	49.37	0	-0.12%	-0.12%	0.04%
172 241930 02AV04	138 238551 02AVON 3	345 92	241930 02AV04	238551	02AVON		138/345	202 ATST	546	614	Base Case	0	-269 5		49.36	0	-0.43%	-0.43%	-0.07%
173 238797 02HCHIND	138 239138 02mon 1	138 1	238797 024041 ND	230130	02000	1	120	202 1101	320	/12	Base Case	0	162 3		40 30	0	0.10%	0.10%	0.00%
174 242980 05CANTING	138 243139 05WACENUATCO 1	138 2	242980 0503 MILIND	242120	05WACENUAT CO		120	202 4151	206	300	Base Case	0	145 4		40 1/	0	0.10%	0.06%	-0.04%
175 239724 02EMED.00	139 230242 02001 m 3 1	130 2	232724 02EMEACE	230213	02HOLT. 3		100	200 ADP	104	272	Page Case	0	_04 7		49.14	0	_0.00%	-0.00%	0.02%
175 230724 UZEMEAST	130 239242 UZHULT-A I	1.20 L	230724 U2FMEAST	239242	02 TOLL TA		120	202 A151	194	237	Base Case	0	-94./		40.03	0	0.07%	0.07%	0.02%
177 240570 02DIXIE	130 23884/ UZJP I	130 I	230300 UZDIXIE	23884/	OOD INC		138	202 ATS1	242	296	Dase Case	U	-118.1		48.81	0	0.01%	0.01%	-0.01%
177 249570 08P.UNON	343 250083 08P.UNZ 1	136 1	249570 08P.UNON	250083	UOP.UNZ		345/138	ZIZ DEO&K	500	500	base Case	U	243.9	-	48.77	0	0.01%	0.01%	0.01%
178 243458 05HYATT	345 243526 05HYATT 1	138 1	243458 05HYATT	243526	USHYATT	1	1 345/138	205 AEP	321	363	Base Case	0	156.5		48.74	0	-0.04%	-0.04%	-0.05%
1/9 243088 05S.POINT1	138 245948 05MILLBR PK2 1	138 1	243088 05S.POINT1	245948	U5MILLBR PK2	1	138	205 AEP	136	167	Base Case	0	66.1	-	48.62	0	0.07%	0.07%	0.15%
180 242968 05BRUES	138 243143 05WBELLA 1	138 2	242968 05BRUES	243143	05WBELLA	2	2 138	205 AEP	205	284	Base Case	0	-99.4	-	48.49	0	-0.02%	-0.02%	0.05%

	А	B C	D E	F G	НІ	J	K L	М	N	0	Р	Q	R	S	T U
181 242980 05CANTNC	138 246267 05WAGENHALS1 138 1	242980 05CANTNC	246267 05WAGENHALS1	1 138	205 AEP	296	392 Base Case	0	143.5		48.47	0	0.06%	0.06%	-0.03%
182 243542 05MIFFIN	138 243577 05STELZR 138 1	243542 05MIFFIN	243577 05STELZR	1 138	205 AEP	209	209 Base Case	0	-101.3	-	48.45	0	0.07%	0.07%	0.00%
183 242969 05BRUES2	138 243143 05WBELLA 138 1	242969 05BRUES2	243143 05WBELLA	1 138	205 AEP	205	284 Base Case	0	-99.3	-	48.45	0	-0.02%	-0.02%	0.05%
184 239353 02HARMON	345 242943 05SCANTO 345 1	239353 02HARMON	242943 05SCANTO	1 345	202/205 ATSI/AEP	1409	1868 Base Case	0	-680.8	-	48.32	0	0.06%	0.06%	0.87%
185 249991 08BUFTN1	138 249564 08BUFTN1 345 1	249991 08BUFTN1	249564 08BUFTN1	1 138/345	212 DEO&K	485	498 Base Case	0	-233.6	-	48.17	0	0.05%	0.05%	0.02%
186 243678 05BSANDX	138 243679 05BUSSYV 138 1	243678 05BSANDX	243679 05BUSSYV	1 138	205 AEP	223	310 Base Case	0	107.4		48.15	0	0.04%	0.04%	-0.08%
187 243034 05MAROUI	138 243544 05MILPRD 138 2	243034 05MAROUI	243544 05MILPRD	2 138	205 AEP	223	310 Base Case	0	107.2	-	48.06	0	0.01%	0.01%	0.07%
188 238730 02FORTIN	138 239310 02BPHUSKY 138 1	238730 02FORTIN	239310 02BPHUSKY	1 138	202 ATSI	241	292 Base Case	0	-115.7	-	47.99	0	0.07%	0.07%	-0.01%
189 243034 05MAROUI	138 243585 05WAVERL 138 1	243034 05MAROUI	243585 05WAVERL	1 138	205 AEP	223	302 Base Case	0	107		47.97	0	0.01%	0.01%	0.07%
190 244658 05GRNTWN	138 249800 08MTER 138 1	244658 05GBNTWN	249800 08MTEB	1 138	205/208 AEP/DEI	243	243 Base Case	0	116.5	-	47.95	0	-0.02%	-0.02%	0.03%
191 250067 08MLHSB2	138 250082 08P UN1 138 1	250067 08MLHSB2	250082 08P. UN1	1 138	212 DEO&K	198	198 Base Case	0	-94.8	-	47.87	0	0.02%	0.02%	-0.01%
192 249999 08CNSTNC	138 250044 08HEBBN2 138 1	249999 08CNSTNC	250044 08HEBBN2	1 138	212 DE04K	238	238 Base Case	0	-113.8	-	47.82	0	-0.05%	-0.05%	-0.01%
193 253024 09ESTDNY	138 253068 09SHELBY 138 1	253024 09ESTDNY	253068 09SHELBY	1 138	209 DAY	163	229 Base Case	0	-77.9		47 77	0	-0.09%	-0.09%	-0.04%
194 243469 05BEATTY	138 243540 05MCCOMB 138 1	243469 05BEATTY	243540 05MCCOMB	1 138	205 AFP	216	243 Base Case	0	103	-	47 7	0	-0.08%	-0.08%	-0.02%
195 238614 02CEO-14	138 241926 023STOP014 138 1	238614 02CE0-14	241926 023STOP014	1 138	203 AET	176	229 Base Case	0	-83.9		17 68	0	-0.15%	-0.15%	-0.02%
196 242807 05SPOPN	138 243559 05PTO 7 138 1	242807 05SPOPN	243559 05PTO 7	1 138	205 AFP	185	185 Base Case	0	88 1		47.6	0	0.15%	0.15%	0.06%
197 2422007 055FORM	765 243209 05R0CKPT 765 1	2422007 0551011	243309 05R10 2	1 765	205 AEF	2954	2954 Baco Caso	0	_1933 0		47.50	0	_1 70%	-1 70%	-1.25%
198 243006 05E0GTOD	138 247172 05FDEDCO 120 1	243200 0505150	247172 05F0F000	1 120	205 AEF 205 AFP	167	245 Base Case	0	70 5	_	47.59	0	0 110/	0 11%	-0.07%
199 238759 02CM MAD	138 238000 02NEATTO 120 1	238750 00F0510R	238000 00NEATTO	1 100	200 ALF 202 Amor	207	352 Page Case	0	107	-	47.58	0	0.11%	0.11/0	0.00%
200 229620 02GM WAR	130 230355 UZNEALLS 138 I	230/35 U2GM WAR	241925 0201 INDON	ZT 130	202 AISI 202 ATSI	207	200 Page Case	0	-122 6		41.57	0	0.10%	-0.22%	-0.01%
200 230020 02CL QIZ	130 241555 02011NTON 138 2L	242560 05000000	241555 02CLINTON	1 1.20	202 ATS1 205 AFD	200	201 pase CdSe	0	-123.0		41.03	U	0.22%	0.22%	-0.12%
201 242560 05BONSCK	138 242607 05CLOVRD 138 1	242560 05BONSCK	242607 05CLOVRD	1 245 (120	205 AEP	205	284 Base Case	0	-97.4	-	47.53	0	0.07%	0.07%	-0.12%
202 242936 05F0ST0R	345 243006 05F0STOR 138 1	242936 05F0ST0R	243006 03F0STOR	1 345/138	205 AEP	204	240 Base Case	0	239.3		47.47	0	-0.05%	-0.05%	-0.05%
203 250027 08FLRNC1	138 2501/3 08WDSPNT 138 1	250027 08FLRNC1	250173 08WDSPNT	1 138	212 DE0&R	200	266 Base Case	0	126.2	-	47.44	0	0.04%	0.04%	0.07%
204 248013 06PIERCE	345 249566 08FOSTER 345 1	248013 06PIERCE	249366 08FOSTER	1 345	206/212 OVEC/DEO&K	1097	1204 Base Case	0	518.5	-	47.27	0	0.29%	0.29%	0.03%
205 238634 02COMERC	138 238797 02HGHLND 138 1	238634 02COMERC	238/9/ 02HGHLND	1 138	202 ATS1	127	158 Base Case	0	-60	-	47.26	0	0.11%	0.11%	-0.08%
206 243691 USHAYSBR	138 243698 USMORGER 138 1	243691 USHAYSBR	243698 USMORGFK	1 138	205 AEP	68	68 Base Case	0	-32.1	-	47.14	0	0.00%	0.00%	0.00%
207 249988 08BKJ135	138 249997 08CLRMT2 138 1	249988 08BKJ135	249997 08CLRMT2	1 138	212 DEO&K	318	318 Base Case	0	149.7	-	47.08	0	0.03%	0.03%	0.03%
208 243544 05MILPRD	138 243585 05WAVERL 138 2	243544 05MILPRD	243585 05WAVERL	2 138	205 AEP	223	302 Base Case	0	105	-	47.07	0	0.01%	0.01%	0.07%
209 238636 02CPPW41	138 239296 02CPPRDG 138 1	238636 02CPPW41	239296 02CPPRDG	1 138	202 ATSI	194	237 Base Case	0	-91.2	-	47	0	-0.22%	-0.22%	-0.01%
210 238976 02N MED	345 238977 02N MED 138 1	238976 02N MED	238977 02N MED	1 345/138	202 ATSI	347	415 Base Case	0	162.5	-	46.82	0	-0.18%	-0.18%	-0.05%
211 248002 06DEARB2	345 249564 08BUFTN1 345 1	248002 06DEARB2	249564 08BUFTN1	1 345	206/212 OVEC/DEO&K	971	971 Base Case	0	454.1	-	46.77	0	-0.22%	-0.22%	-0.02%
212 243089 05SBALTM	138 243150 05WMILLP 138 1	243089 05SBALTM	243150 05WMILLP	1 138	205 AEP	167	167 Base Case	0	-78.1	-	46.77	0	-0.03%	-0.03%	-0.02%
213 238574 02BELPT+	138 239134 02TANGY 138 1	238574 02BELPT+	239134 02TANGY	1 138	202 ATSI	160	192 Base Case	0	-74.8	-	46.76	0	0.09%	0.09%	0.01%
214 239197 02BUCKEY	138 239618 02LAUREL 138 1	239197 02BUCKEY	239618 02LAUREL	1 138	202 ATSI	233	282 Base Case	0	108.9	-	46.73	0	-0.13%	-0.13%	-0.01%
215 243534 05LICK	138 244540 05RHODES 138 1	243534 05LICK	244540 05RHODES	1 138	205 AEP	219	231 Base Case	0	102.2	-	46.67	0	-0.04%	-0.04%	0.08%
216 243146 05WHEBRO	138 243150 05WMILLP 138 1	243146 05WHEBRO	243150 05WMILLP	1 138	205 AEP	167	245 Base Case	0	-77.4	-	46.36	0	0.04%	0.04%	0.02%
217 238563 02BAY SH	345 238568 02BAYSHO 138 1	238563 02BAY SH	238568 02BAYSHO	1 345/138	202 ATSI	564	673 Base Case	0	261.4	-	46.35	0	0.02%	0.02%	0.02%
218 243278 05DESOTO	138 243369 05ROYERTON 138 1	243278 05DESOTO	243369 05ROYERTON	1 138	205 AEP	219	223 Base Case	0	101.3	-	46.27	0	0.02%	0.02%	0.02%
219 253068 09SHELBY	138 253071 09SIDNEY 138 1	253068 09SHELBY	253071 09SIDNEY	1 138	209 DAY	221	272 Base Case	0	102.2	-	46.24	0	0.05%	0.05%	0.00%
220 246927 05SAND H	138 247468 05CRICKET SS 138 1	246927 05SAND H	247468 05CRICKET SS	1 138	205 AEP	219	255 Base Case	0	101.2	-	46.22	0	0.00%	0.00%	0.00%
221 247006 05KENZIE	BP 345 270138 AA2-116_TAP1 345 1	247006 05KENZIE_BP	270138 AA2-116_TAP1	1 345	205 AEP	1409	1409 Base Case	0	-650.7		46.18	0	-0.48%	-0.48%	-0.41%
222 243534 05LICK	138 243559 05RIO Z 138 1	243534 05LICK	243559 05RIO Z	1 138	205 AEP	150	212 Base Case	0	-69.2	-	46.17	0	0.06%	0.06%	0.08%
223 243322 05KENZIE	138 243360 05POKAGO 138 1	243322 05KENZIE	243360 05POKAGO	1 138	205 AEP	293	341 Base Case	0	135.2	-	46.13	0	-0.01%	-0.01%	-0.03%
224 242693 05KEYWSS	138 242850 05WOLFH1 138 1	242693 05KEYWSS	242850 05WOLFH1	1 138	205 AEP	167	245 Base Case	0	-77	-	46.11	0	-0.10%	-0.10%	0.00%
225 238678 02EAKRON	138 238787 02HAYES+ 138 1	238678 02EAKRON	238787 02HAYES+	1 138	202 ATSI	233	282 Base Case	0	107.3	-	46.05	0	0.10%	0.10%	0.07%
226 243264 05CONCOR	138 243266 05COUNTR 138 1	243264 05CONCOR	243266 05COUNTR	1 138	205 AEP	167	167 Base Case	0	76.9		46.04	0	-0.09%	-0.09%	-0.06%
227 238850 02JUNIPE	345 238840 02JNPRQ1 138 5	238850 02JUNIPE	238840 02JNPRQ1	5 345/138	202 ATSI	360	414 Base Case	0	165.7	-	46.04	0	-0.02%	-0.02%	0.03%
228 243347 05TIDD 3-	4 138 243779 05WHELGS 138 1	243347 05TIDD 3-4	243779 05WHELGS	1 138	205 AEP	187	205 Base Case	0	86.1	-	46.03	0	0.00%	0.00%	0.00%
229 243063 05N.NEWAR	K1 138 243079 05REFORM 138 1	243063 05N.NEWARK1	243079 05REFORM	1 138	205 AEP	202	202 Base Case	0	-92.9		45.97	0	0.09%	0.09%	-0.03%
230 238796 02HGHLND	345 923061 AB1-105 TAP 345 1	238796 02HGHLND	923061 AB1-105 TAP	1 345	202 ATSI	1413	1743 Base Case	0	648.5	-	45.9	0	0.78%	0.78%	-0.10%
231 243220 05E.ELKHA	RT 345 247006 05KENZIE_BP 345 1	243220 05E.ELKHART	247006 05KENZIE_BP	1 345	205 AEP	1409	1409 Base Case	0	-646.4	-	45.88	0	-0.48%	-0.48%	-0.41%
232 238781 02HANNA	345 923061 AB1-105 TAP 345 1	238781 02HANNA	923061 AB1-105 TAP	1 345	202 ATSI	1413	1743 Base Case	0	-647.9	-	45.85	0	0.78%	0.78%	-0.10%
233 243055 05NEGLEY	138 243078 05REEDUR 138 1	243055 05NEGLEY	243078 05REEDUR	1 138	205 AEP	251	335 Base Case	0	115.1		45.85	0	-0.08%	-0.08%	0.05%
234 238642 02CRSLND	138 238944 02MASURY 138 1	238642 02CRSLND	238944 02MASURY	1 138	202 ATSI	200	242 Base Case	0	91.6		45.78	0	0.14%	0.14%	-0.04%
235 242523 05BAKER	345 247229 05RIVRSD GEN 345 1	242523 05BAKER	247229 05RIVRSD GEN	1 345	205 AEP	896	896 Base Case	0	-410.2	-	45.78	0	-0.26%	-0.26%	-0.26%
236 238741 02FWLSQ3	138 240365 02LRN Q3 138 1	238741 02FWLSQ3	240365 02LRN Q3	1 138	202 ATSI	176	229 Base Case	0	-80.4	-	45.7	0	-0.26%	-0.26%	-0.03%
237 242648 05GARDEC	138 242801 05SKEGGS BRZ 138 1	242648 05GARDEC	242801 05SKEGGS BRZ	1 138	205 AEP	223	310 Base Case	0	-101.9		45.68	0	-0.12%	-0.12%	-0.02%
238 253024 09ESIDNY	138 253065 09QUINCY 138 1	253024 09ESIDNY	253065 09QUINCY	1 138	209 DAY	163	229 Base Case	0	74.4	-	45.62	0	-0.09%	-0.09%	-0.04%
239 238850 02JUNIPE	345 238842 02JNPRQ3 138 3	238850 02JUNIPE	238842 02JNPRQ3	3 345/138	202 ATSI	374	471 Base Case	0	170.5	-	45.58	0	0.00%	0.00%	0.04%
240 243006 05FOSTOR	138 247172 05EBERSO 138 2	243006 05FOSTOR	247172 05EBERSO	2 138	205 AEP	150	204 Base Case	0	68.3	-	45.57	0	0.09%	0.09%	-0.06%

	А		B C	D	E	F	G	н і	J	К	L	М	N	0	Р	Q	R	S	T U
241 243385 05TWIN B	138 243517 05CAP AV	138 1	243385 05TWIN B	243517	05CAP AV		1 138	205 AEP	205	284	Base Case	0	93	-	45.38	0	-0.04%	-0.04%	-0.02%
242 238832 02JACKMA	138 239219 02SMUCKER 1	138 1	238832 02JACKMA	239219	02SMUCKER 1		1 138	202 ATSI	241	292	Base Case	0	-109	-	45.23	0	0.05%	0.05%	-0.03%
243 243547 05MORSE	138 243591 05SPRNGR	138 1	243547 05MORSE	243591	05SPRNGR	3	1 138	205 AEP	195	223	Base Case	0	-88.1	-	45.18	0	0.04%	0.04%	0.01%
244 238750 02GDYR +	138 238787 02HAYES+	138 ZL	238750 02GDYR +	238787	02HAYES+	ZL	138	202 ATSI	233	282	Base Case	0	-105.1	-	45.1	0	0.10%	0.10%	0.07%
245 242943 05SCANTO	345 243092 05SCANTO	138 4	242943 05SCANTO	243092	05SCANTO		4 345/138	205 AEP	695	695	Base Case	0	313.4	-	45.09	0	0.31%	0.31%	0.03%
246 253026 09GBEENE	138 253040 09KNOLLW	138 1	253026 09GBEENE	253040	09KNOLTW		1 138	209 DAY	306	380	Base Case	0	137.6	-	44 97	0	0.07%	0.07%	0.07%
247 239092 02SAMMIS	345 253902 15BVBVAL	345 1	239092 02SAMMIS	253902	15BVBVAL		1 345	202/215 ATST/DLCO	1413	1743	Base Case	0	635 4	_	44 97	0	0.71%	0.71%	0.77%
248 243473 05BTYBY	138 243480 05BUCKEY	138 1	243473 05BTYBY	243480	05BUCKEY		1 138	205 AFP	184	184	Base Case	0	82 7	-	44 95	0	0.04%	0.04%	0.02%
249 253027 09CPEENE	345 253026 00CDEENE	130 1	253027 09CPFFNF	253026	OGCOFFNE		2 2/5/120	200 DAY	104	103	Base Case	0	201 2		44.95	0	0.04%	0.07%	0.05%
250 246027 OFCAND H	129 246029 0EWADWON H1	120 1	246027 05GREENE	233020	OFWARTON UI		1 120	205 DAT	210	995	Base Case	0	201.2		44.51	0	0.02%	0.02%	0.00%
250 240327 033AND H	130 240320 USWARTON HI	130 1	240927 055AND n	240920	OSWARION HI		1 130	205 AEF	107	205	Base Case	0	90.3		44.5	0	0.00%	0.00%	0.00%
251 243347 05TIDD 3-4	138 243779 USWHELGS	138 2	243347 05TIDD 3-4	243779	OSWHELGS		2 138	205 AEP	187	205	Base Case	0	83.9	-	44.88	0	0.00%	0.00%	0.00%
252 249991 08BUFTN1	138 249564 08BUFTNI	345 46	249991 08B0FTN1	249564	08B0F.LNT	4	6 138/345	212 DEO&K	545	559	Base Case	0	-244	-	44.78	0	0.05%	0.05%	0.02%
253 243092 05SCANTO	138 243134 05W.CANTON1	138 1	243092 05SCANTO	243134	05W.CANTON1		1 138	205 AEP	219	255	Base Case	0	97.9	-	44.71	0	-0.07%	-0.07%	0.05%
254 242728 05MULLNV	138 242754 05PINNAC	138 1	242728 05MULLNV	242754	05PINNAC		1 138	205 AEP	205	255	Base Case	0	91.6		44.7	0	-0.08%	-0.08%	-0.01%
255 242522 05AMOS	345 242525 05KANAWH	345 1	242522 05AMOS	242525	05KANAWH		1 345	205 AEP	897	897	Base Case	0	400.7	-	44.67	0	-0.51%	-0.51%	-1.09%
256 242691 05KENOVA	138 243088 05S.POINT1	138 1	242691 05KENOVA	243088	05S.POINT1		1 138	205 AEP	302	366	Base Case	0	134.9	-	44.66	0	0.00%	0.00%	0.19%
257 244672 05ROB PK_XFL	138 245476 05ROB PK34	138 Z1	244672 05ROB PK_XFL	245476	05ROB PK34	Z1	138	205 AEP	766	898	Base Case	0	340.9	-	44.51	0	-0.07%	-0.07%	0.00%
258 238580 02BRADY	138 238782 02HANNA	138 1	238580 02BRADY	238782	02HANNA	1	1 138	202 ATSI	200	242	Base Case	0	-89	-	44.49	0	0.03%	0.03%	0.02%
259 238834 02JGSQ11	138 239226 02STYDCOQ11	138 ZL	238834 02JGSQ11	239226	02STYDCOQ11	ZL	138	202 ATSI	265	349	Base Case	0	-117.6	-	44.39	0	0.01%	0.01%	0.02%
260 243501 05E.BEAV	138 243534 05LICK	138 1	243501 05E.BEAV	243534	05LICK		1 138	205 AEP	219	255	Base Case	0	97.2	-	44.39	0	-0.09%	-0.09%	0.02%
261 238535 02APQ-2	138 238834 02JGSQ11	138 1	238535 02APQ-2	238834	02JGSQ11		1 138	202 ATSI	265	287	Base Case	0	-117.6	-	44.38	0	0.01%	0.01%	0.02%
262 243377 05SORENS	138 247132 05ELLISN	138 1	243377 05SORENS	247132	05ELLISN		1 138	205 AEP	293	341	Base Case	0	129.9	-	44.33	0	-0.04%	-0.04%	0.02%
263 238568 02BAYSHO	138 239310 02BPHUSKY	138 2	238568 02BAYSHO	239310	02BPHUSKY		2 138	202 ATSI	241	292	Base Case	0	106.7	-	44.26	0	0.02%	0.02%	-0.02%
264 243516 05GREIF	138 243525 05HUNTLEY1	138 1	243516 05GREIF	243525	05HUNTLEY1	1	1 138	205 AEP	196	247	Base Case	0	86.8	-	44.26	0	0.01%	0.01%	-0.01%
265 243453 05BEATTY	345 243469 05BEATTY	138 4	243453 05BEATTY	243469	05BEATTY		4 345/138	205 AEP	675	675	Base Case	0	298	-	44.14	0	-0.13%	-0.13%	-0.06%
266 242567 05BROADX	138 242803 05SMYTH	138 1	242567 05BROADX	242803	05smyth		1 138	205 AEP	251	334	Base Case	0	110.4	-	43.97	0	-0.19%	-0.19%	-0.33%
267 243526 05HYATT	138 243537 05MALIS	138 2	243526 05HYATT	243537	05MALTS		2 1.38	205 AEP	338	407	Base Case	0	-148.5	-	43.94	0	0.13%	0.13%	0.07%
268 246928 05WARTON H1	138 247251 05CALISS	138 1	246928 05WARTON H1	247251	05CALTSS		1 138	205 AEP	173	173	Base Case	0	76	-	43 94	0	0.00%	0.00%	0.00%
269 243266 05COUNTR	138 247433 05CHARGER	138 1	243266 05COUNTR	247433	05CHARGER		1 138	205 AFR	167	167	Base Case	0	73 4	-	13.91	0	-0.09%	-0.09%	-0.06%
270 243526 05000NIK	130 247435 0500ARKGER	130 1	243526 05000011	247455	05MALTS		1 130	205 AEL 205 AED	223	210	Base Case	0	-97.9	-	13.02	0	0.09%	0.09%	0.05%
271 242052 05NECANT	130 243337 05MALIS	120 1	243520 05HTATT	243337	OFMACENUAL CO		1 120	205 AEF	225	255	Base Case	0	_97.9		43.5	0	0.03%	0.03%	0.03%
271 243052 USNECANT	130 243135 USWAGENHALS2	130 1	243032 USNECANI	243133	O SWAGENHALSZ		1 130	205 AEF	203	200	Base Case	0	-09.0		43.02	0	0.03%	0.03%	0.01%
272 242580 USCARBND	138 242689 USKANAWHAI	138 1	242580 USCARBND	242689	05KANAWHA1		1 138	205 AEP	251	335	Base Case	0	-109.9	-	43.77	0	-0.31%	-0.31%	0.02%
273 249567 08M.FORT	345 253090 09WMILTN	345 1	249567 08M.FORT	253090	09WMILTN		1 345	212/209 DEO&K/DAY	1195	1195	Base Case	0	522.1	-	43.69	0	-0.47%	-0.47%	-0.04%
274 242663 USHANCKI	138 242708 05M FUNK	138 1	242663 USHANCKI	242708	USM FUNK		1 138	205 AEP	205	284	Base Case	0	-89.5		43.68	0	-0.05%	-0.05%	-0.28%
275 238950 02MBQ-13	138 241924 02ELQ4	138 1	238950 02MBQ-13	241924	02ELQ4		1 138	202 ATS1	278	287	Base Case	0	-120.8	-	43.46	0	0.01%	0.01%	0.00%
276 243233 05TANNER	345 249567 08M.FORT	345 1	243233 05TANNER	249567	08M.FORT		1 345	205/212 AEP/DEO&K	2151	2151	Base Case	0	934.7	-	43.46	0	-0.53%	-0.53%	-0.14%
277 242938 05MARQUI	345 243034 05MARQUI	138 3	242938 05MARQUI	243034	05MARQUI		3 345/138	205 AEP	463	463	Base Case	0	200.8	-	43.37	0	-0.03%	-0.03%	0.04%
278 239341 02LEGEND	138 245697 05TORREY2	138 1	239341 02LEGEND	245697	05TORREY2	1	1 138	202/205 ATSI/AEP	187	240	Base Case	0	-81.1	-	43.36	0	0.25%	0.25%	0.04%
279 243264 05CONCOR	138 243385 05TWIN B	138 1	243264 05CONCOR	243385	05TWIN B		1 138	205 AEP	187	231	Base Case	0	-81.1	-	43.35	0	-0.06%	-0.06%	-0.04%
280 253027 09GREENE	345 253026 09GREENE	138 1	253027 09GREENE	253026	09GREENE		1 345/138	209 DAY	448	493	Base Case	0	193.9	-	43.27	0	0.02%	0.02%	0.05%
281 242534 05ALLOY	138 242689 05KANAWHA1	138 1	242534 05ALLOY	242689	05KANAWHA1		1 138	205 AEP	223	223	Base Case	0	-96.5	-	43.27	0	0.00%	0.00%	0.00%
282 238615 02CHAMBR	345 238781 02HANNA	345 1	238615 02CHAMBR	238781	02HANNA	1	1 345	202 ATSI	1380	1646	Base Case	0	-596.3	-	43.21	0	0.28%	0.28%	0.31%
283 243553 05POLARS	138 243590 05WESTAR	138 1	243553 05POLARS	243590	05WESTAR		1 138	205 AEP	223	310	Base Case	0	96.2	-	43.16	0	0.01%	0.01%	0.00%
284 243469 05BEATTY	138 247896 05BOLTON	138 1	243469 05BEATTY	247896	05BOLTON		1 138	205 AEP	223	223	Base Case	0	96	-	43.05	0	-0.07%	-0.07%	0.00%
285 238568 02BAYSHO	138 239310 02BPHUSKY	138 1	238568 02BAYSHO	239310	02BPHUSKY		1 138	202 ATSI	241	292	Base Case	0	103.7	-	43.04	0	0.02%	0.02%	-0.02%
286 243516 05GREIF	138 243526 05HYATT	138 1	243516 05GREIF	243526	05HYATT		1 138	205 AEP	223	223	Base Case	0	-96	-	43.04	0	0.01%	0.01%	-0.01%
287 238597 02CADQ17	138 238662 02DKQ-17	138 1	238597 02CADQ17	238662	02DKQ-17		1 138	202 ATSI	148	151	Base Case	0	-63.7	-	43.03	0	-0.02%	-0.02%	0.00%
288 246481 05NMUSKG BP	138 247374 05MUSKNG2B	138 1	246481 05NMUSKG BP	247374	05MUSKNG2B		1 138	205 AEP	223	310	Base Case	0	-96	-	43.03	0	-0.15%	-0.15%	0.10%
289 238643 02CW 0-1	138 240359 02BENTLEY01	138 1	238643 02CW 0-1	240359	02BENTLEY01		1 138	202 ATSI	273	332	Base Case	0	-117.4	-	43.01	0	-0.25%	-0.25%	-0.03%
290 242943 05SCANTO	345 243092 05SCANTO	138 1	242943 05SCANTO	243092	05SCANTO		1 345/138	205 AEP	680	747	Base Case	0	292.4	-	42.99	0	0.28%	0.28%	0.02%
291 238916 02LRN 04	138 238919 02SLTRO4	138 1	238916 02LRN 04	238919	02SLTR04		1 138	202 ATST	176	229	Base Case	0	75.6	_	42.96	0	-0.25%	-0.25%	-0.03%
292 253047 09MTAMT	345 253046 09MTAMT	138 1	253047 09MTAMT	253046	09MTAMT		1 345/138	209 DAY	450	495	Base Case	0	193.3	_	42.96	0	0.02%	0.02%	0.01%
293 243453 OSBEATEV	345 243469 05EEATTV	138 3	243453 05853077	243460	05BEATTV		3 345/138	205 AFP	605	405 605	Base Case	0	208 5		42.00	0	-0 12%	-0 13%	-0.06%
294 242695 05KTNCAT	138 247064 05¥2M2MUA2	138 1	242695 05KTNCAT	243409	OSKANAMUA 2		1 120	205 AEP	205	255	Base Case	0	_97 0		12.33	0	-0.10%	-0.10%	-0.22%
295 242055 USKINCAL	130 247156 050000000000000000000000000000000000	130 I	242055 USAINCAL	24/004	0.5 CTE AM		1 1 20	200 AEP	203	200	Page Case	0	-01.0		42.02	0	-0.10%	-0.10%	0.05%
295 243091 035.CALDWELL	120 24/130 USSTEAMT	100 1	243031 035.CALDWELL	24/100	00001EAMT		1 1 1 2 0	200 AEP	205	284	Dase Case	0	01.1		42.8	0	-0.1/%	-0.11%	0.00%
290 230133 USWLDEK2	130 230133 USKIUTB2	130 1	230133 08WLDEKZ	230133	UGRIUIBZ		1 138	212 DEO&K	264	264	Dase Case	0	-113		42.8	0	-0.01%	-0.01%	0.00%
237 238833 UZJACKSN	130 239281 UZCRNBRY	138 1	238833 U2JACKSN	239281	02CKNBRY		1 138	ZUZ ATSI	278	339	base Case	0	-118.9	-	42.78	0	0.04%	0.04%	0.12%
290 239237 U2CLVR-S	138 243000 05EWOOST	138 1	239237 U2CLVR-S	243000	USEWOOST		138	ZUZ/ZUS ATSI/AEP	161	194	Base Case	0	68.7		42.69	0	0.11%	0.11%	-0.03%
299 243474 05BLACKL	138 243510 05GAHANN	138 1	243474 05BLACKL	243510	05GAHANN	-	138	205 AEP	150	212	Base Case	0	-64	-	42.66	0	0.02%	0.02%	0.00%
300 253068 09SHELBY	138 253150 09HNDAAT	138 1	253068 09SHELBY	253150	09HNDAAT		1 138	209 DAY	221	272	Base Case	0	94.1	-	42.59	0	0.03%	0.03%	0.02%

A	B C	D E	F G	H I	J	K L M	N O	Р	Q R	S	T U
301 238936 02MACLEA 138 239029 02OREGON 138 1	238936 02MACLEA	239029 020REGON	1 138	202 ATSI	287	342 Base Case (-122.2 -	42.57	0 0.00%	6 0.00%	-0.03%
302 243349 05NEW CARLI2 138 247489 05BOSSERMAN 138 2	243349 05NEW CARLI2	247489 05BOSSERMAN	2 138	205 AEP	136	167 Base Case (57.9 -	42.54	0 0.129	6 0.12%	0.08%
303 238796 02HGHLND 345 240069 02LORDSTOWN 345 1	238796 02HGHLND	240069 02LORDSTOWN	1 345	202 ATSI	1413	1743 Base Case (-600.8 -	42.52	0 -0.029	-0.02%	-0.06%
304 238549 02AVERY 138 239290 02HAYES 138 1	238549 02AVERY	239290 02HAYES	1 138	202 ATSI	233	282 Base Case () -99 -	42.49	0 -0.249	-0.24%	-0.04%
305 243049 05NATRIUM12 138 247058 05DOMIN 138 1	243049 05NATRIUM12	247058 05DOMIN	1 138	205 AEP	257	349 Base Case () 109.1 -	42.44	0 0.00%	6 0.00%	0.00%
306 243250 05BENTON 138 245846 05RIVERSIDE2 138 1	243250 05BENTON	245846 05RIVERSIDE2	1 138	205 AEP	167	240 Base Case (70.8 -	42.41	0 0.039	6 0.03%	0.00%
307 242836 05TURNE1 138 247091 05LAKEVI 138 1	242836 05TURNE1	247091 05LAKEVI	1 138	205 AEP	296	296 Base Case (-125.3 -	42.32	0 -0.109	-0.10%	-0.13%
308 242537 05AMOS 138 247091 05LAKEVI 138 1	242537 05AMOS	247091 05LAKEVI	1 138	205 AEP	296	296 Base Case (125.3 -	42.32	0 -0.109	-0.10%	-0.13%
309 249566 08FOSTER 345 253079 09SUGRCK 345 1	249566 08FOSTER	253079 09SUGRCK	1 345	212/209 DEO&K/DAY	1263	1455 Base Case (532.2 -	42.13	0 -0.539	-0.53%	0.00%
310 243315 05TLLINO 138 243377 05SORENS 138 1	243315 05TLLINO	243377 05SOBENS	1 1.38	205 AEP	335	392 Base Case () -141 -	42.08	0 -0.029	-0.02%	0.04%
311 243091 05S.CALDWELL 138 247372 05MUSKNG1C 138 2	243091 055.CALDWELL	247372 05MUSKNG1C	2 138	205 AEP	205	284 Base Case	-86.2 -	42.05	0 -0.289	-0.28%	-0.01%
312 242841 05W GLOW 138 242853 05WURNO 138 1	242841 05W GLOW	242853 05WUBNO	1 138	205 AEP	219	255 Base Case	92.1 -	42.03	0 -0.119	-0.11%	-0.16%
313 242708 05M FUNK 138 242756 05POAGES 138 1	242708 05M FUNK	242756 05POAGES	1 138	205 AEP	167	240 Base Case	70 1 -	41.96	0 -0.039	-0.03%	-0.18%
314 253042 09LOGAN 138 253065 090UINCY 138 1	253042 09LOGAN	253065 090UINCY	1 138	209 DAY	160	224 Base Case (-67.1 -	41 96	0 -0.09%	-0.09%	-0.04%
315 243089 05SBALTM 138 243149 05W LANCAST1 138 1	243089 05SBALTM	243149 05W LANCAST1	1 138	205 AEP	167	167 Base Case (70 -	41.93	0 -0.03%	-0.03%	-0.02%
316 243217 05DEOUTN 345 243221 05EUCENE 345 1	243217 05DEOUIN	243221 05EUGENE	1 345	205 AEP	1409	1959 Base Case	-590 6 -	41 92	0 0.089	6 0.08%	0.53%
317 253077 0957112PT 345 250167 080F0 STHEPT 138 1	253077 09STUART	250167 08DE0 STUART	1 345/138	209/212 DAY/DEOLK	250	275 Base Case	104.8 -	41 92	0 0.00%	6 0.00%	0.01%
318 246752 05VASSEL 345 247728 05VASSEL XEL 345 71	246752 05VASSEL	247728 05VASSEL XEL	71 345	205 AFP	2855	2897 Base Case (-1196.4 -	41.92	0 0.939	6 0.00%	0.38%
319 238570 02BEAVER 138 230318 02UENDWA 120 1	238570 02000100	239318 02UENDEA	1 120	202 202	161	194 Base Case	67.4 -	A1 90	0 0.537	0.02%	-0.09%
320 250057 02057 138 250060 08MDWay1 120 1	250070 02BEAVER	250060 08MDWAV1	1 120	212 DEOSK	275	275 Base Case	1151 -	41.00	0 0.067	-0.02%	0.05%
321 243511 05GAV 138 243594 05WINE 130 1	243511 05CAV	243584 0517NE	1 100	212 DEDAN	17/	233 Base Case	72.8 -	41.00	0 -0.037	-0.03%	0.00%
327 243511 030A1 130 243504 05VINE 138 1 329 242690 05VINE 138 1	243511 03GAI	243304 UJVINE	1 1.20	205 AEP 205 AEP	205	294 Paso Caso (95.7	41.03	0 -0.047	-0.04%	_0.23%
222 242009 USRANAWHAI 150 247555 USPAR BRANCH 150 1	242009 05KANAWHAT	247333 05PAX BRANCH	1 130	205 AEP	205	204 Base Case (1120.2	41.0	0 -0.037	1 4 29/	-0.25%
224 242930 USSCANTO 765 247463 USSCANTO AFL 345 3	242930 055CANTO	247463 055CANTO_XFL	3 /05/345	205 AEP	2703	105 Base Case	77.0	41.76	0 -1.427	0 -1.45%	0.02%
324 242698 USLAKIN 138 242807 USSPORN 138 1	242698 USLAKIN	242807 055PORN	1 138	205 AEP	185	185 Base Case	-77.2 -	41.75	0 0.079	0.07%	-0.02%
325 238/6/ 02GRFD T 138 238/68 02GRNFLD 138 2L	238767 02GRFD T	238768 02GRNFLD	ZL 138	202 ATS1	00	66 Base Case	-27.6 -	41.74	0 0.007	0.00%	0.00%
320 2495/3 085GROVE 345 2495// 082IMER 345 1	249573 085GROVE	249577 0821MER	1 345	212 DE0&R	1004	1664 Base Case	-694.2 -	41.72	0 -0.127	0.12%	-0.05%
327 243091 05S.CALDWELL 138 247371 05M0SKNGIB 138 1	243091 USS.CALDWELL	24/3/1 USMUSKNGIB	1 138	205 AEP	205	284 Base Case	-85.5 -	41.72	0 -0.28%	0.00%	-0.01%
320 238783 02HARDIN 345 238792 02HDGQ11 138 1	238783 02HARDIN	238792 02HDGQ11	1 345/138	202 ATS1	347	454 Base Case	104.7 -	41.7	0 0.06%	0.06%	0.00%
529 249991 08B0FTN1 138 250148 08EKPWEB 138 1 220 220146 0200106 0200106 020026 020026 1	249991 08B0FTN1	250148 USEKPWEB	1 138	ZIZ DEO&K	298	298 Base Case	124.2 -	41.69	0 0.037	0.03%	0.00%
330 239106 02SHNAGO 345 239936 02MCCLELLAND 345 1	239106 02SHNAGO	239936 UZMCCLELLAND	1 345	202 ATS1	1380	1646 Base Case	-575 -	41.66	0 0.089	0.08%	-0.23%
331 242935 USE LIMA 345 242989 USE LIMA 138 1	242935 USE LIMA	242989 USE LIMA	1 345/138	205 AEP	513	576 Base Case	213.7 -	41.66	0 0.02%	0.02%	0.05%
332 243227 USLAWBG2 345 243233 USTANNER 345 2	243227 05LAWBG2	243233 05TANNER	2 345	205 AEP	1188	1409 Base Case	494.6 -	41.63	0 -0.31%	-0.31%	-0.31%
333 238588 02BRNSWK 138 239618 02LAUREL 138 1	238588 02BRNSWK	239618 UZLAUREL	1 138	202 ATS1	233	282 Base Case	-96.9 -	41.6	0 -0.13%	0.05%	-0.01%
334 243675 USBELLET 138 243968 USIRONWOODSS 138 1	243675 USBELLF1	243968 USIRONWOODSS	1 138	205 AEP	136	167 Base Case	56.5 -	41.54	0 0.05%	0.05%	0.12%
335 253046 09MIAMI 138 253056 09NORTHR 138 1	253046 09MIAMI	253056 09NORTHR	1 138	209 DAY	191	234 Base Case (/9.3 -	41.54	0.00%	0.00%	-0.01%
336 243491 05CORRID 138 243547 05MORSE 138 1	243491 05CORRID	24354 / 05MORSE	1 138	205 AEP	293	338 Base Case) 121.7 -	41.52	0 0.06%	0.06%	0.01%
337 238745 02GALION 345 238746 02GALION 138 4	238745 02GALION	238746 02GALION	4 345/138	202 ATSI	400	478 Base Case (165.9 -	41.48	0 -0.229	-0.22%	-0.05%
338 247489 05BOSSERMAN 138 255184 17TRAIL CRK 138 1	247489 U5BOSSERMAN	255184 17TRAIL_CRK	1 138	205/217 AEP/NIPS	156	156 Base Case () 64.5 -	41.36	0 0.179	0.17%	0.11%
339 243070 050HIOCT 138 243145 05WCOSHC 138 1	243070 050HIOCT	243145 05WCOSHC	1 138	205 AEP	185	254 Base Case (76.4 -	41.32	0 -0.269	-0.26%	0.03%
340 253014 09CLINTO 345 253310 AC1-085 POI 345 1	253014 09CLINTO	253310 AC1-085 POI	1 345	209 DAY	1255	1374 Base Case () -518.5 -	41.31	0 -0.159	-0.15%	0.17%
341 238944 02MASURY 138 239107 02SHNAGO 138 1	238944 02MASURY	239107 02SHNAGO	1 138	202 ATSI	157	196 Base Case (-64.8 -	41.3	0 0.049	6 0.04%	-0.02%
342 243513 05GENOA 138 243537 05MALIS 138 2	243513 U5GENOA	243537 U5MALIS	2 138	205 AEP	338	407 Base Case (-139.5 -	41.26	0 0.019	0.01%	0.01%
343 235428 01WINDSR 138 243131 05TILTON 138 1	235428 01WINDSR	243131 05TILTON	1 138	201/205 AP/AEP	329	361 Base Case (-135.7 -	41.25	0 -0.759	-0.75%	0.00%
544 244/45 05BABBIT1-2 138 246385 05JUGST 7-11 138 1	244745 05BABBIT1-2	246385 05JUGST 7-11	1 138	205 AEP	564	747 Base Case (-232.5 -	41.23	0 0.009	0.00%	0.00%
345 243526 05HYATT 138 243566 05SAWMIL 138 1	243526 05HYATT	243566 05SAWMIL	1 138	205 AEP	340	434 Base Case (140.1 -	41.21	0 0.039	6 0.03%	0.00%
346 249999 08CNSTNC 138 250007 08CRSNT1 138 1	249999 08CNSTNC	250007 08CRSNT1	1 138	212 DEO&K	238	238 Base Case (97.9 -	41.15	0 -0.059	-0.05%	-0.01%
347 242984 05CHATFL 138 243039 05MELMOR 138 1	242984 05CHATFL	243039 05MELMOR	1 138	205 AEP	167	167 Base Case (-68.7 -	41.13	0 -0.129	6 -0.12%	-0.10%
348 242745 05PEAKCK 138 242841 05W GLOW 138 1	242745 05PEAKCK	242841 05W GLOW	1 138	205 AEP	251	309 Base Case (103.2 -	41.1	0 -0.119	6 -0.11%	-0.16%
349 238652 02DARROW 138 239136 02TEREX 138 1	238652 02DARROW	239136 02TEREX	1 138	202 ATSI	50	50 Base Case (20.5 -	41.03	0 0.00%	6 0.00%	0.00%
350 243262 05COLLEGE C 138 250001 08COLINV 138 1	243262 05COLLEGE C	250001 08COLINV	1 138	205/212 AEP/DEO&K	167	167 Base Case (68.4 -	40.98	0 -0.069	-0.06%	-0.06%
351 243619 05ROSEWOODSS 138 244198 05LEMASTER 138 1	243619 05ROSEWOODSS	244198 05LEMASTER	1 138	205 AEP	338	483 Base Case (138.4 -	40.96	0 0.019	6 0.01%	0.19%
352 250044 08HEBRN2 138 250152 08HEBRNG 138 Z1	250044 08HEBRN2	250152 08HEBRNG	Z1 138	212 DEO&K	309	349 Base Case () -126.5 -	40.94	0 -0.05%	-0.05%	-0.01%
353 242522 05AMOS 345 242537 05AMOS 138 7	242522 05AMOS	242537 05AMOS	7 345/138	205 AEP	680	696 Base Case (278.2 -	40.91	0 -0.109	-0.10%	-0.18%
354 238782 02HANNA 138 239615 020LDFRG 138 1	238782 02HANNA	239615 020LDFRG	1 138	202 ATSI	233	282 Base Case (95.3 -	40.91	0 0.069	6 0.06%	-0.02%
355 253026 09GREENE 138 935040 AD1-140 TAP 138 1	253026 09GREENE	935040 AD1-140 TAP	1 138	209/202 DAY/ATSI	233	282 Base Case (95.1 -	40.84	0 -0.179	-0.17%	-0.04%
356 238623 02CLARK 138 935040 AD1-140 TAP 138 1	238623 02CLARK	935040 AD1-140 TAP	1 138	202 ATSI	233	282 Base Case (-95.1 -	40.84	0 -0.179	-0.17%	-0.04%
357 242788 05SALTV1 138 242827 05TAZEWE 138 1	242788 05SALTV1	242827 05TAZEWE	1 138	205 AEP	296	398 Base Case (120.8 -	40.83	0 -0.169	-0.16%	0.07%
358 243560 05ROBERT 138 246907 05W.CAMPUS 138 1	243560 05ROBERT	246907 05W.CAMPUS	1 138	205 AEP	324	434 Base Case (131.4 -	40.57	0 -0.019	-0.01%	-0.02%
359 242931 05BEVERL 345 242940 05MUSKNG 345 1	242931 05BEVERL	242940 05MUSKNG	1 345	205 AEP	971	971 Base Case (393.8 -	40.56	0 1.269	<u>ا1.26%</u>	-0.79%
360 238796 02HGHLND 345 240069 02LORDSTOWN 345 2	238796 02HGHLND	240069 02LORDSTOWN	2 345	202 ATSI	1413	1743 Base Case (-572.1 -	40.49	0 -0.02%	-0.02%	-0.06%

	А	B C	D	E	F	G	НІ	J	K L	M N	0	P Q	R	S	T U
361 239198 02CONGRS 13	38 239369 02TORONTO 138 1	239198 02CONGRS	239369	02TORONTO	1	138	202 ATSI	185	189 Base Case	0 -74.7	-	40.4 0	0.12%	0.12%	0.01%
362 242525 05KANAWH 34	45 247068 05KANAWH ASZ 138 A	242525 05KANAWH	247068	05KANAWH ASZ	A	345/138	205 AEP	492	556 Base Case	0 198.7	-	40.39 0	-0.11%	-0.11%	-0.05%
363 249569 08MADISN 34	45 249576 08WODSDL 345 1	249569 08MADISN	249576	08WODSDL	1	. 345	208/212 DEI/DEO&K	1139	1195 Base Case	0 459.4	-	40.33 0	-0.29%	-0.29%	-0.29%
364 238707 02EVANS 13	38 238750 02GDYR + 138 1	238707 02EVANS	238750	02GDYR +	1	. 138	202 ATSI	233	282 Base Case	0 -93.8	-	40.28 0	0.10%	0.10%	0.07%
365 242933 05RPMONE 34	45 246929 05MADDOX 345 1	242933 05RPMONE	246929	05MADDOX	1	. 345	205 AEP	897	1301 Base Case	0 361.3	-	40.27 0	-1.18%	-1.18%	-0.47%
366 245983 05GRISTMILL 13	38 245994 05GEMINI 138 1	245983 05GRISTMILL	245994	05GEMINI	1	138	205 AEP	257	360 Base Case	0 103.5	-	40.27 0	0.01%	0.01%	0.04%
367 238781 02HANNA 34	45 238850 02JUNIPE 345 1	238781 02HANNA	238850	02JUNIPE	1	. 345	202 ATSI	1555	1892 Base Case	0 626.1	-	40.26 0	0.50%	0.50%	0.50%
368 242537 05AMOS 13	38 242740 05ORTIN 138 2	242537 05AMOS	242740	05ORTIN	2	138	205 AEP	696	729 Base Case	0 280.2	-	40.26 0	-0.23%	-0.23%	-0.27%
369 243278 05DESOTO 13	38 243337 05MAYFIE 138 1	243278 05DESOTO	243337	05MAYFIE	1	138	205 AEP	205	205 Base Case	0 82.5		40.24 0	0.01%	0.01%	0.00%
370 242566 05BROADF 13	38 242693 05KEYWSS 138 1	242566 05BROADF	242693	05KEYWSS	1	138	205 AEP	167	245 Base Case	0 -67.2	-	40.23 0	-0.10%	-0.10%	0.00%
371 238832 02JACKMA 13	38 239236 02TOLHOS 138 1	238832 02JACKMA	239236	02TOLHOS	1	. 138	202 ATSI	216	264 Base Case	0 86.8	-	40.19 0	0.04%	0.04%	-0.01%
372 243231 05ROB PK 34	45 243232 05SORENS 345 1	243231 05ROB PK	243232	05SORENS	1	. 345	205 AEP	1025	1203 Base Case	0 -411.7	-	40.17 0	0.13%	0.13%	0.45%
373 238504 02GM-PWR-TRN 13	38 239219 02SMUCKER 1 138 1	238504 02GM-PWR-TRN	239219	02SMUCKER 1	1	. 138	202 ATSI	278	343 Base Case	0 111.5	-	40.12 0	0.05%	0.05%	-0.03%
374 242938 05MARQUI 34	45 243034 05MARQUI 138 2	242938 05MARQUI	243034	05MARQUI	2	345/138	205 AEP	501	564 Base Case	0 200.8	-	40.08 0	-0.03%	-0.03%	0.04%
375 243454 05BIXBY 34	45 243473 05BIXBY 138 2	243454 05BIXBY	243473	05BIXBY	2	345/138	205 AEP	720	815 Base Case	0 288.6	-	40.08 0	0.01%	0.01%	0.01%
376 242729 05NAGEL 13	38 242762 05REEDCR 138 1	242729 05NAGEL	242762	05REEDCR	1	. 138	205 AEP	205	205 Base Case	0 82.1	-	40.04 0	-0.01%	-0.01%	-0.04%
377 238706 02EU TAP 13	38 238991 02NCASTL 138 1	238706 02EU TAP	238991	02NCASTL	1	. 138	202 ATSI	329	413 Base Case	0 -131.6	-	40.01 0	0.20%	0.20%	-0.01%
378 243679 05BUSSYV 13	38 243702 05THELMA 138 1	243679 05BUSSYV	243702	05THELMA	1	138	205 AEP	223	310 Base Case	0 89.1	-	39.97 0	0.04%	0.04%	-0.08%
379 242688 05JOSHUA 13	38 247670 05JOSHUA XFL 138 1	242688 05JOSHUA	247670	05JOSHUA XFL	1	. 138	205 AEP	747	747 Base Case	0 -298.4	-	39.95 0	-0.19%	-0.19%	-1.79%
380 243226 05LAWBG1 34	45 243233 05TANNER 345 1	243226 05LAWBG1	243233	05TANNER	1	. 345	205 AEP	1239	1409 Base Case	0 494.6	-	39.92 0	-0.31%	-0.31%	-0.31%
381 242675 05HUFFMN 13	38 242684 05J.FERR 138 1	242675 05HUFFMN	242684	05J.FERR	1	. 138	205 AEP	282	348 Base Case	0 -112.3	-	39.82 0	0.03%	0.03%	0.07%
382 243086 055 HICK 13	38 247108 05SOWERS 138 1	243086 055 HICK	247108	05SOWERS	1	138	205 AEP	223	310 Base Case	0 -88.8	-	39.81 0	-0.22%	-0.22%	0.04%
383 239082 0258-ATT 34	45 238544 02ASH_3 138 8	239082 0258-ATT	238544	02ASH_3	8	345/138	202 ATSI	620	701 Base Case	0 246.8	-	39.81 0	0.65%	0.65%	-0.12%
384 249988 08BKJ135 13	38 250103 08TBSC01 138 1	249988 08BKJ135	250103	08TBSCO1	1	. 138	212 DEO&K	332	332 Base Case	0 132.1	-	39.8 0	0.05%	0.05%	0.06%
385 242940 05MUSKNG 34	45 242949 05WMILLP 345 1	242940 05MUSKNG	242949	05WMILLP	1	. 345	205 AEP	897	897 Base Case	0 355.5		39.63 0	0.62%	0.62%	0.19%
386 242977 05CALDWE 13	38 243091 05s.CALDWELL 138 1	242977 05CALDWE	243091	05S.CALDWELL	1	138	205 AEP	205	284 Base Case	0 -81.2	-	39.61 0	-0.18%	-0.18%	0.06%
387 242748 05PENHOK 13	38 242802 05SMITHMTN 138 1	242748 05PENHOK	242802	05SMITHMTN	1	138	205 AEP	296	392 Base Case	0 -116.8	-	39.47 0	0.00%	0.00%	0.39%
388 242522 05AMOS 34	45 242537 05AMOS 138 8	242522 05AMOS	242537	05AMOS	8	345/138	205 AEP	696	696 Base Case	0 274.3	-	39.41 0	-0.10%	-0.10%	-0.17%
389 242592 05CHEM 1 13	38 242593 05CHEM 2 138 Z1	242592 05CHEM 1	242593	05CHEM 2	Z1	138	205 AEP	498	498 Base Case	0 196.2		39.41 0	-0.24%	-0.24%	-0.24%
390 238575 02BLUBEL 13	38 239306 02REPUBLICSM 138 1	238575 02BLUBEL	239306	02REPUBLICSM	1	138	202 ATSI	117	147 Base Case	0 -46.1	-	39.39 0	0.11%	0.11%	-0.08%
391 253026 09GREENE 13	38 253062 090VERL1 138 1	253026 09GREENE	253062	090VERL1	1	138	209 DAY	306	380 Base Case	0 120.5	-	39.38 0	0.05%	0.05%	0.05%
392 250057 08M.FORT 13	38 250070 08MRGAN1 138 1	250057 08M.FORT	250070	08MRGAN1	1	. 138	212 DEO&K	268	268 Base Case	0 105.3	-	39.28 0	-0.03%	-0.03%	0.01%
393 242925 05KAMMER 76	65 242930 05SCANTO 765 1	242925 05KAMMER	242930	05SCANTO	t	. 765	205 AEP	2890	2890 Base Case	0 1132.8	-	39.2 0	-1.42%	-1.43%	2.25%
394 242621 05DARRH1 13	38 242835 05TRISTA 138 1	242621 05DARRH1	242835	05TRISTA	1	. 138	205 AEP	167	240 Base Case	0 -65.4	-	39.19 0	-0.04%	-0.04%	0.02%
395 243475 05BLENDO 13	38 243491 05CORRID 138 1	243475 05BLENDO	243491	05CORRID	1	. 138	205 AEP	285	338 Base Case	0 -111.5	-	39.14 0	0.05%	0.05%	0.01%
396 242592 05CHEM 1 13	38 242740 050RTIN 138 2	242592 05CHEM 1	242740	05ORTIN	2	138	205 AEP	685	729 Base Case	0 -267.9	-	39.11 0	-0.23%	-0.23%	-0.27%
397 238850 02JUNIPE 34	45 238843 02JNPRQ4 138 6	238850 02JUNIPE	238843	02JNPRQ4	6	345/138	202 ATSI	486	579 Base Case	0 190.1	-	39.11 0	-0.01%	-0.01%	0.03%
398 242807 05SPORN 13	38 243013 05GAVIN1 138 1	242807 05SPORN	243013	05GAVIN1	1	. 138	205 AEP	158	183 Base Case	0 61.8	-	39.11 0	0.06%	0.06%	-0.02%
399 250052 08KYUNIV 13	38 250153 08KYUTB2 138 Z1	250052 08KYUNIV	250153	08KYUTB2	Z1	138	212 DEO&K	309	349 Base Case	0 120.7	-	39.07 0	-0.01%	-0.01%	0.00%
400 242637 05FLATWO 13	38 247558 05JARRETT 138 1	242637 05FLATWO	247558	05JARRETT	1	138	205 AEP	219	255 Base Case	0 85.5	-	39.05 0	-0.29%	-0.29%	0.03%
401 242989 05E LIMA 13	38 243155 05W.NEWTONSS 138 1	242989 05E LIMA	243155	05W.NEWTONSS	1	138	205 AEP	158	183 Base Case	0 61.7	-	39.03 0	-0.10%	-0.10%	-0.03%
402 243498 05DLAWAR2 13	38 246753 05VASSEL 138 1	243498 05DLAWAR2	246753	05VASSEL	1	138	205 AEP	338	456 Base Case	0 -131.9	-	39.01 0	0.07%	0.07%	0.04%
403 238532 02ALLNJB 13	38 239110 02SIL_AV+ 138 1	238532 02ALLNJB	239110	02SIL_AV+	1	138	202 ATSI	278	343 Base Case	0 108.5	-	39.01 0	-0.06%	-0.06%	0.01%
404 238730 02FORTIN 13	38 239315 02STER-P 138 1	238730 02FORTIN	239315	02STER-P	1	138	202 ATSI	241	292 Base Case	0 94	-	38.99 0	0.07%	0.07%	-0.01%
405 242940 05MUSKNG 34	45 242949 05WMILLP 345 2	242940 05MUSKNG	242949	05WMILLP	2	345	205 AEP	915	1132 Base Case	0 356.4		38.95 0	0.62%	0.62%	0.19%
406 243492 05CORWIN 13	38 243545 05MILTON SS 138 1	243492 05CORWIN	243545	05MILTON SS	1	. 138	205 AEP	219	255 Base Case	0 -85.3	-	38.95 0	-0.06%	-0.06%	0.07%
407 238878 02LB Q12 13	38 241923 02ELQ3 138 1	238878 02LB Q12	241923	02ELQ3	1	138	202 ATSI	273	287 Base Case	0 -106.3	-	38.95 0	0.01%	0.01%	0.00%
408 242605 05CLNCHR 13	38 242700 05LEBANO 138 1	242605 05CLNCHR	242700	05LEBANO	1	138	205 AEP	446	446 Base Case	0 173.4	-	38.87 0	-0.34%	-0.34%	-0.33%
409 238908 02LONDON 13	38 926010 AC1-078 TAP 138 1	238908 02LONDON	926010	AC1-078 TAP	1	. 138	202 ATSI	277	277 Base Case	0 -107.6		38.86 0	0.09%	0.09%	0.06%
410 242575 05CAMDLM 13	38 242737 050POSSUMCK 138 1	242575 05CAMDLM	242737	050POSSUMCK	1	. 138	205 AEP	205	284 Base Case	0 79.5	~	38.8 0	-0.06%	-0.06%	0.37%
411 239070 02RICHLD 13	38 239269 02RICHLJ 138 ZB	239070 02RICHLD	239269	02RICHLJ	ZB	138	202 ATSI	329	413 Base Case	0 127.6	-	38.79 0	-0.11%	-0.11%	-0.11%
412 242680 05ITMANN 13	38 242754 05PINNAC 138 1	242680 05ITMANN	242754	05PINNAC	t	138	205 AEP	205	255 Base Case	0 -79.4	-	38.73 0	-0.08%	-0.08%	-0.01%
413 250072 08MTCHL1 13	38 250074 08MTCHL4 138 Z1	250072 08MTCHL1	250074	08MTCHL4	Z1	138	212 DEO&K	267	267 Base Case	0 -103.4		38.71 0	-0.04%	-0.04%	-0.04%
414 238644 02CW Q-3 13	38 240360 02BENTLEYQ3 138 1	238644 02CW Q-3	240360	02BENTLEYQ3	1	. 138	202 ATSI	273	332 Base Case	0 -105.5	-	38.65 0	-0.19%	-0.19%	-0.02%
415 243385 05TWIN B 13	38 247780 05KLINE 138 1	243385 05TWIN B	247780	05KLINE	1	138	205 AEP	329	334 Base Case	0 126.9	-	38.59 0	-0.07%	-0.07%	-0.07%
416 243456 05CORRID 34	45 243491 05CORRID 138 1	243456 05CORRID	243491	05CORRID	1	345/138	205 AEP	680	847 Base Case	0 262.4	-	38.58 0	0.08%	0.08%	0.01%
417 238551 02AVON 34	45 241928 02AVQ2 138 91	238551 02AVON	241928	02AVQ2	91	345/138	202 ATSI	753	849 Base Case	0 290.3		38.55 0	-0.48%	-0.48%	-0.07%
418 243231 05ROB PK 34	45 244672 05ROB PK_XFL 138 5	243231 05ROB PK	244672	05ROB PK_XFL	5	345/138	205 AEP	887	982 Base Case	0 341.1	-	38.46 0	-0.07%	-0.07%	0.00%
419 239036 02PERRY 34	45 239334 02L.CENTER 345 1	239036 02PERRY	239334	02L.CENTER	1	. 345	202 ATSI	1396	1667 Base Case	0 536.7	-	38.45 0	0.82%	0.82%	-0.38%
420 239060 02RDGVL 13	38 239070 02RICHLD 138 1	239060 02RDGVL	239070	02RICHLD	1	138	202 ATSI	161	194 Base Case	0 -61.8	-	38.4 0	-0.13%	-0.13%	0.00%

A	B C D	E	F	G	НІ	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
421 243349 05NEW CARLI2 138 244930 05NEW CARLI1 138 Z1	243349 05NEW CARLI2 2449	0 05NEW CARLI1	Z1	138	205 AEP	335	392	Base Case	0	-128.6		38.39	0	-0.05%	-0.05%	-0.01%
422 243012 05G WASHGTON 138 246945 05BIGB1Z 138 1	243012 05G WASHGTON 2469	5 05BIGB1Z		1 1.38	205 AEP	205	205	Base Case	0	78.6	-	38.37	0	-0.18%	-0.18%	0.05%
423 238649 02DALE 138 238968 02MODEE 138 1	238649 02DALE 2389	8 02MOORE		1 138	202 ATST	233	282	Base Case	0	89.4	-	38 37	0	-0.10%	-0.10%	0.10%
424 243461 05PORPT1 345 243560 05PORFT 138 1	243461 05P0BPT1 2435	0 05POBERT	-	1 345/138	205 AFP	671	766	Base Case	0	257 1	_	38 31	0	-0.06%	-0.06%	-0.04%
425 243337 05MAVETE 139 246625 05MEDEORD RD 139 1	243337 05MAVETE 2466	5 05MEDEORD PR		1 139	205 AEP	190	205	Base Case	0	60		20 21	0	0.00%	0.01%	0.00%
425 2245557 05MATTE 156 240025 05MEDFORD BF 156 1	245557 05HATFIE 2400	0 0 0 MEDCO	-	1 120	203 AEF	104	203	Base Case	0	74.2		20.31	0	0.01%	0.09%	0.00%
420 238724 02FMEASI 130 239239 02MEDCO 130 1	230724 02FMEAST 2332	DECRANE		1 130	202 AISI	251	237	Dase Case	0	14.5		30.31	0	-0.08%	-0.08%	0.02%
427 243293 03F1SHER 138 243302 03GRANT 138 1	243293 03FISHER 2433	JZ USGRANT	-	1 130	205 AEP	201	333	Base Case	0	-96	-	30.20	0	-0.07%	-0.07%	-0.05%
420 250065 08MILLIKN 138 250105 08TDHNTR 138 1	250065 08MILIKN 2501	J5 USTDHNTR		1 138	212 DEO&K	299	299	Base Case	0	-114.4	-	38.25	0	-0.03%	-0.03%	-0.05%
429 238626 02CLAYBN 138 239083 02SAKRON 138 1	238626 UZCLAYBN 2390	33 UZSAKRON		1 138	202 ATS1	157	196	Base Case	0	-60	-	38.24	0	-0.04%	-0.04%	0.05%
430 242525 05KANAWH 345 247092 05KANAWH BSZ 138 B	242525 05KANAWH 2470	2 USKANAWH_BSZ	В	345/138	205 AEP	539	574	Base Case	0	206	-	38.22	0	-0.11%	-0.11%	-0.05%
431 238751 02SMUCKER 2 138 239315 02STER-P 138 1	238751 02SMUCKER 2 2393	5 02STER-P	_	1 138	202 ATSI	241	292	Base Case	0	-92.1	-	38.22	0	0.07%	0.07%	-0.01%
432 253074 09STATAP 138 253098 09STAUNT 138 1	253074 09STATAP 2530	09STAUNT		1 138	209 DAY	196	198	Base Case	0	74.9	-	38.2	0	0.00%	0.00%	0.00%
433 242940 05MUSKNG 345 247501 05MUSK_E_XFL 138 E	242940 05MUSKNG 2475	01 05MUSK_E_XFL	E	345/138	205 AEP	713	765	Base Case	0	272.3	-	38.19	0	-0.50%	-0.50%	-0.01%
434 238783 02HARDIN 345 238850 02JUNIPE 345 1	238783 02HARDIN 2388	50 02JUNIPE		1 345	202 ATSI	1555	1793	Base Case	0	-593.5		38.17	0	-0.44%	-0.44%	0.19%
435 242940 05MUSKNG 345 247500 05MUSK_D_XFL 138 D	242940 05MUSKNG 2475	0 05MUSK_D_XFL	D	345/138	205 AEP	713	765	Base Case	0	271.9	-	38.14	0	-0.50%	-0.50%	-0.01%
436 238783 02HARDIN 345 238794 02HDGQ13 138 3	238783 02HARDIN 2387	4 02HDGQ13		3 345/138	202 ATSI	397	488	Base Case	0	151.4	-	38.13	0	0.07%	0.07%	0.01%
437 243318 05JACKSON RD 138 243371 05S SIDE 138 1	243318 05JACKSON RD 2433	1 05S SIDE		1 138	205 AEP	251	335	Base Case	0	95.6	-	38.09	0	0.06%	0.06%	0.04%
438 242614 05COLLINV SS 138 242711 05MARTN1 138 1	242614 05COLLINV SS 2427	1 05MARTN1	1	1 138	205 AEP	219	255	Base Case	0	-83.4	-	38.07	0	-0.04%	-0.04%	0.30%
439 240360 02BENTLEYQ3 138 241929 02AVQ3 138 1	240360 02BENTLEYQ3 2419	9 02AVQ3		1 138	202 ATSI	278	339	Base Case	0	-105.7	-	38.01	0	-0.19%	-0.19%	-0.02%
440 250152 08HEBRNG 138 342595 4HEBRON 138 1	250152 08HEBRNG 3425	5 4HEBRON		1 138	212/320 DE0&K/EKPC	96	117	Base Case	0	36.5	-	38	0	-0.01%	-0.01%	-0.02%
441 243218 05DESOTO 345 243278 05DESOTO 138 1	243218 05DESOTO 2432	8 05DESOTO		1 345/138	205 AEP	584	692	Base Case	0	221.8	-	37.98	0	-0.01%	-0.01%	0.00%
442 243789 05FACEBOOK 138 244745 05BABBIT1-2 138 Z3	243789 05FACEBOOK 2447	5 05BABBIT1-2	Z3	138	205 AEP	158	183	Base Case	0	-60	-	37.97	0	0.00%	0.00%	0.00%
443 243789 05FACEBOOK 138 244745 05BABBIT1-2 138 Z2	243789 05FACEBOOK 2447	5 05BABBIT1-2	Z2	138	205 AEP	158	183	Base Case	0	-60	-	37.97	0	0.00%	0.00%	0.00%
444 243789 05FACEBOOK 138 244745 05BABBIT1-2 138 Z1	243789 05FACEBOOK 2447	5 05BABBIT1-2	Z1	138	205 AEP	158	183	Base Case	0	-60	-	37.97	0	0.00%	0.00%	0.00%
445 243145 05WCOSHC 138 247253 05BUCKSS 138 1	243145 05WCOSHC 2472	3 05BUCKSS		1 138	205 AEP	185	257	Base Case	0	70.1	-	37.9	0	-0.26%	-0.26%	0.04%
446 242729 05NAGEL 138 245220 05W.KINGSPT2 138 1	242729 05NAGEL 2452	0 05W.KINGSPT2		1 1.38	205 AEP	205	205	Base Case	0	77.7	-	37.89	0	0.01%	0.01%	0.06%
447 243278 05DESOTO 138 247837 05PERCH 138 1	243278 05DESOTO 2478	T 05PERCH		1 138	205 AEP	409	409	Base Case	0	154.9	_	37.88	0	-0.05%	-0.05%	0.03%
448 243460 0.5808872 345 243560 0.5808877 138 2	243460 0580BBT2 2435	0 05BOBERT		2 345/138	205 AEP	671	766	Base Case	0	254	-	37.85	0	-0.06%	-0.06%	-0.04%
Adg 253007 0.08ELLED 138 253078 0.09ELLED 138 1	253007 09BELLBR 2530	18 09SUGPCK		1 138	209 DAV	301	419	Base Case	0	-113.8	-	37.82	0	-0.07%	-0.07%	0.00%
450 238678 02FAKRON 138 239615 020LDERG 138 1	238678 02E1KPON 2396	5 020LDERC		1 138	202 bmst	221	262	Base Case	0	-83.4	-	37.02	0	0.06%	0.06%	-0.02%
450 233078 02EARKON 136 235015 020EDFRG 136 1	242222 0EMD DIGON1 2474	O OECDORE CT 7		1 120	205 AFD	107	202	Base Case	0	70.6		27.72	0	0.00%	0.00%	0.06%
451 243535 05MADISONI 130 247420 05CK055 51 2 130 1	243335 05MADISONI 2474	E OEDIVEDOIDE1	-	1 130	205 AEF	210	200	Dase Case	0	00.0		37.73	0	-0.01%	-0.01%	0.00%
452 243335 05MAIN 5 138 243365 05RIVERSIDEI 138 1	243335 05MAIN 5 2433	O OF ONT THINK THE	-	1 130	205 AEP	219	223	Base Case	0	-02.5	_	37.69	0	0.07%	0.07%	0.02%
455 242775 USROCKCAS SS 138 242802 USSMITHMIN 138 1	242775 USROCKCAS SS 2428	JZ USSMITHMIN		1 138	205 AEP	308	409	Base Case	0	-134.5	-	37.57	0	-0.06%	-0.06%	0.94%
454 242855 05WYOMIN 138 242857 05WYOMX2 138 2B	242855 USWYOMIN 2428	57 USWYOMX2	ZB	138	205 AEP	696	747	Base Case	0	-261.5	-	37.57	0	0.05%	0.05%	0.07%
455 242855 05WYOMIN 138 242856 05WYOMX1 138 ZB	242855 05WYOMIN 2428	06 U5WYOMX1	ZB	138	205 AEP	696	747	Base Case	0	-261.5	-	37.57	0	0.05%	0.05%	0.07%
456 238543 02ASH 2 138 240366 02PETMIN 138 1	238543 02ASH_2 2403	6 02PETMIN		1 138	202 ATSI	200	242	Base Case	0	75.1	-	37.56	0	0.00%	0.00%	0.00%
457 249994 08CHRLES 138 250091 08RCHLE3 138 1	249994 08CHRLES 2500	08RCHLE3		1 138	212 DEO&K	268	282	Base Case	0	-100.4	-	37.48	0	-0.03%	-0.03%	-0.08%
458 242680 05ITMANN 138 242727 05MULLEN 138 1	242680 05ITMANN 2427	27 05MULLEN	-	1 138	205 AEP	205	255	Base Case	0	76.8	-	37.46	0	-0.08%	-0.08%	-0.01%
459 250161 08T758 138 250162 08GARVER 138 1	250161 08T758 2501	52 08GARVER		1 138	212 DEO&K	298	298	Base Case	0	-111.2	-	37.33	0	0.00%	0.00%	0.00%
460 253002 09AIRWAY 138 253026 09GREENE 138 1	253002 09AIRWAY 2530	6 09GREENE	-	1 138	209 DAY	191	234	Base Case	0	-71.2	-	37.3	0	0.02%	0.02%	0.02%
461 235102 01BELMNT 500 242920 05BELMON 765 5	235102 01BELMNT 2429	20 05BELMON		5 500/765	201/205 AP/AEP	1986	2385	Base Case	0	-740.6	-	37.29	0	-5.39%	-5.39%	-1.25%
462 238678 02EAKRON 138 239178 02WRAVNA 138 1	238678 02EAKRON 2391	8 02WRAVNA		1 138	202 ATSI	200	242	Base Case	0	-74.6		37.29	0	0.07%	0.07%	-0.02%
463 249566 08FOSTER 345 253006 09BATH 345 1	249566 08FOSTER 2530	06 09BATH		1 345	212/209 DEO&K/DAY	1263	1455	Base Case	0	470.6	-	37.26	0	-0.50%	-0.50%	0.02%
464 250121 08UNION 138 250161 08T758 138 1	250121 08UNION 2501	51 08T758		1 138	212 DE0&K	298	298	Base Case	0	-111	-	37.25	0	0.00%	0.00%	0.00%
465 249565 08EBEND 345 249575 08TERMNL 345 1	249565 08EBEND 2495	5 08TERMNL		1 345	212 DEO&K	1290	1457	Base Case	0	477.9	-	37.05	0	-0.28%	-0.28%	-0.24%
466 235299 01BELMNT 138 243557 05RENO Z 138 1	235299 01BELMNT 2435	7 05RENO Z		1 138	201/205 AP/AEP	282	282	Base Case	0	104.4	-	37.03	0	0.27%	0.27%	0.20%
467 238642 02CRSLND 138 238669 02DUFERC 138 1	238642 02CRSLND 2386	9 02DUFERC		1 138	202 ATSI	96	96	Base Case	0	35.5	-	37.01	0	0.00%	0.00%	0.00%
468 243214 05COLNGW 345 247105 05VARNER 345 1	243214 05COLNGW 2471	5 05VARNER		1 345	205 AEP	1409	1829	Base Case	0	521.3	-	37	0	-0.13%	-0.13%	0.00%
469 238751 02SMUCKER 2 138 238832 02JACKMA 138 1	238751 02SMUCKER 2 2388	2 02JACKMA		1 138	202 ATSI	241	292	Base Case	0	89.1	-	36.98	0	0.07%	0.07%	-0.01%
470 250048 08KLEMN1 138 250060 08MDWAY1 138 1	250048 08KLEMN1 2500	08MDWAY1		1 138	212 DEO&K	275	275	Base Case	0	-101.7	-	36.98	0	-0.03%	-0.03%	0.01%
471 243456 05CORRID 345 243491 05CORRID 138 2	243456 05CORRID 2434	1 05CORRID		2 345/138	205 AEP	696	747	Base Case	0	257.3	-	36.97	0	0.08%	0.08%	0.01%
472 243018 05HEATH 138 243150 05WMILLP 138 1	243018 05HEATH 2431	0 05WMILLP		1 138	205 AEP	205	205	Base Case	0	-75.7	-	36.94	0	-0.05%	-0.05%	0.06%
473 242560 05BONSCK 138 242840 05VINTON 138 1	242560 05BONSCK 2428	0 05VINTON		1 138	205 AEP	205	252	Base Case	0	75.7	-	36.92	0	0.07%	0.07%	-0.12%
474 238781 02HANNA 345 238782 02HANNA 138 1	238781 02HANNA 2387	2 02HANNA		1 345/138	202 ATSI	599	684	Base Case	0	221.1	-	36.91	0	0.06%	0.06%	0.00%
475 243007 05FRAZEY 138 243070 050HIOCT 138 1	243007 05FRAZEY 2430	0 050HIOCT		1 138	205 AEP	287	337	Base Case	0	-105.7	_	36.83	0	0.09%	0.09%	-0.03%
476 243513 05GENOA 138 243590 05WESTAR 138 1	243513 05GENOA 2435	0 05WESTAR		1 138	205 AEP	223	274	Base Case	0	-82.1	-	36.82	0	0.01%	0.01%	0.00%
477 242932 05CANTNC 345 242980 05CANTNC 138 1	242932 05CANTNC 2429	0 05CANTNC		1 345/138	205 AEP	500	563	Base Case	0	184.1	-	36.82	0	0.05%	0.05%	0.01%
478 243235 0523RD 138 246625 05MEDEORD BP 138 1	243235 0523RD 2466	5 05MEDFORD BP		1 138	205 AEP	187	240	Base Case	0	-68.8		36.78	0	0.01%	0.01%	0.00%
479 246887 05RAMEY 138 246919 05CHADWICK2 138 1	246887 05BAMEY 2469	9 05CHADWICK?		1 139	205 AEP	409	527	Base Case	0	-150.4	_	36 77	0	0.01%	0.01%	0.08%
480 243377 0550RENS 138 244193 0517ERV C CC 139 1	243377 0500RENG 2441	3 OSLAFAY C CC		1 120	205 AFP	251	335	Base Case	0	92.2		36 73	0	-0.02%	-0.02%	0.01%
100 2100 / DODOLENS 100 244100 UDLAFAI C 55 138 1	2441	O DURINI C 22		-1 T20	200 000	ZJI	333	Lase case	U	26.2		50.13	U	0.0270	0.0270	0.01/0

	А	B C	D	E	F	G	Н	L	J	К	L	М	N	0	Р	Q	R	S	Т	U
481 238665 02DS Q-1	138 238671 02DW Q-1 138 1	238665 02DS Q-1	238671	02DW Q-1	1	138	202 AT	ISI	273	332	2 Base Case	0	-100.2	-	36.72	0	-0.25%	-0.25%	-0.03%	
482 238643 02CW Q-1	138 238671 02DW Q-1 138 1	238643 02CW Q-1	238671	02DW Q-1	1	138	202 AT	TSI	273	332	2 Base Case	0	100.2	-	36.72	0	-0.25%	-0.25%	-0.03%	
483 250053 08LAFARG	138 250097 08SGROVE 138 1	250053 08LAFARG	250097	08SGROVE	1	138	212 DE	EO&K	298	298	8 Base Case	0	-109.4	-	36.71	0	-0.01%	-0.01%	0.00%	
484 238821 02INLAND	345 238823 02INO-14 138 4	238821 02INLAND	238823	02INO-14	4	345/138	202 AT	rsi	620	739	9 Base Case	0	227.5	-	36.69	0	0.01%	0.01%	0.03%	
485 239303 02NILES	345 239008 02NILES 138 1	239303 02NILES	239008	02NILES	1	345/138	202 AT	ISI	581	693	3 Base Case	0	213.2		36.69	0	-0.04%	-0.04%	-0.05%	
486 242922 05FLTLCK	765 242928 05MARYSV 765 1	242922 05FLTLCK	242928	05MARYSV	1	765	205 AE	P	4047	4142	2 Base Case	0	1483 1	-	36 65	0	1.46%	1 46%	3 73%	
487 249981 08AKSTEEL2	138 250010 08D CBK2 138 1	249981 08AKSTEEL2	250010	08D.CBK2	1	138	212 DE	COAK	299	299	9 Base Case	0	-109.5	-	36.63	0	-0.01%	-0.01%	-0.01%	
488 243017 05HAVILAND1	138 246352 05HaVIIAND2 138 71	243017 05Haviland1	246352	05HAVTLAND2	71	138	205 AF	D	187	240	Base Case	0	-68 5	-	36.63	0	-0.18%	-0.18%	-0.06%	
489 243217 050EOUTN	345 247712 05SULLIVAN 345 1	243217 05DEOUTN	247712	05SULLTVAN	1	345	205 AE	P	971	1318	Base Case	0	-355 3	-	36.59	0	0.11%	0.11%	0.34%	
400 249217 05050001N	139 250105 09TDUNTD 139 1	240217 0505201N	250105	0970HILIVAN	1	139	212 DE	OCK.	273	297	7 Baso Caso	0	-99.9	-	36.59	0	0.01%	0.01%	0.01%	
491 220122 02TANCY	245 242020 05MARVEV 245 1	220122 0000000	242020	OEMADVOU	1	245	202/205 20	TOT /APD	007	1201	1 Base Case	0	-227 4		36.50	0	0.01%	0.01%	0.01%	
497 250136 08HTLCPT	129 250141 0000 129 1	250136 021ANG1	250141	OPPOPAGE	1	120	202/203 AI	OCK COL	201	201	1 Base Case	0	100 9		26 10	0	0.00%	0.00%	-0.01%	
492 230130 08HILCKI	130 230127 02000VVE 120 1	230130 00HILCKI	230141	003CEASI	1	120	212 DE	SOAR	152	101	1 Base Case	0	109.0		36.46	0	0.00%	0.00%	-0.01%	
493 233000 02RDGVI	245 242270 0EDECOTO 120 2	243218 05DESOTO	2/2270	025IRIRE	-	245/120	202 AI	20	E04	101	2 Base Case	0	212.0		26.43	0	-0.13%	0.13%	0.00%	
494 243218 05DE3010	120 242276 05DE3010 120 1	243218 05055010	243270	05DESOTO	1	120	205 AE	SF ID	205	092	2 Base Case	0	212.0		36.43	0	-0.01%	-0.01%	0.00%	
495 243070 030HIOCT	138 243075 05POWELS 138 1	243070 050HIOCT	243075	05POWELS	1	130	205 AE	SP	205	204	Base Case	0	74.7	-	36.43	0	-0.06%	-0.06%	-0.06%	
496 243207 05GRNTWN	765 244658 05GRNTWN 138 1	243207 05GRNTWN	244658	05GRNTWN	1	/65/138	205 AE	SP	/50	/50	Base Case	0	2/3.1	-	36.41	0	-0.06%	-0.06%	-0.06%	
457 242756 USPOAGES	130 242813 USSTARKE 138 1	242/36 USPOAGES	242815	OODARU		138	205 AE	SF	167	240	Base Case	0	100.7	-	30.33	0	-0.03%	-0.03%	-0.18%	
490 253006 09BATH	345 253005 09BATH 138 2	253006 09BATH	253005	UJBATH	2	345/138	209 DA	11	450	495	Base Case	0	163.5	-	36.33	0	-0.04%	-0.04%	0.02%	
499 253006 09BATH	345 253005 09BATH 138 1	253006 09BATH	253005	U9BATH	1	345/138	209 DA	AY	450	495	Base Case	0	163.5	-	36.33	0	-0.04%	-0.04%	0.02%	
500 243508 05ITALNV	138 243575 05ST.CLR 138 1	243508 05ITALNV	243575	U5ST.CLR		138	205 AE	SP	248	313	3 Base Case	0	-90.1	-	36.32	0	0.09%	0.09%	0.03%	
501 243353 050LIVE	138 246075 05EDISON1 138 1	243353 050LIVE	246075	U5EDISON1	1	138	205 AE	SP	251	251	I Base Case	0	91.1	-	36.28	0	-0.08%	-0.08%	-0.05%	
502 243031 05LYNN Z	138 243155 05W.NEWTONSS 138 1	243031 05LYNN Z	243155	USW.NEWTONSS	1	138	205 AE	1P	158	183	3 Base Case	0	-57.3	-	36.27	0	-0.10%	-0.10%	-0.03%	
503 243105 05SMILLB	138 247253 05BUCKSS 138 1	243105 05SMILLB	247253	05BUCKSS	1	138	205 AE	EP	185	257	7 Base Case	0	-67.1	-	36.27	0	-0.26%	-0.26%	0.04%	
504 238745 02GALION	345 238746 02GALION 138 3	238745 02GALION	238746	02GALION	3	345/138	202 AT	TSI	458	478	8 Base Case	0	165.7	-	36.19	0	-0.21%	-0.21%	-0.05%	
505 243526 05HYATT	138 243566 05SAWMIL 138 2	243526 05HYATT	243566	05SAWMIL	2	138	205 AE	IP	388	526	6 Base Case	0	140.2	-	36.14	0	0.03%	0.03%	0.00%	
506 242700 05LEBANO	138 246766 05ELKGAZ 138 1	242700 05LEBANO	246766	05ELKGAZ	1	138	205 AE	IP	446	446	6 Base Case	0	161	-	36.11	0	-0.34%	-0.34%	-0.33%	
507 242698 05LAKIN	138 243013 05GAVIN1 138 1	242698 05LAKIN	243013	05GAVIN1	1	138	205 AE	IP	185	185	5 Base Case	0	66.8	-	36.08	0	0.06%	0.06%	-0.02%	
508 238781 02HANNA	345 238782 02HANNA 138 2	238781 02HANNA	238782	02HANNA	2	345/138	202 AT	rsi	616	696	6 Base Case	0	222.2	-	36.07	0	0.06%	0.06%	0.00%	
509 247002 05WAYMSS	138 247128 05ASTNSS 138 1	247002 05WAYMSS	247128	05ASTNSS	1	138	205 AE	2P	205	255	5 Base Case	0	-73.9	-	36.05	0	-0.12%	-0.12%	0.05%	
510 243454 05BIXBY	345 243473 05BIXBY 138 1	243454 05BIXBY	243473	05BIXBY	1	345/138	205 AE	IP	789	879	9 Base Case	0	284.4		36.05	0	0.01%	0.01%	0.01%	
511 238782 02HANNA	138 239178 02WRAVNA 138 1	238782 02HANNA	239178	02WRAVNA	1	138	202 AT	rsi	295	369	9 Base Case	0	106.3	-	36.04	0	0.05%	0.05%	-0.01%	
512 242528 05SPORN	345 242808 05SPORNS 138 3	242528 05SPORN	242808	05SPORNS	3	345/138	205 AE	2P	475	544	4 Base Case	0	171.1	-	36.03	0	0.07%	0.07%	0.00%	
513 250105 08TDHNTR	138 250138 08NICKEL 138 1	250105 08TDHNTR	250138	08NICKEL	1	138	212 DE	EO&K	300	300) Base Case	0	108	-	36.01	0	-0.10%	-0.10%	-0.10%	
514 242605 05CLNCHR	138 246894 05VACITY 138 1	242605 05CLNCHR	246894	05VACITY	1	138	205 AE	P	670	675	5 Base Case	0	-240.9	-	35.95	0	-0.15%	-0.15%	-0.15%	
515 242605 05CLNCHR	138 246894 05VACITY 138 2	242605 05CLNCHR	246894	05VACITY	2	138	205 AE	IP	670	675	5 Base Case	0	-240.9	-	35.95	0	-0.15%	-0.15%	-0.15%	
516 243473 05BIXBY	138 243518 05GROVES 138 2	243473 05BIXBY	243518	05GROVES	2	138	205 AE	IP	335	392	2 Base Case	0	120.4	-	35.93	0	0.01%	0.01%	0.01%	
517 243070 050HIOCT	138 243160 05WTRNWY 138 1	243070 050HIOCT	243160	05WTRNWY	1	138	205 AE	P	205	255	5 Base Case	0	73.6		35.91	0	0.05%	0.05%	0.05%	
518 242999 05EPROCT	138 243064 05NPROCT 138 1	242999 05EPROCT	243064	05NPROCT	1	138	205 AE	IP	296	296	6 Base Case	0	-106.1	-	35.86	0	-0.02%	-0.02%	-0.06%	
519 242966 05BROADA	138 242994 05EAMSTD 138 1	242966 05BROADA	242994	05EAMSTD	1	138	205 AE	2P	336	393	3 Base Case	0	120.3	-	35.81	0	0.08%	0.08%	0.01%	
520 238678 02EAKRON	138 238864 02KNOX 138 1	238678 02EAKRON	238864	02KNOX	1	138	202 AT	ISI	185	189	9 Base Case	0	-66.2	-	35.78	0	0.03%	0.03%	0.05%	
521 249567 08M.FORT	345 249575 08TERMNL 345 1	249567 08M.FORT	249575	08TERMNL	1	345	212 DE	EO&K	1509	1509	9 Base Case	0	539.6	-	35.76	0	-0.32%	-0.32%	-0.28%	
522 242732 05NBRSTL	138 360490 4NBRISTOL VA 138 Z1	242732 05NBRSTL	360490	4NBRISTOL VA	Z1	138	205/347 AE	EP/TVA	242	248	8 Base Case	0	86.5	-	35.73	0	-0.05%	-0.05%	-0.15%	
523 238821 02INLAND	345 238822 02INQ-11 138 3	238821 02INLAND	238822	02INQ-11	3	345/138	202 AT	ISI	548	604	4 Base Case	0	195.6	-	35.69	0	-0.01%	-0.01%	0.02%	
524 242954 05APPLEC	138 243092 05SCANTO 138 1	242954 05APPLEC	243092	05SCANTO	1	138	205 AE	IP	205	205	5 Base Case	0	-73.2	-	35.69	0	0.12%	0.12%	-0.01%	
525 242508 05AMOS	765 242538 05AMOS_6_XFL 138 6	242508 05AMOS	242538	05AMOS_6_XFL	6	765/138	205 AE	IP	990	1119	9 Base Case	0	353	12	35.66	0	-0.15%	-0.15%	-0.18%	
526 242824 05TAMSM1	138 247113 05PIERSS 138 1	242824 05TAMSM1	247113	05PIERSS	1	138	205 AE	EP	164	180) Base Case	0	-58.5	-	35.65	0	-0.07%	-0.07%	-0.01%	
527 253079 09SUGRCK	345 253078 09SUGRCK 138 2	253079 09SUGRCK	253078	09SUGRCK	2	345/138	209 DA	AΥ	448	493	3 Base Case	0	159.7	-	35.65	0	0.02%	0.02%	0.05%	
528 247435 05MUSKNG ES2	Z 138 247501 05MUSK E XFL 138 ZE	247435 05MUSKNG ESZ	247501	05MUSK E XFL	ZE	138	205 AE	IP	766	800	D Base Case	0	-272.1	-	35.52	0	-0.50%	-0.50%	-0.01%	
529 250014 08DNLSN1	138 250173 08WDSPNT 138 1	250014 08DNLSN1	250173	08WDSPNT	1	138	212 DE	EO&K	266	266	6 Base Case	0	-94.5	12	35.52	0	0.05%	0.05%	0.08%	
530 238581 02BRBRTN	138 239123 02STAR 138 1	238581 02BRBRTN	239123	02STAR	1	138	202 AT	rsi	196	242	2 Base Case	0	-69.5	-	35.48	0	-0.04%	-0.04%	0.00%	
531 247434 05MUSKNG DS2	138 247500 05MUSK D XFL 138 ZD	247434 05MUSKNG DSZ	247500	05MUSK D XFL	ZD	138	205 AE	P	766	800) Base Case	0	-271.7	-	35.47	0	-0.50%	-0.50%	-0.01%	
532 243499 05DUBLIN	138 243566 05sawmil 138 1	243499 05DUBLIN	243566	05SAWMIL	1	138	205 AE	IP	184	184	4 Base Case	0	-65.3	-	35.46	0	0.04%	0.04%	0.00%	
533 243480 05BUCKEY	138 243511 05GAY 138 1	243480 05BUCKEY	243511	05GAY	1	138	205 AE	IP	170	209	9 Base Case	0	60.3		35.46	0	0.04%	0.04%	0.02%	
534 239092 02SAMMIS	345 239122 02STAR 345 1	239092 02SAMMIS	239122	02STAR	1	345	202 AT	SI	1435	1742	2 Base Case	0	508.6	-	35.45	0	0.94%	0.94%	0.16%	
535 238832 02JACKMA	138 239149 02VULCAN 138 1	238832 02JACKMA	239149	02VULCAN	1	138	202 AT	ISI	216	264	4 Base Case	0	76.4	-	35.36	0	0.04%	0.04%	-0.01%	
536 242528 05SPORN	345 242807 05SPORN 138 B	242528 05SPORN	242807	05SPORN	в	345/138	205 AE	IP	501	564	4 Base Case	0	176.8	-	35.29	0	0.07%	0.07%	0.00%	
537 238731 02FOX	345 238735 02F0X014 138 4	238731 02FOX	238735	02F0X014	4	345/138	202 AT	ISI	248	288	8 Base Case	0	87.5	22	35.28	0	0.14%	0.14%	0.02%	
538 242932 05CANTNC	345 242980 05CANTNC 138 3	242932 05CANTNC	242980	05CANTNC	3	345/138	205 AF	2P	524	605	5 Base Case	0	184.8	-	35.27	0	0.05%	0.05%	0.01%	
539 242966 05BBOADA	138 243127 05TTDD 1-2 138 1	242966 05BROADA	243127	05TIDD 1-2	1	138	205 AE		358	409	9 Base Case	0	-126	-	35.21	0	0.08%	0.08%	0.01%	
540 242516 05MOINTN	765 242920 05BELMON 765 1	242516 05MOUNTN	242920	05BELMON	1	765	205 AE		4047	4571	1 Base Case	0	1423 4	-	35 17	0	-7.66%	-7 66%	1.84%	
and allotto concountly		212010 001000011	212920			,05	200 110		1011	10/1		0			00.11	U	1.0070	1.0070	210 170	

	А		B C	D	E	F	G	НІ	Ĵ	К	L	М	N	0	Р	Q	R	S	T U
541 243371 05S SIDE	138 243380 05STDBKR	138 1	243371 05S SIDE	243380	05STDBKR	1	138	205 AEP	251	335	Base Case	0	88.3		35.16	0	0.06%	0.06%	0.04%
542 239043 02PINE	138 239160 02WADS	138 1	239043 02PINE	239160	02WADS	1	138	202 ATSI	233	282	Base Case	0	-81.9	-	35.15	0	-0.04%	-0.04%	0.04%
543 246407 05CABIN CRK	138 246423 05CABNC9 XFL	138 Z2	246407 05CABIN CRK2	246423	05CABNC9 XFL	Z2	138	205 AEP	113	136	Base Case	0	39.7	-	35.13	0	0.00%	0.00%	0.01%
544 242566 05BROADF	138 242600 05CLAYPL	138 1	242566 05BROADF	242600	05CLAYPL	1	138	205 AEP	296	296	Base Case	0	103.9	-	35.09	0	0.06%	0.06%	0.19%
545 249996 08CLRMT1	138 250100 08SMRSD1	138 1	249996 08CLRMT1	250100	08SMRSD1	1	138	212 DEO&K	302	302	Base Case	0	105.9	-	35.06	0	0.03%	0.03%	0.03%
546 243293 05FTSHER	138 246051 05DEEB CBK2	138 1	243293 05FTSHER	246051	05DEEB CBK2	1	138	205 AEP	251	335	Base Case	0	88	-	35.06	0	-0.07%	-0.07%	-0.05%
547 243519 05HALLED	138 247896 05BOLTON	138 1	243519 05HALLED	247896	05BOLTON	1	138	205 AEP	223	223	Base Case	0	-78 1	_	35.04	0	-0.07%	-0.07%	0.00%
548 243319 05.TAX	138 247837 05PEPCH	138 1	243319 05 TAY	247837	05PERCH	1	138	205 AEP	409	409	Base Case	0	=143.2	_	35 01	0	-0.05%	-0.05%	0.03%
540 239590 030RT	130 239652 02DARRON	130 1	239590 0200AT	239652	02DARROW	1	130	202 ADD	200	242	Base Case	0	70		35.01	0	0.03%	0.03%	0.03%
550 238823 02 TACKEN	130 230032 02DARROW	120 1	230300 02BRADI	230032	02DARROW	1	120	202 AISI	200	292	Base Case	0	07.3		35.01	0	0.64%	0.64%	0.12%
550 2388855 025ACKSN	130 230342 UZMAFLE	130 1	230633 020ACKSN	230342	02MAPLE	1	130	202 AISI	140	151	Base Case	0	51.3		34 00	0	0.04%	0.04%	0.12%
551 238358 02CADQ18	130 253062 000WDD10	130 1	258556 02CADQ18	230742	02FWLSQ4	1	130	202 AISI	140	131	base case	0	-31.0		34.99	0	-0.01%	-0.01%	0.00%
552 253030 09MONOM2	136 253065 090VERL2	130 1	253030 09MON0M2	233063	OSD DIKUDDE	1	130	209 DAI	221	EAA	Base Case	0	-77.5	_	34.97	0	0.00%	0.00%	0.01%
555 243220 USE.ELKHART	345 243287 05E.ELKHART	138 2	243220 05E.ELKHART	243287	USE.ELKHART	2	345/138	205 AEP	495	544	Base Case	0	1/3.1	-	34.97	0	0.08%	0.08%	0.05%
554 238541 UZAS Q-1	138 238645 02CW TP1	138 1	238541 02AS Q-1	238645	02CW TPI	1	138	202 ATS1	265	316	Base Case	0	-92.5	-	34.92	0	-0.26%	-0.26%	-0.03%
555 238648 02CY Q-2	138 238740 02FWLSQ2	138 1	238648 02CY Q-2	238740	02FWLSQ2	1	138	202 ATSI	176	229	Base Case	0	61.4	-	34.91	0	-0.28%	-0.28%	-0.03%
556 243092 05SCANTO	138 243132 05TORREY1	138 1	243092 05SCANTO	243132	05TORREY1	1	138	205 AEP	366	416	Base Case	0	127.7	-	34.89	0	-0.05%	-0.05%	0.09%
557 242684 05J.FERR	138 242685 05J.FERX	138 ZB	242684 05J.FERR	242685	05J.FERX	ZB	138	205 AEP	358	421	Base Case	0	124.7	-	34.84	0	-0.10%	-0.10%	-0.16%
558 242605 05CLNCHR	138 324316 4VIRGINIA CI	138 1	242605 05CLNCHR	324316	4VIRGINIA CI	1	138	205/363 AEP/LGEE	187	237	Base Case	0	65.1	-	34.82	0	0.04%	0.04%	0.05%
559 238573 02BELEVU	138 239236 02TOLHOS	138 1	238573 02BELEVU	239236	02TOLHOS	1	138	202 ATSI	216	264	Base Case	0	-75.2	-	34.8	0	0.04%	0.04%	-0.01%
560 243469 05BEATTY	138 243593 05ZUBER	138 1	243469 05BEATTY	243593	05ZUBER	1	138	205 AEP	150	212	Base Case	0	52.2	-	34.8	0	-0.05%	-0.05%	-0.13%
561 242956 05BALLHL	138 242977 05CALDWE	138 1	242956 05BALLHL	242977	05CALDWE	1	138	205 AEP	205	284	Base Case	0	-71.3	-	34.8	0	-0.18%	-0.18%	0.05%
562 250032 08FRFLD1	138 250070 08MRGAN1	138 1	250032 08FRFLD1	250070	08MRGAN1	1	138	212 DEO&K	194	194	Base Case	0	-67.3	-	34.68	0	-0.03%	-0.03%	0.01%
563 238642 02CRSLND	138 239107 02SHNAGO	138 2	238642 02CRSLND	239107	02SHNAGO	2	138	202 ATSI	215	215	Base Case	0	-74.6	-	34.68	0	0.03%	0.03%	-0.02%
564 249985 08BECKET	138 250105 08TDHNTR	138 1	249985 08BECKET	250105	08TDHNTR	1	138	212 DEO&K	299	299	Base Case	0	-103.4	-	34.6	0	-0.02%	-0.02%	-0.06%
565 242989 05E LIMA	138 245516 05ROCKHILL2	138 1	242989 05E LIMA	245516	05ROCKHILL2	1	138	205 AEP	150	204	Base Case	0	51.9	-	34.58	0	0.01%	0.01%	-0.04%
566 239106 02SHNAGO	345 239107 02SHNAGO	138 1	239106 02SHNAGO	239107	02SHNAGO	1	345/138	202 ATSI	548	688	Base Case	0	189.4	-	34.55	0	-0.32%	-0.32%	-0.04%
567 243007 05FRAZEY	138 243079 05REFORM	138 1	243007 05FRAZEY	243079	05REFORM	1	138	205 AEP	287	337	Base Case	0	99.2	-	34.55	0	0.09%	0.09%	-0.03%
568 250020 08ESTWD1	138 250141 08SCEAST	138 1	250020 08ESTWD1	250141	08SCEAST	1	138	212 DEO&K	301	301	Base Case	0	-103.9	-	34.53	0	0.00%	0.00%	-0.01%
569 243024 05HOWARD	138 243039 05MELMOR	138 1	243024 05HOWARD	243039	05MELMOR	1	138	205 AEP	136	167	Base Case	0	-46.9	-	34.5	0	-0.12%	-0.12%	-0.09%
570 243287 05E.ELKHART	138 243290 05ELCONZ	138 1	243287 05E.ELKHART	243290	0.5ELCONZ	1	138	205 AEP	251	251	Base Case	0	86.4	-	34.42	0	-0.02%	-0.02%	-0.01%
571 239122 02STAR	345 239123 02STAR	138 1	239122 02STAR	239123	02STAR	1	345/138	202 ATST	458	552	Base Case	0	157.5	-	34 4	0	0.00%	0.00%	-0.02%
572 239237 02CLVR-S	138 242980 05CANTNC	138 1	239237 02CLVR-S	242980	05CANTNC	1	138	202/205 ATST/AEP	161	194	Base Case	0	-55 3	_	34 38	0	0.22%	0.22%	0.00%
573 243097 05SECANT	138 243120 0551INNYSTDE1	138 1	243097 05SECANT	243120	05SUNNYSTDE1	1	138	205 AFP	296	392	Base Case	0	101 7	-	34 36	0	0.04%	0.04%	0.00%
574 242814 050T ATP	130 246392 0550001515E1	130 1	242014 0500 ATP	216303	OSTUDNED DD	1	130	205 AEF	271	361	Base Case	0	_02 1	-	34.30	0	-0.01%	-0.01%	-0.19%
575 242614 0351.ALB	130 240502 USTURNER_BP	120 1	242014 0351.ALB	240302	OFFORC	1	120	205 AEP	271	210	Base Case	0	-93.1		24.24	0	-0.01%	-0.01%	-0.19%
575 243549 05MULBRI	138 243562 05R055	138 1	243549 05M0LBR1	243362	OSRUSS	1	138	205 AEP	223	310	Base Case	0	76.5		34.32	0	-0.08%	-0.08%	0.07%
576 238695 02ELW+	138 238706 02E0 TAP	138 1	238695 02ELW+	238706	UZEU TAP	1	138	202 ATS1	160	192	Base Case	0	-54.9	-	34.3	0	0.00%	0.00%	0.00%
577 238753 02GFQ-11	138 238792 02HDGQ11	138 1	238753 02GFQ-11	238792	02HDGQII	1	138	202 ATS1	399	488	Base Case	0	-136.8	-	34.3	0	0.01%	0.01%	0.02%
578 239106 02SHNAGO	345 239107 02SHNAGO	138 2	239106 02SHNAGO	239107	02SHNAGO	2	345/138	202 ATSI	548	659	Base Case	0	187.8	-	34.27	0	-0.32%	-0.32%	-0.04%
579 239093 02SAMMIS	138 239372 02HAGAN	138 1	239093 02SAMMIS	239372	UZHAGAN	1	138	202 ATSI	185	189	Base Case	0	63.4	-	34.26	0	0.13%	0.13%	0.00%
580 238961 02MIDWAY	345 238962 02MIDWAY	138 3	238961 02MIDWAY	238962	02MIDWAY	3	345/138	202 ATSI	417	504	Base Case	0	142.7	-	34.22	0	0.03%	0.03%	0.01%
581 238956 02MFLDQ1	138 239045 02PN Q-1	138 1	238956 02MFLDQ1	239045	02PN Q-1	1	138	202 ATSI	115	115	Base Case	0	-39.3	-	34.22	0	0.13%	0.13%	-0.04%
582 253079 09SUGRCK	345 253078 09SUGRCK	138 1	253079 09SUGRCK	253078	09SUGRCK	1	345/138	209 DAY	450	498	Base Case	0	153.9	-	34.2	0	0.02%	0.02%	0.05%
583 242544 05AXTON	138 242816 05STOCKT	138 1	242544 05AXTON	242816	05STOCKT	1	138	205 AEP	283	396	Base Case	0	96.7	-	34.19	0	-0.03%	-0.03%	0.25%
584 243317 05IRELAN	138 243318 05JACKSON RD	138 1	243317 05IRELAN	243318	05JACKSON RD	1	138	205 AEP	219	251	Base Case	0	-74.9	-	34.19	0	-0.05%	-0.05%	-0.03%
585 249980 08AGSTNE	138 250133 08WLDER2	138 1	249980 08AGSTNE	250133	08WLDER2	1	138	212 DEO&K	291	291	Base Case	0	-99.5	-	34.18	0	0.04%	0.04%	0.04%
586 242748 05PENHOK	138 243951 05REDWOOD	138 1	242748 05PENHOK	243951	05REDWOOD	1	138	205 AEP	296	392	Base Case	0	101.2	-	34.18	0	0.00%	0.00%	0.39%
587 242858 05WYTHE1	138 242859 05WYTHE2	138 Z1	242858 05WYTHE1	242859	05WYTHE2	Z1	138	205 AEP	285	337	Base Case	0	-97.3	-	34.13	0	-0.11%	-0.11%	-0.06%
588 246927 05SAND H	138 246945 05BIGR1Z	138 1	246927 05SAND H	246945	05BIGR1Z	1	138	205 AEP	205	205	Base Case	0	-69.8	-	34.04	0	-0.18%	-0.18%	0.05%
589 250012 08DERPK2	138 250114 08TP7481	138 1	250012 08DERPK2	250114	08TP7481	1	138	212 DEO&K	266	266	Base Case	0	-90.5		34.03	0	0.00%	0.00%	0.00%
590 243070 050HIOCT	138 243094 05SCOSHC	138 1	243070 050HIOCT	243094	05SCOSHC	1	138	205 AEP	185	240	Base Case	0	62.9	-	34.01	0	-0.34%	-0.34%	0.01%
591 243498 05DLAWAR2	138 253021 09DARBY	138 1	243498 05DLAWAR2	253021	09DARBY	1	138	205/209 AEP/DAY	196	220	Base Case	0	66.6	-	34	0	0.12%	0.12%	0.04%
592 249574 08TDHNTR	345 249576 08WODSDL	345 1	249574 08TDHNTR	249576	08WODSDL	1	345	212 DE0&K	1509	1509	Base Case	0	-513	-	33.99	0	-0.33%	-0.33%	-0.27%
593 249574 08TDHNTR	345 249576 08WODSDL	345 2	249574 08TDHNTR	249576	08WODSDL	2	345	212 DE0&K	1509	1509	Base Case	0	-513		33.99	0	-0.33%	-0.33%	-0.27%
594 239370 02DOWLING	345 239371 02DOWLING	138 1	239370 02DOWLING	239371	02DOWLING	1	345/138	202 ATST	386	436	Base Case	0	131.1	_	33.96	0	0.01%	0.01%	0.02%
595 243160 05WTRNWY	138 246941 05MTLL2Z	138 1	243160 05WTRNWY	246941	05MTLL2Z	1	138	205 AEP	205	205	Base Case	0	69.6	_	33.95	0	0.05%	0.05%	0.05%
596 242768 05RTDCWY	138 242769 05RTDGWY	138 58	242768 05RTDGWY	242760	05RIDGWY	SR	130	205 AEP	121	121	Base Case	0	-41 1	_	32 92	0	0.00%	0.00%	0.32%
597 242944 05SECANT	345 243097 059ECANT	138 1	242944 058FCANT	242007	05SECANT	1	345/139	205 AEP	606	747	Base Case	0	236 1		33 00	0	0.12%	0.13%	0.00%
598 238563 02DAV CT	345 241001 021ATTENDORE	345 2	238563 0287V CH	241001	02LALLENDORE	1	313/130 315/130	202 202	1/20	177/	Base Case	0	=497 0		33.33	0	-0.20%	-0.80%	-0.07%
500 230303 UZBAI SH	139 246027 0503ND U	120 1	242995 050MUT N	241901	050AND U	1	120	202 AIDI	210	21/4	Page Case	0	-401.0		22.9	0	-0.00%	0.01%	0.09%
500 040767 05575005	130 240927 USSAND H	120 25	242985 USUNTILN	240927	OSAND H		138	205 AEP	219	200	Dase case	0	14.2		33.9	0	0.01%	0.01%	0.09%
000 242/6/ 05RIDGWA	138 242768 05RIDGWX	138 SR	242/6/U5RIDGWA	242768	USRIDGŴX	SR	138	205 AEP	121	121	Base Case	0	-41	-	33.89	0	0.00%	0.00%	0.32%

			A		B C	D	E	F	G	Н	L	J	K L	М	N	0	Р	Q	R	S	T U	
601	1 239726 02LAKEAVE	138	239728 02BLKRVR	138 1	239726 02LAKEAVE	239728	02BLKRVR	1	138	8 202	ATSI	328	396 Base Case	0	111.1		33.87	0	-0.17%	-0.17%	-0.02%	
602	2 242524 05CLOVRD	345	242607 05CLOVRD	138 1B	242524 05CLOVRD	242607	05CLOVRD	1B	345/138	205	AEP	410	527 Base Case	0	138.8	-	33.86	0	0.14%	0.14%	-0.27%	
603	238879 02LB 013	138	238935 02LYO-13	138 1	238879 02LB 013	238935	02T.YO-13	1	13	8 202	ATST	148	151 Base Case	0	50.1	-	33.86	0	0.01%	0.01%	0.00%	
604	1 243531 05KIMBBY	138	244198 05LEMASTER	138 1	243531 05KTMBBY	244198	05LEMASTER	1	13	8 205	AEP	223	223 Base Case	0	-75 5	-	33 84	0	-0.03%	-0.03%	0.09%	-
60	242954 05APPLEC	138	242978 05CANALR	138 1	242954 053PPLEC	242978	05CANALR	1	139	8 205	AFP	205	205 Base Case	0	69 3	-	33.83	0	0.12%	0.12%	-0.01%	\neg
606	242334 05ATT LLC	139	245949 05MTTIPD DK2	138 1	242554 05ATTELC	242570	05MTLIED DK2	1	13	8 205	AFD	195	185 Base Case	0	-62 5	-	33.05	0	0.12%	0.22%	0.25%	-
607	245102 0551NK 5F055	120	250140 08DAVTON	120 1	243102 0331NR 31033	240040	OSPITEBON PRZ		120	0 203	DEOCK	200	209 Page Case	0	100 6		22.76	0	-0.01%	-0.01%	0.00%	-
600	230033 08LAFARG	130	242827 050ATTON	130 1	230033 08LAFARG	230140	OFFREE		1.00	0 212	DEDAN	2.30	250 Base Case	0	100.0		33.70	0	-0.01%	-0.01/0	0.00%	-
600	242571 USBOCKHU	100	242827 USTALEWE	130 1	242571 03B0CKH0	242027	031AZEWE		. 100	0 205	AEP	120	201 Base Case	0	-04.7	_	22.75	0	-0.13%	-0.13%	-0.20%	-
003	238578 02BORDMN	100	239107 025HNAGO	100 1	238378 02BORDMIN	259107	025HNAGO		100	0 202	AISI	150	100 Base Case	0	-43.9	_	33.75	0	0.08%	0.06%	-0.04%	-
610	J 242950 USACADEM	138	246941 USMILL2Z	138 1	242950 USACADEM	246941	USMILLZZ		130	8 205	AEP	205	205 Base Case	0	-69.2	-	33.73	0	0.05%	0.05%	0.05%	
01	243557 USRENO Z	138	247809 USLEVEE	138 1	243557 USRENU 2	24/809	USLEVEE		. 130	8 205	AEP	282	282 Base Case	U	95.1	-	33.72	0	0.27%	0.27%	0.20%	_
614	2 242565 05BRADL2	138	242695 05KINCAI	138 1	242565 05BRADL2	242695	05KINCAI	1	. 138	8 205	AEP	205	255 Base Case	0	-69.1	-	33.7	0	-0.08%	-0.08%	-0.24%	
61:	3 242732 05NBRSTL	138	242851 05WOLFH2	138 1	242732 05NBRSTL	242851	05WOLFH2	1	. 138	8 205	AEP	251	330 Base Case	0	-84.6	-	33.7	0	-0.05%	-0.05%	-0.19%	_
614	4 243459 05KIRK	345	243532 05KIRK	138 5	243459 05KIRK	243532	05KIRK	e,	345/138	205	AEP	675	675 Base Case	0	227.5	-	33.7	0	-0.09%	-0.09%	0.04%	
615	238547 02AT	345	239082 02S8-ATT	345 1	238547 02AT	239082	02S8-ATT	1	. 34	5 202	ATSI	733	828 Base Case	0	246.8	-	33.67	0	0.65%	0.65%	-0.12%	
616	5 238879 02LB Q13	138	238950 02MBQ-13	138 1	238879 02LB Q13	238950	02MBQ-13	1	. 138	8 202	ATSI	324	395 Base Case	0	-109	-	33.64	0	0.01%	0.01%	0.00%	
617	7 242929 05NPROCT	765	243064 05NPROCT	138 2	242929 05NPROCT	243064	05NPROCT	2	2 765/138	205	AEP	917	996 Base Case	0	308.2	-	33.61	0	0.07%	0.07%	0.08%	
618	3 250055 08LTERL7	138	250093 08REDBK2	138 1	250055 08LTERL7	250093	08REDBK2	1	138	8 212	DEO&K	264	264 Base Case	0	-88.7	-	33.6	0	0.02%	0.02%	0.01%	
619	238913 02LRCRQ2	138	240352 02PM2Q11	138 1	238913 02LRCRQ2	240352	02PM2Q11	1	. 138	8 202	ATSI	273	332 Base Case	0	91.7	-	33.58	0	0.08%	0.08%	-0.02%	
620	243063 05N.NEWARK1	138	243098 05SHARPR	138 1	243063 05N.NEWARK1	243098	05SHARPR	1	138	8 205	AEP	158	183 Base Case	0	53	-	33.57	0	0.04%	0.04%	0.09%	
621	1 238634 02COMERC	138	239306 02REPUBLICSM	138 1	238634 02COMERC	239306	02REPUBLICSM	1	. 138	8 202	ATSI	152	185 Base Case	0	51	-	33.57	0	0.11%	0.11%	-0.08%	
622	2 239045 02PN Q-1	138	239112 02LRCRQ1	138 1	239045 02PN Q-1	239112	02LRCRQ1	1	138	8 202	ATSI	160	192 Base Case	0	-53.7	-	33.57	0	0.13%	0.13%	-0.04%	
623	3 238782 02HANNA	138	239101 02SHALER	138 1	238782 02HANNA	239101	02SHALER	1	138	8 202	ATSI	260	309 Base Case	0	87.1	-	33.51	0	0.02%	0.02%	0.01%	
624	4 243551 050SU	138	246907 05W.CAMPUS	138 1	243551 050SU	246907	05W.CAMPUS	1	. 138	8 205	AEP	323	397 Base Case	0	-108.2	-	33.51	0	-0.01%	-0.01%	-0.02%	
625	243220 05E.ELKHART	345	255105 17HIPLE	345 1	243220 05E.ELKHART	255105	17HIPLE	1	. 345	5 205/217	AEP/NIPS	1409	1409 Base Case	0	471.7	22	33.48	0	-0.56%	-0.56%	-0.47%	
626	5 242644 05FREM01	138	242645 05FREMO2	138 Z1	242644 05FREM01	242645	05FREMO2	Z1	138	8 205	AEP	335	392 Base Case	0	112.1		33.46	0	0.02%	0.02%	0.18%	
627	7 242927 05MARQUI	765	242938 05MARQUI	345 1	242927 05MARQUI	242938	05MARQUI	1	765/345	205	AEP	2742	3097 Base Case	0	917.4	-	33.46	0	0.80%	0.80%	2.40%	
628	3 238772 02GTO-12	138	239222 02CHSTL	138 1	238772 02GTO-12	239222	02CHSTL	J	138	8 202	ATSI	278	339 Base Case	0	93	-	33.45	0	0.00%	0.00%	0.00%	_
629	239008 02NTLES	138	239120 02SSPBNG	138 2	239008 02NTLES	239120	02SSPRNG		13	8 202	ATST	225	295 Base Case	0	75.2		33.42	0	-0.13%	-0.13%	-0.01%	-
630	242937 05KAMMER	345	243026 05KAMMER13	138 32	242937 05KAMMEB	243026	05KAMMER13	32	345/138	205	AEP	747	747 Base Case	0	249.5	-	33.4	0	-0.19%	-0.19%	0.30%	-
631	1 238797 02HGHLND	138	238939 02MAHNGS	138 1	238797 02HCHLND	238939	02MAHNGS	1	13	8 202	ATST	200	223 Base Case	0	66.8	-	33 39	0	-0.02%	-0.02%	0.00%	-
632	239269 02RTCHL	138	242993 05E LEIPSTC2	138 1	239269 02BTCHLT	242993	05E LEIPSIC2	1	130	8 202/205	ATST/AEP	223	223 Base Case	0	74 4	_	33 37	0	-0.07%	-0.07%	-0.11%	
633	239289 02HICHES	345	239290 02HAVES	138 1	239289 02HAVES	239290	02HAVES	1	345/138	202/203	ATST	393	A93 Base Case	0	131 1	-	33.36	0	0.13%	0.13%	0.01%	-
63/	1 242774 05BOANO2	130	246991 050UNCCA	130 1	242774 05POANO2	216091	05clineca	1	120	202	AFD	167	245 Page Case	0	55.6	_	33.30	0	0.15%	0.15%	0.36%	-
625	242774 USROANO2	120	240901 UJSUNSCA	120 1	242774 05ROANO2	240901	0550NSCA		120	0 205	AEP	251	245 Base Case	0	02 6		22.21	0	0.03%	0.03%	0.01%	-
620	244185 USLAFAI C 55	130	244465 05F0GWELL	130 1	244165 USLAFAI C 55	244403	OFFRERE		1.00	0 205	AEF	1.67	335 Base Case	0	03.0 EE C		33.3	0	-0.02%	-0.02/0	0.01%	-
630	243039 USNFINDL	130	247172 USEBERSU	130 1	243039 05NFINDL	24/1/2	OSEBERSO		245/120	0 205	AEP	107	245 Base Case	0	-33.0	_	33.29	0	0.11%	0.11%	-0.07%	-
620	242949 USWMILLP	345	243150 USWMILLP	138 1	242949 05WMILLP	243150	05WMILLP	1	. 345/138	205	AEP	495	051 Base Case	0	164.7	-	33.28	0	0.01%	0.01%	0.04%	_
038	243064 USNPROCT	138	243004 USE.HUNTING1	138 1	243064 USNPROCT	245664	USE.HUNTINGI		138	8 205	AEP	219	201 Base Case	0	12.8		33.25	0	-0.01%	-0.01%	-0.03%	_
635	238941 02MANSFD	345	253902 15BVRVAL	345 2	238941 U2MANSFD	253902	15BVRVAL	2	34	5 202/215	ATSI/DLCO	1486	1/39 Base Case	0	-493.8	-	33.23	0	-0.1/%	-0.1/%	0.1/%	_
640	J 238841 02JNPRQ2	138	239002 02NFLDQ2	138 1	238841 02JNPRQ2	239002	U2NFLDQ2	1	. 138	8 202	ATSI	273	332 Base Case	0	90.7	-	33.23	0	-0.15%	-0.15%	0.04%	
64	239018 02FULTON	345	238738 02FULTON	138 1	239018 02FULTON	238738	UZFULTON	1	. 345/138	202	ATSI	346	392 Base Case	0	114.9	-	33.21	0	0.03%	0.03%	0.01%	
642	2 243078 05REEDUR	138	246471 O5MILES AVE	138 1	243078 05REEDUR	246471	USMILES AVE		. 138	8 205	AEP	251	335 Base Case	0	83.3		33.18	0	-0.08%	-0.08%	0.05%	
643	243034 05MARQUI	138	243140 05WAKEFL	138 1	243034 05MARQUI	243140	05WAKEFL	1	. 138	8 205	AEP	219	223 Base Case	0	72.7	-	33.18	0	0.00%	0.00%	-0.07%	
644	4 242989 05E LIMA	138	246155 05FORD LIMA2	138 1	242989 05E LIMA	246155	05FORD LIMA2	1	138	8 205	AEP	167	240 Base Case	0	55.4	-	33.17	0	0.01%	0.01%	-0.03%	
645	250082 08P.UN1	138	250157 08CORNTP	138 1	250082 08P.UN1	250157	08CORNTP	1	. 138	8 212	DEO&K	198	198 Base Case	0	65.6	-	33.13	0	-0.02%	-0.02%	-0.03%	
646	5 242517 05WYOMIN	765	242857 05WYOMX2	138 2	242517 05WYOMIN	242857	05WYOMX2	2	2 765/138	205	AEP	792	855 Base Case	0	262.3	-	33.12	0	0.05%	0.05%	0.07%	
647	242517 05WYOMIN	765	242856 05WYOMX1	138 1	242517 05WYOMIN	242856	05WYOMX1	1	765/138	205	AEP	792	855 Base Case	0	262.3	-	33.12	0	0.05%	0.05%	0.07%	
648	3 243491 05CORRID	138	243510 05GAHANN	138 1	243491 05CORRID	243510	05GAHANN	1	138	8 205	AEP	335	392 Base Case	0	110.9	-	33.1	0	0.02%	0.02%	0.00%	
649	243132 05TORREY1	138	245697 05TORREY2	138 Z1	243132 05TORREY1	245697	05TORREY2	Z1	138	8 205	AEP	219	255 Base Case	0	72.4	-	33.05	0	-0.03%	-0.03%	0.08%	
650	253090 09WMILTN	345	253089 09WMILTN	138 1	253090 09WMILTN	253089	09WMILTN	1	345/138	209	DAY	450	495 Base Case	0	148.6	-	33.02	0	0.00%	0.00%	0.03%	
651	1 253090 09WMILTN	345	253089 09WMILTN	138 2	253090 09WMILTN	253089	09WMILTN	2	345/138	209	DAY	450	495 Base Case	0	148.6	-	33.02	0	0.00%	0.00%	0.03%	
652	2 242937 05KAMMER	345	246108 05KAMMER24	138 33	242937 05KAMMER	246108	05KAMMER24	33	345/138	205	AEP	747	747 Base Case	0	246.5	-	33	0	-0.19%	-0.19%	0.30%	
653	3 238915 02LRN Q2	138	238918 02SLTRQ2	138 1	238915 02LRN Q2	238918	02SLTRQ2	1	138	8 202	ATSI	265	316 Base Case	0	87.3		32.93	0	-0.28%	-0.28%	-0.03%	
654	4 250082 08P.UN1	138	250096 08SEWARD	138 1	250082 08P.UN1	250096	08SEWARD	1	138	8 212	DEO&K	291	291 Base Case	0	95.6	-	32.86	0	0.01%	0.01%	0.00%	
655	5 238782 02HANNA	138	239178 02WRAVNA	138 2	238782 02HANNA	239178	02WRAVNA	2	138	8 202	ATSI	324	395 Base Case	0	106.3	-	32.82	0	0.05%	0.05%	-0.01%	
656	5 238952 02MCD +	138	239008 02NILES	138 1	238952 02MCD +	239008	02NILES	1	138	8 202	ATSI	196	228 Base Case	0	-64.3	-	32.79	0	0.04%	0.04%	0.00%	
657	7 243456 05CORRID	345	246752 05VASSEL	345 1	243456 05CORRID	246752	05VASSEL	1	. 34!	5 205	AEP	1245	1245 Base Case	0	-407.1	12	32.7	0	0.16%	0.16%	0.04%	
658	3 243315 05ILLINO	138	243316 05INDUST PK1	138 1	243315 05ILLINO	243316	05INDUST PK1	1	. 138	8 205	AEP	251	335 Base Case	0	82.1	-	32.7	0	-0.02%	-0.02%	0.03%	
659	242960 05BETHLM	138	242969 05BRUES2	138 1	242960 05BETHLM	242969	05BRUES2	1	. 138	8 205	AEP	329	361 Base Case	0	-107.5	-	32.67	0	0.01%	0.01%	0.09%	
660	242956 05BALLHL	138	244095 05SUMMRFD BP	138 1	242956 05BALLHL	244095	05SUMMRFD BP	1	. 138	8 205	AEP	205	284 Base Case	0	67	-	32.67	0	-0.18%	-0.18%	0.05%	
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	А		B C	D	E	F	G	н і	J	K	L	М	N	0	Р	Q	R	S	ΤU
661 238914 02LRCRQ3	138 239039 02PGTP11	138 1	238914 02LRCRQ3	239039	02PGTP11		1 138	202 ATSI	148	151	Base Case	0	48.3	2	32.64	0	0.12%	0.12%	-0.03%
662 238878 02LB Q12	138 240252 02LMQ-12	138 1	238878 02LB 012	240252	02LMQ-12		1 138	202 ATSI	148	151	Base Case	0	48.3	-	32.63	0	0.01%	0.01%	0.00%
663 242949 05WMILLP	345 243150 05WMILLP	138 2	242949 05WMILLP	243150	05WMILLP		2 345/138	205 AEP	500	540	Base Case	0	163.1	-	32,63	0	0.01%	0.01%	0.04%
664 243105 05SMTLLB	138 243151 05WMTLLS	138 1	243105 05SMTLLB	243151	05WMTLLS		1 138	205 AEP	185	243	Base Case	0	60.3	-	32.62	0	-0.27%	-0.27%	0.04%
665 249996 08CLBMT1	138 249997 08CLBMT2	138 21	249996 08CLBMT1	249997	08CLBMT2	21	138	212 DEO&K	394	394	Base Case	0	-128 4	-	32 6	0	0.03%	0.03%	0.03%
666 238581 028887M	138 239123 020TAD	138 2	239591 02808000	230123	020010112		2 139	202 ATET	208	256	Base Case	0	-67.7	-	32.56	0	-0.04%	-0.04%	0.00%
667 238581 02BRBRIN	130 239123 UZSTAR	130 2	230301 02BRBRIN	239123	OODTUTON		1 130	202 A151	170	200	Base Case	0	-07.7		32.30	0	-0.04%	-0.04%	0.00%
667 238636 02CPPW41	138 238660 02DIVISN	130 1	238636 02CPPW41	230000	OZDIVISN		1 130	202 AISI	170	193	Base Case	0	55.5	-	32.55	0	-0.22%	-0.22%	-0.01%
666 243064 USNPROCT	138 243675 USBELLFI	138 1	243064 05NPROCT	243675	ODRETTLI		1 138	205 AEP	136	107	Base Case	0	44.2	-	32.53	0	0.05%	0.05%	0.03%
669 238563 02BAY SH	345 241901 02LALLENDORF	345 1	238563 02BAY SH	241901	02LALLENDORF		1 345	202 ATSI	1486	1824	Base Case	0	-483	-	32.5	0	-0.79%	-0.79%	-0.06%
670 242528 05SPORN	345 242940 05MUSKNG	345 1	242528 05SPORN	242940	05MUSKNG		1 345	205 AEP	1188	1539	Base Case	0	386.1	-	32.5	0	-0.81%	-0.81%	1.11%
6/1 244095 05SUMMRFD_BP	138 247757 05HERLAN SW	138 1	244095 05SUMMRFD_BP	247757	05HERLAN SW		1 138	205 AEP	205	284	Base Case	0	66.6	-	32.49	0	-0.18%	-0.18%	0.05%
672 242843 05WLAKE	138 243951 05REDWOOD	138 1	242843 05WLAKE	243951	05REDWOOD		1 138	205 AEP	296	392	Base Case	0	-96.1	-	32.48	0	0.00%	0.00%	0.39%
673 247130 05HOLLOW	345 247849 05HOLLOW_XFL	138 1	247130 05HOLLOW	247849	05HOLLOW_XFL		1 345/138	205 AEP	680	881	Base Case	0	220.7	-	32.46	0	0.04%	0.04%	-0.06%
674 250029 08FOSTER	138 250119 08TWYMI1	138 1	250029 08FOSTER	250119	08TWYMI1		1 138	212 DEO&K	298	298	Base Case	0	96.7	-	32.45	0	0.05%	0.05%	0.03%
675 243068 05NZANEV	138 243075 05POWELS	138 1	243068 05NZANEV	243075	05POWELS		1 138	205 AEP	205	284	Base Case	0	-66.5	-	32.42	0	-0.06%	-0.06%	-0.06%
676 242528 05SPORN	345 242808 05SPORNS	138 4	242528 05SPORN	242808	05SPORNS		4 345/138	205 AEP	545	611	Base Case	0	176.3	-	32.35	0	0.07%	0.07%	0.00%
677 243856 05JUG ST 1-6	138 246385 05JUGST 7-11	138 Z1	243856 05JUG ST 1-6	246385	05JUGST 7-11	Z1	138	205 AEP	548	601	Base Case	0	177.3	-	32.35	0	0.00%	0.00%	0.00%
678 239237 02CLVR-S	138 239341 02LEGEND	138 1	239237 02CLVR-S	239341	02LEGEND		1 138	202 ATSI	200	242	Base Case	0	-64.6	-	32.3	0	0.25%	0.25%	0.04%
679 243774 050RMET	138 246108 05KAMMER24	138 1	243774 050RMET	246108	05KAMMER24		1 138	205 AEP	296	398	Base Case	0	95.5	-	32.28	0	-0.06%	-0.06%	-0.06%
680 243774 050RMET	138 246108 05KAMMER24	138 4	243774 050RMET	246108	05KAMMER24		4 138	205 AEP	296	296	Base Case	0	95.5	-	32.28	0	-0.06%	-0.06%	-0.06%
681 243774 050RMET	138 246108 05KAMMER24	138 3	243774 050RMET	246108	05KAMMER24		3 138	205 AEP	296	296	Base Case	0	95.5	-	32.28	0	-0.06%	-0.06%	-0.06%
682 243774 050RMET	138 246108 05KAMMER24	138 2	243774 050RMET	246108	05KAMMER24		2 138	205 AEP	296	398	Base Case	0	95.5	-	32.28	0	-0.06%	-0.06%	-0.06%
683 238934 02LYQ-12	138 240252 02LMQ-12	138 1	238934 02LYQ-12	240252	02LMQ-12	3	1 138	202 ATSI	103	132	Base Case	0	-33.2	-	32.25	0	0.01%	0.01%	0.00%
684 239726 02LAKEAVE	138 239728 02BLKRVR	138 2	239726 02LAKEAVE	239728	02BLKRVR		2 138	202 ATSI	312	380	Base Case	0	100.6	-	32.24	0	-0.15%	-0.15%	-0.02%
685 238796 02HGHLND	345 238797 02HGHLND	138 3	238796 02HGHLND	238797	02HGHLND		3 345/138	202 ATSI	532	597	Base Case	0	171.5		32.23	0	-0.02%	-0.02%	-0.04%
686 238794 02HDG013	138 238923 02LTE013	138 1	238794 02HDG013	238923	02LTE013		1 138	202 ATST	425	522	Base Case	0	136.9	-	32.21	0	0.01%	0.01%	0.00%
687 242564 05BBADL1	138 247333 05PAX BRANCH	138 1	242564 05BBADL1	247333	05PAX BRANCH		1 138	205 AEP	205	284	Base Case	0	-66	-	32.2	0	-0.09%	-0.09%	-0.24%
688 238797 02HGHLND	138 239120 0255PRNG	138 1	238797 02HGHLND	239120	02SSPRNG		1 138	202 101	277	337	Base Case	0	89.1	-	32 17	0	-0.15%	-0.15%	-0.01%
689 242762 05REEDCR	138 242798 05SHOPT	138 1	242762 05PEEDCP	242798	05SHOPT		1 138	205 AFP	205	205	Base Case	0	65.9	-	32.15	0	-0.01%	-0.01%	-0.05%
690 243031 051 VNN 7	139 242102 05CKENTO	130 1	243031 051 XNN 7	2/3103	05 SKENTO		1 130	205 AFR	164	190	Base Case	0	52.7	_	32.15	0	-0.10%	-0.10%	-0.03%
691 250027 OPELDNO1	130 245105 055KENTO	120 71	243031 0311NN 2	243103	OPEL DNC2	77.1	1 1 20	213 DEOCK	104	100	Base Case	0	-120.2		32.13	0	-0.10%	0.04%	0.07%
691 230027 08FLANCI	130 242711 0EMADEMN1	130 1	230027 00F LRNCI	230020	OF LRIVC2	41	1 120	212 DEO&R	400	404	Base Case	0	-130.2		32.07	0	0.04%	0.04%	0.07%
692 242544 USAKION	138 242/11 USMARINI	130 1	242344 USAXION	242/11	OSMARINI	an	1 130	205 AEP	203	390	Base Case	0	90.7	_	32.06	0	-0.04%	-0.04%	0.50%
693 243669 USB SAND	138 243678 USBSANDX	138 SR	243669 05B SAND	243678	05BSANDX	SR	1 245	205 AEP	335	370	Base Case	0	107.4	-	32.05	0	0.04%	0.04%	-0.08%
694 239122 UZSTAR	345 239353 UZHARMON	345 1	239122 U2STAR	239353	02HARMON	-	1 345	202 ATS1	1366	1693	Base Case	0	-437.6		32.03	0	-0.03%	-0.03%	0.80%
695 243469 05BEATTY	138 243588 05WILSON	138 1	243469 U5BEATTY	243588	05WILSON		1 138	205 AEP	223	223	Base Case	0	/1.3	-	31.99	0	-0.07%	-0.07%	0.00%
696 243522 05HARRISON	138 243550 050BETZ	138 1	243522 05HARRISON	243550	050BETZ		1 138	205 AEP	164	180	Base Case	0	52.5	-	31.99	0	-0.05%	-0.05%	0.06%
697 239008 02NILES	138 239299 02BRLAKE	138 1	239008 02NILES	239299	02BRLAKE	. S	1 138	202 ATSI	117	147	Base Case	0	37.4	-	31.98	0	0.10%	0.10%	-0.06%
698 253077 09STUART	345 253310 AC1-085 POI	345 1	253077 09STUART	253310	AC1-085 POI		1 345	209 DAY	1255	1374	Base Case	0	401.3		31.97	0	-0.07%	-0.07%	0.24%
699 239107 02SHNAGO	138 239934 02HEASLEY	138 1	239107 02SHNAGO	239934	02HEASLEY		1 138	202 ATSI	176	229	Base Case	0	56.2	-	31.95	0	-0.22%	-0.22%	0.00%
700 238574 02BELPT+	138 238964 02MLCRK+	138 1	238574 02BELPT+	238964	02MLCRK+		1 138	202 ATSI	160	192	Base Case	0	51.1	-	31.94	0	0.09%	0.09%	0.01%
701 238941 02MANSFD	345 253902 15BVRVAL	345 1	238941 02MANSFD	253902	15BVRVAL		1 345	202/215 ATSI/DLCO	1486	1739	Base Case	0	-474.4	-	31.92	0	-0.16%	-0.16%	0.16%
702 242665 05HANSON	138 242714 05MEADWV	138 1	242665 05HANSON	242714	05MEADWV		1 138	205 AEP	167	240	Base Case	0	53.3	-	31.92	0	-0.10%	-0.10%	-0.10%
703 239986 02NEWSTACY	138 246327 05NOTTINGH78	138 1	239986 02NEWSTACY	246327	05NOTTINGH78		1 138	202/205 ATSI/AEP	200	242	Base Case	0	-63.7	-	31.87	0	-0.13%	-0.13%	0.07%
704 238944 02MASURY	138 238948 02MAYSVL	138 1	238944 02MASURY	238948	02MAYSVL		1 138	202 ATSI	124	124	Base Case	0	39.5	-	31.86	0	-0.04%	-0.04%	0.00%
705 243019 05HILLSB	138 243102 05SINK SP8SS	138 1	243019 05HILLSB	243102	05SINK SP8SS		1 138	205 AEP	185	185	Base Case	0	-58.9	-	31.82	0	0.22%	0.22%	0.25%
706 243454 05BIXBY	345 246888 05BIERSR	345 1	243454 05BIXBY	246888	05BIERSR	3	1 345	205 AEP	1370	1503	Base Case	0	-435.7	-	31.8	0	-0.36%	-0.36%	0.63%
707 246606 05WETZEL SS	138 247002 05WAYMSS	138 1	246606 05WETZEL SS	247002	05WAYMSS		1 138	205 AEP	219	255	Base Case	0	-69.6	-	31.78	0	0.00%	0.00%	0.00%
708 238850 02JUNIPE	345 238841 02JNPRQ2	138 2	238850 02JUNIPE	238841	02JNPRQ2		2 345/138	202 ATSI	548	661	Base Case	0	174.1	-	31.77	0	0.02%	0.02%	0.05%
709 242697 05KUMIS	138 242708 05M FUNK	138 1	242697 05KUMIS	242708	05M FUNK		1 138	205 AEP	223	223	Base Case	0	-70.8	-	31.74	0	0.12%	0.12%	0.22%
710 239103 02SHARON	138 239934 02HEASLEY	138 1	239103 02SHARON	239934	02HEASLEY		1 138	202 ATSI	176	229	Base Case	0	-55.8	-	31.71	0	-0.01%	-0.01%	-0.01%
711 243232 05SORENS	345 243377 05SORENS	138 1	243232 05SORENS	243377	05SORENS		1 345/138	205 AEP	711	807	Base Case	0	225.3	_	31.69	0	0.04%	0.04%	0.02%
712 243518 05GROVES	138 246761 05THREEC	138 1	243518 05GROVES	246761	05THREEC		1 138	205 AEP	287	337	Base Case	0	-90.9	-	31.67	0	0.00%	0.00%	0.01%
713 242566 05BROADE	138 242567 05BROADX	138 ZB	242566 05BROADE	242567	05BROADX	ZB	138	205 AEP	348	407	Base Case	0	110.2	-	31.67	0	-0.19%	-0.19%	-0.33%
714 249988 088K.T135	138 250133 08WLDER2	138 1	249988 08BK.TI 35	250133	08WLDER2		1 138	212 DEOAK	186	186	Base Case	0	58 0	_	31 64	0	0.02%	0.02%	0.02%
715 242788 05SALTV1	138 246766 05FLKCAZ	138 1	242788 055at.TV1	246766	05ELKGAZ		1 130	205 AFP	446	100	Base Case	0	-141 1	_	31 62	0	-0 34%	-0 34%	-0.33%
716 238849 02.JRD014	138 239324 02CH	138 1	238849 02.TRD014	239304	0204	-	1 130	202 205	265	316	Base Case	0	-83 7	-	31 50	0	-0.13%	-0.13%	0.04%
717 238543 02549 2	138 239097 02000	138 1	238543 02384 2	239524	02CH		1 1 20	202 ATST	1.40	151	Baco Case	0	16 7		31 54	0	0.10%	0.10%	-0.02%
718 243228 05MEDIDM	345 243234 05mbith b	345 1	243228 05MEDIDN	20303/	OSTWIN P		1 3/1	202 AIGI	007	101	Base Case	0	-282 0		31 50	0	-0.50%	-0 50%	-0.42%
719 242527 053MOC	139 246392 0EMUDIED DD	120 1	243220 USMERTDN	243234	OSTIUDNED DE		1 120	205 AEP	206	200	Page Case	0	-202.0		31 53	0	-0.50%	-0.01%	-0.19%
730 242337 USAMUS	150 240302 USTUKNEK BP	130 L	242337 USAMUS	240382	ANT 102 DOT		1 245	200 AEP	1412	1740	Dase case	0	93.3		21.53	0	-0.01%	0.01%	0.15%
120 240069 UZLORDSTOWN	345 241936 AA1-123_POI	345 L	24006902LORDSTOWN	241936	AAI-123_POI		1 345	202 ATSI	1413	1743	Base Case	0	-445.3	-	31.51	0	0.23%	0.23%	0.21%

A	B C D	E	F	G	н	J	К	L	М	N	0 P	Q	R	S	T U
721 238654 02DAV-BE 345 239289 02HAYES 345 1	238654 02DAV-BE 239	289 02HAYES		1 345	202 ATSI	1542	1878	Base Case	0	485.9	- 31	51	0 -1.79	6 -1.79%	-0.27%
722 235379 01NVIENA 138 243564 05RIVERV N. 138 1	235379 01NVIENA 243	564 05RIVERV N.		1 1.38	201/205 AP/AEP	240	277	Base Case	0	75.6	- 3	.5	0 0.12	6 0.12%	0.07%
723 238968 02MOORE 138 239083 02SAKRON 138 1	238968 02MOORE 230	183 02SAKBON		1 138	202 ATST	225	282	Base Case	0	70.8	- 31	47	0 -0.10	6 -0.10%	0.10%
724 245407 05TANNER CK2 138 246963 05WESISS 138 1	245407 05TANNER CK2 244	963 05WESLSS		1 138	205 AFR	213	255	Base Case	0	67	- 31	45	0 0.00	6 0.00%	0.02%
725 243047 05N DOPT 139 243097 056 THCA 139 1	243047 05N POPT 243	197 058 THCA		1 130	205 AFR	195	195	Base Case	0	_59 1	- 31	12	0 0.00	4 0.00%	-0.07%
725 243047 05N FORT 150 245007 055 LOCA 150 1	243047 05N FOR1 24	109 OFFAMMED24	77	120	205 AEF	747	747	Base Case	0	-224 5	- 51	20	0.00	0.00%	-0.01%
720 243026 05KAMMERIS 136 246106 05KAMMER24 136 21	243026 05KAMMER15 246	LOO OSKAMMERZA	21	130	203 AEF	747	747.	Base Case	0	-234.5	- 51	39	0 -0.08	-0.08%	-0.01%
727 243026 05KAMMERIS 138 246108 05KAMMER24 138 2K	243026 05RAMMERIS 246	LUO USKAMMERZ4	2K	130	205 AEP	/4/	747	Base Case	0	-234.5	- 31	39	0 -0.08	-0.08%	-0.01%
720 243485 05CLINTO 138 243529 05KENNY 138 1	243485 05CLINTO 24	DZ9 USKENNY		1 138	205 AEP	217	310	Base Case	0	-08.1	- 31	38	0 -0.10	6 -0.10%	-0.05%
729 250003 08CRLISL 138 250121 08UNION 138 1	250003 08CRLISL 250	121 08UNION	-	1 138	212 DEO&K	291	298	Base Case	0	-91.3	- 31	38	0 0.00	6 0.00%	0.00%
/30 244658 05GRNTWN 138 249796 08MAPLE 138 1	244658 05GRNTWN 249	796 08MAPLE		1 138	205/208 AEP/DEI	178	178	Base Case	0	55.8	- 31	34	0 0.01	6 0.01%	-0.05%
/31 238893 02LF Q-2 138 239002 02NFLDQ2 138 1	238893 02LF Q-2 239	002 02NFLDQ2	1	1 138	202 ATSI	176	229	Base Case	0	-55.1	- 31	32	0 -0.15	6 -0.15%	0.04%
732 239008 02NILES 138 239120 02SSPRNG 138 1	239008 02NILES 239	120 02SSPRNG		1 138	202 ATSI	240	310	Base Case	0	75.1	- 31	28	0 -0.13	6 -0.13%	-0.01%
733 243484 05CITYCO 138 243584 05VINE 138 1	243484 05CITYCO 243	584 05VINE	1	1 138	205 AEP	251	274	Base Case	0	-78.4	- 31	25	0 0.00	6 0.00%	0.00%
734 246889 05BIERSR 138 246890 05HOPETN 138 1	246889 05BIERSR 246	890 05HOPETN	1	1 138	205 AEP	389	5591	Base Case	0	121.5	- 31	23	0 -0.01	6 -0.01%	0.00%
735 243263 05COLUMBIA 138 243361 05RABER 138 1	243263 05COLUMBIA 243	361 05RABER	1	1 138	205 AEP	136	167	Base Case	0	-42.5	- 31	22	0 0.07	6 0.07%	0.06%
736 242622 05DARRH2 138 242866 05MERRIT 138 1	242622 05DARRH2 242	866 05MERRIT		1 138	205 AEP	167	167	Base Case	0	52.1	- 31	22	0 -0.07	6 -0.07%	-0.05%
737 239334 02L.CENTER 345 239112 02LRCRQ1 138 1	239334 02L.CENTER 239	112 02LRCRQ1	1	1 345/138	202 ATSI	688	849	Base Case	0	214.7	- 31	21	0 0.00	6 0.00%	-0.03%
738 243282 05DREWER 138 243382 05TANNER CK1 138 1	243282 05DREWER 243	382 05TANNER CK1	1	1 138	205 AEP	213	280	Base Case	0	-66.4	- 31	18	0.00	6 0.00%	0.02%
739 238532 02ALLNJB 138 240978 02AJ-MOD 138 ZL	238532 02ALLNJB 240	978 02AJ-MOD	ZL	138	202 ATSI	160	192	Base Case	0	49.9	- 31	16	0 -0.07	-0.07%	0.01%
740 253012 09CENTER 138 253112 09TAP822 138 1	253012 09CENTER 253	112 09TAP822	1	1 138	209 DAY	301	374	Base Case	0	-93.8	- 31	16	0 0.02	6 0.02%	0.03%
741 253078 09SUGRCK 138 253112 09TAP822 138 1	253078 09SUGRCK 253	112 09TAP822		1 138	209 DAY	301	374	Base Case	0	93.8	- 31	16	0 0.02	6 0.02%	0.03%
742 250043 08HANDS2 138 250148 08EKPWEB 138 1	250043 08HANDS2 250	148 OSEKPWEB	1	1 138	212 DEO&K	301	301	Base Case	0	-93.5	- 31	08	0 0.03	6 0.03%	0.08%
743 242663 05HANCK1 138 242764 05RES 138 1	242663 05HANCK1 242	764 05RES	1	1 138	205 AEP	219	231	Base Case	0	68	- 31	07	0 0.00	6 0.00%	0.00%
744 244930 05NEW CARLI1 138 247489 05BOSSERMAN 138 1	244930 05NEW CARLI1 24	489 05BOSSERMAN		1 138	205 AEP	187	240	Base Case	0	58.1	- 31	05	0 0.12	6 0.12%	0.08%
745 243092 05SCANTO 138 243776 05S.TIMK 138 1	243092 05SCANTO 243	776 05S.TIMK	1	1 138	205 AEP	287	337	Base Case	0	89	- 31	01	0 -0.07	6 -0.07%	0.02%
746 243211 05ALLEN 345 243242 05ALLEN 138 2	243211 05ALLEN 243	242 05ALLEN		2 345/138	205 AEP	712	764	Base Case	0	220.7	-	31	0 -0.03	6 -0.03%	-0.03%
747 238631 02CNTRAL 138 238952 02MCD + 138 1	238631 02CNTRAL 238	952 02MCD +	-	1 138	202 ATST	200	242	Base Case	0	-62	- 30	98	0 0.04	6 0.04%	0.00%
748 243313 05HINT T 138 249759 08HNTNGT 138 1	243313 05HUNT T 249	759 08HNTNGT		1 138	205/208 AEP/DET	178	178	Base Case	0	55 1	- 30	96	0 0.06	6 0.06%	0.00%
740 243313 05M0N1 0 130 249739 00MN1N31 130 1	243313 05M0N1 0 24	159 05HVATT		1 245	205/200 AEF/DET	1166	1225	Dase Case	0	360 9	- 30	94	0 -0.46	6 0.00%	-0.24%
749 242339 05MARISV 545 246900 05MIAII 545 1	242959 05MARISV 24	ADD OFFICE		1 245/120	205 AEF	1100	1006	Base Case	0	274 4	- 50	0.2	0 -0.40	0.40%	-0.24%
750 240000 USBIERSK 545 240009 USBIERSK 150 1	240000 UJBIERSK 240	DOG OFWIDODE	-	1 343/130	205 AEP	105	105	Base Case	0	57.0	- 30	93	0 0.00	0.00%	0.07%
751 243019 05HILLSB 138 246946 05WLDCAT 138 1	243019 05HILLSB 240	946 USWLDCAT		1 138	205 AEP	185	105	Base Case	0	-37.2	- 30	91	0 -0.09	0.17%	-0.02%
752 242523 05BARER 345 247226 05F00THL 345 1	242523 USBAKER 24	226 USFOOTHL		1 345	205 AEP	896	896	Base Case	0	-2//	- 30	91	0 -0.17	6 -0.17%	-0.17%
753 243064 05NPROCT 138 247277 05WNDSR2 138 1	243064 05NPROCT 24	277 USWNDSRZ		1 138	205 AEP	167	167	Base Case	0	51.6	- 3	.9	0 -0.02	6 -0.02%	0.10%
754 242645 05FREMO2 138 243671 05BEAVER CR1 138 1	242645 05FREMO2 24	671 05BEAVER CRI	-	1 138	205 AEP	223	310	Base Case	0	68.9	- 30	89	0 0.03	6 0.03%	0.18%
755 243280 05DRAGN 138 243281 05DRAGNZ 138 1	243280 05DRAGN 243	281 05DRAGNZ	-	1 138	205 AEP	164	180	Base Case	0	-50.5	- 30	82	0 0.00	6 0.00%	0.00%
756 243457 05HAYDEN 345 243458 05HYATT 345 1	243457 05HAYDEN 243	458 05HYATT		1 345	205 AEP	1239	14291	Base Case	0	-381.6	- 3	0.8	0 0.37	6 0.37%	-0.07%
757 253014 09CLINTO 345 253027 09GREENE 345 1	253014 09CLINTO 253	027 09GREENE	1	1 345	209 DAY	1255	1374	Base Case	0	386.4	- 30	79	0 -0.11	6 -0.11%	0.19%
758 243143 05WBELLA 138 246108 05KAMMER24 138 1	243143 05WBELLA 246	108 05KAMMER24	3	1 138	205 AEP	296	398	Base Case	0	-91.1	- 30	.77	0 -0.27	6 -0.27%	0.07%
759 238731 02FOX 345 238733 02FOXQ12 138 5	238731 02FOX 238	733 02FOXQ12	5	5 345/138	202 ATSI	397	488	Base Case	0	122.1	- 30	.77	0 0.19	6 0.19%	0.02%
760 243232 05SORENS 345 243377 05SORENS 138 2	243232 05SORENS 243	377 05SORENS	1	2 345/138	205 AEP	713	765	Base Case	0	219.4	- 30	76	0 0.04	6 0.04%	0.02%
761 239093 02SAMMIS 138 240218 02GUILFORD 138 1	239093 02SAMMIS 240	218 02GUILFORD	1	1 138	202 ATSI	217	274	Base Case	0	66.7	- 30	74	0 0.09	6 0.09%	0.01%
762 253069 09SHELBY 345 253068 09SHELBY 138 1	253069 09SHELBY 253	068 09SHELBY	0	1 345/138	209 DAY	448	493	Base Case	0	137.2	- 30	62	0.00	6 0.00%	-0.01%
763 253069 09SHELBY 345 253068 09SHELBY 138 2	253069 09SHELBY 253	068 09SHELBY	1	2 345/138	209 DAY	448	493	Base Case	0	137.2	- 30	62	0 0.00	6 0.00%	-0.01%
764 239092 02SAMMIS 345 241936 AA1-123_POI 345 1	239092 02SAMMIS 241	936 AA1-123_POI	1	1 345	202 ATSI	1413	1743	Base Case	0	-432.2	- 30	58	0 -0.78	-0.78%	-0.76%
765 242524 05CLOVRD 345 242607 05CLOVRD 138 3	242524 05CLOVRD 242	607 05CLOVRD	1	3 345/138	205 AEP	696	747	Base Case	0	212.7	- 30	55	0 0.21	6 0.21%	-0.41%
766 239134 02TANGY 138 239218 02SSCIOT 138 1	239134 02TANGY 239	218 02SSCIOT	1	1 138	202 ATSI	278	339	Base Case	0	84.9	- 30	55	0 -0.02	6 -0.02%	0.08%
767 249989 08BKJ246 138 250158 088MIRDJ 138 1	249989 08BKJ246 250	158 088MIRDJ	1	1 138	212 DE0&K	309	332	Base Case	0	94.3	- 30	53	0 0.04	6 0.04%	0.04%
768 247527 05COVERT 345 247803 05SEGRETO 345 1	247527 05COVERT 24	303 05SEGRETO		1 345	205 AEP	1820	2457	Base Case	0	555.1	- 3	0.5	0 0.03	6 0.03%	-0.26%
769 241901 02LALLENDORE 345 242936 05FOSTOR 345 1	241901 02LALLENDORE 242	936 05FOSTOR		1 345	202/205 ATST/AEP	1409	1409	Base Case	0	428.9	- 30	44	0 -0.09	6 -0.09%	-0.64%
770 238644 02CW 0-3 138 238672 02DW 0-3 138 1	238644 02CW 0-3 239	672 02DW 0-3		1 138	202 ATST	273	332	Base Case	0	82.9	- 30	36	0 -0.19	6 -0.19%	-0.02%
771 243087 055 LUCA 138 243140 05WAKEFI. 138 1	243087 055 LUCA 243	140 05WAKEFL	-	1 130	205 AEP	219	223	Base Case	0	-66 5	- 30	36	0 0.00	6 0.00%	-0.07%
772 242989 05E LIMA 138 243083 05CAMPSS 139 1	242989 05E LIMA 24	183 05CAMPSS		1 129	205 AFP	219	223	Base Case	0	66 5	- 30	35	0 0.00	6 0.06%	0.10%
773 243127 05TIDD 1-2 138 243780 05TCDDT 129 71	243127 05TTDD 1-2 24	780 05FGDCDT	21	120	205 AEP	1.80	223	Base Case	0	54 5		1 3	0 0.00	6 0.00%	0.00%
774 243279 05555000 139 24370 05765551MAD 139 1	243279 0505000 243	272 OSCETMAD	<u>لانه</u>	1 120	205 AEF	167	167	Page Case	0	50 C		20	0 -0.00	4 _0.02%	-0.03%
775 242514 OFT FERR 766 242575 USSELFIAP 138 1	243270 UDDESUTU 24:	COA OFT FEDD	-	1 138	205 AEP	10/	10/	Dase Case	0	210.0		20	0 -0.03	0.03%	0.10%
776 250120 00D00KTP 120 250162 00C3DWDD 120 1	242514 USJ.FERK 242	DO4 USU.FERR	+ 2	2 /05/138	203 AEP	696 E1C	500	Dase Case	0	210.8	- 30	28	0 0.02	0.02%	0.19%
777 050004 00000000 138 250162 08GARVER 138 1	250139 U8ROCKIE 250	LOZ USGARVER	-	138	212 DEO&K	516	582	Base Case	0	-136.1	- 30	23	0.06	· -U.Ub%	-0.00%
770 041007 00000 138 250117 08TRMNL1 138 1	250024 USFINTWN 250	LI/USTRMNL1	1	138	212 DE0&K	266	266	base Case	0	-80.4	- 30	23	0 0.01	0.01%	0.00%
1/8 241927 02AVQ1 138 241928 02AVQ2 138 1	241927 02AVQ1 241	928 UZAVQ2		138	202 ATSI	999	9991	Base Case	0	-301.7	- 3	.2	0 -0.68	6 -0.68%	-0.08%
//9 245797 05W.CANTON2 138 246471 05MILES AVE 138 1	245797 05W.CANTON2 246	471 05MILES AVE	-	1 138	205 AEP	251	335	Base Case	0	-75.7	- 30	17	0 -0.08	6 -0.08%	0.05%
780 243675 05BELLF1 138 243676 05BELLF2 138 Z1	243675 05BELLF1 243	676 05BELLF2	Z1	138	205 AEP	285	368	Base Case	0	-85.9	- 30	13	0 0.01	6 0.01%	0.12%

A	B C	D E	F	G	НІ	J	K L	М	N	0 P	Q	R	S	T U
781 243211 05ALLEN 345 243242 05ALLEN 138 1	243211 05ALLEN :	243242 05ALLEN	1	345/138	205 AEP	504	572 Base Case	0	151.7	- 30.11	C	-0.02%	-0.02%	-0.02%
782 243500 05DUCKCR 138 247809 05LEVEE 138 1	243500 05DUCKCB	247809 05LEVEE	1	138	205 AEP	282	282 Base Case	0	-84.7	- 30.04	0	0.27%	0.27%	0.20%
783 238957 02MELDO2 138 239046 02PN 0-2 138 1	238957 02MELDO2	239046 02PN 0-2	1	138	202 ATST	103	115 Base Case	0	-30.9	- 30.01	0	0.12%	0.12%	-0.04%
784 230133 02TANCY 345 230134 02TANCY 138 4	239133 02TANGY	239134 02TANCY	4	345/138	202 ATSI	383	473 Base Case	0	114 8	- 29.99	0	0.02%	0.02%	0.07%
785 243262 05COLLECE C 139 250106 08TODULTE 139 1	243262 05COLLECE C	250106 0870DU TT	1	139	205/212 AFB/DEOCK	195	257 Base Case	0	55 5	- 29.99		-0.02%	-0.09%	-0.04%
785 243262 05COLLEGE C 136 250100 0610DH01 130 1	243202 OSCOLLEGE C	247222 05400000	1	120	205/212 AEF/ DEGR	164	190 Base Case	0	10.2	- 29.90		0.00%	0.00%	0.00%
700 243522 05HARRISON 156 247255 05HARIS6 156 1	243522 05HARRISON	247233 UJHARI30	1	130	203 AEF	204	100 Base Case	0	49.2	- 29.97		0.00%	0.00%	0.00%
767 238684 UZEASTLK 345 238685 UZEASTLK 138 62	238684 02EASTLK	236665 UZEASTLK	02	345/130	202 A151	/ 04	900 Base Case	0	233	- 29.97		0.11%	0.11%	-0.04%
760 239133 UZTANGI 345 239134 UZTANGI 138 3	239133 02TANGI	239134 UZTANGI	3	345/138	202 ATS1	383	4/4 Base Case	0	114.5	- 29.9		0.02%	0.02%	0.07%
789 242997 05E.NEWCONCZ 138 243144 05WCAMBR 138 1	242997 USE.NEWCONCZ	243144 USWCAMBR	1	138	205 AEP	296	378 Base Case	0	88.2	- 29.81	U	-0.15%	-0.15%	0.10%
790 238753 02GFQ-11 138 238921 02LTEQ11 138 1	238753 02GFQ-11	238921 02LTEQ11	1	138	202 ATSI	425	522 Base Case	0	126.7	- 29.81	C	0.01%	0.01%	0.02%
/91 243012 05G WASHGTON 138 243049 05NATRIUM12 138 1	243012 05G WASHGTON 2	243049 05NATRIUM12	1	138	205 AEP	187	205 Base Case	0	55.7	- 29.79	C	0.13%	0.13%	-0.11%
792 238546 02ASQ-11 138 241927 02AVQ1 138 1	238546 02ASQ-11 :	241927 02AVQ1	1	138	202 ATSI	265	316 Base Case	0	-78.9	- 29.78	C	-0.19%	-0.19%	-0.02%
793 242600 05CLAYPL 138 242766 05RICHLA 138 1	242600 05CLAYPL :	242766 05RICHLA	1	138	205 AEP	296	366 Base Case	0	88.1	- 29.78	C	0.06%	0.06%	0.19%
794 243479 05BROOKS 138 243566 05SAWMIL 138 1	243479 05BROOKS	243566 05SAWMIL	1	138	205 AEP	389	559 Base Case	0	-115.7	- 29.75	C	0.04%	0.04%	0.00%
795 243456 05CORRID 345 246752 05VASSEL 345 2	243456 05CORRID :	246752 O5VASSEL	2	345	205 AEP	1370	1503 Base Case	0	-407.1	- 29.72	C	0.16%	0.16%	0.04%
796 242712 05MARTN2 138 242816 05STOCKT 138 1	242712 05MARTN2	242816 05STOCKT	1	138	205 AEP	283	366 Base Case	0	-84.1	- 29.71	C	-0.03%	-0.03%	0.25%
797 243212 05BENTON 345 247803 05SEGRETO 345 1	243212 05BENTON	247803 05SEGRETO	1	345	205 AEP	1409	1868 Base Case	0	-418.3	- 29.68	C	0.59%	0.59%	-0.02%
798 242832 05TOLER 138 242855 05WYOMIN 138 1	242832 05TOLER :	242855 05WYOMIN	1	138	205 AEP	329	361 Base Case	0	-97.4	- 29.6	C	0.13%	0.13%	0.31%
799 246409 05CABIN C T8 138 246421 05CABNC8_XFL 138 Z1	246409 05CABIN C T8	246421 05CABNC8_XFL	Z1	138	205 AEP	113	136 Base Case	0	33.4	- 29.6	C	0.00%	0.00%	0.01%
800 238646 02CW TP3 138 240365 02LRN Q3 138 1	238646 02CW TP3	240365 02LRN Q3	1	138	202 ATSI	273	332 Base Case	0	80.8	- 29.59	C	-0.26%	-0.26%	-0.03%
801 242960 05BETHLM 138 242985 05CNTYLN 138 1	242960 05BETHLM	242985 05CNTYLN	1	138	205 AEP	329	361 Base Case	0	97.3	- 29.58	C	0.01%	0.01%	0.09%
802 245539 05H0LLOWAY56 138 247849 05H0LLOW XFL 138 1	245539 05HOLLOWAY56	247849 05HOLLOW XFL	1	138	205 AEP	747	747 Base Case	0	-220.6	- 29.53	C	0.04%	0.04%	-0.06%
803 242650 05GLENL1 138 242760 05PROGPK 138 1	242650 05GLENL1 :	242760 05PROGPK	1	138	205 AEP	285	337 Base Case	0	-84.1	- 29.51	C	-0.09%	-0.09%	0.00%
804 243481 05CANAL 138 243539 05MARION 138 1	243481 05CANAL	243539 05MARION	1	138	205 AEP	124	167 Base Case	0	-36.6	- 29.51	C	0.02%	0.02%	0.06%
805 238654 02DAV-BE 345 907200 AD1-103 TAP 345 1	238654 02DAV-BE	907200 AD1-103 TAP	1	345	202 ATSI	1435	1742 Base Case	0	422.7	- 29.46	C	-1.85%	-1.85%	-0.27%
806 243283 05DUNLAP 138 243290 05ELCONZ 138 1	243283 05DUNLAP	243290 05ELCONZ	1	138	205 AEP	243	243 Base Case	0	-71.5	- 29.42	c	-0.02%	-0.02%	-0.01%
807 238840 02JNPR01 138 239001 02NFLD01 138 1	238840 02JNPR01	239001 02NFLD01	1	1.38	202 ATSI	273	332 Base Case	0	80.2	- 29.38	0	-0.14%	-0.14%	0.05%
808 253049 09MONUM1 138 253062 090VEBL1 138 1	253049 09MONUM1	253062 090VEBL1	1	138	209 DAY	301	374 Base Case	0	-88.4	- 29.37	0	0.05%	0.05%	0.05%
809 243500 05DUCKCR 138 243543 05MTLLCR 138 1	243500 05DUCKCB	243543 05MTLLCB	1	138	205 AEP	240	282 Base Case	0	70.4	- 29.34	0	0.27%	0.27%	0.20%
810 243311 05ARN HOGAN 138 247420 05CROSS ST Z 138 1	243311 05ARN HOGAN	247420 05CROSS ST Z	1	138	205 AEP	205	278 Base Case	0	-60.1	- 29.34	0	-0.01%	-0.01%	0.06%
811 239083 0252KRON 138 239198 02CONGRS 138 1	239083 0252KRON	239198 02CONGRS	1	138	202 ATST	200	242 Base Case	0	-58.7	- 29.33	0	0.12%	0.12%	0.01%
812 243224 O5KENZTE 345 243234 O5TWIN B 345 1	243224 05KENZIE	243234 05TWIN B	1	345	205 AEP	1409	1409 Base Case	0	413 3	- 29.33	0	-0.15%	-0.15%	-0.27%
813 238608 02Capiti 138 239314 02NaTEDN7 138 1	238608 02CAPLTL	239314 02NATERN7	1	138	202 ATST	233	282 Base Case	0	68 3	- 29.33	0	-0.22%	-0.22%	0.00%
814 238025 02NV 011 139 240352 02DM2011 139 1	239025 02NX 011	240352 020M2011	1	130	202 ATST	233	202 Dase case	0	_00.5	- 20.32		0.08%	0.08%	-0.02%
915 240005 00DECVET 130 240332 02FM2Q11 130 1	239023 02NI QII .	240332 02PM2Q11	1	120	202 AISI 212 DEOCK	273	332 Base Case	0	-00	- 29.32		0.08%	0.08%	-0.02%
015 249985 08BECKET 138 250082 08P.UNI 138 1	249985 08BECKET	250082 08P.UNI	1	138	212 DEO&K	302	302 Base Case	0	88.5	- 29.32		-0.02%	-0.02%	-0.06%
818 253017 09CROWN 138 253057 090HH 138 1	253017 09CROWN	253057 090HH	1	138	209 DAY	191	234 Base Case	0	- 36	- 29.31	L L	0.01%	0.01%	0.05%
817 238941 02MANSFD 345 253936 15CRESCN 345 1	238941 UZMANSFD	253936 ISCRESCN	1	345	202/215 ATS1/DLCO	1244	1411 Base Case	0	364.5	- 29.3	L	-0.21%	-0.21%	-0.23%
818 238861 02KIRBY 138 239218 02SSCIOT 138 1	238861 02KIRBY :	239218 02SSCIOT	1	138	202 ATSI	278	339 Base Case	0	-81.4	- 29.3	C	-0.02%	-0.02%	0.08%
819 238569 02BEAVER 345 907200 AD1-103 TAP 345 1	238569 02BEAVER !	90/200 AD1-103 TAP	1	345	202 ATSI	1435	1742 Base Case	0	-420.4	- 29.3	C	-1.85%	-1.85%	-0.27%
82U 242962 05BLDBGZ 138 243070 05OHIOCT 138 1	242962 05BLDBGZ :	243070 050HIOCT	1	138	205 AEP	205	255 Base Case	0	-60	- 29.26	0	0.02%	0.02%	0.09%
821 243233 05TANNER 345 245409 05TAN CK_5SZ 138 5	243233 05TANNER :	245409 05TAN CK_5SZ	5	345/138	205 AEP	570	579 Base Case	0	166.7	- 29.24	0	0.05%	0.05%	0.07%
822 243382 05TANNER CK1 138 245409 05TAN CK_5SZ 138 ZK	243382 05TANNER CK1 :	245409 05TAN CK_5SZ	ZK	138	205 AEP	285	368 Base Case	0	-83.3	- 29.23	C	0.03%	0.03%	0.04%
823 245407 05TANNER CK2 138 245409 05TAN CK_5SZ 138 ZJ	245407 05TANNER CK2 :	245409 05TAN CK_5SZ	ZJ	138	205 AEP	285	368 Base Case	0	-83.3	- 29.23	C	0.03%	0.03%	0.04%
824 243472 05BEXLEY 138 243518 05GROVES 138 1	243472 05BEXLEY :	243518 05GROVES	1	138	205 AEP	335	392 Base Case	0	-97.8	- 29.19	C	0.03%	0.03%	0.03%
825 238731 02FOX 345 238734 02FOXQ13 138 3	238731 02FOX	238734 02FOXQ13	3	345/138	202 ATSI	423	478 Base Case	0	123.4	- 29.17	C	0.19%	0.19%	0.02%
826 242508 05AMOS 765 247504 05AMOS 5 XFL 345 5	242508 05AMOS :	247504 05AMOS_5_XFL	5	765/345	205 AEP	1587	1752 Base Case	0	462.7	- 29.16	C	-0.24%	-0.24%	-0.17%
827 239122 02STAR 345 239123 02STAR 138 2	239122 02STAR 2	239123 02STAR	2	345/138	202 ATSI	559	660 Base Case	0	162.9	- 29.14	C	0.00%	0.00%	-0.02%
828 243080 05RILEYC 138 243083 05CAMPSS 138 1	243080 05RILEYC :	243083 05CAMPSS	1	138	205 AEP	223	223 Base Case	0	-64.9	- 29.11	C	0.06%	0.06%	0.10%
829 239368 02TORONTO 345 239369 02TORONTO 138 2	239368 02TORONTO :	239369 02TORONTO	2	345/138	202 ATSI	618	731 Base Case	0	179.8	- 29.09	C	0.16%	0.16%	0.08%
830 238738 02FULTON 138 239128 02SWANTN 138 1	238738 02FULTON	239128 02SWANTN	1	138	202 ATSI	288	346 Base Case	0	83.7	- 29.06	C	-0.04%	-0.04%	0.01%
831 242551 05BELVA 138 242580 05CARBND 138 1	242551 05BELVA	242580 05CARBND	1	138	205 AEP	282	361 Base Case	0	-81.9	- 29.06	C	-0.31%	-0.31%	0.05%
832 242542 05ATKINS 138 242780 05RURALR 138 1	242542 05ATKINS	242780 05RURALR	1	138	205 AEP	251	330 Base Case	0	72.9	- 29.05	C	-0.19%	-0.19%	-0.33%
833 239042 02PIDGON 138 240218 02GUILFORD 138 1	239042 02PIDGON	240218 02GUILFORD	1	138	202 ATSI	217	274 Base Case	0	-63	- 29.04	C	0.09%	0.09%	0.01%
834 250029 08FOSTER 138 250150 08ENYART 138 1	250029 08FOSTER :	250150 08ENYART	1	138	212 DEO&K	298	298 Base Case	0	86.5	- 29.04	C	-0.01%	-0.01%	-0.03%
835 238916 02LRN Q4 138 239314 02NATBRNZ 138 1	238916 02LRN Q4	239314 02NATBRNZ	1	138	202 ATSI	225	295 Base Case	0	-65.3	- 29.04	C	-0.22%	-0.22%	0.00%
836 242674 05HUFFCK 138 242832 05TOLER 138 1	242674 05HUFFCK :	242832 05TOLER	1	138	205 AEP	329	361 Base Case	0	-95.5	- 29.03	C	0.13%	0.13%	0.31%
837 242508 05AMOS 765 242513 05CULLOD 765 1	242508 05AMOS	242513 05CULLOD	1	765	205 AEP	2312	2312 Base Case	0	671.1	- 29.03	C	-1.05%	-1.05%	-5.34%
838 238842 02JNPRQ3 138 239003 02NFLDQ3 138 1	238842 02JNPRQ3	239003 02NFLDQ3	1	138	202 ATSI	273	332 Base Case	0	79.1	- 28.98	C	-0.14%	-0.14%	0.04%
839 249570 08P.UNON 345 249577 08ZIMER 345 1	249570 08P.UNON	249577 08ZIMER	1	345	212 DE0&K	1492	1492 Base Case	0	-432.1	- 28.96	r.	-0.13%	-0.13%	-0.01%
840 243508 05ITALNV 138 243584 05VINE 138 1	243508 05TTALNV	243584 05VINE	1	138	205 AEP	261	376 Base Case	0	75 6	- 28.95	r	0.09%	0.09%	0.03%
			- ÷	100		201		0		20.50		5.0570	2.0070	

			A		В	C	D	E	F	G	н	1	J	К	L	М	N	0	Р	Q	R	S	T U
841 238843 02J1	NPRQ4	138	239004 02NFLDQ4	138 1	238843	02JNPRQ4	239004	02NFLDQ4	1	138	202 ATS	I	273	332	Base Case	0	79	-	28.92	0	-0.14%	-0.14%	0.05%
842 243271 05CH	RYSTA	138	243308 05HICKRY CK1	138 1	243271	05CRYSTA	243308	05HICKRY CK1	1	138	205 AEP		187	240	Base Case	0	54	-	28.9	0	0.05%	0.05%	0.00%
843 244930 05NH	EW CARLI1	138	255152 17MAPLE	138 1	244930	05NEW CARLI1	255152	17MAPLE	1	138	205/217 AEP	/NIPS	136	138	Base Case	0	39.3	-	28.89	0	0.07%	0.07%	0.03%
844 246187 05W2	ARTON H2	138	247468 05CRICKET SS	138 1	246187	05WARTON H2	247468	05CRICKET SS	1	138	205 AEP		257	341	Base Case	0	-74.2	-	28.88	0	0.00%	0.00%	0.00%
845 239368 02TC	ORONTO	345	239369 02TORONTO	138 1	239368	02TORONTO	239369	02TORONTO	1	345/138	202 ATS	I	618	730	Base Case	0	178.5	-	28.88	0	0.16%	0.16%	0.08%
846 249986 08B	ELVIE	138	250140 08DAYTON	138 1	249986	08BELVUE	250140	08DAYTON	1	138	212 DEO/	¢K	298	298	Base Case	0	-86	-	28.86	0	-0.01%	-0.01%	0.00%
847 243215 0500	00K	345	243223 05.14CKSON BD	345 1	243215	050008	243223	05.TACKSON RD	1	345	205 AEP		971	971	Base Case	0	279 9	_	28.83	0	-0.04%	-0.04%	-0.09%
848 239070 028	TCHLD	138	239165 02WAUSEO	138 1	239070	02RTCHID	239165	02WAUSEO	1	138	202 205	т	158	190	Base Case	0	45.5	-	28.79	0	-0 14%	-0 14%	-0.01%
849 239334 02T	CENTER	245	239057 021 PCPO4	130 1	239334	021 CENTER	239103	02180804	2	345/129	202 ATS	T	747	910	Base Case	0	214 7		20.75	0	0.00%	0.00%	-0.03%
950 250122 00W	ADDN1	120	250120 00NTCKET	120 1	259554	OQUADDN1	259057	ORNICKEI	1	120	212 PEO	с. Г.	201	201	Base Case	0	-06 5	_	20.74	0	0.00%	0.00%	-0.03%
951 246225 05W	ARRIVE	130	247131 OFNOLLOWAV12	130 1	230122	0.5NORRINGUE C	230130	OFNICKEL OFNOLLONAVI 2	1	130	212 DE00	αΓ	200	242	Base Case	0	-00.3		20.73	0	-0.10%	-0.10%	-0.10%
051 246325 USNO	OTTINGH56	138	247131 USHOLLOWAY12	138 3	246325	05NOTTINGH56	24/131	05HOLLOWAY12	3	138	205 AEP		200	242	Base Case	0	-57.4	-	28.72	0	-0.03%	-0.03%	0.05%
052 246325 USNO	UTTINGH56	138	24/131 USHOLLOWAY12	138 4	246325	05NOTTINGH56	24/131	05HOLLOWAY12	4	138	205 AEP		200	242	Base Case	0	-57.4	-	28.71	0	-0.03%	-0.03%	0.05%
853 242537 05AI	MOS	138	242616 U5CURRY	138 1	242537	05AMOS	242616	OSCURRY	1	138	205 AEP		167	167	Base Case	0	47.9	-	28.69	0	0.06%	0.06%	0.05%
854 242516 05M0	OUNTN	765	24/183 05MOUNTN	345 2	242516	05MOUNTN	247183	05MOUNTN	2	765/345	205 AEP		2742	3097	Base Case	0	786.1		28.67	0	1.00%	1.00%	1.08%
855 243528 05K2	ARL ROAD	138	243547 05MORSE	138 2	243528	05KARL ROAD	243547	05MORSE	2	138	205 AEP		240	277	Base Case	0	-68.8	-	28.67	0	0.07%	0.07%	0.02%
856 243507 05F	IFTH	138	243588 05WILSON	138 1	243507	05FIFTH	243588	05WILSON	1	138	205 AEP		219	223	Base Case	0	-62.8	-	28.66	0	-0.07%	-0.07%	-0.01%
857 253046 09M	IAMI	138	253074 09STATAP	138 1	253046	09MIAMI	253074	09STATAP	1	138	209 DAY		306	380	Base Case	0	87.7	-	28.64	0	-0.01%	-0.01%	0.02%
858 238969 02MI	RGP +	138	238970 02MRST +	138 1	238969	02MRGP +	238970	02MRST +	1	138	202 ATS1	I	200	242	Base Case	0	57.3	-	28.63	0	0.00%	0.00%	0.00%
859 242542 05A	TKINS	138	242803 05SMYTH	138 1	242542	05ATKINS	242803	05SMYTH	1	138	205 AEP		292	330	Base Case	0	-83.6	-	28.63	0	-0.19%	-0.19%	-0.33%
860 238890 02L1	EMOYN	138	238936 02MACLEA	138 1	238890	02LEMOYN	238936	02MACLEA	1	138	202 ATS:	I	329	413	Base Case	0	94.1	-	28.61	0	0.04%	0.04%	0.03%
861 242727 05M	ULLEN	138	247113 05PIERSS	138 1	242727	05MULLEN	247113	05PIERSS	1	138	205 AEP		205	255	Base Case	0	58.6	-	28.6	0	-0.07%	-0.07%	-0.01%
862 243669 05B	SAND	138	243694 05INEZ	138 1	243669	05B SAND	243694	05INEZ	1	138	205 AEP		670	741	Base Case	0	191.5	-	28.59	0	-0.08%	-0.08%	-0.36%
863 242514 05J	.FERR	765	242684 05J.FERR	138 3	242514	05J.FERR	242684	05J.FERR	3	765/138	205 AEP		696	696	Base Case	0	198.8	-	28.56	0	0.02%	0.02%	0.18%
864 238836 02J0	GSQ13	138	238923 02LTEQ13	138 1	238836	02JGSQ13	238923	02LTEQ13	1	138	202 ATS	I	425	522	Base Case	0	-121.2	-	28.51	0	0.01%	0.01%	0.01%
865 253007 09BI	ELLBR	138	253107 09ALPHA	138 1	253007	09BELLBR	253107	09ALPHA	1	138	209 DAY		301	374	Base Case	0	85.7	-	28.48	0	-0.07%	-0.07%	0.00%
866 242989 05E	LIMA	138	247513 05BOUTWELL	138 1	242989	05E LIMA	247513	05BOUTWELL	1	138	205 AEP		150	212	Base Case	0	42.7	-	28.45	0	-0.08%	-0.08%	0.06%
867 243046 05N	CROW	138	247277 05WNDSRZ	138 1	243046	05N CROW	247277	05WNDSRZ	1	138	205 AEP		167	245	Base Case	0	-47.5	-	28.44	0	-0.02%	-0.02%	0.10%
868 250004 08CH	RNEL1	138	250157 08CORNTP	138 1	250004	08CRNEL1	250157	08CORNTP	1	138	212 DE08	&K	266	266	Base Case	0	-75.6	-	28.41	0	0.00%	0.00%	0.00%
869 243578 05st	TRODZ	138	244198 05LEMASTER	138 1	243578	05STRODZ	244198	05LEMASTER	1	138	205 AEP		223	223	Base Case	0	-63.4	-	28.41	0	-0.13%	-0.13%	0.14%
870 243497 050	ELANO	138	246890 05HOPETN	138 1	243497	05DELANO	246890	05HOPETN	1	138	205 AEP		383	448	Base Case	0	-108.8	-	28.4	0	-0.01%	-0.01%	0.00%
871 242652 0560	OMING	138	242688 05.TOSHUA	138 1	242652	05GOMING	242688	05.TOSHUA	1	138	205 AEP		388	484	Base Case	0	-110.2	-	28.39	0	-0.06%	-0.06%	-0.50%
872 243333 05M	ADISON1	138	245946 05MADISON2	138 21	243333	05MADISON1	245946	05MADISON2	21	138	205 AEP		187	240	Base Case	0	-53.1	-	28.39	0	0.03%	0.03%	0.02%
873 243540 05M	COMB	138	243854 05PEAVED	138 1	243540	05MCCOMB	243854	OSPEAVED	1	138	205 AEP		223	267	Base Case	0	63.3	-	28.38	0	-0.08%	-0.08%	-0.02%
874 242946 05m	TDD	345	242014 05REAVER	130 1	243540	057700	243034	05REAVER	C	345/139	205 AEP		503	547	Base Case	0	142.7	_	20.30	0	0.03%	0.03%	-0.01%
875 239731 0250	02	345	238732 02F0V011	138 2	239731	02FOX	232732	02F0V011	2	345/139	202 702	т.	41.9	173	Base Case	0	119 0	-	29.37	0	0.03%	0.03%	0.03%
876 242400 05D		120	247972 05PDT##ON	120 1	242400	OSDURI IN	230132	05PDTTTON	1	120	202 AID.	-	260	245	Base Case	0	76.2		20.37	0	0.02%	0.21%	0.03%
977 239746 0300	UBLIN	130	247673 USBRITTON	130 1	243499	OSDUBLIN	24/0/3	03BRITION	1	130	205 AEP	T.	209	343	Base Case	0	/0.3	-	20.35	0	0.02%	0.02%	-0.01%
077 238746 02G	ALION	138	239028 UZUNTARU	138 1	238746	02GALION	239028	020NTARO	1	138	202 ATS.		317	365	Base Case	0	89.8	-	28.34	0	-0.20%	-0.20%	0.03%
878 242819 0550	ULVN	138	304740 4WALTERS138	138 1	242819	05SULVN	304740	4WALTERS138	1	138	205/341 AEP/	/CPLW	100	100	Base Case	0	-28.3		28.33	0	0.03%	0.03%	0.27%
8/9 243472 05BI	EXLEY	138	2435/5 U5ST.CLR	138 1	243472	USBEXLEY	243575	USST.CLR	1	138	205 AEP		187	240	Base Case	0	52.9	-	28.31	0	0.08%	0.08%	0.02%
880 250020 08ES	STWD1	138	250031 08FRDBT2	138 1	250020	USESTWD1	250031	USFRDBT2	1	138	212 DE08	δK	298	298	Base Case	0	84.1	-	28.24	0	0.03%	0.03%	0.03%
881 238874 02L2	AKVEW	138	239030 020TTAWA	138 1	238874	02LAKVEW	239030	020TTAWA	1	138	202 ATS:	I	448	516	Base Case	0	-126.4	-	28.22	0	-0.44%	-0.44%	-0.07%
882 245769 05A1	DKINS	345	253100 09ATLNTA	345 1	245769	USADKINS	253100	U9ATLNTA	1	345	205/209 AEP,	/DAY	1195	1195	Base Case	0	-337	-	28.21	0	-0.64%	-0.64%	0.00%
883 242622 05D2	ARRH2	138	242999 05EPROCT	138 1	242622	05DARRH2	242999	05EPROCT	1	138	205 AEP		292	296	Base Case	0	-82.3	-	28.19	0	-0.02%	-0.02%	-0.06%
884 238642 02CH	RSLND	138	239107 02SHNAGO	138 1	238642	02CRSLND	239107	02SHNAGO	1	138	202 ATS	I	265	287	Base Case	0	-74.6	-	28.14	0	0.03%	0.03%	-0.02%
885 243287 05E	.ELKHART	138	243346 05MOTTV	138 1	243287	05E.ELKHART	243346	05MOTTV	1	138	205 AEP		185	185	Base Case	0	52.1		28.14	0	0.02%	0.02%	0.02%
886 250075 08M	TGRY1	138	250150 08ENYART	138 1	250075	08MTGRY1	250150	08ENYART	1	138	212 DEO8	&K	298	298	Base Case	0	-83.8	-	28.13	0	-0.01%	-0.01%	-0.03%
887 238648 02C	Y Q-2	138	238918 02SLTRQ2	138 1	238648	02CY Q-2	238918	02SLTRQ2	1	138	202 ATS	I	273	332	Base Case	0	-76.8	-	28.12	0	-0.28%	-0.28%	-0.03%
888 243242 05A1	LLEN	138	243383 05TILLMA	138 1	243242	05ALLEN	243383	05TILLMA	1	138	205 AEP		293	341	Base Case	0	82.3	-	28.08	0	-0.15%	-0.15%	-0.04%
889 244489 05F0	OGWELL	138	244967 05ELLISON_BP	138 1	244489	05FOGWELL	244967	05ELLISON_BP	1	138	205 AEP		205	284	Base Case	0	57.5	-	28.06	0	-0.02%	-0.02%	0.01%
890 243233 05TA	ANNER	345	248001 06DEARB1	345 Z1	243233	05TANNER	248001	06DEARB1	Z1	345	205/206 AEP,	/OVEC	1097	1204	Base Case	0	-307.6		28.04	0	0.76%	0.76%	1.08%
891 243281 05D	RAGNZ	138	243317 05IRELAN	138 1	243281	05DRAGNZ	243317	05IRELAN	1	138	205 AEP		219	251	Base Case	0	-61.4	-	28.03	0	-0.05%	-0.05%	-0.03%
892 238796 02H	GHLND	345	238797 02HGHLND	138 2	238796	02HGHLND	238797	02HGHLND	2	345/138	202 ATS	I	596	690	Base Case	0	166.9	-	28	0	-0.02%	-0.02%	-0.04%
893 249984 08A	SHLD8	138	250146 08WHITTR	138 1	249984	08ASHLD8	250146	08WHITTR	1	138	212 DE08	δK	268	268	Base Case	0	75	12	28	0	0.00%	0.00%	-0.03%
894 238914 02L	RCRQ3	138	240353 02PM2Q12	138 1	238914	02LRCRQ3	240353	02PM2Q12	1	138	202 ATS1	I	273	332	Base Case	0	76.4		28	0	0.08%	0.08%	-0.02%
895 243276 05D	ELCOR	138	243292 05FALL C	138 1	243276	05DELCOR	243292	05FALL C	1	138	205 AEP		223	223	Base Case	0	-62.4	-	27.97	0	-0.01%	-0.01%	0.04%
896 243681 05CF	HADWICK1	138	243696 05KYELEC	138 1	243681	05CHADWICK1	243696	05KYELEC	1	138	205 AEP		219	251	Base Case	0	61.3	-	27.97	0	0.02%	0.02%	0.03%
897 239026 02N	Y 012	138	240353 02PM2012	138 1	239026	02NY 012	240353	02PM2012	1	138	202 2791	T	273	332	Base Case	0	-76.2		27.91	0	0.08%	0.08%	-0.02%
898 244936 05M	CKINLEY2	138	244967 05ELLISON PD	138 1	244936	05MCKINLEY2	244967	OSELLISON PD	1	138	205 AFD		205	284	Base Case	0	-57 2	-	27.91	0	-0.02%	-0.02%	0.01%
899 238684 0251	ASTLK	345	239036 02PERRY	345 1	238684	02EASTLK	239036	02PERRY	1	345	202 202	T	1396	1667	Base Case	0	-389 4	-	27.9	0	0.89%	0.89%	-0.38%
900 239535 0201	PO-2	139	239911 0200 0_2	120 1	230534	02380-2	239030	0240 0-2	1	120	202 413		205	265	Baso Case	0	57.2		27.0	0	0.01%	0.01%	0.02%
200 200000 UZA	- 2 - 2	100	200011 02HU Q-2	T 0CT	200000	VERTY Z	200011	V2110 8-2	1 ×	130	ZUZ ATS.	±	200	203	Lase Case	U	51.2		21.09	U	0.01/0	0.01/0	0.0270

			A		В	С	D	E	F	G	НІ	J	К	L.	М	N	0	Р	Q	R	S	T U
901	243262 05COLLEGE C	138	246963 05WESLSS	138 1	243262	05COLLEGE C	246963	05WESLSS	1	138	205 AEP	223	283	Base Case	0	-62.2	-	27.87	0	0.00%	0.00%	0.02%
902	242962 05BLDBGZ	138	247278 05MILL1Z	138 1	242962	05BLDBGZ	247278	05MILL1Z	1	138	205 AEP	205	205	Base Case	0	57.1	-	27.87	0	0.02%	0.02%	0.09%
903	243262 05COLLEGE C	138	243282 05DREWER	138 1	243262	05COLLEGE C	243282	05DREWER	1	138	205 AEP	223	310	Base Case	0	-62.1	-	27.87	0	0.00%	0.00%	0.02%
904	238663 02DLO-15	138	238982 02NAS015	138 1	238663	02DL0-15	238982	02NAS015	1	138	202 ATST	137	174	Base Case	0	38.2	-	27.86	0	0.02%	0.02%	0.00%
905	243276 05DELCOR	138	245946 05MADISON2	138 1	243276	05DELCOR	245946	05MADISON2	1	138	205 AFP	223	223	Base Case	0	62	_	27 78	0	-0.01%	-0.01%	0.04%
906	250007 08CPSNT1	139	250124 08WENDEA	138 1	250007	09CDEBCOIL	250124	0.9WENDEA	1	130	212 DEOLK	269	225	Base Case	0	74.4	-	27.70	0	0.01%	0.00%	0.06%
907	242080 05E ITMA	120	242067 05NWOODC	120 1	2/20007	OFF ITMA	242067	05NHOODC	1	120	205 AFD	167	200	Base Case	0	14.4		27.70	0	0.00%	-0.08%	0.07%
000	242303 USE LIMA	1 3 0	243367 05NW00DC	130 1	242303	OSE DIMA	243007	05NWOODC	1	130	205 AEF	107	105	Base Case	0	40.4 E1 0		27.70	0	-0.08%	-0.08%	0.07%
900	243372 035ATURN	120	243377 0550RENS	130 1	243372	OSDIDCHN	243377	ADDIL DIV	1	130	205 AEP	140	140	Base Case	0	-51.5	-	27.75	0	0.07%	0.07%	0.00%
010	242769 03R1DGW1	120	220226 020500011	130 1	242709	03KIDGWI	300711	4DAN KIV	1	130	203/342 AEF/DOK	149	149	Base Case	0	-41.5	-	27.74	0	0.00%	0.00%	0.02%
011	238921 02LIEQI1	120	239226 02311000011	130 1	230521	02DIEQII	239220	02511DCOQ11	1	130	202 AISI	425	322	Base Case	0	75.4		27.00	0	0.01%	0.01%	0.02%
012	238813 02CF Q-4	130	236919 025LIRQ4	130 1	230013	OZCE Q-4	236919	12SLIRQ4	1	130	202 ATS1	273	332	Base Case	0	-/3.4	-	27.62	0	-0.25%	-0.25%	-0.03%
912	247489 USBUSSERMAN	138	255153 1/MICH_CITY	138 1	247489	05BOSSERMAN	255153	I/MICH_CITY	1	138	205/21/AEP/NIPS	100	156	Base Case	0	43.1	-	27.61	0	0.1/%	0.17%	0.11%
915	253089 09WMILIN	138	253139 U9ELDEAN	138 1	253089	OGODOGOUNGU	253139	OGEDDEAN	1	138	209 DAY	307	382	Base Case	0	84.8	-	27.61	0	-0.04%	-0.04%	0.00%
914	242737 USOPOSSUMCK	138	242746 USPEAKVI	138 1	242/3/	050POSSUMCK	242746	USPEAKV1	1	138	205 AEP	164	180	Base Case	U	45.3		27.61	0	-0.01%	-0.01%	-0.07%
915	239141 02TRACO	138	239281 U2CRNBRY	138 1	239141	02TRACO	239281	UZCRNBRY	1	138	202 ATS1	278	339	Base Case	0	-/6./	-	27.6	0	0.03%	0.03%	0.00%
916	243545 USMILTON SS	138	244540 05RHODES	138 1	243545	05MILTON SS	244540	USRHODES	1	138	205 AEP	323	451	Base Case	0	-89.1	-	27.59	0	-0.06%	-0.06%	0.07%
91/	243506 USELLIOT	138	243619 USKOSEWOODSS	138 1	243506	USELLIOT	243619	USRUSEWOODSS	1	138	2U5 AEP	184	184	Base Case	0	-50.6	-	27.52	0	-0.01%	-0.01%	0.01%
918	242684 05J.FERR	138	242/6U U5PROGPK	138 1	242684	USJ.FERR	242760	USPROGPK	1	138	205 AEP	383	449	Base Case	0	105.2	-	27.48	0	0.06%	0.06%	0.25%
919	242524 USCLOVRD	345	24260/ USCLOVRD	138 1A	242524	USCLOVRD	242607	USCLOVRD	LA	345/138	205 AEP	500	564	Base Case	0	137.3	-	27.47	0	0.13%	0.13%	-0.27%
920	238581 U2BRBRTN	138	238629 02CLVRDL	138 1	238581	UZBRBRTN	238629	UZCLVRDL	1	138	202 ATSI	233	282	Base Case	0	-64	-	27.45	0	-0.02%	-0.02%	0.09%
921	242605 05CLNCHR	138	Z4Z665 U5HANSON	138 1	242605	USCLNCHR	242665	USHANSON	1	138	205 AEP	219	255	Base Case	0	60.1	-	27.45	0	-0.10%	-0.10%	-0.10%
922	238694 02ELW.QS	138	238695 02ELW+	138 1	238694	U2ELW.QS	238695	UZELW+	1	138	202 ATSI	160	192	Base Case	0	-43.9	-	27.42	0	0.00%	0.00%	0.00%
923	242946 05TIDD	345	243604 05TIDD_B_XFL	138 B	242946	USTIDD	243604	USTIDD_B_XFL	В	345/138	205 AEP	521	556	Base Case	0	142.8	-	27.41	0	0.03%	0.03%	-0.01%
924	235626 01JONESB	138	242551 05BELVA	138 1	235626	UIJONESB	242551	U5BELVA	1	138	201/205 AP/AEP	282	367	Base Case	0	-77.3	-	27.4	0	-0.31%	-0.31%	0.04%
925	243122 05SW LIM	138	243152 05WMOULT	138 1	243122	05SW LIM	243152	05WMOULT	1	138	205 AEP	223	223	Base Case	0	61.1	-	27.4	0	0.04%	0.04%	-0.02%
926	238541 02AS Q-1	138	238647 02CY Q-1	138 1	238541	02AS Q-1	238647	02CY Q-1	1	138	202 ATSI	265	316	Base Case	0	72.6	-	27.39	0	-0.26%	-0.26%	-0.03%
927	239123 02STAR	138	239142 02TUSC	138 1	239123	02STAR	239142	02TUSC	1	138	202 ATSI	233	282	Base Case	0	63.8	-	27.38	0	-0.06%	-0.06%	-0.05%
928	242737 050POSSUMCK	138	242785 05S.LYNC	138 1	242737	050POSSUMCK	242785	05S.LYNC	1	138	205 AEP	335	392	Base Case	0	91.7	-	27.37	0	-0.04%	-0.04%	-0.38%
929	242708 05M FUNK	138	242796 05SHAWSV	138 1	242708	05M FUNK	242796	05shawsv	1	138	205 AEP	167	240	Base Case	0	45.6	-	27.33	0	0.10%	0.10%	0.09%
930	238796 02HGHLND	345	238797 02HGHLND	138 1	238796	02HGHLND	238797	02HGHLND	1	345/138	202 ATSI	614	701	Base Case	0	167.8	-	27.32	0	-0.02%	-0.02%	-0.03%
931	238647 02CY Q-1	138	238739 02FWLSQ1	138 1	238647	02CY Q-1	238739	02FWLSQ1	1	138	202 ATSI	265	332	Base Case	0	72.3	-	27.29	0	-0.26%	-0.26%	-0.03%
932	243676 05BELLF2	138	246887 05RAMEY	138 1	243676	05BELLF2	246887	05RAMEY	1	138	205 AEP	409	527	Base Case	0	-111.6	-	27.29	0	0.01%	0.01%	0.09%
933	245533 05HOLLOWAY34	138	246327 05NOTTINGH78	138 1	245533	05HOLLOWAY34	246327	05NOTTINGH78	1	138	205 AEP	200	242	Base Case	0	54.5	-	27.27	0	-0.03%	-0.03%	0.05%
934	245533 05HOLLOWAY34	138	246325 05NOTTINGH56	138 2	245533	05HOLLOWAY34	246325	05NOTTINGH56	2	138	205 AEP	200	242	Base Case	0	54.5	-	27.26	0	-0.03%	-0.03%	0.05%
935	243257 05CALVERTZ	138	245857 05KANKAKEE1	138 1	243257	05CALVERTZ	245857	05KANKAKEE1	1	138	205 AEP	187	205	Base Case	0	50.9	-	27.24	0	0.06%	0.06%	0.03%
936	238861 02KIRBY	138	938700 AE1-092 TAP	138 1	238861	02KIRBY	938700	AE1-092 TAP	1	138	202/209 ATSI/DAY	218	269	Base Case	0	59.4	-	27.24	0	0.08%	0.08%	0.00%
937	239122 02STAR	345	239123 02STAR	138 3	239122	02STAR	239123	02STAR	3	345/138	202 ATSI	601	765	Base Case	0	163.4	-	27.19	0	0.00%	0.00%	-0.02%
938	243685 05DORTON	138	244688 05BEAVER CR2	138 1	243685	05DORTON	244688	05BEAVER CR2	1	138	205 AEP	223	310	Base Case	0	60.6	-	27.18	0	0.02%	0.02%	0.16%
939	243159 05WPHILO	138	246010 05PHILO2	138 1	243159	05WPHILO	246010	05PHILO2	1	138	205 AEP	136	167	Base Case	0	-36.9	-	27.17	0	0.13%	0.13%	0.02%
940	238964 02MLCRK+	138	937247 AD2-163_POI	138 1	238964	02MLCRK+	937247	AD2-163_POI	1	138	202 ATSI	152	179	Base Case	0	41.3	-	27.16	0	0.09%	0.09%	0.01%
941	253101 09BLUJK	138	938700 AE1-092 TAP	138 1	253101	09BLUJK	938700	AE1-092 TAP	1	138	209 DAY	218	269	Base Case	0	-59.1	-	27.11	0	0.08%	0.08%	0.00%
942	238617 02CHMBER	138	239137 02THEIS	138 1	238617	02CHMBER	239137	02THEIS	1	138	202 ATSI	200	242	Base Case	0	54.2		27.11	0	0.04%	0.04%	-0.03%
943	243458 05HYATT	345	243526 05HYATT	138 7	243458	05HYATT	243526	05HYATT	7	345/138	205 AEP	576	583	Base Case	0	156.1	-	27.11	0	-0.04%	-0.04%	-0.05%
944	243249 05BEECH	138	243385 05TWIN B	138 1	243249	05BEECH	243385	05TWIN B	1	138	205 AEP	205	284	Base Case	0	-55.5	-	27.1	0	-0.04%	-0.04%	-0.02%
945	235406 01WEIRJT	138	243113 05STORON	138 1	235406	OlWEIRJT	243113	05STORON	1	138	201/205 AP/AEP	136	167	Base Case	0	36.8	-	27.09	0	0.05%	0.05%	0.00%
946	239134 02TANGY	138	239264 02DBP	138 1	239134	02TANGY	239264	02DBP	1	138	202 ATSI	272	339	Base Case	0	73.6		27.07	0	-0.03%	-0.03%	0.08%
947	242720 05MONETA	138	242775 05ROCKCAS SS	138 1	242720	05MONETA	242775	05ROCKCAS SS	1	138	205 AEP	409	409	Base Case	0	-110.7	-	27.06	0	-0.06%	-0.06%	0.94%
948	249566 08FOSTER	345	249582 08GARVER	345 1	249566	08FOSTER	249582	08GARVER	1	345	212 DEO&K	1509	1509	Base Case	0	-408.2	-	27.05	0	-0.82%	-0.82%	-0.63%
949	242620 05DANVL2	138	242631 05EDAN 1	138 1	242620	05DANVL2	242631	05EDAN 1	1	138	205 AEP	275	402	Base Case	0	-74.4	-	27.04	0	0.46%	0.46%	4.58%
950	253012 09CENTER	138	253034 09HEMPST	138 1	253012	09CENTER	253034	09HEMPST	1	138	209 DAY	191	234	Base Case	0	51.6	-	27.03	0	0.02%	0.02%	0.03%
951	238913 02LRCRQ2	138	239046 02PN Q-2	138 1	238913	02LRCRQ2	239046	02PN Q-2	1	138	202 ATSI	115	115	Base Case	0	31.1	-	27.01	0	0.12%	0.12%	-0.04%
952	243046 05N CROW	138	243126 05THIVENER1Z	138 1	243046	05N CROW	243126	05THIVENER1Z	1	138	205 AEP	167	245	Base Case	0	45.1	-	26.99	0	-0.02%	-0.02%	0.10%
953	253040 09KNOLLW	138	253063 090VERL2	138 1	253040	09KNOLLW	253063	090VERL2	1	138	209 DAY	306	373	Base Case	0	82.6	-	26.99	0	0.07%	0.07%	0.07%
954	243885 05THORSS	138	247558 05JARRETT	138 1	243885	05THORSS	247558	05JARRETT	1	138	205 AEP	257	330	Base Case	0	-69.3	-	26.98	0	-0.30%	-0.30%	0.05%
955	253046 09MIAMI	138	253089 09WMILTN	138 1	253046	09MIAMI	253089	09WMILTN	1	138	209 DAY	301	330	Base Case	0	-81.2	-	26.97	0	-0.06%	-0.06%	-0.05%
956	242533 05ABINGD	138	242605 05CLNCHR	138 1	242533	05ABINGD	242605	05CLNCHR	1	138	205 AEP	201	201	Base Case	0	-54.1	-	26.93	0	-0.03%	-0.03%	-0.15%
957	253005 09BATH	138	253083 09TREBEI	138 1	253005	09BATH	253083	09TREBEI	1	138	209 DAY	301	375	Base Case	0	81	-	26.92	0	0.03%	0.03%	0.01%
958	250065 08MILIKN	138	250083 08P.UN2	138 1	250065	08MILIKN	250083	08P.UN2	1	138	212 DEO&K	299	299	Base Case	0	80.5	~	26.91	0	-0.03%	-0.03%	-0.05%
959	242773 05ROANO1	138	242774 05ROANO2	138 Z1	242773	05ROANO1	242774	05ROANO2	Z1	138	205 AEP	240	309	Base Case	0	64.6	-	26.9	0	0.03%	0.03%	0.45%
960	239278 02BRDVIE	138	937247 AD2-163_POI	138 1	239278	02BRDVIE	937247	AD2-163_POI	1	138	202 ATSI	152	179	Base Case	0	-40.9	-	26.9	0	0.09%	0.09%	0.01%

	А		В	C	D	E	F	G	НІ	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
961 238732 02FOXQ11	138 241935 02CLINTON	138 1	238732	02FOXQ11	241935	02CLINTON	1	138	202 ATSI	347	423	Base Case	0	93.3	-	26.89	0	0.02%	0.02%	0.00%
962 249993 08CDRVL2	138 250030 08FRDBT1	138 1	249993	08CDRVL2	250030	08FRDBT1	1	138	212 DE0&K	298	298	Base Case	0	-80.1	-	26.88	0	0.03%	0.03%	0.03%
963 242571 05BUCKHO	138 242707 05LOWESM	138 1	242571	05BUCKHO	242707	05LOWESM	1	138	205 AEP	251	251	Base Case	0	67.4	-	26.86	0	-0.13%	-0.13%	-0.26%
964 243669 05B SAND	138 243670 05BAKER	138 1	243669	05B SAND	243670	05BAKER	1	138	205 AEP	670	747	Base Case	0	-179.9	-	26.85	0	0.19%	0.19%	0.11%
965 243369 05ROYERTON	138 243393 05WESDEL	138 1	243369	05ROYERTON	243393	05WESDEL	1	138	205 AEP	219	223	Base Case	0	58.8	-	26.84	0	0.02%	0.02%	0.01%
966 238825 02IVANHO	138 238939 02MAHNGS	138 1	238825	02IVANHO	238939	02MAHNGS	1	138	202 ATSI	200	242	Base Case	0	-53.7		26.84	0	-0.03%	-0.03%	0.00%
967 243539 05MARION	138 243550 05OBETZ	138 1	243539	05MARION	243550	050BETZ	1	138	205 AEP	149	180	Base Case	0	-40	-	26.84	0	-0.05%	-0.05%	0.06%
968 242528 05SPORN	345 247183 05MOUNTN	345 1	242528	05SPORN	247183	05MOUNTN	1	345	205 AEP	2928	3113	Base Case	0	-785.7	-	26.84	0	1.00%	1.00%	1.08%
969 243484 05CITYCO	138 243584 05VINE	138 2	243484	05017700	243584	05VINE	2	138	205 AEP	251	274	Base Case	0	-67.3		26.81	0	0.00%	0.00%	0.00%
970 243221 05EUGENE	345 247712 05SULLIVAN	345 1	243221	0.5EUGENE	247712	05SULLIVAN	1	345	205 AEP	971	1335	Base Case	0	-260.1	-	26.78	0	0.16%	0.16%	0.28%
971 246325 05NOTTINGE	56 138 247700 05YAGER	138 1	246325	05NOTTINGH56	247700	05YAGER	1	138	205 AEP	200	241	Base Case	0	53.5	-	26.76	0	-0.03%	-0.03%	0.04%
972 249571 08PEDBK1	345 249573 08SCROVE	345 1	249571	08REDBK1	249573	OSCROVE	1	345	212 DEOSK	1509	1509	Base Case	0	=403.5	-	26.70	0	-0.02%	-0.02%	0.07%
973 243473 05BTXBY	138 246761 05THREEC	138 1	243473	05BTYBY	246761	05THREEC	1	138	205 AFP	427	481	Base Case	0	114 1	-	26.73	0	0.00%	0.00%	0.01%
974 239092 0285MMTS	345 242943 05SCDNTO	345 1	239092	02SDMMTS	240701	05SCANTO	1	345	203 ALL 202/205 ATST/AFP	1409	1/00	Base Case	0	376.2	-	26.75	0	1 37%	1 37%	-0.35%
975 242527 053MOC	129 242549 05DANCDO	120 1	239092	053MOR	242545	055CANTO	1	120	205 APD	224	224	Base Case	0	90.1		20.7	0	0.04%	0.04%	0.30%
975 242557 05AMOS	130 242340 USBANCRU	120 1	242337	02RIVRVR	242340	03CHARTERTON	1	120	203 AEF	125	500	Base Case	0	116		20.07	0	0.04%	-0.28%	-0.03%
977 242221 05EUCENE	245 240504 08CAVOUD	130 I 245 1	239720	OFFICENE	239734	OPCINCUID	1	246	202 AISI	1374	1 274	Base Case	0	266.3		20.07	0	-0.38%	0.50%	-0.03%
978 242544 DEAVION	130 242545 053VmONV	130 75	243221	05AVTON	249004	05AVTONV	70	120	200/200 AEF/DEL 205 AEP	1374	13/4	Base Case	-	-105 6	_	20.00	0	-0 55%	-0 55%	_1 32%
970 242344 USAATON	120 242343 USAXTUNA	120 1	242344	0 SMEATON	242345	O SHATUNA	4D 1	138	200 AEP	030	747	Dase Case	0	-T03.0		20.00	0	-0.33%	-0.35%	-4.32/0
919 242725 USMTALRY	130 242039 USWITHEZ	130 I	242725	OOPEVNOD	242039	ODWITHEZ	1	138	203 AEF	205	204	Dase Case	0	34.0	_	20.04	0	-0.19%	-0.19%	0.01%
001 239003 UZREINOD	130 239110 UZSIL AV+	130 I	239003	OFFICINOD	239110	OFETTADOO		138	202 ATSI	278	343	Dase Case	0	-/4	-	20.0	U	-0.00%	-0.00%	0.01%
901 243383 USTILLMA	100 240900 UDTIMESS	700 T	243383	OFINOS	240950	UDITMESS	75	138	205 AEP	283	300	Dase Case	-	15.3	-	20.59	0	-0.10%	-0.10%	-0.04%
982 242522 USAMOS	345 247504 USAMOS_5_XFL	345 25	242522	05AMOS	247504	USAMOS 5 XFL	25	345	205 AEP	1/40	2034	Base Case	0	-462.5		26.58	0	-0.24%	-0.24%	-0.17%
983 242537 USAMUS	138 242823 05TACKCR	138 1	242537	USAMOS	242823	USTACKCR	1	138	205 AEP	296	296	Base Case	0	/8./	-	26.57	0	-0.06%	-0.06%	-0.07%
984 242669 05H0LST1	138 242829 05TENNEL	138 1	242669	05HOLSTI	242829	05TENNE1	1	138	205 AEP	68	68	Base Case	0	18	-	26.54	0	0.00%	0.00%	-0.02%
985 250139 08ROCKIE	138 250149 08TP5381	138 Z1	250139	08ROCKIE	250149	08TP5381	Z1	138	212 DEO&K	486	502	Base Case	0	128.9	-	26.52	0	-0.06%	-0.06%	-0.06%
986 242688 05JOSHUA	138 242772 05RIVERV	138 1	242688	05JOSHUA	242772	05RIVERV	1	138	205 AEP	296	413	Base Case	0	78.5	-	26.5	0	-0.14%	-0.14%	-0.40%
987 253078 09SUGRCK	138 253255 09GEBHRT	138 1	253078	09SUGRCK	253255	09GEBHRT	1	138	209 DAY	196	241	Base Case	0	51.9	-	26.47	0	0.07%	0.07%	0.04%
988 242952 05SHEPLER	SS 138 243097 05SECANT	138 1	242952	05SHEPLER SS	243097	05SECANT	1	138	205 AEP	296	296	Base Case	0	-78.3	-	26.46	0	0.07%	0.07%	-0.02%
989 238544 02ASH_3	138 238548 02ATCQ31	138 1	238544	02ASH_3	238548	02ATCQ31	1	138	202 ATSI	72	135	Base Case	0	19	-	26.45	0	0.00%	0.00%	0.00%
990 250098 08SHAKER	138 250149 08TP5381	138 1	250098	08SHAKER	250149	08TP5381	1	138	212 DEO&K	486	502	Base Case	0	-128.6	-	26.45	0	-0.06%	-0.06%	-0.06%
991 238889 02LEMOYN	345 238890 02LEMOYN	138 2	238889	02LEMOYN	238890	02LEMOYN	2	2 345/138	202 ATSI	361	412	Base Case	0	95.5	-	26.44	0	-0.02%	-0.02%	0.02%
992 242949 05WMILLP	345 243459 05KIRK	345 1	242949	05WMILLP	243459	05KIRK	1	L 345	205 AEP	1132	1132	Base Case	0	299.1	-	26.42	0	0.87%	0.87%	0.12%
993 238958 02MFLDQ3	138 239039 02PGTP11	138 1	238958	02MFLDQ3	239039	02PGTP11	1	138	202 ATSI	103	133	Base Case	0	-27.2	· · · · · ·	26.42	0	0.12%	0.12%	-0.03%
994 238615 02CHAMBR	345 238617 02CHMBER	138 3	238615	02CHAMBR	238617	02CHMBER	3	3 345/138	202 ATSI	516	574	Base Case	0	135.9	-	26.34	0	0.06%	0.06%	-0.04%
995 238906 02LNGVEW	138 239217 02REEDSB	138 1	238906	02LNGVEW	239217	02REEDSB	1	138	202 ATSI	141	182	Base Case	0	-37.1	-	26.32	0	0.14%	0.14%	0.04%
996 242992 05E WHEE	138 243124 05TEXEAS	138 1	242992	05E WHEE	243124	05TEXEAS	1	138	205 AEP	97	97	Base Case	0	25.5	-	26.32	0	0.00%	0.00%	0.00%
997 243277 05DERBY	138 243335 05MAIN S	138 1	243277	05DERBY	243335	05MAIN S	1	138	205 AEP	205	205	Base Case	0	-53.9		26.3	0	0.07%	0.07%	0.02%
998 242652 05GOMING	138 242719 05MONEL	138 1	242652	05GOMING	242719	05MONEL	1	138	205 AEP	388	409	Base Case	0	101.9	-	26.28	0	-0.06%	-0.06%	-0.50%
999 238614 02CFQ-14	138 238702 02ERQ-14	138 1	238614	02CFQ-14	238702	02ERQ-14	1	138	202 ATSI	273	332	Base Case	0	71.7	-	26.26	0	-0.15%	-0.15%	-0.02%
1000 250092 08REDBK1	138 250114 08TP7481	138 1	250092	08REDBK1	250114	08TP7481	1	138	212 DE0&K	370	370	Base Case	0	97.2	-	26.26	0	0.03%	0.03%	0.03%
1001 249989 08BKJ246	138 250025 08FLDMN1	138 1	249989	08BKJ246	250025	08FLDMN1	1	138	212 DEO&K	299	299	Base Case	0	78.5	-	26.25	0	0.01%	0.01%	0.03%
1002 238889 02LEMOYN	345 238890 02LEMOYN	138 1	238889	02LEMOYN	238890	02LEMOYN	1	345/138	202 ATSI	362	415	Base Case	0	95	-	26.23	0	-0.02%	-0.02%	0.02%
1003 238717 02-5POINT+	138 239371 02DOWLING	138 1	238717	02-5POINT+	239371	02DOWLING	1	138	202 ATSI	288	353	Base Case	0	-75.5	-	26.2	0	0.05%	0.05%	0.01%
1004 238549 02AVERY	138 239108 02SHNROK	138 1	238549	02AVERY	239108	02SHNROK	1	138	202 ATSI	233	282	Base Case	0	61.1	-	26.2	0	-0.25%	-0.25%	-0.04%
1005 242992 05E WHEE	138 243968 05IRONWOODSS	138 1	242992	05E WHEE	243968	05IRONWOODSS	1	138	205 AEP	167	167	Base Case	0	-43.7	222	26.19	0	0.05%	0.05%	0.13%
1006 243505 05ELKEM	138 243564 05RIVERV N.	138 1	243505	05ELKEM	243564	05RIVERV N.	1	138	205 AEP	240	282	Base Case	0	-62.9	-	26.19	0	0.00%	0.00%	0.00%
1007 238702 02ERQ-14	138 238711 02EYTP14	138 1	238702	02ERQ-14	238711	02EYTP14	1	138	202 ATSI	273	332	Base Case	0	71.5	-	26.19	0	-0.15%	-0.15%	-0.02%
1008 243052 05NECANT	138 243072 05PACKARD	138 1	243052	05NECANT	243072	05PACKARD	1	138	205 AEP	205	205	Base Case	0	53.7	-	26.18	0	0.03%	0.03%	0.01%
1009 238700 02EPWRTH	138 239141 02TRACO	138 1	238700	02EPWRTH	239141	02TRACO	1	138	202 ATSI	278	339	Base Case	0	-72.8	220	26.17	0	0.03%	0.03%	0.00%
1010 246102 05CARROLL1	N2 138 247016 05GABLSS	138 1	246102	05CARROLLTN2	247016	05GABLSS	1	138	205 AEP	358	421	Base Case	0	-93.5		26.11	0	0.10%	0.10%	0.01%
1011 243483 05CRCLVS	138 246889 05BIERSR	138 1	243483	05CRCLVS	246889	05BIERSR	1	138	205 AEP	389	559	Base Case	0	-101.5	-	26.09	0	-0.02%	-0.02%	0.07%
1012 243319 05JAY	138 253250 09FTRECV	138 1	243319	05JAY	253250	09FTRECV	1	138	205/209 AEP/DAY	301	375	Base Case	0	78.5	-	26.08	0	-0.08%	-0.08%	-0.03%
1013 243242 05ALLEN	138 243334 05MAGLEY	138 1	243242	05ALLEN	243334	05MAGLEY	1	138	205 AEP	257	341	Base Case	0	67	222	26.08	0	0.00%	0.00%	-0.06%
1014 242671 05HOPKIN	138 242672 05HOPKINSX	138 SR	242671	05HOPKIN	242672	05HOPKINSX	SR	138	205 AEP	248	248	Base Case	0	-64.7	-	26.08	0	-0.01%	-0.01%	-0.19%
1015 242609 05CLYTR2	138 242634 05EDGEMO	138 1	242609	05CLYTR2	242634	05EDGEMO	1	138	205 AEP	167	240	Base Case	0	43.5	-	26.06	0	-0.11%	-0.11%	-0.07%
1016 243206 05DUMONT	765 246999 05SORENS	765 1	243206	0.5 DUMONT	246999	05SORENS	1	765	205 AEP	4142	4142	Base Case	0	1077 6	-	26.02	0	-4.38%	-4.38%	-2.90%
1017 238578 02BORDMM	138 239369 02TORONTO	138 1	238578	02BORDMN	239369	02TORONTO	1	138	202 203	187	191	Base Case	0	-48 5	22	25.02	0	0.02%	0.02%	0.04%
1018 242697 05KUMTS	138 242731 05NBLACK	138 1	242697	OSKUMIS	242731	05NBLACK	1 1	130	205 AEP	205	205	Base Case	0	53.2	_	25.90	0	0.12%	0.12%	0.22%
1019 238842 02 TNDD02	138 230051 02BU 03	138 1	230010	02.TNPPO3	230051	02PV 03	1	120	200 701	200	220	Base Case	0	70 0	_	25.50	0	0.12%	0.12/0	0.00%
1070 243322 0EVENUTE	130 235031 UZEV Q3	130 L	2/2222	05KENZTE	233031	OSEDIONE	1 1	120	202 AIDI 205 AFD	213	202	Base Case	0	70.0		23.33	0	_0.12/0	-0.02%	-0.02%
IVED 240022 UDRENALE	TOO SACCO ODEDROME	1001	243322	O STUDIO I D	273239	00EDDOME	1	1 138	200 ABF	293	241	Lase case	U	10		23.72	U	0.0270	0.0270	0.0270

			A		В	C	D	E	F	G	H I	J	К	L	М	N	0	Р	Q	R	S	T U
102	1 238708 02EVRGRN	138	239321 02RSYSOH	138 1	238708	02EVRGRN	239321	02RSYSOH	1	138	202 ATSI	200	242 Base	e Case	0	51.8	-	25.9	0	-0.01%	-0.01%	0.00%
102	2 238621 02CL Q13	138	240348 02GROVWDQ13	138 ZB	238621	02CL Q13	240348	02GROVWDQ13	ZB	138	202 ATSI	110	138 Base	e Case	0	-28.5	-	25.87	0	0.00%	0.00%	0.00%
102	3 242630 05E.RIVE	138	242784 05S.BLUE	138 1	242630	05E.RIVE	242784	05S.BLUE	1	138	205 AEP	205	205 Base	e Case	0	-53	-	25.85	0	-0.08%	-0.08%	-0.08%
102	4 235363 01MAHNSL	138	243347 05TIDD 3-4	138 1	235363	01MAHNSL	243347	05TIDD 3-4	1	138	201/205 AP/AEP	187	205 Base	e Case	0	-48.3	-	25.84	0	-0.53%	-0.53%	-0.02%
102	5238502 02BRIM	138	238890 02LEMOYN	138 1	238502	02BRIM	238890	02LEMOYN	1	138	202 ATSI	252	291 Base	e Case	0	-65.1	-	25.84	0	0.05%	0.05%	0.01%
102	6242607 05CLOVRD	138	243892 05MEADS8	138 1	242607	05CLOVRD	243892	05MEADS8	1	138	205 AEP	348	407 Base	e Case	0	-89.9	-	25.83	0	-0.06%	-0.06%	0.94%
102	7 239154 02W.FREM	138	240813 02GROTON	138 1	239154	02W.FREM	240813	02GROTON	1	138	202 ATSI	278	339 Base	Case	0	71.8	-	25.83	0	-0.24%	-0.24%	-0.04%
102	8 238617 02CHMBER	138	239010 02NORDON	138 1	238617	02CHMBER	239010	02NORDON	1	138	202 ATST	200	242 Base	Case	0	51.6	-	25.81	0	0.08%	0.08%	-0.02%
102	9 238823 02TNO-14	138	240284 02LKSH04	138 1	238823	02TNO-14	240284	021.KSH04	1	138	202 ATSI	267	352 Base	Case	0	68.9		25.8	0	0.13%	0.13%	-0.01%
103	0 242675 05HUFFMN	138	242755 05PTPERS	138 1	242675	05HUFFMN	242755	05PIPERS	1	138	205 AEP	277	277 Base	Case	0	71.4	-	25.77	0	0.03%	0.03%	0.07%
103	1 243292 05FALL C	138	243333 05MADISON1	138 1	243292	OSFALL C	242733	05MADISON1	1	138	205 AEP	251	251 Base	Case	0	64 6	_	25.74	0	-0.01%	-0.01%	0.04%
103	2 243080 05PTLEVC	138	247000 05XELLOW CK1	138 1	243080	05RTLEVC	243555	05VELLOW CK1	1	130	205 AEP	201	231 Dase		0	57.4	-	25.74	0	0.06%	0.06%	0.10%
103	2 243666 05KIDDIC	120	242661 05HALES1	130 1	243000	05CARDEC	247000	05HATES1	1	130	205 AEP	22.5	223 Dase	Case	0	56.3		25.75	0	-0.10%	-0.10%	-0.01%
103	1 242100 050MRDEC	120	242001 05HALESI	120 1	242040	05GARDEC	242001	OSHADESI	1	120	205 AEF	164	120 Base	Case	0	-42.2		25.72	0	-0.10%	0.10%	-0.01%
103	4 243109 0331E0BN	100	243127 031100 1-2	130 1	243109	03SILUBN	243127	OSTIDD 1-2	1	130	203 AEP	200	100 Base	Case	0	-42.2		25.72	0	0.01%	0.01%	-0.01%
103	C 242512 0500 100	130	238700 02E0 TAF	765 1	230010	OZCOR SI	230700	OZEO TAP	1	130	202 AISI	233	1142 Dase	Case	0	1020 1		25.67	0	2 1 20/0	2 1 2 0/0	10.11%
103	7 242774 0500ANO2	120	247621 OSPENNITNOMON	100 I	242313	05POINC2	24231/	05PENNINGTON	1	120	205 AEP	404/	300 Da	Case	0	-61 6	-	23.03	0	-2.12%	0 100/	-0.22%
103	232774 USKUANUZ	120	24/051 USBENNINGTON	100 L	242//4	02DCVCOU	24/031	OBENNINGTON	1	138	200 AEP	240	242 D	Case	0	-01.0 E1 0	-	23.03	0	0.10%	0.10%	0.00%
103	0 253521 UZKSISUH	130	252100 002TAR_FURGE	100 I	239321	000muanm	240068	025TAK_FORGE	1	138	202 ATS1	1105	1105 D-	case	0	205 7	-	25.59	0	-0.01%	-0.01%	0.00%
103	2330// U9STUART	345	233100 USATLNTA	343 L	253077	03STUART	253100	OBATLINTA		345	209 DA1	1195	TTAD Rase	case	0	305.7	-	25.58	0	-0.50%	-0.50%	0.06%
104	U 238015 UZCHAMBR	345	23861/ UZCHMBER	138 4	238615	UZCHAMBR	238617	UZCHMBER	4	345/138	202 ATS1	516	5/4 Base	e Case	0	132	-	25.58	0	0.06%	0.06%	-0.04%
104	238/46 UZGALION	138	238891 UZLESIDE	138 1	238746	UZGALION	238891	UZLESIDE	1	138	ZUZ ATSI	251	290 Base	e Case	0	64.1	-	25.55	0	-0.24%	-0.24%	0.04%
104	Z 243050 05NBELVL	138	24/2/8 05MILL1Z	138 1	243050	USNBELVL	247278	USMILL1Z	1	138	205 AEP	187	240 Base	e Case	0	-47.8	-	25.54	0	0.02%	0.02%	0.09%
104	3238684 02EASTLK	345	238685 02EASTLK	138 61	238684	UZEASTLK	238685	UZEASTLK	61	345/138	202 ATSI	906	1006 Base	e Case	0	231.3	-	25.53	0	0.10%	0.10%	-0.04%
104	4242699 05LAVALT	138	244462 05SHOALS	138 1	242699	USLAVALT	244462	USSHOALS	1	138	205 AEP	251	309 Base	e Case	0	-64	-	25.51	0	-0.05%	-0.05%	-0.14%
104	5242994 05EAMSTD	138	247704 05PANDA RDSS	138 1	242994	05EAMSTD	247704	05PANDA RDSS	1	138	205 AEP	336	393 Base	e Case	0	85.6	-	25.49	0	0.10%	0.10%	0.02%
104	6243024 05HOWARD	138	243100 05SHELGH	138 1	243024	05HOWARD	243100	05SHELGH	1	138	205 AEP	72	76 Base	e Case	0	18.3	-	25.46	0	0.00%	0.00%	0.00%
104	7242539 05ANGLBR	138	242814 05ST.ALB	138 1	242539	05ANGLBR	242814	05ST.ALB	1	138	205 AEP	287	337 Base	e Case	0	-72.8	-	25.37	0	-0.01%	-0.01%	-0.19%
104	8 242619 05DANVL1	138	242620 05DANVL2	138 Z1	242619	05DANVL1	242620	05DANVL2	Z1	138	205 AEP	287	337 Base	e Case	0	-72.8	-	25.37	0	0.16%	0.16%	1.65%
104	9242555 05BLAINE	138	242843 05WLAKE	138 1	242555	05BLAINE	242843	05WLAKE	1	138	205 AEP	287	337 Base	e Case	0	-72.8	-	25.36	0	0.00%	0.00%	0.39%
105	0 242512 05CLOVRD	765	242515 05JOSHUA	765 1	242512	05CLOVRD	242515	05JOSHUA	1	765	205 AEP	1180	1180 Base	e Case	0	298.9	-	25.33	0	-0.19%	-0.19%	-1.79%
105	1246751 05VASSEL	765	270162 AB2-067 TAP	765 1	246751	05VASSEL	270162	AB2-067 TAP	1	765	205 AEP	4047	4571 Base	e Case	0	-1023.8	-	25.3	0	5.48%	5.48%	1.12%
105	2238951 02MBQ-14	138	241925 02ELQ5	138 1	238951	02MBQ-14	241925	02ELQ5	1	138	202 ATSI	324	382 Base	e Case	0	-82	-	25.29	0	0.12%	0.12%	-0.04%
105	3238715 02FERNWY	138	239281 02CRNBRY	138 1	238715	02FERNWY	239281	02CRNBRY	1	138	202 ATSI	278	339 Base	e Case	0	-70.3	-	25.28	0	0.03%	0.03%	0.00%
105	4242937 05KAMMER	345	242948 05WBELLA	345 1	242937	05KAMMER	242948	05WBELLA	1	345	205 AEP	1740	1868 Base	e Case	0	439.7	-	25.27	0	-1.74%	-1.74%	1.00%
105	5243229 050LIVE	345	243918 05ELDERBERRY	345 1	243229	050LIVE	243918	05ELDERBERRY	1	345	205 AEP	1188	1539 Base	e Case	0	-299.9	-	25.25	0	0.52%	0.52%	0.29%
105	6243473 05BIXBY	138	244232 05SHANONRSS8	138 1	243473	05BIXBY	244232	05SHANONRSS8	1	138	205 AEP	329	350 Base	e Case	0	83	-	25.22	0	-0.01%	-0.01%	0.01%
105	7243453 05BEATTY	345	244022 05COLE	345 1	243453	05BEATTY	244022	05COLE	1	345	205 AEP	1096	1203 Base	e Case	0	276.4	-	25.22	0	-0.55%	-0.55%	-0.03%
105	8 243560 05ROBERT	138	243582 05TRABUE	138 1	243560	05ROBERT	243582	05TRABUE	1	138	205 AEP	223	310 Base	e Case	0	56.1	-	25.15	0	0.04%	0.04%	0.00%
105	9250023 08EVNDL2	138	250118 08TRMNL2	138 1	250023	08EVNDL2	250118	08TRMNL2	1	138	212 DEO&K	408	408 Base	e Case	0	-102.4	-	25.11	0	-0.01%	-0.01%	0.03%
106	0243257 05CALVERTZ	138	243318 05JACKSON RD	138 1	243257	05CALVERTZ	243318	05JACKSON RD	1	138	205 AEP	205	205 Base	e Case	0	-51.4	-	25.1	0	0.06%	0.06%	0.03%
106	1238783 02HARDIN	345	238793 02HDGQ12	138 2	238783	02HARDIN	238793	02HDGQ12	2	345/138	202 ATSI	429	484 Base	e Case	0	107.6	-	25.08	0	0.07%	0.07%	0.01%
106	2 243457 05HAYDEN	345	243461 05ROBRT1	345 1	243457	05HAYDEN	243461	05ROBRT1	1	345	205 AEP	1025	1318 Base	e Case	0	257.1	-	25.08	0	-0.06%	-0.06%	-0.04%
106	3 242725 05MTAIRY	138	242780 05RURALR	138 1	242725	05MTAIRY	242780	05RURALR	1	138	205 AEP	251	335 Base	e Case	0	-62.8	-	25.03	0	-0.19%	-0.19%	-0.33%
106	4 249578 08HILCRT	345	253077 09STUART	345 1	249578	08HILCRT	253077	09STUART	1	345	212/209 DEO&K/DAY	1255	1374 Base	e Case	0	-314	-	25.02	0	0.23%	0.23%	0.30%
106	5243150 05WMILLP	138	243510 05GAHANN	138 1	243150	05WMILLP	243510	05GAHANN	1	138	205 AEP	219	255 Base	e Case	0	54.8	-	25.01	0	0.05%	0.05%	0.01%
106	6243554 05PORTER	138	243573 05SHELL	138 1	243554	05PORTER	243573	05SHELL	1	138	205 AEP	109	133 Base	e Case	0	27.3	-	25.01	0	0.00%	0.00%	0.00%
106	7 242608 05CLYTR1	138	247869 05CLAYTR HY1	138 1	242608	05CLYTR1	247869	05CLAYTR HY1	1	138	205 AEP	120	151 Base	e Case	0	-30	-	25.01	0	-0.02%	-0.02%	-0.02%
106	8 243214 05COLNGW	345	255105 17HIPLE	345 1	243214	05COLNGW	255105	17HIPLE	1	345	205/217 AEP/NIPS	1409	1409 Base	e Case	0	-352	-	24.98	0	-0.59%	-0.59%	-0.41%
106	9243247 05AUBURN	138	247106 05VARNER	138 1	243247	05AUBURN	247106	05VARNER	1	138	205 AEP	257	360 Base	e Case	0	-64.2	22	24.97	0	0.01%	0.01%	0.00%
107	0242516 05MOUNTN	765	242923 05GAVIN	765 1	242516	05MOUNTN	242923	05GAVIN	1	765	205 AEP	4047	4571 Base	e Case	0	-1009.3	-	24.94	0	-4.01%	-4.01%	0.18%
107	1242964 05BOLIVA	138	243092 05SCANTO	138 1	242964	05BOLIVA	243092	05scanto	1	138	205 AEP	291	291 Base	e Case	0	-72.6	-	24.93	0	0.42%	0.42%	-0.10%
107	2 243361 05RABER	138	243372 05SATURN	138 1	243361	05RABER	243372	05SATURN	1	138	205 AEP	185	185 Base	e Case	0	-46	-	24.86	0	0.07%	0.07%	0.06%
107	3 242865 05JEFRSO	345	248000 06CLIFTY	345 Z1	242865	05JEFRSO	248000	06CLIFTY	Z1	345	205/206 AEP/OVEC	1868	1868 Base	e Case	0	464.2	-	24.85	0	-0.08%	-0.08%	-0.15%
107	4 243353 050LIVE	138	244173 05SILVER LAK	138 1	243353	050LIVE	244173	05SILVER LAK	1	138	205 AEP	223	310 Base	e Case	0	55.4	-	24.85	0	0.08%	0.08%	0.05%
107	5 238568 02BAYSHO	138	241945 AB1-107 TAP	138 1	238568	02BAYSHO	241945	AB1-107 TAP	1	138	202 ATSI	278	342 Base	e Case	0	-69	-	24.83	0	-0.18%	-0.18%	-0.11%
107	6 243205 05COOK	765	243206 05DUMONT	765 1	243205	05COOK	243206	05DUMONT	1	765	205 AEP	4047	4571 Base	e Case	0	1004.7	-	24.83	0	-0.62%	-0.62%	-1.05%
107	7243507 05FIFTH	138	245853 05HESS SOUTH	138 1	243507	05FIFTH	245853	05HESS SOUTH	1	138	205 AEP	187	207 Base	e Case	0	46.4		24.82	0	-0.07%	-0.07%	-0.01%
107	8 238831 02TWO-17	138	238843 02JNPR04	138 1	238831	02IWO-17	238843	02JNPR04	1	138	202 ATST	273	332 Base	a Case	0	-67.7	-	24.8	0	-0.05%	-0.05%	0.02%
107	9 250081 080AKLEY	138	250110 08CENTRI	138 1	250081	080AKLEY	250110	08CENTRL	1	138	212 DEO&K	205	205 Base	Case	0	50.8	_	24 79	0	0.03%	0.03%	0.01%
109	243457 054AVDEM	315	243460 050000TT	345 2	2/3/57	05HAVDEN	2/3/50	050000000	2	310	205 AFD	1025	1319 Pase	Case	0	254		24.79	0	-0.06%	-0.06%	-0.01%
100	LIGID, CONALDEN	515	210100 00N0DN12	212 2	21313/	S STILL PERM	210100	S STODICE	2	1 243	200 1781	1023	TOTO Dase	JOUDE	U	2.34		27.70	U	0.00%	0.0070	0.0470

		А			B C	D	E	F	G	H I	J	K L	М	N	0	P	Q	R	S	T	U
1081	1 243265 05COREY	138 245259	05EDLOWE	138 1	243265 05COREY	245259	05EDLOWE	1	138	205 AEP	296	398 Base Case	0	-73.2	-	24.73	0	-0.02%	-0.02%	-0.02%	
1082	2 242979 05CANNELV SS	138 242986	5 05CROOKS	138 1	242979 05CANNELV SS	242986	05CROOKS	1	138	205 AEP	187	240 Base Case	0	46.2	-	24.72	0	0.23%	0.23%	-0.10%	
1083	3 242636 05FALLBR	138 242796	5 05SHAWSV	138 1	242636 05FALLBR	242796	05SHAWSV	1	138	205 AEP	167	240 Base Case	0	-41.2	-	24.7	0	0.10%	0.10%	0.09%	
1084	4238850 02JUNIPE	345 239122	2 02STAR	345 1	238850 02JUNIPE	239122	02STAR	1	345	202 ATSI	1534	1891 Base Case	0	-378.7	-	24.69	0	-0.50%	-0.50%	0.52%	
1085	5238781 02HANNA	345 238941	02MANSFD	345 1	238781 02HANNA	238941	02MANSFD	1	345	202 ATSI	1380	1646 Base Case	0	-340.3	-	24.66	0	0.46%	0.46%	0.04%	
1086	5 243023 05HOCKNG	138 243531	05KIMBRY	138 1	243023 05HOCKNG	243531	05KIMBRY	1	138	205 AEP	223	310 Base Case	0	-55	-	24.65	0	-0.03%	-0.03%	0.09%	
1087	7238884 02LEMO K	138 240990	02HOMEDEPOT	138 1	238884 02LEMO K	240990	02HOMEDEPOT	1	138	202 ATSI	160	192 Base Case	0	39.4	-	24.64	0	0.08%	0.08%	0.01%	
1088	8 242528 05SPORN	345 242947	05WATERFORD	345 1	242528 05SPORN	242947	05WATERFORD	1	345	205 AEP	1239	1566 Base Case	0	305.2	-	24.64	0	-0.72%	-0.72%	1.08%	
1089	9 242547 05BAILS2	138 242855	5 05WYOMIN	138 2	242547 05BAILS2	242855	05WYOMIN	2	138	205 AEP	388	484 Base Case	0	-95.5	-	24.61	0	0.01%	0.01%	-0.04%	
1090	0242708 05M FUNK	138 247470) 05MFUNK2 XFL	138 Z2	242708 05M FUNK	247470	05MFUNK2 XFL	Z2	138	205 AEP	696	747 Base Case	0	-171.2	-	24.6	0	0.05%	0.05%	-0.38%	
1091	1243127 05TIDD 1-2	138 245389	05TIDD B X	138 SR	243127 05TIDD 1-2	245389	05TIDD B X	SR	138	205 AEP	580	580 Base Case	0	-142.6	-	24.59	0	0.03%	0.03%	-0.01%	
1092	2 243127 05TIDD 1-2	138 243129	05TIDD C X	138 SR	243127 05TIDD 1-2	243129	05TIDD C X	SR	138	205 AEP	580	580 Base Case	0	-142.6	-	24.59	0	0.03%	0.03%	-0.01%	
1093	3 242614 05COLLINV SS	138 242638	05FIELDALE1	138 1	242614 05COLLINV SS	242638	05FIELDALE1	1	138	205 AEP	296	398 Base Case	0	72.7		24.57	0	-0.04%	-0.04%	0.30%	
1094	4 242537 05AMOS	138 242836	5 05TURNE1	138 1	242537 05AMOS	242836	05TURNE1	1	138	205 AEP	296	296 Base Case	0	72.7	-	24.57	0	-0.06%	-0.06%	-0.07%	
1095	5238848 02JRD011	138 239324	1 02CH	138 1	238848 02JRD011	239324	02CH	1	138	202 ATSI	265	316 Base Case	0	-65.1	-	24.56	0	-0.08%	-0.08%	0.03%	
1096	6 238563 02BAY SH	345 238654	02DAV-BE	345 1	238563 02BAY SH	238654	02DAV-BE	1	345	202 ATSI	1542	1878 Base Case	0	378.4	-	24.54	0	-1.64%	-1.64%	-0.17%	
1097	7 242682 05JIM BRANCH	138 247152	05GARY	138 1	242682 05JIM BRANCH	247152	05GARY	1	138	205 AEP	296	398 Base Case	0	72.5		24.5	0	-0.11%	-0.11%	-0.29%	
1098	8 238708 02EVRGRN	138 238797	02HGHLND	138 2	238708 02EVRGRN	238797	02HGHLND	2	138	202 ATSI	200	242 Base Case	0	-49	-	24.49	0	-0.04%	-0.04%	0.00%	
1099	9238708 02EVRGRN	138 238797	02HGHLND	138 1	238708 02EVRGRN	238797	02HGHLND	1	138	202 ATSI	200	242 Base Case	0	-49	-	24.49	0	-0.04%	-0.04%	0.00%	
1100	0243219 05DUMONT	345 246955	5 050LIVE BP	345 1	243219 05DUMONT	246955	050LIVE BP	1	345	205 AEP	897	897 Base Case	0	219.6	-	24.48	0	-0.44%	-0.44%	-0.33%	
110	1243222 05FALL C	345 249515	5 08NOBLSV	345 1	243222 05FALL C	249515	08NOBLSV	1	345	205/208 AEP/DEI	911	956 Base Case	0	-223		24.48	0	-0.20%	-0.20%	0.12%	
1102	2239725 02LAKEAVE	345 239726	5 02LAKEAVE	138 2	239725 02LAKEAVE	239726	02LAKEAVE	2	345/138	202 ATSI	620	740 Base Case	0	151.7	-	24.46	0	-0.10%	-0.10%	-0.04%	
1103	3 243232 05SORENS	345 246955	5 050LIVE BP	345 1	243232 05SORENS	246955	050LIVE BP	1	345	205 AEP	897	897 Base Case	0	-219.3	-	24.45	0	-0.44%	-0.44%	-0.33%	
1104	4 249990 08BROWN	138 250167	7 08DEO STUART	138 1	249990 08BROWN	250167	08DEO STUART	1	138	212 DE0&K	275	275 Base Case	0	-67.2	-	24.45	0	0.04%	0.04%	0.04%	
1105	5 239725 02LAKEAVE	345 239726	5 02LAKEAVE	138 1	239725 02LAKEAVE	239726	02LAKEAVE	1	345/138	202 ATSI	621	740 Base Case	0	151.7		24.42	0	-0.10%	-0.10%	-0.04%	
1106	6 242983 05CHANDLERVZ	138 243074	0.5PHTLO1	138 1	242983 05CHANDLERVZ	243074	05PHTLO1	1	138	205 AEP	187	240 Base Case	0	-45.7	-	24.42	0	-0.47%	-0.47%	0.10%	
1107	7 250106 08TODHJT	138 253057	7 090нн	138 1	250106 08TODHJT	253057	090HH	1	138	212/209 DEO&K/DAY	221	272 Base Case	0	54	-	24.42	0	-0.09%	-0.09%	-0.04%	
1108	8 238508 02EBER	138 239128	02SWANTN	138 1	238508 02EBER	239128	02SWANTN	1	138	202 ATSI	278	343 Base Case	0	-67.7	-	24.35	0	-0.04%	-0.04%	0.01%	
1109	9 238640 02CBISS	138 239264	1 02DBP	138 1	238640 02CBISS	239264	02DBP	1	138	202 ATST	278	339 Base Case	0	-67.7		24.34	0	-0.03%	-0.03%	0.08%	
1110	0 243024 05HOWARD	138 243050	05NBELVL	138 1	243024 05H0WARD	243050	05NBELVL	1	138	205 AEP	136	167 Base Case	0	-33.1	-	24.34	0	0.02%	0.02%	0.09%	
1111	1 243604 05TTDD B XEL	138 245389	05TTDD B X	138 B	243604 05TIDD B XEL	245389	05TTDD B X	B	138	205 AEP	586	598 Base Case	0	142.6	-	24 34	0	0.03%	0.03%	-0.01%	
1112	2 238546 02ASO-11	138 238743	3 02ER-DNB+011	138 1	238546 02ASO-11	238743	02ER-DNB+011	1	138	202 ATSI	260	309 Base Case	0	63.3	-	24.34	0	-0.19%	-0.19%	-0.02%	
1113	3 243122 05SW LTM	138 243136	5 05W LIMA	138 1	243122 05SW LTM	243136	05W LIMA	1	138	205 AEP	348	388 Base Case	0	84.6		24.31	0	-0.02%	-0.02%	0.12%	
1114	4 243349 05NEW CARLT2	138 243359	05PINERD	138 1	243349 05NEW CABLT2	243359	05PINERD	1	138	205 AEP	187	233 Base Case	0	45.5	-	24.31	0	-0.10%	-0.10%	-0.06%	
1111	5 249736 08GBDALE	138 250057	7 08M FORT	138 1	249736 08GRDALE	250057	08M FORT	1	138	208/212 DET/DEO&K	486	486 Base Case	0	117.9	-	24.26	0	-0.05%	-0.05%	0.27%	
1116	5243667 05STINNE	161 360452	SPINEVILL KY	161 1	243667 05STINNE	360452	SPINEVILL KY	1	161	205/347 AEP/TVA	208	208 Base Case	0	-50.4	_	24.25	0	-0.03%	-0.03%	0.05%	
1117	7 242629 05E MONU	138 242632	2 05EDAN 2	138 1	242629 05E. MONU	242632	05EDAN 2	1	138	205 AEP	251	335 Base Case	0	-60.8		24.23	0	0.03%	0.03%	0.33%	
1118	8 243118 05SUMMER	138 247757	7 OSHERLAN SW	138 1	243118 05SUMMER	247757	OSHERLAN SW	1	138	205 AEP	205	284 Base Case	0	-49.6	-	24.2	0	0.11%	0.11%	-0.02%	
1110	9 242520 05.1 FEBR	500 242514	1 05.T FERR	765 1	242520 05.1 FERR	242514	05.T FERR	1	500/765	205 AEP	1635	1845 Base Case	0	395.6	_	24.19	0	0.47%	0.47%	9.26%	
1120	238586 02BRKSID	138 238938	02MADISN	138 1	238586 02BBKSID	238938	02MADISN	1	138	202 ATSI	153	192 Base Case	0	37	-	24.18	0	0.11%	0.11%	-0.04%	
112	1238906 021.NGVEW	138 239196	5 02ARM+BU	138 1	238906 021.NGVEW	239196	02ARM+BU	1	138	202 ATST	225	295 Base Case	0	-54.4	-	24.16	0	-0.26%	-0.26%	0.03%	
1122	243322 05KENZIE	138 939390) AE1-170 POT	138 1	243322 05KENZTE	939390	AE1-170 POT	1	138	205 AEP	296	361 Base Case	0	71.5	-	24.15	0	-0.01%	-0.01%	0.00%	
112	3 243261 05COLBYTAPSS	138 939390) AE1-170 POT	138 1	243261 05COLBYTAPSS	939390	AE1-170 POT	1	138	205 AEP	296	361 Base Case	0	-71.5	_	24.15	0	-0.01%	-0.01%	0.00%	
1124	4 243542 05MIFFIN	138 243575	05ST.CLR	138 1	243542 05MIFFIN	243575	05ST.CLR	1	138	205 AEP	209	209 Base Case	0	50.4	-	24.14	0	0.07%	0.07%	0.00%	
112	5 243250 05BENTON	138 243271	05CRYSTA	138 1	243250 05BENTON	243271	05CRYSTA	1	138	205 AEP	296	361 Base Case	0	71.3	-	24.1	0	0.05%	0.05%	0.00%	
1126	6 249998 08CMMSVI	138 250072	08MTCHL1	138 1	249998 08CMMSVI	250072	08MTCHL1	1	138	212 DE0&K	267	267 Base Case	0	-64.3	-	24.07	0	-0.01%	-0.01%	-0.02%	
112	7 238832 02.TACKMA	138 240978	02AJ-MOD	138 1	238832 02.TACKMA	240978	02AJ-MOD	1	138	202 ATST	158	190 Base Case	0	-38	-	24 07	0	-0.07%	-0.07%	0.01%	
1128	8 246999 05SORENS	765 243232	05SORENS	345 3	246999 05SOBENS	243232	05SOBENS	3	765/345	205 AEP	2742	3097 Base Case	0	658	-	24	0	0.96%	0.96%	0.60%	
1120	9238914 021.8CR03	138 238917	02STACY	138 1	238914 021.RCR03	238917	02STACY	1	138	202 2097	200	242 Base Case	0	48	~	23 99	0	-0.09%	-0.09%	0.02%	
1130	242704 05LOGAN1	138 242752	05PINCKZ	138 1	242704 05LOGAN1	242752	05PINCKZ	1	130	205 AEP	167	167 Base Case	0	40.1	-	23.99	0	0.06%	0.06%	0.04%	
1121	1238607 02CARLTL	345 238600	02CARLTI	138 1	238607 02CARLTL	238609	02CARLTL	1	345/139	200 AEF 202 ATGT	577	686 Base Case	0	128 3		23.99	0	0.14%	0.14%	0.07%	
1123	238781 02HANNA	345 242032	05CANTNC	345 1	238781 02HANNA	242932	05CANTNC	1	315/130	202/205 ATST /AFP	1409	1409 Base Case	0	-337 3		23.90	0	-0.80%	-0.80%	0.82%	
1123	2 246399 05CTORE ME 7	138 242332	05MUSKNC1A	138 77	246399 05CTORE MT 7	242332	05MUSKNC1A	ZT	120	205 AFD	197	240 Base Case	0	-41 8		23.04	0	0.00%	0.00%	0.06%	
113	4 243490 05CORNER	138 243554	1 05PORTER	138 1	243490 05CORNER	243554	05PORTER	1	130	205 AEP	131	143 Base Care	0	31 3	-	23.93	0	0.10%	0.00%	0.00%	
1120	5 243243 053NDCT	138 243334	ASWERSTD	138 1	243243 05ANDOT	243334	05WEBSTD	1	130	205 AEF	102	183 Base Case	0	43 0	_	23.95	0	-0.01%	-0.01%	0.00%	
1120	242709 05M FUNK	139 243392	1 OSTECUDE	139 1	242708 05M FUNK	243392	05TECUDE	1	120	205 AEP	167	167 Page Case	0	30 0		23.92	0	0.13%	0.13%	0.00%	
112	7 242568 05PD00VV	138 243874	S 058 IVNO	138 1	242568 0500011	2430/4	059 LVNC	1	120	205 AEF	1 67	245 Base Case	0	_ 20 0	-	23.00	0	-0.03%	-0.02%	0.11%	
1120	242546 0500TT 01	130 242/83	S OSBILING	120 1	242546 05PATE 01	242/00	05WYOMIN	1	130	205 AEP	70/	ANA Page Case	0	-39.0	_	23.00	U	0.02%	-0.02%	-0.04%	
1120	238530 02011EM	345 230344	1 O2DILEN-2	138 3	238530 02ATTEM	230314	02ALLEN-2	2	345/120	200 AEF 202 Amer	576	651 Baco Case	0	127 2	_	23.03	0	-0.07%	-0.07%	0.04%	
11.40	220000 UZALLEN	120 242000	OFCANENC	120 1	230530 UZALLEN	239344	OFCAMENC	1	120	202 AIDI	257	220 Page Case	0	-61 2		23.00	0	0.07%	-0.07%	0.01%	
1140	COOLD NERTORET	10 242980	U U U U U U U U U U U U U U U U U U U	1001	230313 NZBTOBET	242980	UJCANINC	1	138	LUZ/ ZUJ ATSI/ AEP	237	JJO DASE CASE	0	-01.3	-	23.04	U	-0.30%	-0.30%	0.1370	

	А		В	С	D	E	F	G	H I	J	К	L	М	N	0	Р	Q	R	S	T U
1141 238891 02LESIDE	138 239195 02MILIRN	138 1	238891	02LESIDE	239195	02MILIRN	1	1 138	202 ATSI	161	194	Base Case	0	38.4		23.83	0	-0.23%	-0.23%	0.04%
1142 243495 05DAVIDS	138 243560 05ROBERT	138 1	243495	05DAVIDS	243560	05ROBERT	1	1 138	205 AEP	335	366	Base Case	0	-79.8	-	23.82	0	-0.04%	-0.04%	0.00%
1143 238896 02LIMECT	138 239371 02DOWLING	138 1	238896	02LIMECT	239371	02DOWLING	1	1 138	202 ATSI	288	353	Base Case	0	-68.6	-	23.82	0	-0.03%	-0.03%	0.01%
1144 242539 05ANGLBR	138 242672 05HOPKINSX	138 1	242539	05ANGLBR	242672	05HOPKINSX	1	1 138	205 AEP	272	335	Base Case	0	64.7	-	23.78	0	-0.01%	-0.01%	-0.19%
1145 242951 05ADDISONZ	138 243126 05THIVENER1Z	138 1	242951	05ADDISONZ	243126	05THIVENER1Z	1	1 138	205 AEP	167	245	Base Case	0	-39.7	-	23.77	0	-0.02%	-0.02%	0.10%
1146 238941 02MANSFD	345 239358 02GLENWILLOW	345 1	238941	02MANSFD	239358	02GLENWILLOW	1	1 345	202 ATSI	1380	1646	Base Case	0	327.9		23.76	0	0.26%	0.26%	0.17%
1147 244070 05JUNE ROAD	138 247704 05PANDA RDSS	138 1	244070	05JUNE ROAD	247704	05PANDA RDSS	1	1 138	205 AEP	296	409	Base Case	0	-70.3	-	23.75	0	0.10%	0.10%	0.02%
1148 243856 05JUG ST 1-6	138 246385 05JUGST 7-11	138 Z2	243856	05JUG ST 1-6	246385	05JUGST 7-11	22	138	205 AEP	747	747	Base Case	0	177.3	-	23.73	0	0.00%	0.00%	0.00%
1149 238575 02BLUBEL	138 238864 02KNOX	138 1	238575	02BLUBEL	238864	02KNOX	1	1 138	202 ATST	153	199	Base Case	0	36.3		23.73	0	0.03%	0.03%	-0.02%
1150 242708 05M FUNK	138 245845 05MFUNK1 XFL	138 21	242708	0.5M FUNK	245845	05MFUNK1 XFL	21	138	205 AEP	696	747	Base Case	0	-165.1	-	23.72	0	0.04%	0.04%	-0.36%
1151 235311 01CABNEG	138 243347 05TTDD 3-4	138 1	235311	01CABNEG	243347	05TIDD 3-4	1	1 138	201/205 AP/AEP	187	240	Base Case	0	-44.4	-	23.72	0	-0.40%	-0.40%	-0.02%
1152 243246 05AUBUNC	138 243247 05AUBURN	138 1	243246	05AUBUNC	243247	05AUBURN	1	1 138	205 AEP	251	335	Base Case	0	-59 5	_	23.72	0	0.40%	0.05%	0.03%
1153 242853 05WURNO	138 934750 AD1-102 TAP	138 1	243240	0 5WURNO	934750	AD1-102 TAP	1	1 138	205 AEP	251	251	Base Case	0	59.4	-	23.68	0	-0 11%	-0.11%	-0.16%
1154 242600 05CI VED2	130 934750 AD1-102 TAF	120 1	242000	0.0 FCT VED2	024750	AD1-102 TAP		1 120	205 AEF	251	201	Base Case	0	-50.2	_	23.00	0	-0.11%	0.11%	-0.10%
1154 242803 03CLITK2	130 354750 ADI-102 IAP	130 1	242009	O O U D MI TINI	250000	ADI-IUZ IAP		1 130	205 AEF	201	201	Base Case	0	-39.3		23.63	0	-0.11%	-0.11%	-0.10%
1155 230041 08HAMLIN	138 250096 085EWARD	136 1	250041	OOHAMLIN	250096	1 SEWARD		1 130	212 DE0&K	1400	1720	Base Case	0	-66.7	-	23.61	0	0.01%	0.01%	0.00%
1150 238 /81 U2HANNA	345 253902 15BVRVAL	345 I	238781	02HANNA	253902	ISBVRVAL		1 345	202/215 ATS1/DLCO	1486	1/39	Base Case	0	-350.5	-	23.58	0	0.45%	0.45%	0.04%
1157 239369 02TORONTO	138 240214 02PENNANTTAP	138 1	239369	02TORONTO	240214	02PENNANTTAP		1 138	202 ATSI	278	339	Base Case	0	65.5	-	23.57	0	-0.01%	-0.01%	0.06%
1158 243211 05ALLEN	345 243232 05SORENS	345 1	243211	USALLEN	243232	U5SORENS		1 345	205 AEP	897	897	Base Case	0	-211.3	-	23.56	0	-0.19%	-0.19%	0.07%
1159 243773 05LTV1	138 246267 05WAGENHALS1	138 1	243773	3 05LTV1	246267	05WAGENHALS1	1	1 138	205 AEP	296	296	Base Case	0	-69.7	-	23.55	0	0.00%	0.00%	0.00%
1160 238661 02DKQ-16	138 238741 02FWLSQ3	138 1	238661	02DKQ-16	238741	02FWLSQ3		1 138	202 ATSI	237	287	Base Case	0	-55.8	-	23.54	0	0.02%	0.02%	0.00%
1161 242523 05BAKER	345 242529 05TRISTA	345 1	242523	05BAKER	242529	05TRISTA]	1 345	205 AEP	1409	1409	Base Case	0	331.6	-	23.53	0	0.07%	0.07%	0.81%
1162 243143 05WBELLA	138 247756 05GLENCOE	138 1	243143	3 O5WBELLA	247756	05GLENCOE	1	1 138	205 AEP	296	413	Base Case	0	69.7		23.53	0	0.07%	0.07%	0.00%
1163 253077 09STUART	345 342838 7SPURLOCK	345 1	253077	09STUART	342838	7SPURLOCK	1	1 345	209/320 DAY/EKPC	1240	1532	Base Case	0	-291.6	-	23.52	0	-1.04%	-1.04%	0.03%
1164 242630 05E.RIVE	138 242786 05S.PRINCETN	138 1	242630	05E.RIVE	242786	05S.PRINCETN	1	1 138	205 AEP	205	205	Base Case	0	48.2	-	23.51	0	-0.08%	-0.08%	-0.08%
1165 250099 08SIMPSN	138 250120 08TWYMI2	138 1	250099	08SIMPSN	250120	08TWYMI2	1	1 138	212 DEO&K	298	298	Base Case	0	-69.9	-	23.47	0	0.05%	0.05%	0.03%
1166 243304 05GUARDN	138 243385 05TWIN B	138 1	243304	05GUARDN	243385	05TWIN B	1	1 138	205 AEP	251	330	Base Case	0	-58.9	-	23.47	0	-0.09%	-0.09%	-0.06%
1167 242854 05W.WELCH SS	138 242855 05WYOMIN	138 1	242854	05W.WELCH SS	242855	05WYOMIN	1	1 138	205 AEP	335	392	Base Case	0	-78.6	-	23.47	0	-0.05%	-0.05%	-0.30%
1168 238768 02GRNFLD	138 239290 02HAYES	138 2	238768	02GRNFLD	239290	02HAYES	2	2 138	202 ATSI	233	282	Base Case	0	-54.7	-	23.46	0	-0.02%	-0.02%	-0.01%
1169 242818 05STOTES	138 242824 05TAMSM1	138 1	242818	05STOTES	242824	05TAMSM1	1	1 138	205 AEP	150	180	Base Case	0	-35.2	-	23.44	0	-0.04%	-0.04%	-0.10%
1170 242787 05MIDDLEB SS	138 253111 09MIDDLE	138 Z1	242787	05MIDDLEB SS	253111	09MIDDLE	Z1	138	205/209 AEP/DAY	196	224	Base Case	0	45.9	-	23.42	0	0.07%	0.07%	0.12%
1171 238588 02BRNSWK	138 239125 02STONEY	138 1	238588	02BRNSWK	239125	02STONEY	1	1 138	202 ATSI	233	282	Base Case	0	54.5	-	23.41	0	-0.13%	-0.13%	-0.01%
1172 242527 05M FUNK	345 247470 05MFUNK2 XFL	138 2	242527	05M FUNK	247470	05MFUNK2 XFL	2	2 345/138	205 AEP	732	828	Base Case	0	171.3	-	23.41	0	0.05%	0.05%	-0.38%
1173 238629 02CLVRDL	138 239354 02HARMON	138 2	238629	02CLVRDL	239354	02HARMON	2	2 138	202 ATSI	448	516	Base Case	0	-104.8		23.4	0	0.00%	0.00%	0.07%
1174 238629 02CLVRDL	138 239354 02HARMON	138 1	238629	02CLVRDL	239354	02HARMON	1	1 138	202 ATSI	448	516	Base Case	0	-104.8		23.39	0	0.00%	0.00%	0.07%
1175 238530 02ALLEN	345 238500 02ALLEN-1	138 1	238530	02ALLEN	238500	02ALLEN-1	1	1 345/138	202 ATSI	492	632	Base Case	0	114.9	-	23.35	0	-0.06%	-0.06%	0.01%
1176 244868 05BRICE	138 246760 05REFUGE	138 1	244868	05BRICE	246760	05REFUGE	3	1 138	205 AEP	191	222	Base Case	0	-44.6	-	23.35	0	-0.03%	-0.03%	0.01%
1177 242684 05J.FERR	138 242859 05WYTHE2	138 1	242684	05J.FERR	242859	05WYTHE2	1	1 138	205 AEP	287	337	Base Case	0	67	22	23.33	0	0.06%	0.06%	0.20%
1178 238569 02BEAVER	345 239289 02HAYES	345 1	238569	02BEAVER	239289	02HAYES	1	1 345	202 ATST	1508	1844	Base Case	0	-351.6	-	23.32	0	-1.92%	-1.92%	-0.27%
1179 242959 05BELDVL	138 244943 05PACKARD BP	138 1	242959	05BELDVL	244943	05PACKARD BP	1	1 138	205 AEP	251	327	Base Case	0	-58.5	-	23.3	0	0.02%	0.02%	0.01%
1180 242509 05AXTON	765 242545 05AXTONX	138 1	242509	05AXTON	242545	05AXTONX		1 765/138	205 AEP	801	906	Base Case	0	186.5	-	23 28	0	-0.56%	-0.55%	-4 33%
1181 239079 025 FAST	138 239242 02HOLT-A	138 1	239079	029 FAST	230242	02HOLT-A	1	1 138	202 ATST	194	237	Base Case	0	=45.1	-	23.20	0	0.07%	0.07%	0.00%
1182 243222 05ENTL C	345 243202 05FALL C	130 2	233073	OSENIL C	2/3202	OSFALL C		2 2/5/120	202 AISI 205 AFP	712	765	Base Case	0	165.9	_	23.27	0	-0.03%	-0.03%	0.03%
1192 253005 00DATH	129 252106 ODIGADIT	120 1	243222	ODDATU	243292	OOMCADI T		1 120	200 ALF	201	274	Base Case	0	60.0		23.20	0	-0.03%	0.03%	0.03%
1184 246187 05WADTON 42	138 246101 05WADDON MEN	139 71	246107	OSWARTON US	200100	OSWARTON MVW	71	120	205 205	202	3/4	Base Case	0	69		23.21	0	0.04%	0.04%	0.04%
1185 242984 05 CUARTI	138 932050 202-015 MAR	138 1	240107		740131	AC2_015 TAP	101	1 1 20	205 AFP	136	167	Base Case	0	31 5	_	23.21	0	-0 12%	-0 1 2%	-0.09%
1186 242024 05U0MADD	130 932050 ACZ-015 TAP	130 1	242984	05UOWARD	932030	AC2-015 TAP		1 100	205 AEP	100	167	Page Case	0	_21 /	_	23.13	U	-0.12%	-0.12%	-0.09%
1107 041000 000WARD	138 932050 AC2-015 TAP	138 1	243024	I USHOWARD	932050	ACZ-015 TAP		1 138	205 AEP	130	167	Base Case	0	-31.4		23.11	0	-0.12%	-0.12%	-0.09%
1187 241929 02AVQ3	138 241930 02AVQ4	138 1	241929	02AVQ3	241930	UZAVQ4	-	1 138	202 ATS1	999	999	Base Case	U	-230.8	-	23.11	0	-0.56%	-0.56%	-0.07%
1188 242720 05MONETA	138 243892 05MEADS8	138 1	242720	0 5MONETA	243892	U5MEADS8		1 138	205 AEP	409	409	Base Case	0	94.5	-	23.1	0	-0.06%	-0.06%	0.94%
1189 240348 02GROVWDQ13	138 241935 02CLINTON	138 ZL	240348	02GROVWDQ13	241935	02CLINTON	ZL	138	202 ATSI	347	423	Base Case	0	-80.1	-	23.09	0	0.00%	0.00%	0.00%
1190 245977 05GRISTMILL	345 245983 05GRISTMILL	138 1	245977	05GRISTMILL	245983	05GRISTMILL	1 3	1 345/138	205 AEP	450	450	Base Case	0	103.9		23.08	0	0.01%	0.01%	0.04%
1191 238746 02GALION	138 239308 02MR-ETH	138 1	238746	02GALION	239308	02MR-ETH	1	1 138	202 ATSI	161	194	Base Case	0	37.1	-	23.03	0	0.07%	0.07%	-0.08%
1192 242719 05MONEL	138 242765 05REUSENS1	138 1	242719	05MONEL	242765	05REUSENS1	1	1 138	205 AEP	388	409	Base Case	0	89.3	-	23.02	0	-0.06%	-0.06%	-0.50%
1193 243674 05BELHAV	138 243681 05CHADWICK1	138 1	243674	05BELHAV	243681	05CHADWICK1	1	1 138	205 AEP	251	251	. Base Case	0	-57.7		23	0	0.02%	0.02%	0.05%
1194 243139 05WAGENHALS2	138 246267 05WAGENHALS1	138 Z1	243139	05WAGENHALS2	246267	05WAGENHALS1	Z1	138	205 AEP	329	361	Base Case	0	-75.6		22.99	0	-0.13%	-0.13%	0.03%
1195 242641 05FOREST	138 242734 05NEWLDN	138 1	242641	05FOREST	242734	05NEWLDN	1	1 138	205 AEP	167	240	Base Case	0	-38.4	-	22.98	0	-0.01%	-0.01%	0.51%
1196 243532 05KIRK	138 244020 05MINK	138 1	243532	05KIRK	244020	05MINK	1	1 138	205 AEP	338	338	Base Case	0	77.7	-	22.98	0	0.03%	0.03%	0.00%
1197 242537 05AMOS	138 242617 05DALEWD	138 1	242537	05AMOS	242617	05DALEWD	1	1 138	205 AEP	296	398	Base Case	0	68	-	22.97	0	-0.05%	-0.05%	-0.06%
1198 244866 05THORPE SS	138 247152 05GARY	138 1	244866	05THORPE SS	247152	05GARY	1	1 138	205 AEP	296	398	Base Case	0	-67.8	-	22.89	0	-0.11%	-0.11%	-0.29%
1199 238772 02GTQ-12	138 238793 02HDGQ12	138 1	238772	2 02GTQ-12	238793	02HDGQ12	1	1 138	202 ATSI	273	332	Base Case	0	-62.5	-	22.88	0	0.09%	0.09%	0.01%
1200 250050 08KMPER1	138 250082 08P.UN1	138 1	250050	08KMPER1	250082	08P.UN1	1	1 138	212 DEO&K	299	299	Base Case	0	-68.4	-	22.87	0	0.01%	0.01%	-0.02%

		A		В	С	D	E	F	G	H I	J	K	Ľ.	М	N	0	Р	Q	R	S	T U
1201 242512 05CLOVRD	765	242514 05J.FERR	765 1	242512	05CLOVRD	242514	05J.FERR	1	765	205 AEP	3859	3859	Base Case	0	-881.3	-	22.84	0	-4.53%	-4.53%	-5.49%
1202 238570 02BEAVER	138	241932 02AMH.MUN2	138 1	238570	02BEAVER	241932	02AMH.MUN2	1	138	202 ATSI	498	573	Base Case	0	113.6	-	22.81	0	-0.29%	-0.29%	-0.02%
1203 247106 05VARNER	138	247108 05SOWERS	138 1	247106	0.5VARNER	247108	05SOWERS	1	138	205 AEP	257	360	Base Case	0	58.6	-	22.8	0	-0.14%	-0.14%	0.01%
1204 253057 090HH	138	253111 09MIDDLE	138 1	253057	09000	253111	09MTDDLE	1	138	209 DAY	185	185	Base Case	0	-42 2	-	22.8	0	0.07%	0.07%	0.12%
1205 242556 05BLUEFLD AV	138	242707 05LOWESM	138 1	242556	05BLUEFLD AV	242707	05LOWESM	1	138	205 AEP	251	251	Base Case	0	-57.2		22 78	0	-0.13%	-0.13%	-0.26%
1205 243134 05W CANTON1	139	245797 05W CANTON2	138 71	2/313/	05W CANTONI	245707	0.5W CANTON2	71	139	205 755	424	197	Base Case	0	96.5	-	22.76	0	-0.03%	-0.03%	0.08%
1200 243134 05W.CANTONI	120	246010 05041002	120 1	243134	OSCANNELV CC	245757	05W.CANTONZ	1	120	205 AEF	222	210	Base Case	0	-50.9		22.70	0	0.03%	0.03%	-0.10%
1207 242375 03CANNELV 33	130	238006 031 NOVEN	130 1	242979	OCCANNELV 55	220010	0 JFHILOZ	1	130	203 AEF	150	100	Base Case	0	-30.8		22.70	0	0.23/0	0.23/0	-0.10%
1200 238388 02BRRSTD	120	247064 OFLOGWOWN	130 1	230300	OZBRASID	230900	OZLINGVEW	1	130	202 AISI	100	192	Base Case	0	54.0	-	22.75	0	0.11%	0.11%	-0.04%
1209 243031 05NDELPH	138	247864 USLOGTOWN	138 1	243051	OSNDELPH	24/864	OSLOGIOWN	1	138	205 AEP	296	413	Base Case	0	-67.2	-	22.7	0	-0.10%	-0.10%	-0.07%
1210 242924 USHANG R	/65	242927 05MARQUI	765 1	242924	USHANG R	242927	USMARQU1	1	765	205 AEP	4047	45/1	Base Case	U	917.4	-	22.67	0	0.80%	0.80%	2.40%
1211 242/38 05OREBANK BP	138	242850 05WOLFH1	138 1	242738	USOREBANK_BP	242850	05WOLFH1	1	138	205 AEP	167	167	Base Case	0	-37.9	-	22.66	0	0.03%	0.03%	-0.07%
1212 243481 05CANAL	138	243586 05WHITER	138 1	243481	05CANAL	243586	05WHITER	1	138	205 AEP	209	209	Base Case	0	-47.4	-	22.66	0	-0.07%	-0.07%	-0.03%
1213 243085 05S CAD	138	247016 05GABLSS	138 1	243085	05S CAD	247016	05GABLSS	1	138	205 AEP	185	185	Base Case	0	-41.9	-	22.65	0	0.21%	0.21%	-0.05%
1214 243138 05W.LIBERTYZ	138	243347 05TIDD 3-4	138 2	243138	05W.LIBERTYZ	243347	05TIDD 3-4	2	138	205 AEP	187	205	Base Case	0	-42.4	-	22.65	0	0.15%	0.15%	-0.10%
1215 243497 05DELANO	138	247862 05TUSCANY	138 1	243497	05DELANO	247862	05TUSCANY	1	138	205 AEP	383	449	Base Case	0	86.8	-	22.65	0	-0.02%	-0.02%	0.09%
1216 238819 02ILQ-12	138	239050 02PV Q2	138 1	238819	02ILQ-12	239050	02PV Q2	1	138	202 ATSI	225	295	Base Case	0	-51	-	22.64	0	-0.09%	-0.09%	-0.01%
1217 238871 02KY-HS	138	239154 02W.FREM	138 1	238871	02KY-HS	239154	02W.FREM	1	138	202 ATSI	251	290	Base Case	0	-56.7	-	22.59	0	-0.04%	-0.04%	-0.01%
1218 238985 02NASQ18	138	240248 02DLQ-18	138 1	238985	02NASQ18	240248	02DLQ-18	1	138	202 ATSI	137	174	Base Case	0	-30.9	-	22.58	0	-0.01%	-0.01%	0.00%
1219 238557 02B.M.F.	138	238715 02FERNWY	138 1	238557	02B.M.F.	238715	02FERNWY	1	138	202 ATSI	212	239	Base Case	0	-47.7	-	22.51	0	0.03%	0.03%	0.00%
1220 238597 02CADQ17	138	238984 02NASQ17	138 1	238597	02CADQ17	238984	02NASQ17	1	138	202 ATSI	137	174	Base Case	0	30.8	-	22.49	0	-0.02%	-0.02%	0.00%
1221 242945 05SW LIM	345	243122 05SW LIM	138 2	242945	05SW LIM	243122	05SW LIM	2	345/138	205 AEP	495	544	Base Case	0	111.3	-	22.48	0	0.06%	0.06%	0.11%
1222 238853 02KDTPQ1	138	239001 02NFLDQ1	138 1	238853	02KDTPQ1	239001	02NFLDQ1	1	138	202 ATSI	273	332	Base Case	0	-61.3	-	22.47	0	-0.14%	-0.14%	0.05%
1223 239030 020TTAWA	138	239154 02W.FREM	138 1	239030	020TTAWA	239154	02W.FREM	1	138	202 ATSI	251	290	Base Case	0	-56.4	-	22.47	0	-0.04%	-0.04%	-0.01%
1224 243099 05SHAWNR	138	243122 05SW LIM	138 1	243099	05SHAWNR	243122	05SW LIM	1	138	205 AEP	335	388	Base Case	0	-75.2	-	22.44	0	0.10%	0.10%	0.12%
1225 243217 05DEQUIN	345	243878 05MEADOW	345 1	243217	05DEQUIN	243878	05MEADOW	1	345	205 AEP	1409	1959	Base Case	0	316.2	-	22.44	0	0.09%	0.09%	0.45%
1226 238853 02KDTPQ1	138	238882 02LE Q-1	138 1	238853	02KDTPQ1	238882	02LE Q-1	1	138	202 ATSI	273	332	Base Case	0	61.2	-	22.42	0	0.00%	0.00%	0.00%
1227 238570 02BEAVER	138	238845 02JONSON	138 1	238570	02BEAVER	238845	02JONSON	1	138	202 ATSI	233	282	Base Case	0	52.1	-	22.37	0	-0.20%	-0.20%	-0.02%
1228 242607 05CLOVED	138	244746 05MT.UNION	138 1	242607	05CLOVRD	244746	05MT.UNION	1	138	205 AEP	251	335	Base Case	0	56.1	-	22.37	0	0.01%	0.01%	0.00%
1229 242585 05CAVE SPB17	138	246981 05SUNSCA	138 1	242585	05CAVE SPR17	246981	05SUNSCA	1	138	205 AEP	187	240	Base Case	0	-41.8		22.36	0	0.05%	0.05%	0.36%
1230 242849 05W.KINGSPT1	138	245220 05W.KINGSPT2	138 21	242849	05W.KINGSPT1	245220	0.5W.KINGSPT	2 7.1	138	205 AEP	307	307	Base Case	0	-68.6	-	22.36	0	-0.01%	-0.01%	0.04%
1231 242523 05BAKER	345	243670 05BAKEB	138 2	242523	05BAKER	243670	05BAKER	2	345/138	205 AEP	805	861	Base Case	0	179.9	-	22.35	0	0.19%	0.19%	0.11%
1232 246606 05WETZEL SS	138	247165 05SRUNSS	138 1	246606	05WETZEL SS	247165	05SBUNSS	1	138	205 AEP	226	286	Base Case	0	50.5	-	22.34	0	0.00%	0.00%	0.00%
1233 238629 02CLVBDL	138	239123 02STAR	138 1	238629	02CLVBDL	239123	02STAR	1	138	202 ATST	233	282	Base Case	0	51 9		22.29	0	-0.02%	-0.02%	0.09%
1234 238871 02KY-HS	138	239030 020772002	138 1	238871	02KV-HS	239030	0200773WA	1	138	202 ATST	251	290	Base Case	0	55.9	-	22.29	0	-0.04%	-0.04%	-0.01%
1235 238569 02PEAVED	345	239725 021 AKEAVE	345 1	239569	02DEAVED	230725	O2IAKEAVE	1	345	202 ATOT	1390	1646	Base Case	0	307.3	_	22.20	0	-1 20%	-1 29%	-0.09%
1236 238854 02KDTDO2	120	239992 021E 0-2	120 1	220005/	02BERVER	239723	OZIAREAVE	1	120	202 ATSI	272	2010	Base Case	0	60.7		22.20	0	0.00%	0.00%	0.00%
1230 230034 02KDIFQ5	130	242709 05 CHODE	130 1	230034	02KDIFQ5	230003	OZLE Q-3	1	130	202 A131	107	332	Base Case	0	41 6	074	22.23	0	0.00%	0.00%	0.00%
1237 242739 030REBANK	120	242796 055h0K1	130 1	242733	050KEBANK	242790	OFNDUTCC	1	130	205 AEF	150	200	Base Case	0	-41.0		22.23	0	-0.01/0	0.12%	-0.03%
1230 243161 032ANESV	120	247065 USNPHIS5	120 2	243101	OSZANESV	247003	OSNPHISS	1	130	205 AEP	105	212	Base Case	0	-33.3		22.2	0	0.15%	0.15%	0.02%
1243318 USJACKSUN RD	130	243305 USTWIN B	130 2	243318	ODDDKGTD	243385	OOMIT TON	2	138	203 AEP	185	255	Dase Case	U	41.1	-	22.2	0	-0.05%	-0.05%	-0.04%
1240 238586 UZBRKSID	138	239195 UZMILIRN	138 1	238586	UZBRKSID	239195	UZMILIRN	1	138	ZUZ ATSI	153	192	base Case	U	-33.9	-	22.15	0	-0.23%	-0.23%	0.04%
1241 238528 UZAETNA	138	238/U/ UZEVANS	138 1	238528	UZAETNA	238707	UZEVANS	1	138	202 ATS1	233	282	Base Case	0	-51.6	-	22.15	0	0.10%	0.10%	0.07%
1242 238845 02JONSON	138	239726 UZLAKEAVE	138 2	238845	UZJONSÓN	239726	U2LAKEAVE	2	138	202 ATSI	160	192	Base Case	0	-35.4	-	22.14	0	0.05%	0.05%	-0.02%
1243 250013 08DIMICK	138	250083 08P.UN2	138 1	250013	USDIMICK	250083	082.UN2	1	138	212 DEO&K	198	198	Base Case	0	-43.8	-	22.13	0	-0.05%	-0.05%	-0.03%
1244 238821 02INLAND	345	239358 02GLENWILLOW	345 1	238821	UZINLAND	239358	U2GLENWILLOW	N 1	345	202 ATSI	1542	1878	Base Case	0	-340.8	-	22.1	0	0.47%	0.47%	-0.11%
1245 239280 02CRNBRY	500	239281 U2CRNBRY	138 2	239280	UZCRNBRY	239281	U2CRNBRY	2	500/138	202 ATSI	751	902	Base Case	0	165.7	-	22.06	0	0.76%	0.76%	0.10%
1246 239280 02CRNBRY	500	239281 02CRNBRY	138 1	239280	02CRNBRY	239281	02CRNBRY	1	500/138	202 ATSI	751	902	Base Case	0	165.7	-	22.06	0	0.76%	0.76%	0.10%
1247 243068 05NZANEV	138	243161 05ZANESV	138 1	243068	05NZANEV	243161	05ZANESV	1	138	205 AEP	205	284	Base Case	0	45.2	-	22.04	0	-0.06%	-0.06%	-0.06%
1248 243572 05SHANON	138	244232 05SHANONRSS8	138 Z1	243572	05SHANON	244232	05SHANONRSS	8 Z1	138	205 AEP	329	350	Base Case	0	-72.5	-	22.03	0	-0.01%	-0.01%	0.01%
1249 238854 02KDTPQ3	138	239003 02NFLDQ3	138 1	238854	02KDTPQ3	239003	02NFLDQ3	1	138	202 ATSI	273	332	Base Case	0	-60.1	· · · · ·	22.03	0	-0.14%	-0.14%	0.04%
1250 242619 05DANVL1	138	242771 05RIVERS	138 1	242619	05DANVL1	242771	05RIVERS	1	138	205 AEP	251	251	Base Case	0	55.3		22.01	0	-0.03%	-0.03%	-0.27%
1251 239134 02TANGY	138	240706 02NATIONAL	138 1	239134	02TANGY	240706	02NATIONAL	1	138	202 ATSI	233	282	Base Case	0	51.3	-	22	0	0.05%	0.05%	-0.01%
1252 243674 05BELHAV	138	243676 05BELLF2	138 1	243674	05BELHAV	243676	05BELLF2	1	138	205 AEP	219	251	Base Case	0	48	-	21.92	0	0.02%	0.02%	0.05%
1253 238733 02FOXQ12	138	241935 02CLINTON	138 1	238733	02FOXQ12	241935	02CLINTON	1	138	202 ATSI	347	423	Base Case	0	75.8	-	21.83	0	0.10%	0.10%	0.02%
1254 242573 05CABELL	138	242866 05MERRIT	138 1	242573	05CABELL	242866	05MERRIT	1	138	205 AEP	167	167	Base Case	0	-36.5	-	21.83	0	-0.07%	-0.07%	-0.05%
1255 242842 05W HUNT	138	244462 05SHOALS	138 1	242842	05W HUNT	244462	05SHOALS	1	138	205 AEP	335	392	Base Case	0	73.1	-	21.83	0	-0.05%	-0.05%	-0.14%
1256 238531 02ALLNJ	138	239129 02SYLVNA	138 1	238531	02ALLNJ	239129	02SYLVNA	1	138	202 ATSI	308	376	Base Case	0	67.2	-	21.8	0	-0.05%	-0.05%	0.01%
1257 243254 05BURNWO	138	247433 05CHARGER	138 1	243254	05BURNWO	247433	05CHARGER	1	138	205 AEP	251	335	Base Case	0	-54.7		21.79	0	-0.09%	-0.09%	-0.06%
1258 238530 02ALLEN	345	256583 18MOROCCO	345 1	238530	02ALLEN	256583	18MOROCCO	1	345	202/218 ATSI/METC	1517	1793	Base Case	0	-330.1	-	21.76	0	-0.86%	-0.86%	-0.15%
1259 249989 08BKJ246	138	250000 08COLDSP	138 1	249989	08BKJ246	250000	08COLDSP	1	138	212 DEO&K	264	264	Base Case	0	57.4	-	21.74	0	0.03%	0.03%	0.01%
1260 242823 05TACKCR	138	242836 05TURNE1	138 1	242823	05TACKCR	242836	05TURNE1	1	138	205 AEP	296	296	Base Case	0	64.3	-	21.73	0	-0.06%	-0.06%	-0.07%

A	B C D	E	F	G	НІ	J	К	Ľ.	М	N	0 P	Q	R	S	T U
1261 243297 05GERMAN 138 243353 050LIVE 138 1	243297 05GERMAN 243353	050LIVE		L 138	205 AEP	257	330) Base Case	0	-55.8	- 21.7	3	0 - 0.09%	-0.09%	-0.06%
1262 242646 05FT.ROB SS 138 245802 05FT.ROBINSN 138 Z1	242646 05FT.ROB SS 245802	05FT.ROBINSN	Z1	138	205 AEP	164	180	Base Case	0	35.6	- 21.	7	0.00%	0.00%	0.01%
1263 243688 055. PORT MTR 138 244686 05VANCEBURG 138 Z1	243688 055. PORT MTR 244686	05VANCEBURG	Z1	138	205 AEP	29	29	Base Case	0	6.3	- 21.6	7	0.00%	0.00%	0.00%
1264 242765 05REUSENS1 138 246229 05REUSENS2 138 71	242765 05BEUSENS1 246229	05REUSENS2	71	138	205 AEP	136	167	Base Case	0	29.5	- 21.6	7	0 -0.10%	-0.10%	-0.11%
1265 243312 05HUMMET. 138 243367 05BOCKCB 138 1	243312 05HUMMEL 243367	05BOCKCB		138	205 AEP	251	273	Base Case	0	54 3	- 21.6	4	-0.03%	-0.03%	0.04%
1266 243217 05DEOUTN 345 243878 05MEDOW 345 2	243312 05060000 243879	05MEADOW		2 345	205 AED	1409	1050	Base Case	0	304.9	- 21.6	3	0.09%	0.09%	0.04%
1267 242227 05E201N 545 243070 05MEADOW 545 2	243217 05DEQ01N 243070	OSMEADOW		1 765/245	205 AEF	1679	1060	Base Case	0	262 0	- 21.0	2	0.03%	0.00%	1 79%
1260 242525 05RAMMER 705 242557 05RAMMER 545 4	242925 05RAMMER 242957	OSKAMMER		1 100/040	205 AEF	167	1000	Base Case	0	36 1	- 21.0	2	0 0.22%	-0.2278	0.27%
1260 242609 05CLITR2 136 242721 05MORGAN 136 1	242609 03CLI1R2 242721	05MORGAN		120	205 AEP	107	107	Base Case	0	17.2	- 21.6	2	0 0.07%	0.07%	0.27%
1209 242572 05B0RLHT 138 242607 05CLOVRD 138 1	242572 05BORLHT 242607	05CLOVRD		138	205 AEP	219	223	Base Case	0	-47.3	- 21.6	1	0 0.11%	0.11%	0.29%
1270 243292 USFALL C 138 246656 USPENDLETON2 138 1	243292 USFALL C 246656	USPENDLETON2		138	205 AEP	219	251	Base Case	U	47.3	- 21.6	1	0.00%	0.00%	0.03%
12/1 250043 08HANDS2 138 250047 08KENTN1 138 1	250043 08HANDS2 250047	08KENTNI		L 138	212 DEO&K	301	301	Base Case	0	65	- 21.	6	0.01%	0.01%	0.01%
1272 242529 05TRISTA 345 242835 05TRISTA 138 2	242529 05TRISTA 242835	05TRISTA		2 345/138	205 AEP	504	540) Base Case	0	108.9	- 21.	6	0 0.13%	0.13%	0.13%
12/3 243049 05NATRIUM12 138 243123 05SWITZE 138 1	243049 05NATRIUM12 243123	05SWITZE		138	205 AEP	187	240) Base Case	0	40.4	- 21.5	9	0 0.14%	0.14%	-0.03%
1274 238626 02CLAYBN 138 238873 02LAKMOR 138 1	238626 02CLAYBN 238873	02LAKMOR		1 138	202 ATSI	157	196	Base Case	0	33.9	- 21.5	9	0 -0.04%	-0.04%	0.05%
1275 242674 05HUFFCK 138 242779 05RUMCKZ 138 1	242674 05HUFFCK 242779	05RUMCKZ		L 138	205 AEP	296	413	Base Case	0	63.9	- 21.5	8	0 0.12%	0.12%	0.30%
1276 242964 05BOLIVA 138 243060 05NINTIE 138 1	242964 05BOLIVA 243060	05NINTIE		L 138	205 AEP	291	291	Base Case	0	62.8	- 21.5	7	0 0.42%	0.42%	-0.10%
1277 239318 02HENRTA 138 239319 02CAMDEN 138 1	239318 02HENRTA 239319	02CAMDEN		L 138	202 ATSI	158	190) Base Case	0	33.9	- 21.4	3	0.08%	0.08%	-0.11%
1278 242791 05SCHRIS 138 243874 05TECHDR 138 1	242791 05SCHRIS 243874	05TECHDR	1	L 138	205 AEP	158	167	Base Case	0	-33.8	- 21.4	2	0 0.13%	0.13%	0.11%
1279 243242 05ALLEN 138 243877 05DAWKNS 138 1	243242 05ALLEN 243877	05DAWKNS		L 138	205 AEP	167	245	Base Case	0	35.7	- 21.4	1	0.03%	0.03%	0.02%
1280 243207 05GRNTWN 765 243208 05JEFRSO 765 1	243207 05GRNTWN 243208	05JEFRSO		L 765	205 AEP	4047	4571	Base Case	0	-864.2	- 21.3	5	0 1.97%	1.97%	2.80%
1281 243572 05SHANON 138 246760 05REFUGE 138 1	243572 05SHANON 246760	05REFUGE		L 138	205 AEP	209	209	Base Case	0	44.6	- 21.3	5	0 -0.01%	-0.01%	0.01%
1282 242951 05ADDISONZ 138 243013 05GAVIN1 138 1	242951 05ADDISONZ 243013	05GAVIN1		1 138	205 AEP	167	167	Base Case	0	35.6	- 21.3	4	0 - 0.02%	-0.02%	0.10%
1283 246325 05NOTTINGH56 138 247131 05HOLLOWAY12 138 5	246325 05NOTTINGH56 247131	05HOLLOWAY12	1	5 138	205 AEP	278	339	Base Case	0	-59.3	- 21.3	3	0 - 0.03%	-0.03%	0.05%
1284 247131 05H0LLOWAY12 138 247460 05NOTTINGH34 138 6	247131 05HOLLOWAY12 247460	05NOTTINGH34		5 138	205 AEP	278	339	Base Case	0	59.3	- 21.3	2	- 0.03%	-0.03%	0.05%
1285 243242 05ALLEN 138 243391 05WAYNET 138 1	243242 05ALLEN 243391	05WAYNET		L 138	205 AEP	260	260) Base Case	0	55.4	- 21.	3	0.08%	0.08%	0.01%
1286 242935 05E LIMA 345 246929 05MADDOX 345 1	242935 05E LIMA 246929	05MADDOX		L 345	205 AEP	1868	1868	Base Case	0	-397.9	- 21.	3	0 -1.20%	-1.20%	-0.50%
1287 244658 05GRNTWN 138 249719 08DELCO 138 1	244658 05GRNTWN 249719	08DELCO		L 138	205/208 AEP/DEI	178	178	Base Case	0	37.9	- 21.2	9	0 0.01%	0.01%	-0.05%
1288 242914 05TIDD C XFL 138 243129 05TIDD C X 138 ZC	242914 05TIDD C XFL 243129	05TIDD C X	ZC	138	205 AEP	670	783	Base Case	0	142.6	- 21.2	8	0.03%	0.03%	-0.01%
1289 238664 02DOBINS 138 240214 02PENNANTTAP 138 1	238664 02DOBINS 240214	02PENNANTTAP		L 138	202 ATSI	278	339	Base Case	0	-59.1	- 21.2	4	0 -0.01%	-0.01%	0.06%
1290 239133 02TANGY 345 239134 02TANGY 138 5	239133 02TANGY 239134	02TANGY	1	5 345/138	202 ATSI	516	655	Base Case	0	109.5	- 21.2	2	0 0.02%	0.02%	0.07%
1291 240246 02CK 015 138 240247 02CK TP15 138 1	240246 02CK 015 240247	02CK TP15	3	138	202 ATSI	100	129	Base Case	0	-21.2	- 21.2	1	0.00%	0.00%	0.00%
1292 239056 02R.M. + 138 239062 02REACMT 138 1	239056 02R.M. + 239062	02REACMT		L 138	202 ATSI	57	57	Base Case	0	12.1	- 21.2	1	0.00%	0.00%	0.00%
1293 243585 05WAVERL 138 246942 05WARERD 138 1	243585 05WAVERL 246942	05WARERD		138	205 AEP	223	310) Base Case	0	47.3	- 21.	2	0 0.10%	0.10%	0.07%
1294 243471 05BETHEL 138 243560 05BOBERT 138 2	243471 05BETHEL 243560	05ROBERT		2 138	205 AEP	223	226	Base Case	0	-47.2	- 21.1	8	-0.04%	-0.04%	0.00%
1295 243536 05LS-TT 138 243539 05MARTON 138 1	243536 05LS-TT 243539	05MARION		138	205 AEP	426	426	Base Case	0	90.1	- 21.1	5	0.07%	0.07%	0.00%
1296 242712 05MARTN2 138 242744 05PATCTR 138 1	242712 05MARTN2 242744	05PATCTR		138	205 AEP	293	341	Base Case	0	62	- 21.1	4	-0.03%	-0.03%	0.24%
1297 243003 05EXVETTE 7 138 245615 058 DOINT2 138 1	243003 05FAVETTE 7 245615	055 POINT2		138	205 AFP	167	167	Base Case	0	= 35 3	- 21.1	2	-0.03%	-0.03%	0.07%
1298 238551 02aVON 345 238850 02.1UNTEE 345 1	238551 022VON 238850	02.TUNT PE		345	202 ATST	1228	1424	Base Case	0	259.2	- 21.1	1	-1.82%	-1.82%	-0.27%
1200 238645 02CW TP1 138 241827 025001 138 1	238645 02CW TP1 241927	020001		1 120	202 AISI	1220	516	Base Case	0	-92.6	- 21.1	1	-1.82%	-0.26%	-0.03%
1200 246752 05VACCET 245 246752 05VACCET 120 2	230043 02CW IFI 241327	OEWARGET		2 245/120	205 APD	435	017	Base Case	0	142 5	- 21.	1	0.20%	0.07%	0.04%
1201 2205 CO 020000 120 120 220140 02001 120 1	240732 UJVASSEL 240733	OOVASSEL		120	203 AEF	200	047	Base Case	0	42.0	- 21.	0	0.01%	0.07%	0.04%
1302 242241 0531 PTON 139 242254 0500000 120 1	243241 0551 PTON 242254	05 PUPNING		1 130	202 AIDI	200	223	Page Case	0	-16 1		5	-0.04%	-0.04%	-0.06%
1202 23241 UJALBIUN 130 243234 UJBURNWU 138 1	243241 USALBIUN 243234	0.2 ONTRA DO		130	200 AEP	219	200	Base Case	0	-40.1	- 21.0	2	0.09%	-0.05%	0.00%
1204 245005 020HTMB ITER 120 239028 020NTAKU 138 1	245005 05NEW 17552 042512	05 DOUTINE		130	202 AISI	31/	202	Dase Case	U	-00./	- 21.0	2	0.20%	-0.20%	0.05%
1305 242505 0501MCMD 128 242703 05001WELL 138 1	243505 USNEW LIBR2 24/513	058EVTON		1 130	205 AEP	210	212	Dase Case	0	-31.5	21.0	2	0.00%	-0.00%	0.00%
1305 242005 USULNUHK 138 242/93 USSEXTON 138 1	242605 USCLINCHR 242793	USSEXTON		138	ZUS AEP	219	223	base Case	0	46	- 21.0	2	0.02%	-0.02%	-0.19%
1300 259154 UZW.FKEM 138 Z3929U UZHAYES 138 1	239134 UZW.FREM 239290	02HAIES		138	202 ATSI	278	339	base Case	0	38.4	- 21.0	2	0.120	-0.23%	-0.04%
130/ 242529 USTRISTA 345 242835 USTRISTA 138 1	242529 USTRISTA 242835	USTRISTA	-	1 345/138	205 AEP	504	540	Base Case	0	105.9	- 21.0	2	0.12%	0.12%	0.13%
1300 242552 USBENT M 138 242708 05M FUNK 138 1	242552 USBENT M 242708	UOM FUNK		138	205 AEP	167	224	Base Case	0	-35.1	- 21.0	2	0.07%	-0.07%	-0.42%
1309 243543 05MILLCR 138 247804 05DEVOLA 138 1	243543 05MILLCR 247804	USDEVOLA		L 138	205 AEP	244	282	Base Case	0	51.2	- 2		0.27%	0.27%	0.20%
1310 250030 08FRDBT1 138 250031 08FRDBT2 138 Z1	250030 08FRDBT1 250031	U8FRDBT2	21	138	212 DEO&K	382	382	Base Case	0	-80.2	- 20.9	9	0.03%	0.03%	0.03%
1311 243471 05BETHEL 138 243479 05BROOKS 138 1	243471 05BETHEL 243479	05BROOKS		L 138	205 AEP	389	559	Base Case	0	-81.7	- 20.9	9	0.04%	0.04%	0.00%
1312 235404 01S CHST 138 242990 05E LIVR 138 1	235404 01S CHST 242990	05E LIVR		L 138	201/205 AP/AEP	187	205	Base Case	0	39.2	- 20.9	8	0.06%	0.06%	0.00%
1313 238845 02JONSON 138 239726 02LAKEAVE 138 1	238845 02JONSON 239726	02LAKEAVE		L 138	202 ATSI	265	339	Base Case	0	-55.6	- 20.9	7	0 0.07%	0.07%	-0.03%
1314 247374 05MUSKNG2B 138 247435 05MUSKNG_ESZ 138 ZJ	247374 05MUSKNG2B 247435	05MUSKNG_ESZ	ZJ	138	205 AEP	766	784	Base Case	0	-160.6	- 20.9	7	0 -0.18%	-0.18%	0.05%
1315 243665 05LESLIE 161 243667 05STINNE 161 1	243665 05LESLIE 243667	05STINNE		L 161	205 AEP	208	208	Base Case	0	-43.6	- 20.9	5	0 -0.03%	-0.03%	0.05%
1316 243249 05BEECH 138 243260 05CNTYRD 138 1	243249 05BEECH 243260	05CNTYRD		L 138	205 AEP	205	284	Base Case	0	43	- 20.9	5	-0.04%	-0.04%	-0.02%
1317 250119 08TWYMI1 138 250120 08TWYMI2 138 Z1	250119 08TWYMI1 250120	08TWYMI2	Z1	138	212 DEO&K	394	394	Base Case	0	82.4	- 20.	9	0.05%	0.05%	0.03%
1318 238783 02HARDIN 345 238795 02HDGQ14 138 4	238783 02HARDIN 238795	02HDGQ14		4 345/138	202 ATSI	397	488	Base Case	0	82.9	- 20.8	8	0 0.07%	0.07%	0.00%
1319 239986 02NEWSTACY 138 239988 02FE-POLO 138 1	239986 02NEWSTACY 239988	02FE-POLO		L 138	202 ATSI	275	333	Base Case	0	57.4	- 20.8	6	0 -0.13%	-0.13%	0.07%
1320 243484 05CITYCO 138 243494 05CTYPLN 138 1	243484 05CITYCO 243494	05CTYPLN		l 138	205 AEP	262	266	Base Case	0	54.6	- 20.8	6	0.00%	0.00%	0.00%

A	B C	D E	F G	H I	J	K L M	N O	Р	Q R	S	T U
1321 246325 05NOTTINGH56 138 247700 05YAGER 138 2	246325 05NOTTINGH56	247700 05YAGER	2 138	205 AEP	278	339 Base Case 0	57.9 -	20.84	0 -0.03%	-0.03%	0.04%
1322 238613 02CF Q-4 138 238742 02FWLSQ4 138 1	238613 02CF Q-4	238742 02FWLSQ4	1 138	202 ATSI	265	332 Base Case 0	55.1 -	20.81	0 -0.25%	-0.25%	-0.03%
1323 238615 02CHAMBR 345 238783 02HARDIN 345 1	238615 02CHAMBR	238783 02HARDIN	1 345	202 ATSI	1555	1892 Base Case 0	323.2 -	20.78	0 0.16%	0.16%	0.39%
1324 242822 05SWITCHBACK 138 244866 05THORPE SS 138 1	242822 05SWITCHBACK	244866 05THORPE SS	1 138	205 AEP	287	337 Base Case 0	-59.6 -	20.78	0 -0.11%	-0.11%	-0.29%
1325 238768 02GRNFLD 138 239290 02HAYES 138 1	238768 02GRNFLD	239290 02HAYES	1 138	202 ATSI	278	339 Base Case 0	-57.7 -	20.77	0 -0.02%	-0.02%	-0.01%
1326 239073 02ROBERT 138 239308 02MR-ETH 138 1	239073 02ROBERT	239308 02MR-ETH	1 138	202 ATSI	160	192 Base Case 0	-33.2 -	20.77	0 0.07%	0.07%	-0.08%
1327 238915 02LRN 02 138 239734 02CHARLESTON 138 1	238915 02LRN 02	239734 02CHARLESTON	1 138	202 ATSI	435	500 Base Case 0	-89.9 -	20.66	0 -0.38%	-0.38%	-0.03%
1328 238569 02BEAVER 345 239725 02LAKEAVE 345 2	238569 02BEAVER	239725 02LAKEAVE	2 345	202 ATSI	1534	1878 Base Case 0	316.6 -	20.64	0 -1.33%	-1.33%	-0.09%
1329 243217 05DEOUIN 345 249524 08WESTW2 345 2	243217 05DEOUTN	249524 08WESTW2	2 345	205/208 AEP/DET	1025	1217 Base Case 0	210.9 -	20.57	0 -0.02%	-0.02%	-0.04%
1330 238737 02FRNKLN 138 240068 02STAR FORGE 138 1	238737 02FRNKLN	240068 02STAR FORGE	1 138	202 ATST	200	242 Base Case 0	-41 -	20.52	0 -0.01%	-0.01%	0.00%
1331 238570 02BEAVER 138 239168 02WEINGT 138 1	238570 02BEAVER	239168 02WELNGT	1 138	202 ATST	278	339 Base Case 0	57 -	20.52	0 0.03%	0.01%	-0.08%
1337 230370 020EAVER 130 233100 02WEEKGI 130 1 1327 230746 0201 TON 130 233100 02WEEKGI 130 1	238376 0201 TON	239100 02WELINGI	1 130	202 ATSI	196	229 Page Case 0	40.2 -	20.51	0 0.03%	0.03%	-0.08%
1332 236740 02GALION 130 524750 AB2-151 TAF 130 1	238746 02GALION	224750 AB2-151 IAF	1 120	202 ATSI	200	220 Base Case 0	40.2 -	20.51	0 0.01%	0.01%	-0.08%
1333 236363 UZBRIDGE 136 236737 UZFRNALN 136 1	230303 02BRIDGE	238737 UZERNKLN	1 100	202 A151	200	242 base case 0	-41 -	20.31	0 -0.01%	-0.01%	0.00%
1334 238/// UZHAMIL+ 138 924/90 ABZ-131 TAP 138 1	238777 02HAMIL+	924790 AB2-131 TAP	1 138	202 ATSI	196	228 Base case 0	-40.2 -	20.49	0 0.07%	0.07%	-0.08%
1335 243127 05TIDD 1-2 138 243347 05TIDD 3-4 138 22	243127 05TIDD 1-2	243347 05TIDD 3-4	22 138	205 AEP	946	996 Base Case 0	193.6 -	20.47	0 -0.31%	-0.31%	-0.13%
1336 243127 05TIDD 1-2 138 243347 05TIDD 3-4 138 Z1	243127 05TIDD 1-2	243347 05TIDD 3-4	Z1 138	205 AEP	946	996 Base Case 0	193.6 -	20.47	0 -0.31%	-0.31%	-0.13%
1337 243139 05WAGENHALS2 138 244943 05PACKARD BP 138 1	243139 05WAGENHALS2	244943 05PACKARD BP	1 138	205 AEP	287	327 Base Case 0	58.7 -	20.46	0 0.02%	0.02%	0.01%
1338 243072 05PACKARD 138 243134 05W.CANTON1 138 1	243072 05PACKARD	243134 05W.CANTON1	1 138	205 AEP	205	205 Base Case 0	41.9 -	20.45	0 0.03%	0.03%	0.01%
1339 242547 05BAILS2 138 242696 05KOPPER 138 1	242547 05BAILS2	242696 05KOPPER	1 138	205 AEP	223	223 Base Case 0	45.5 -	20.4	0 -0.02%	-0.02%	0.15%
1340 243528 05KARL ROAD 138 243547 05MORSE 138 1	243528 05KARL ROAD	243547 05MORSE	1 138	205 AEP	338	338 Base Case 0	-68.8 -	20.35	0 0.07%	0.07%	0.02%
1341 238798 02HKQ-21 138 239052 02PV Q4 138 1	238798 02HKQ-21	239052 02PV Q4	1 138	202 ATSI	148	151 Base Case 0	-30.1 -	20.33	0 0.02%	0.02%	-0.08%
1342 239048 02PPPINE 138 239281 02CRNBRY 138 3	239048 02PPPINE	239281 02CRNBRY	3 138	202 ATSI	200	241 Base Case 0	-40.7 -	20.33	0 0.02%	0.02%	0.00%
1343 243279 05DIAMND 138 243304 05GUARDN 138 1	243279 05DIAMND	243304 05GUARDN	1 138	205 AEP	226	286 Base Case 0	-45.9 -	20.31	0 -0.09%	-0.09%	-0.06%
1344 243120 05SUNNYSIDE1 138 246267 05WAGENHALS1 138 1	243120 05SUNNYSIDE1	246267 05WAGENHALS1	1 138	205 AEP	296	392 Base Case 0	60.1 -	20.31	0 -0.18%	-0.18%	0.06%
1345 238666 02DS Q-3 138 238672 02DW Q-3 138 1	238666 02DS Q-3	238672 02DW Q-3	1 138	202 ATSI	273	332 Base Case 0	-55.4 -	20.28	0 -0.19%	-0.19%	-0.02%
1346 242939 05MARYSV 345 242945 05SW LIM 345 1	242939 05MARYSV	242945 05SW LIM	1 345	205 AEP	971	971 Base Case 0	196.3 -	20.22	0 0.56%	0.56%	0.47%
1347 238734 02FOXQ13 138 241935 02CLINTON 138 1	238734 02F0XQ13	241935 02CLINTON	1 138	202 ATSI	347	423 Base Case 0	70.1 -	20.22	0 0.09%	0.09%	0.01%
1348 242922 05FLTLCK 765 242923 05GAVIN 765 1	242922 05FLTLCK	242923 05GAVIN	1 765	205 AEP	4047	4349 Base Case 0	-818.1 -	20.21	0 1.88%	1.88%	4.15%
1349 243286 05EDISON2 138 246075 05EDISON1 138 ZA	243286 05EDISON2	246075 05EDISON1	ZA 138	205 AEP	277	277 Base Case 0	-56 -	20.2	0 -0.08%	-0.08%	-0.05%
1350 242646 05FT.ROB SS 138 242738 050REBANK BP 138 1	242646 05FT.ROB SS	242738 050REBANK BP	1 138	205 AEP	187	205 Base Case 0	-37.7 -	20.18	0 0.03%	0.03%	-0.07%
1351 243150 05WMTLLP 138 243818 05NFATRE 138 1	243150 05WMILLP	243818 05NFAIRE	1 138	205 AEP	200	200 Base Case 0	40.4 -	20.18	0 0.00%	0.00%	0.00%
1352 247064 05KANAWHA2 138 247068 05KANAWH ASZ 138 ZT	247064 05KANAWHA2	247068 05KANAWH ASZ	ZT 138	205 AEP	287	337 Base Case	-57.9 -	20.17	0 0.01%	0.01%	-0.09%
1353 243033 05THORNWD SS 138 247172 05EBERSO 138 1	243033 05THORNWD SS	247172 05EBEBSO	1 138	205 AEP	205	283 Base Case	-41.3 -	20.16	0 0.01%	0.01%	0.00%
1354 242569 05BRUSHT 138 242734 05NEWLDN 138 1	242569 05BRUSHT	242734 05NEWLDN	1 130	205 AFP	205	207 Base Case 0	-41.3 -	20.16	0 0.01%	0.01%	0.44%
1355 232015 02NGTAD 345 232018 02FULTON 345 1	239015 02NGTAR	239018 02FULTON	1 345	203 ABI	725	865 Base Case 0	-145.9 -	20.10	0 0.00%	0.01%	0.00%
1256 242247 05 TTD 2-4 128 247775 05 TVON 82 128 1	243247 05#IDD 2-4	247775 05DIXON 88	1 120	202 AISI	107	240 Page Case 0	27.6	20.13	0 0.00%	0.00%	0.00%
1350 243347 0511DD 3-4 138 247775 05DIXON SS 138 1	243547 USTIDD 3-4	247775 USDIXUN SS	1 245/120	205 AEP	107	240 Base Case 0	37.0 -	20.1	0 0.14%	0.14%	-0.09%
1357 242527 USM FUNK 345 245845 USMFUNKI_XFL 138 1	242527 05M FUNK	245845 05MFUNKI_XFL	1 345/138	205 AEP	823	948 Base case 0	165.2 -	20.07	0 0.04%	0.04%	-0.30%
1358 238841 02JNPRQ2 138 239050 02PV Q2 138 1	238841 02JNPRQ2	239050 02PV Q2	1 138	202 ATS1	267	332 Base Case 0	53.6 -	20.06	0 0.16%	0.16%	0.01%
1359 243139 05WAGENHALS2 138 243772 05LTV2 138 2	243139 U5WAGENHALS2	243772 05LTV2	2 138	205 AEP	296	296 Base Case 0	59.3 -	20.03	0 0.00%	0.00%	0.00%
1360 243309 05HILLCR 138 243391 05WAYNET 138 1	243309 05HILLCR	243391 05WAYNET	1 138	205 AEP	219	255 Base Case 0	-43.9 -	20.03	0 0.08%	0.08%	0.01%
1361 242982 05CENPOR 138 243047 05N PORT 138 1	242982 05CENPOR	243047 05N PORT	1 138	205 AEP	219	251 Base Case 0	-43.8 -	19.99	0 -0.01%	-0.01%	-0.02%
1362 242760 05PROGPK 138 242858 05WYTHE1 138 1	242760 05PROGPK	242858 05WYTHE1	1 138	205 AEP	285	337 Base Case 0	-57 -	19.99	0 -0.11%	-0.11%	-0.06%
1363 242564 05BRADL1 138 242565 05BRADL2 138 Z1	242564 05BRADL1	242565 05BRADL2	Z1 138	205 AEP	285	361 Base Case 0	-56.9 -	19.98	0 -0.09%	-0.09%	-0.24%
1364 242682 05JIM BRANCH 138 242854 05W.WELCH SS 138 1	242682 05JIM BRANCH	242854 05W.WELCH SS	1 138	205 AEP	335	392 Base Case 0	-66.9 -	19.98	0 -0.05%	-0.05%	-0.30%
1365 238663 02DLQ-15 138 238739 02FWLSQ1 138 1	238663 02DLQ-15	238739 02FWLSQ1	1 138	202 ATSI	273	332 Base Case 0	-54.5 -	19.97	0 0.02%	0.02%	0.00%
1366 243159 05WPHILO 138 247083 05NPHISS 138 1	243159 05WPHILO	247083 05NPHISS	1 138	205 AEP	167	245 Base Case 0	33.3 -	19.95	0 0.13%	0.13%	0.02%
1367 243528 05KARL ROAD 138 247510 05KARL RD123 138 Z1	243528 05KARL ROAD	247510 05KARL RD123	Z1 138	205 AEP	158	183 Base Case 0	31.5 -	19.92	0 0.00%	0.00%	0.00%
1368 243528 05KARL ROAD 138 247510 05KARL RD123 138 Z2	243528 05KARL ROAD	247510 05KARL RD123	Z2 138	205 AEP	158	183 Base Case 0	31.5 -	19.92	0 0.00%	0.00%	0.00%
1369 243528 05KARL ROAD 138 247510 05KARL RD123 138 Z3	243528 05KARL ROAD	247510 05KARL RD123	Z3 138	205 AEP	158	183 Base Case 0	31.5 -	19.92	0 0.00%	0.00%	0.00%
1370 239353 02HARMON 345 239354 02HARMON 138 1	239353 02HARMON	239354 02HARMON	1 345/138	202 ATSI	609	689 Base Case 0	121.2 -	19.91	0 0.04%	0.04%	0.03%
1371 250037 08GLNVW2 138 250049 08KLEMN2 138 1	250037 08GLNVW2	250049 08KLEMN2	1 138	212 DEO&K	268	268 Base Case 0	-53.3 -	19.9	0 -0.03%	-0.03%	0.01%
1372 243581 05TAYLOR 138 244020 05MINK 138 1	243581 05TAYLOR	244020 05MINK	1 138	205 AEP	335	338 Base Case 0	-66.7 -	19.9	0 0.03%	0.03%	0.00%
1373 238831 02IWQ-17 138 239211 02I0Q-17 138 1	238831 02IWQ-17	239211 02I0Q-17	1 138	202 ATSI	273	332 Base Case 0	54.3 -	19.88	0 -0.05%	-0.05%	0.02%
1374 235383 01PARKER 138 243470 05BELPRE 138 1	235383 01PARKER	243470 05BELPRE	1 138	201/205 AP/AEP	251	290 Base Case 0	49.9 -	19.88	0 0.24%	0.24%	0.14%
1375 242793 05SEXTON 138 245222 05W.KINGS BP 138 1	242793 05SEXTON	245222 05W.KINGS BP	1 138	205 AEP	205	205 Base Case 0	40.7 -	19.87	0 -0.02%	-0.02%	-0.19%
1376 253011 09CARGIL 138 253056 09NORTHR 138 1	253011 09CARGIT	253056 09NORTHR	1 138	209 DAY	196	241 Base Case 0	-38.9 -	19.87	0 0.00%	0.00%	-0.01%
1377 242722 05MORLAN 138 245222 05W KINGS BP 138 1	242722 05MOBLAN	245222 05W KINGS BP	1 138	205 AEP	205	205 Base Case 0	-40.7 -	19.85	0 -0.02%	-0.02%	-0.19%
1378 243522 05HADDISON 138 243593 0570BED 130 1	243522 05HAPPTCON	243593 05711BED	1 120	205 AFP	126	167 Base Case 0	-27 -	19.05	0 _0.02%	-0.05%	-0.13%
1379 253010 098119DOX 138 253053 00100ER 130 1	253010 000000V	253053 00NEEDMO	1 100	200 020	106	241 Base Case 0	38.9 -	10.03	0 0.00%	0.05%	0.02%
1290 240000 023 COMPT 120 250106 00MEMORE 120 1	240090 003 comm	255055 0 9NEEDMO	1 138	209 DAI	190	277 Page Case 0	50.9 -	10.00	0 0.00%	0.00%	0.02%
1300 243200 00WGSINE 130 730120 00WENDWE 138 1	249900 UCAGSINE	2 JOI 20 NOWENDWE	1 138	ZIZUEUAK	2/1	ZII Base Case	34.9 -	19.83	0 0.04%	0.04%	0.04%

			A		В	С	D E	F G	н	J	K L	M N	0	P Q	R	S	T U
1381	238813 02HOYTDL	138	238866 02KOPL S	138 1	238813	02HOYTDL	238866 02KOPL S	1 13	202 ATSI	278	339 Base Case	0 55	2 <u>11</u>	19.79 0	0.00%	0.00%	0.00%
1382	243241 05ALBION	138	243375 05SKINNR	138 1	243241	05ALBION	243375 05SKINNB	1 13	205 AEP	219	251 Base Case	0 43.3	-	19.79 0	-0.05%	-0.05%	-0.03%
1383	243058 05NEWARK CTR	138	243488 05CONESVILLE	138 1	243058	05NEWARK CTR	243488 05CONESVILLE	1 13	3 205 AEP	348	407 Base Case	0 -68.8	-	19.76 0	0.06%	0.06%	-0.03%
138/	238573 02BELEVII	138	239147 02077722	138 1	238573	02BELEVII	239147 02077722	1 13	202 ATTST	216	264 Base Case	0 42.7	-	19.76 0	0.04%	0.04%	-0.01%
1385	240096 09051 1115	130	250134 08VOPK	130 1	210096	OPPEIMIE	250134 08YORK	1 13	212 PEOCK	200	204 Base Case	0 52.7	-	19.70 0	-0.01%	-0.01%	0.00%
1296	243500 00BELVUE	120	242717 0510KK	120 1	249900	05CUDDY	242717 05MTLTON	1 12	205 250	167	167 Base Case	0 30.0		10.74 0	0.06%	0.06%	0.05%
1207	242010 03CORRI	130	242717 05MILION	130 1	242010	03CURRI	242717 05MILION	1 13	203 AEF	107	107 Base Case	0 33		19.74 0	0.00%	0.00%	0.03%
1207	238801 02HL Q-2	130	238811 02HO Q-2	130 1	230001	OZHL Q-Z	238811 02H0 Q-2	1 13	202 A151	205	200 Base Case	0 -40.3	-	19.74 0	0.01%	0.01%	0.02%
1300	242552 USBENT M	138	242601 USCLEARB	138 1	242552	USBENT M	242601 USCLEARB	1 13	205 AEP	158	183 Base Case	0 31.2	-	19.73 0	-0.07%	-0.07%	-0.42%
1385	238538 02APRQ-1	138	238810 02HO Q-1	138 1	238538	02APRQ-1	238810 02HO Q-1	1 13	3 202 ATS1	265	349 Base Case	0 52.1	-	19.66 0	0.01%	0.01%	0.01%
1390	239353 02HARMON	345	239354 02HARMON	138 2	239353	02HARMON	239354 02HARMON	2 345/138	202 ATSI	612	693 Base Case	0 120.3	-	19.66 0	0.04%	0.04%	0.03%
1391	242669 05HOLST1	138	360476 4BOONE HP	138 1	242669	05HOLST1	360476 4BOONE HP	1 13	3 205/347 AEP/TVA	191	191 Base Case	0 -37.5	-	19.63 0	0.00%	0.00%	-0.02%
1392	243285 05E.SIDE	138	243380 05STDBKR	138 1	243285	05E.SIDE	243380 05STDBKR	1 13	3 205 AEP	251	251 Base Case	0 -49.3	-	19.63 0	0.03%	0.03%	0.02%
1393	238560 02BABB	138	239161 02WAKRON	138 1	238560	02BABB	239161 02WAKRON	1 13	202 ATSI	200	242 Base Case	0 -39.2	-	19.62 0	-0.08%	-0.08%	-0.03%
1394	243578 05STRODZ	138	243579 05STROUD	138 1	243578	05STRODZ	243579 05STROUD	1 13	3 205 AEP	149	180 Base Case	0 29.2	-	19.59 0	0.01%	0.01%	-0.01%
1395	250100 08SMRSD1	138	250158 088MIRDJ	138 1	250100	08SMRSD1	250158 088MIRDJ	1 13	3 212 DEO&K	301	301 Base Case	0 -59	-	19.59 0	0.00%	0.00%	0.00%
1396	243014 05GRBLOP	138	245476 05ROB PK34	138 1	243014	05GRBLOP	245476 05ROB PK34	1 13	3 205 AEP	219	255 Base Case	0 -42.8	-	19.57 0	-0.08%	-0.08%	0.03%
1397	243778 05TIMKEN B	138	245001 05TIMKEN C	138 Z1	243778	05TIMKEN B	245001 05TIMKEN C	Z1 13	205 AEP	285	302 Base Case	0 -55.8	-	19.56 0	0.07%	0.07%	-0.02%
1398	243313 05HUNT J	138	243367 05ROCKCR	138 1	243313	05HUNT J	243367 05ROCKCR	1 13	205 AEP	257	337 Base Case	0 -50.2	-	19.53 0	-0.03%	-0.03%	0.04%
1399	239217 02REEDSB	138	246325 05NOTTINGH56	138 1	239217	02REEDSB	246325 05NOTTINGH56	1 13	3 202/205 ATSI/AEP	233	282 Base Case	0 -45.4	-	19.5 0	0.14%	0.14%	0.04%
1400	243161 05ZANESV	138	247497 05CLOUSE	138 1	243161	05ZANESV	247497 05CLOUSE	1 13	205 AEP	150	167 Base Case	0 29.2	-	19.49 0	0.07%	0.07%	-0.04%
1401	243526 05HYATT	138	247199 05AMLIN	138 1	243526	05HYATT	247199 05AMLIN	1 13	205 AEP	564	747 Base Case	0 109.7		19.46 0	0.05%	0.05%	0.01%
1402	243003 05FAYETTE Z	138	243095 05SCOTTOWNSS	138 1	243003	05FAYETTE Z	243095 05SCOTTOWNSS	1 13	205 AEP	167	167 Base Case	0 32.5	-	19.44 0	-0.03%	-0.03%	0.07%
1403	243492 05CORWIN	138	247791 05ELK	138 1	243492	05CORWIN	247791 05ELK	1 13	205 AEP	219	255 Base Case	0 42.5	-	19.42 0	-0.06%	-0.06%	0.07%
1404	242607 05CLOVRD	138	243883 05LAKEFR	138 1	242607	05CLOVRD	243883 05LAKEFR	1 13	205 AEP	205	284 Base Case	0 39.8	-	19.4 0	-0.01%	-0.01%	-0.23%
1405	247132 05ELLISN	138	247831 05DALMATN SS	138 1	247132	05ELLISN	247831 05DALMATN SS	1 13	205 AEP	293	341 Base Case	0 56.8	-	19.38 0	-0.02%	-0.02%	0.01%
1406	243215 05COOK	345	243229 050LIVE	345 1	243215	05COOK	243229 050LIVE	1 34	5 205 AEP	1188	1409 Base Case	0 230	-	19.36 0	0.66%	0.66%	0.17%
1407	242546 05BAILS1	138	242559 05BOLT Z	138 1	242546	05BAILS1	242559 05BOLT Z	1 13	205 AEP	223	223 Base Case	0 43.1	-	19.35 0	-0.03%	-0.03%	0.17%
1408	240346 02GROVWD011	138	241935 02CLINTON	138 ZL	240346	02GROVWD011	241935 02CLINTON	ZL 13	202 ATSI	347	423 Base Case	0 -67.1	-	19.33 0	0.00%	0.00%	0.00%
1409	242593 05CHEM 2	138	242617 05DALEWD	138 1	242593	05CHEM 2	242617 05DALEWD	1 13	205 AEP	296	398 Base Case	0 -57.1	120	19.28 0	-0.05%	-0.05%	-0.06%
1410	239076 02BOSS	138	239237 02CLVB-S	138 1	239076	028055	239237 02CLVB-S	1 13	202 ATST	251	290 Base Case	0 -48 3	-	19.26 0	0.36%	0.36%	0.07%
1411	243560 05ROBERT	138	243588 05WILSON	138 1	243560	05ROBERT	243588 05WILSON	1 13	205 AEP	196	247 Base Case	0 37 7	_	19.20 0	0.04%	0.04%	-0.01%
1412	242989 05E LIMA	138	243066 05NW LTM	138 1	242989	OSE LIMA	243066 05NW LTM	1 13	205 AEP	205	205 Base Case	0 39.4	-	19.22 0	0.01%	0.01%	-0.06%
1413	243485 05CLINTO	138	243576 05ST CLX	138 1	243485	05CLINTO	243576 05ST CLX	1 13	205 AEP	142	179 Base Case	0 27 3		19.21 0	-0.01%	-0.01%	-0.03%
1/1/	242631 05EDAN 1	130	242632 05EDAN 2	130 71	243403	OSEDAN 1	243632 05EDAN 2	71 13	205 AEL	296	296 Base Case	0 -56.9	_	10.2 0	0.18%	0.18%	1.48%
1/15	242051 05EDAN 1	139	242052 05EDAN 2	138 1	242051	05 DINCKZ	242052 05EDAN 2	1 13	205 AED	52	52 Base Case	0 10	_	19.2 0	0.00%	0.00%	0.00%
1416	242752 USFINCKZ	120	242755 05FINECK	120 1	242752	OSCAUE ODD27	242755 05FINECK	1 12	205 AEF	107	32 Base Case	0 _25.0		10.2 0	-0.02%	-0.02%	0.19%
1/17	242300 03CAVE STR22	120	242015 0551AKKE	120 1	242300	05CAVE SINZE	242015 0551RIGE	1 12	205 AEF	747	Z40 Dase Case	0 143.4	-	19.2 0	-0.03%	-0.01%	-0.01%
1417	243491 USCORRID	120	243050 0500G SI 1-0	130 1	243491	OSCORRID	243850 0500G ST 1-0	1 13	205 AEF	206	147 Base Case	0 56.9		10.10 0	-0.01%	-0.01%	-0.01%
1410	243433 USDUBLIN	130	24/199 UJAMLIN	1 0 CT	243499	05DUBLIN	24/133 UJAMLIN	1 13	200 AEP	290	1060 Date Case	0 -30.8		10.10	-0.02%	-0.02%	-0.01%
1419	243219 USDUMUNT	120	243510 UJELDERBERKI	120 1	243219	OSCAVE ODDOG	243910 USELDERBERRY	1 12	205 AEP	107	205 Pare Case	0 -270.3	-	10.10	-0.00%	-0.00%	-0.05%
1420	242366 USCAVE SPR2Z	138	242063 USHANCKI	130 1	242586	OSCAVE SPRZZ	242663 USHANCKI	1 245 (122	205 AEP	18/	200 Base Case	0 35.9	-	19.18 0	-0.03%	-0.03%	-0.18%
1421	242945 USSW LIM	345	243122 USSW LIM	138 1	242945	UDSW LIM	243122 USSW LIM	1 345/138	ZUS AEP	5/4	D/9 Base Case	0 110.1	-	19.16 0	0.00%	0.00%	0.11%
1422	243098 USMURGEK	138	244088 USBEAVER CR2	138 1	243698	U SMORGE'K	244688 USBEAVER CR2	1 13	ZUS AEP	223	223 Base Case	0 -42.7	-	19.16 0	0.00%	0.00%	0.1/%
1423	238954 UZMCDOWL	138	239934 UZHEASLEY	138 1	238954	02MCDOWL	239934 UZHEASLEY	1 13	ZUZ ATSI	1/6	229 Base Case	0 -33.7	-	19.15 0	-0.55%	-0.55%	0.00%
1424	243260 USCNTYRD	138	243356 050S0L01	138 1	243260	USCNTYRD	243356 050SOL01	1 13	205 AEP	164	180 Base Case	0 31.4	-	19.14 0	-0.04%	-0.04%	-0.02%
1425	243/65 USFORD LIMA1	138	246155 USFORD LIMA2	138 Z1	243765	USFORD LIMA1	246155 U5FORD LIMA2	21 13	3 205 AEP	219	255 Base Case	0 -41.9	-	19.13 0	0.01%	0.01%	-0.03%
1426	239728 U2BLKRVR	138	239739 U2CROMWELL	138 1	239728	UZBLKRVR	239739 U2CROMWELL	1 13	3 202 ATSI	233	282 Base Case	0 44.5	-	19.12 0	-0.15%	-0.15%	-0.01%
1427	239728 02BLKRVR	138	239739 02CROMWELL	138 2	239728	UZBLKRVR	239739 02CROMWELL	2 13	3 202 ATSI	233	282 Base Case	0 44.5	-	19.12 0	-0.15%	-0.15%	-0.01%
1428	250026 08FLDMN2	138	250095 08RMNTN2	138 1	250026	U8FLDMN2	250095 08RMNTN2	1 13	212 DEO&K	198	198 Base Case	0 37.8	-	19.1 0	0.01%	0.01%	0.03%
1429	238598 02CADQ18	138	240248 02DLQ-18	138 1	238598	02CADQ18	240248 02DLQ-18	1 13	202 ATSI	237	287 Base Case	0 45.2	-	19.08 0	-0.01%	-0.01%	0.00%
1430	242564 05BRADL1	138	242758 O5POLEYD	138 1	242564	05BRADL1	242758 05POLEYD	1 13	205 AEP	205	205 Base Case	0 39.1	-	19.06 0	0.03%	0.03%	-0.07%
1431	243278 05DESOTO	138	246629 05SELMA P_BP	138 1	243278	05DESOTO	246629 05SELMA P_BP	1 13	205 AEP	185	185 Base Case	0 35.2	-	19.05 0	-0.03%	-0.03%	-0.03%
1432	243878 05MEADOW	345	255205 17REYNOLDS	345 2	243878	05MEADOW	255205 17REYNOLDS	2 34	5 205/217 AEP/NIPS	1868	1868 Base Case	0 355.7	-	19.04 0	0.06%	0.06%	0.41%
1433	242946 05TIDD	345	247797 05STEMPLE	345 1	242946	05TIDD	247797 O5STEMPLE	1 34	5 205 AEP	1025	1318 Base Case	0 195.2	-	19.04 0	0.48%	0.48%	0.18%
1434	243344 05MODOC	138	246629 O5SELMA P_BP	138 1	243344	05MODOC	246629 05SELMA P_BP	1 13	205 AEP	185	185 Base Case	0 -35.2		19.01 0	-0.03%	-0.03%	-0.03%
1435	249989 08BKJ246	138	250080 08NWTWN2	138 1	249989	08BKJ246	250080 08NWTWN2	1 13	3 212 DEO&K	332	332 Base Case	0 63.1	-	19.01 0	0.06%	0.06%	0.06%
1436	243006 05FOSTOR	138	244341 05SOFTAIL SS	138 1	243006	05FOSTOR	244341 05SOFTAIL SS	1 13	205 AEP	145	145 Base Case	0 27.5	-	18.99 0	-0.01%	-0.01%	0.00%
1437	243878 05MEADOW	345	255205 17REYNOLDS	345 1	243878	05MEADOW	255205 17REYNOLDS	1 34	5 205/217 AEP/NIPS	1868	1868 Base Case	0 354.5	-	18.98 0	0.06%	0.06%	0.41%
1438	243368 05ROSEHI	138	246656 05PENDLETON2	138 1	243368	05ROSEHI	246656 05PENDLETON2	1 13	205 AEP	195	220 Base Case	0 -37	-	18.97 0	0.02%	0.02%	0.06%
1439	243013 05GAVIN1	138	243069 05FIREBR	138 1	243013	05GAVIN1	243069 05FIREBR	1 13	205 AEP	185	185 Base Case	0 35.1	-	18.95 0	0.10%	0.10%	0.05%
1440	243696 05KYELEC	138	246885 05MOORE HOLW	138 1	243696	05KYELEC	246885 05MOORE HOLW	1 13	205 AEP	296	413 Base Case	0 56	-	18.93 0	0.02%	0.02%	0.03%

	А		B C	D	E	F	G	H I	J	К	L	М	N	0	Р	Q	R	S	T U
1441 238768 02GRNFLD	138 238874 02LAKVEW	138 1	238768 02GRNFLD	238874	02LAKVEW	1	138	202 ATSI	320	385	Base Case	0	-60.6	-	18.92	0	-0.44%	-0.44%	-0.07%
1442 238731 02FOX	345 238783 02HARDIN	345 2	238731 02FOX	238783	02HARDIN	2	345	202 ATSI	1195	1195	Base Case	0	-226	-	18.92	0	0.37%	0.37%	0.04%
1443 238851 02KD Q-1	138 238882 02LE Q-1	138 1	238851 02KD Q-1	238882	02LE Q-1	1	138	202 ATSI	273	332	Base Case	0	-51.6	-	18.91	0	0.00%	0.00%	0.00%
1444 243231 05ROB PK	345 255105 17HIPLE	345 1	243231 05ROB PK	255105	17HIPLE	1	345	205/217 AEP/NIPS	1409	1409	Base Case	0	-266.4	-	18.91	0	-0.56%	-0.56%	-0.41%
1445 243524 05HESS NORTH	138 243551 050SU	138 1	243524 05HESS NORTH	243551	050SU	1	138	205 AEP	187	240	Base Case	0	-35.3	-	18.9	0	0.02%	0.02%	-0.02%
1446 242958 05BATTLE	138 243138 05W LIBERTY	7 138 2	242958 05BATTLE	243138	05W LIBERTYZ	2	138	205 AEP	205	205	Base Case	0	-38.7	-	18.86	0	0.15%	0.15%	-0.10%
1447 242952 05SHEPLER SS	138 245001 05TIMKEN C	138 1	242952 05SHEPLER SS	245001	05TIMKEN C	1	138	205 AEP	296	361	Base Case	0	55.8	_	18 84	0	0.07%	0.07%	-0.02%
1448 238586 028PKSTD	138 246325 05NOTTINGH5	6 138 1	238586 0288KSTD	246325	05NOTTINCH56	1	138	202/205 ATST/AEP	233	282	Base Case	0	=43.9	-	18 83	0	0.0776	0.14%	0.05%
1449 243201 05ENCLER	130 247132 05ELLISN	120 1	243291 05ENCLER	240525	05RUITINGHUU	1	120	202/203 AIS1/ABI	205	202	Base Case	0	-55 7		10.03	0	-0.01%	-0.01%	0.03%
1450 220040 02DCTD12	130 230057 021DCD04	120 1	243231 03ENGLER	230057	03LDCD04	1	120	200 AEF	149	151	Base Case	0	-33.7	_	10.05	0	0.12%	0.12%	0.02%
1450 235040 02FGIFIZ	138 239037 02LRCRQ4	130 1	239040 02FGIFI2	239037	02DCCRQ4	1	130	202 AISI	140	151	Base Case	0	-27.0		10.0	0	0.12%	0.12%	-0.04%
1451 238959 02MFLDQ4	138 239040 02PGTP12	138 1	238959 02MFLDQ4	239040	02PGTP12	1	138	202 ATSI	148	151	Base Case	0	-27.8	-	18.8	0	0.12%	0.12%	-0.04%
1452 242998 05EPOINT	138 243070 050H10CT	138 1	242998 05EPOINT	243070	050HIOCT	1	138	205 AEP	205	255	Base Case	0	-38.4	-	18.75	0	-0.11%	-0.11%	-0.06%
1453 238817 02IKQ-18	138 238840 02JNPRQ1	138 1	238817 02IKQ-18	238840	02JNPRQ1	1	138	202 ATSI	223	286	Base Case	0	-41.8	-	18.74	0	-0.04%	-0.04%	0.02%
1454 242676 05HUNTCT	138 247631 05BENNINGTO	N 138 1	242676 05HUNTCT	247631	05BENNINGTON	1	138	205 AEP	329	361	Base Case	0	61.6	-	18.73	0	0.10%	0.10%	-0.22%
1455 239161 02WAKRON	138 239614 02BATH	138 1	239161 02WAKRON	239614	02BATH	1	138	202 ATSI	196	242	Base Case	0	36.7	-	18.73	0	-0.03%	-0.03%	0.09%
1456 243098 05SHARPR	138 243153 05WMTVER	138 1	243098 05SHARPR	243153	05WMTVER	1	138	205 AEP	158	183	Base Case	0	29.6	-	18.72	0	0.04%	0.04%	0.10%
1457 243217 05DEQUIN	345 249525 08WESTWD	345 1	243217 05DEQUIN	249525	08WESTWD	1	345	205/208 AEP/DEI	1025	1217	Base Case	0	191.9	-	18.72	0	-0.02%	-0.02%	-0.03%
1458 247133 05ROCKP WRK1	765 243239 05ROCKP WRK	1 138 7	247133 05ROCKP WRK1	243239	05ROCKP WRK1	7	765/138	205 AEP	98	111	Base Case	0	18.3	-	18.71	0	0.00%	0.00%	0.00%
1459 247135 05ROCKP WRK2	765 243240 05ROCKP WRK	2 138 8	247135 05ROCKP WRK2	243240	05ROCKP WRK2	8	765/138	205 AEP	98	111	Base Case	0	18.3	-	18.71	0	0.00%	0.00%	0.00%
1460 243580 05SULVNT	138 243854 05REAVER	138 1	243580 05SULVNT	243854	05REAVER	1	138	205 AEP	223	267	Base Case	0	-41.6	-	18.67	0	-0.08%	-0.08%	-0.02%
1461 241901 02LALLENDORF	345 264612 19MON12	345 1	241901 02LALLENDORF	264612	19MON12	1	345	202/219 ATSI/ITCT	1486	1702	Base Case	0	-277.4	-	18.67	0	-0.99%	-0.99%	-0.07%
1462 238772 02GTQ-12	138 238819 02ILQ-12	138 1	238772 02GTQ-12	238819	02ILQ-12	1	138	202 ATSI	273	332	Base Case	0	-50.9	-	18.65	0	-0.09%	-0.09%	-0.01%
1463 242978 05CANALR	138 243000 05EWOOST	138 1	242978 05CANALR	243000	05EWOOST	1	138	205 AEP	205	205	Base Case	0	38.2	-	18.64	0	0.10%	0.10%	0.00%
1464 238908 02LONDON	138 240709 02N TITUS	138 1	238908 02LONDON	240709	02N TITUS	1	138	202 ATSI	176	229	Base Case	0	32.8	-	18.62	0	0.07%	0.07%	0.03%
1465 238797 02HGHLND	138 239056 02B.M. +	138 1	238797 02HGHLND	239056	028.M. +	1	138	202 ATST	157	196	Base Case	0	29.2	-	18.62	0	-0.01%	-0.01%	0.00%
1466 247807 05BOUSE	138 247833 05LAMPING	138 1	247807 05BOUSE	247833	05LAMPING	1	138	205 AEP	257	360	Base Case	0	-47.8	-	18 62	0	-0.15%	-0.15%	-0.14%
1467 238933 02LVD014	138 238951 02MBO-14	138 1	238933 021.70014	238951	02MB0-14	1	138	202 ATST	324	395	Base Case	0	-60.2	-	18 59	0	0.12%	0.12%	-0.04%
1468 242524 05CLOVPD	345 242527 05M FUNK	345 1	242524 05CLOVRD	242527	05M FUNK	1	345	205 AFP	1025	1132	Base Case	0	190.5	-	18 59	0	0.78%	0.78%	1.60%
1460 242524 USCLOVED	765 242527 USM FUNK	120 1	242524 03CLOVRD	242327	OF PONK	1	765/100	205 AEF	1025	1132	Dase Case	0	120.0		10.55	0	0.78%	0.78%	0.27%
1409 242511 05BROADF	100 242366 05BROADE	120 1	242311 05BROADF	242300	OFUNTIN	1	100/100	205 AEP	090	201	Base Case	0	129.4		10.59	0	0.28%	0.28%	0.00%
1470 243261 05COLBITAPSS	138 243386 USVALLI	138 1	243261 0SCOLBITAPSS	243380	OSVALLY	1	138	205 AEP	296	301	Base Case	0	55	-	18.58	0	-0.01%	-0.01%	0.00%
1471 244143 USKUCHAR	138 244173 USSILVER LA	K 138 1	244143 USKUCHAR	244173	USSILVER LAK	1	138	205 AEP	251	335	Base Case	0	-46.6	-	18.58	0	0.08%	0.08%	0.05%
14/2 243475 USBLENDO	138 243547 05MORSE	138 1	243475 05BLENDO	243547	05MORSE	1	138	205 AEP	297	338	Base Case	0	55.2	-	18.57	0	0.05%	0.05%	0.01%
14/3 242598 05CHNC Z	138 242705 05LOGAN2	138 1	242598 05CHNC Z	242705	05LOGAN2	1	138	205 AEP	167	167	Base Case	0	-30.9	-	18.52	0	0.06%	0.06%	0.04%
1474 243664 05HAZARD	161 243668 05WOOTON	161 1	243664 05HAZARD	243668	05WOOTON	1	161	205 AEP	300	420	Base Case	0	-55.6	-	18.52	0	-0.11%	-0.11%	-0.04%
1475 242696 05KOPPER	138 247795 05LACEY BRC	H 138 1	242696 05KOPPER	247795	05LACEY BRCH	1	138	205 AEP	223	223	Base Case	0	41.3	-	18.5	0	-0.02%	-0.02%	0.15%
1476 238646 02CW TP3	138 241929 02AVQ3	138 1	238646 02CW TP3	241929	02AVQ3	1	138	202 ATSI	437	502	Base Case	0	-80.8	-	18.49	0	-0.26%	-0.26%	-0.03%
1477 238717 02-5POINT+	138 239027 020ILEVS	138 1	238717 02-5POINT+	239027	020ILEVS	1	138	202 ATSI	288	346	Base Case	0	53.2	-	18.47	0	0.05%	0.05%	0.01%
1478 238889 02LEMOYN	345 239370 02DOWLING	345 1	238889 02LEMOYN	239370	02DOWLING	1	345	202 ATSI	1542	1878	Base Case	0	284.8	-	18.47	0	0.40%	0.40%	0.11%
1479 242855 05WYOMIN	138 247634 05LYBURN SS	138 1	242855 05WYOMIN	247634	05LYBURN SS	1	138	205 AEP	296	413	Base Case	0	54.6	-	18.46	0	0.08%	0.08%	0.20%
1480 239043 02PINE	138 239075 02ROSEMT	138 1	239043 02PINE	239075	02ROSEMT	1	138	202 ATSI	233	282	Base Case	0	43	-	18.46	0	-0.04%	-0.04%	0.04%
1481 242730 05NBECKL	138 242758 05POLEYD	138 1	242730 05NBECKL	242758	05POLEYD	1	138	205 AEP	164	180	Base Case	0	-30.2	-	18.42	0	0.03%	0.03%	-0.07%
1482 253047 09MIAMI	345 253069 09SHELBY	345 1	253047 09MIAMI	253069	09SHELBY	1	345	209 DAY	1255	1374	Base Case	0	231.2	-	18.42	0	-0.44%	-0.44%	0.24%
1483 242628 05E.LYNN	138 242699 05LAVALT	138 1	242628 05E.LYNN	242699	05LAVALT	1	138	205 AEP	219	255	Base Case	0	-40.3	-	18.4	0	-0.05%	-0.05%	-0.14%
1484 243275 05DELAWR1	138 243393 05WESDEL	138 1	243275 05DELAWR1	243393	05WESDEL	1	138	205 AEP	219	223	Base Case	0	-40.3	-	18.4	0	0.02%	0.02%	0.01%
1485 243524 05HESS NORTH	138 246094 05VINE X	138 1	243524 05HESS NORTH	246094	05VINE X	1	138	205 AEP	183	243	Base Case	0	33.7	-	18.4	0	-0.05%	-0.05%	-0.03%
1486 242936 05FOSTOR	345 242942 05SBERWI	345 1	242936 05FOSTOR	242942	05SBERWI	1	345	205 AEP	1409	1409	Base Case	0	259	-	18.38	0	-0.72%	-0.72%	-0.74%
1487 247373 05MUSKNG2A	138 247434 05MUSKNG DS	Z 138 ZO	247373 05MUSKNG2A	247434	05MUSKNG DSZ	20	138	205 AEP	747	747	Base Case	0	-137.2	-	18.37	0	-0.15%	-0.15%	0.05%
1488 239037 02PG0-11	138 239039 02PGTP11	138 1	239037 02PG0-11	239039	02PGTP11	1	138	202 ATST	115	115	Base Case	0	-21.1	_	18.34	0	0.00%	0.00%	0.00%
1489 243233 05TANNER	345 243792 05LOSANTVIL	T. 345 2	243233 05TANNER	243792	05LOSANTVILL	2	345	205 AEP	648	648	Base Case	0	118.8		18 34	0	0.16%	0.16%	0.22%
1490 242926 05MALTS	765 242928 05MADVev	765 1	242926 05MALTS	242020	05MARYSV	1	765	205 AFP	4047	4140	Base Case	0	-742	-	18 33	0	-4 30%	-4 30%	-0.62%
1491 242920 05MALIS	129 242326 USMARISV	120 I	242920 05MALIS	242920	OFDIVON CC	1	120	205 AEF	205	201	Base Case	0	27 5		10.55	0	-4.30%	-4.30%	-0.02%
1402 242672 CEDERENT	130 242607 OF TRAT	120 1	243010 03FTHENK	24///5	OSDIAUN 55	- 1	120	205 AEP	203	284	Dase Case	0	-31.3		10.31	0	0.14%	0.14%	0.01%
1492 2436/3 USBEEFHI	130 243687 USFLEMIN	138 1	2436/3 USBEELHI	24368/	ODF LEMIN	1	138	205 AEP	128	180	Base Case	0	28.9	-	10.3	0	0.01%	0.01%	0.01%
1455 243694 USINEZ	130 246896 U5WOLFSS	138 1	243694 USINEZ	246896	USWOLFSS	1	138	ZUS AEP	226	251	base Case	0	41.3	-	18.29	0	-0.07%	-0.07%	-0.12%
1494 243697 05LOVELY	138 246896 U5WOLFSS	138 1	243697 U5LOVELY	246896	USWOLFSS	1	138	205 AEP	226	251	Base Case	0	-41.3		18.28	0	-0.07%	-0.07%	-0.12%
1495 250018 08EMWOD1	138 250056 08LTERL8	138 1	250018 08EMWOD1	250056	USLTERL8	1	138	212 DEO&K	264	264	Base Case	0	-48.2	-	18.26	0	0.02%	0.02%	0.01%
1496 239129 02SYLVNA	138 239320 02FLWR HOSP	138 1	239129 02SYLVNA	239320	02FLWR HOSP	1	138	202 ATSI	278	343	Base Case	0	50.7	-	18.23	0	-0.05%	-0.05%	0.01%
1497 239142 02TUSC	138 239362 02INVOLTA	138 1	239142 02TUSC	239362	02INVOLTA	1	138	202 ATSI	233	282	Base Case	0	42.5	-	18.22	0	-0.06%	-0.06%	-0.05%
1498 238696 02ELWOD+	138 238944 02MASURY	138 1	238696 02ELWOD+	238944	02MASURY	1	138	202 ATSI	128	165	Base Case	0	-23.3	-	18.21	0	0.02%	0.02%	-0.03%
1499 243688 05S.PORT MTR	138 342538 4ARGENTUM	138 1	243688 05S.PORT MTR	342538	4ARGENTUM	1	138	205/320 AEP/EKPC	170	170	Base Case	0	-30.9	-	18.2	0	-0.03%	-0.03%	0.00%
1500 243291 05ENGLER	138 243338 05MCKINLEY3	138 1	243291 05ENGLER	243338	05MCKINLEY3	1	138	205 AEP	285	361	Base Case	0	51.8	-	18.19	0	-0.01%	-0.01%	0.02%

	А		B C	D	E	F	G	Н	J	К	L.	М	N	0	Р	Q	R	S	T U
1501 247868 05N.CLAYTOR	138 247870 05CLAYTR HY2	138 1	247868 05N.CLAYTOR	247870	05CLAYTR HY2	1	138	205 AEP	136	167	Base Case	0	-24.7		18.18	0	0.00%	0.00%	0.02%
1502 238586 02BRKSID	138 239076 02ROSS	138 1	238586 02BRKSID	239076	02ROSS	1	138	202 ATSI	251	290	Base Case	0	-45.6	-	18.18	0	0.36%	0.36%	0.07%
1503 243320 05KANKAKEE2	138 243388 05W SIDE	138 1	243320 05KANKAKEE2	243388	05W SIDE	1	138	205 AEP	205	205	Base Case	0	37.3	-	18.18	0	-0.02%	-0.02%	-0.01%
1504 250076 08MTGRY2	138 250094 08RMNTN1	138 1	250076 08MTGRY2	250094	08RMNTN1	1	138	212 DEO&K	198	198	Base Case	0	36	-	18.18	0	-0.01%	-0.01%	-0.03%
1505 238528 02AETNA	138 239161 02WAKRON	138 1	238528 02AETNA	239161	02WAKRON	1	138	202 ATSI	124	124	Base Case	0	-22.5	-	18.15	0	-0.07%	-0.07%	-0.03%
1506 239137 02THEIS	138 239148 02VALLEY	138 1	239137 02THEIS	239148	02VALLEY	1	1.38	202 ATST	200	242	Base Case	0	36.2	-	18.1	0	0.04%	0.04%	-0.03%
1507 239077 02BVEBBD	138 239120 02SSPBNG	138 1	239077 028VEBBD	239120	02SSPBNG	1	138	202 ATST	223	223	Base Case	0	-40.4	-	18.1	0	-0.13%	-0.13%	-0.03%
1508 253047 09MTAMT	345 253090 09WMTLTN	345 1	253047 09MTAMT	253090	09WMTLTN	1	345	209 DAY	1195	1195	Base Case	0	-216.2	-	18 09	0	-0.48%	-0.48%	-0.10%
1509 243151 05WMTLLS	138 243158 05W00STE	138 1	243151 05WMTLLS	243158	05WOOSTE	1	138	205 AEP	185	250	Base Case	0	33.4	_	18 07	0	-0.21%	-0.21%	0.04%
1510 242673 05HUBTWN	138 243669 05B SAND	138 1	242673 05HUBTWN	243669	05B SAND	1	138	205 AEP	292	330	Base Case	0	-52 7	-	18.05	0	0.00%	0.00%	0.17%
1511 243006 05FOSTOR	138 243039 05MELMOR	138 1	243006 05E0STOR	243039	05MELMOR	1	138	205 AEP	167	167	Base Case	0	30 1	_	18 04	0	-0.13%	-0.13%	-0.01%
1512 243511 05GAY	138 243580 05SULVNT	138 1	243511 05CAV	243580	05 SUL VNT	1	138	205 AEP	231	277	Base Case	0	=41 6	_	18 02	0	-0.08%	-0.08%	-0.02%
1513 247370 05MUSKNG1A	138 247434 05MUSKNG DS7	138 7P	247370 05MUSKNG15	247434	05MUSKNG DS7	70	138	205 AEP	747	747	Base Case	0	-134 5	_	18 01	0	-0.35%	-0.35%	-0.06%
1514 238904 021 MO-11	138 241922 02FLO2	139 1	238904 021MO-11	247404	025102	1	130	202 AET	324	383	Base Case	0	-59.2	_	17 07	0	0.16%	0.16%	-0.05%
1515 242650 05CLENT 1	138 242668 05HINTON	138 1	242650 05CLENT1	241922	05HINTON	1	138	205 AFP	399	416	Base Case	0	69.7	_	17.97	0	0.10%	0.10%	0.72%
1516 242530 05 T FERR	500 206710 RANKTOCH	500 1	242030 03GLENLI	242000	RANETOCH	1	500	205 /242 AED /DUK	2204	2400	Base Case	0	-205 7		17.90	0	0.08%	0.08%	0.72%
1517 242320 030.FERR	139 343790 05CALEV2	100 I	242320 030.FERR	242700	OF CAL WILL	1	120	205/542 AEF/DOR	126	167	Base Case	0	-393.7	034	17.95	0	0.4778	0.4778	0.00%
1518 242752 05DINCK2	139 242765 UJDALIVZ	130 L	242714 USMEADWV	242/09	05PACI DZ	1	120	205 AEP	1.67	167	Base Case	0	24.4	_	17 05	0	0.06%	0.06%	0.03%
1510 242752 USPINCKZ	345 243002 054300TN 02	345 1	242/32 USFINCRA	242/01	05UADDTN 00	1	738	205 AEP	007	1107	Base Case	0	_161		17 05	0	0.00%	0.00%	0.04%
1519 242933 USE LIMA	345 243902 USHARDIN SS	245 1	242933 USE LIMA	243902	OSCINN PD CC	1	345	205 AEP	1 20	1151	Dase Case	0	-101		17 05	0	0.05%	0.05%	0.74%
1520 243902 USHARDIN SS	129 220140 02moutorm	120 1	243902 USHARDIN SS	243903	ODGUNN KD SS		120	200 AEP	897	1121	Dase Case	0	-101	-	17.00	0	0.03%	0.03%	0.74%
152 242260 05DOV260	130 239140 UZTOUSNT	130 1	238368 UZBAISHU	239140	OF CAUKER	1	138	202 ATS1	235	288	Dase Case	0	42.1	-	17.93	0	-0.10%	-0.10%	-0.02%
1522 243360 USPOKAGO	138 246764 USSAUKTR	138 1	243360 05PORAGO	246764	USSAUKTR	1	138	205 AEP	335	392	Base Case	0	59.9		17.89	0	-0.02%	-0.02%	-0.04%
1523 238777 02HAMIL+	138 933720 AC2-195 TAP	138 1	238777 02HAMIL+	933720	AC2-195 TAP	1	138	202 ATS1	200	242	Base Case	0	35.8	-	17.88	0	0.07%	0.07%	-0.08%
1524 238667 02DUALR+	138 933720 AC2-195 TAP	138 1	238667 02DUALR+	933720	ACZ-195 TAP	1	138	202 ATS1	200	242	Base Case	0	-35.8	-	17.88	0	0.07%	0.07%	-0.08%
1525 242935 05E LIMA	345 242945 05SW LIM	345 1	242935 05E LIMA	242945	05SW LIM	1	345	205 AEP	971	971	Base Case	0	173.3	-	17.84	0	0.01%	0.01%	-0.47%
1526 239123 02STAR	138 239238 02SEVM	138 1	239123 02STAR	239238	02SEVM	1	138	202 ATSI	233	282	Base Case	0	41.5		17.83	0	0.11%	0.11%	0.04%
1527 242986 05CROOKS	138 243107 05SPENCR	138 1	242986 05CROOKS	243107	05SPENCR	1	138	205 AEP	134	167	Base Case	0	-23.9	-	17.82	0	-0.14%	-0.14%	0.15%
1528 243247 05AUBURN	138 247790 05DUNTONLAKE	138 2	243247 05AUBURN	247790	05DUNTONLAKE	2	138	205 AEP	323	392	Base Case	0	-57.5	-	17.8	0	0.02%	0.02%	0.02%
1529 243519 05HALLRD	138 243587 05WILSNZ	138 1	243519 05HALLRD	243587	05WILSNZ	1	138	205 AEP	223	223	Base Case	0	39.7	-	17.8	0	-0.07%	-0.07%	0.00%
1530 239278 02BRDVIE	138 253085 09URBANA	138 1	239278 02BRDVIE	253085	09URBANA	1	138	202/209 ATSI/DAY	221	272	Base Case	0	-39.3		17.79	0	-0.07%	-0.07%	-0.02%
1531 242550 05BEARSK	138 242802 05SMITHMTN	138 1	242550 05BEARSK	242802	05SMITHMTN	1	138	205 AEP	296	296	Base Case	0	-52.6	-	17.78	0	-0.09%	-0.09%	-1.54%
1532 253057 090HH	138 253255 09GEBHRT	138 1	253057 090НН	253255	09GEBHRT	1	138	209 DAY	196	241	Base Case	0	-34.8	-	17.76	0	0.07%	0.07%	0.04%
1533 243686 05EXCELT	138 243695 05JOHNSC	138 1	243686 05EXCELT	243695	05JOHNSC	1	138	205 AEP	410	527	Base Case	0	72.8	-	17.76	0	0.00%	0.00%	-0.14%
1534 243215 05COOK	345 270139 AA2-116_TAP2	345 1	243215 05COOK	270139	AA2-116_TAP2	1	345	205 AEP	1409	1409	Base Case	0	249.5	-	17.7	0	-0.05%	-0.05%	-0.08%
1535 247172 05EBERSO	138 247893 05FLAG CITY	138 1	247172 05EBERSO	247893	05FLAG CITY	1	138	205 AEP	150	212	Base Case	0	26.6	-	17.7	0	0.08%	0.08%	-0.06%
1536 239144 02URBAN	138 239362 02INVOLTA	138 1	239144 02URBAN	239362	02INVOLTA	1	138	202 ATSI	233	282	Base Case	0	-41.2	-	17.7	0	-0.06%	-0.06%	-0.05%
1537 253049 09MONUM1	138 253093 09WEBSTR	138 1	253049 09MONUM1	253093	09WEBSTR	1	138	209 DAY	301	374	Base Case	0	53.2	-	17.66	0	0.04%	0.04%	0.04%
1538 242568 05BROOKV	138 247887 05MCCONVILLE	138 1	242568 05BROOKV	247887	05MCCONVILLE	1	138	205 AEP	167	245	Base Case	0	29.5		17.65	0	-0.02%	-0.02%	0.10%
1539 243366 05ROB PK12	138 243389 05WALLEN	138 1	243366 05ROB PK12	243389	05WALLEN	1	138	205 AEP	287	337	Base Case	0	50.6	-	17.65	0	0.00%	0.00%	-0.05%
1540 242819 05SULVN	138 244508 05RIGGS	138 1	242819 05SULVN	244508	05RIGGS	1	138	205 AEP	117	117	Base Case	0	20.6	-	17.64	0	0.03%	0.03%	0.27%
1541 242773 05ROAN01	138 242840 05VINTON	138 1	242773 05ROANO1	242840	05VINTON	1	138	205 AEP	240	252	Base Case	0	-42.3	-	17.62	0	0.07%	0.07%	-0.12%
1542 240988 02SHELBY_FS+	138 240989 02SHELBY_FS	138 1	240988 02SHELBY_FS+	240989	02SHELBY_FS	1	138	202 ATSI	161	194	Base Case	0	28.4	-	17.61	0	0.00%	0.00%	0.00%
1543 243331 05LINWOO	138 243368 05ROSEHI	138 1	243331 05LINWOO	243368	05ROSEHI	1	138	205 AEP	187	240	Base Case	0	-32.9	-	17.6	0	0.02%	0.02%	0.06%
1544 238795 02HDGQ14	138 238924 02LTEQ14	138 1	238795 02HDGQ14	238924	02LTEQ14	1	138	202 ATSI	399	488	Base Case	0	70.2	-	17.59	0	-0.01%	-0.01%	0.01%
1545 242536 05AMALOY	138 242807 05SPORN	138 1	242536 05AMALOY	242807	05SPORN	1	138	205 AEP	205	205	Base Case	0	-36	-	17.57	0	0.00%	0.00%	0.00%
1546 238635 02CORTLD	138 238693 02ELM	138 1	238635 02CORTLD	238693	02ELM	1	138	202 ATSI	96	96	Base Case	0	-16.9		17.56	0	0.00%	0.00%	0.00%
1547 253050 09MONUM2	138 253093 09WEBSTR	138 1	253050 09MONUM2	253093	09WEBSTR	1	138	209 DAY	218	269	Base Case	0	38.3	-	17.55	0	0.00%	0.00%	0.01%
1548 238800 02HL Q-1	138 238810 02HO Q-1	138 1	238800 02HL Q-1	238810	02HO Q-1	1	138	202 ATSI	205	265	Base Case	0	-35.9	-	17.52	0	0.01%	0.01%	0.01%
1549 242548 05BANCRO	138 242790 05S.BUFFALO	138 1	242548 05BANCRO	242790	05S.BUFFALO	1	138	205 AEP	334	334	Base Case	0	58.5	-	17.52	0	0.04%	0.04%	0.21%
1550 238654 02DAV-BE	345 238889 02LEMOYN	345 1	238654 02DAV-BE	238889	02LEMOYN	1	345	202 ATSI	1411	1683	Base Case	0	247.1	-	17.51	0	1.51%	1.52%	-0.11%
1551 238977 02N MED	138 239158 02W.MED	138 1	238977 02N MED	239158	02W.MED	1	138	202 ATSI	233	282	Base Case	0	40.8	-	17.51	0	-0.05%	-0.05%	-0.04%
1552 247844 05CAPITOLH2	138 247846 05BULLIT ST1	138 1	247844 05CAPITOLH2	247846	05BULLIT ST1	1	138	205 AEP	296	413	Base Case	0	51.8	-	17.5	0	0.00%	0.00%	-0.09%
1553 238568 02BAYSHO	138 238658 02DECANT	138 1	238568 02BAYSHO	238658	02DECANT	1	138	202 ATSI	235	287	Base Case	0	41	22	17.43	0	-0.17%	-0.17%	-0.03%
1554 243458 05HYATT	345 246752 05VASSEL	345 1	243458 05HYATT	246752	05VASSEL	1	345	205 AEP	1370	1409	Base Case	0	-238.7	-	17.42	0	0.54%	0.54%	0.27%
1555 243333 05MADISON1	138 243339 05MEADOW	138 1	243333 05MADISON1	243339	05MEADOW	1	138	205 AEP	136	167	Base Case	0	23.7	-	17.42	0	0.02%	0.02%	0.01%
1556 239147 02UTTP2	138 239149 02VULCAN	138 ZL	239147 02UTTP2	239149	02VULCAN	ZL	138	202 ATSI	216	264	Base Case	0	37.6	-	17.41	0	0.04%	0.04%	-0.01%
1557 243274 05DEER CRK1	138 246968 05DOOVIL	138 1	243274 05DEER CRK1	246968	05DOOVIL	1	138	205 AEP	187	240	Base Case	0	-32.6	-	17.41	0	-0.03%	-0.03%	-0.05%
1558 253027 09GREENE	345 253079 09SUGRCK	345 1	253027 09GREENE	253079	09SUGRCK	1	345	209 DAY	1255	1374	Base Case	0	-218.4		17.4	0	-0.56%	-0.56%	-0.09%
1559 243215 05COOK	345 270138 AA2-116 TAP1	345 1	243215 05COOK	270138	AA2-116 TAP1	1	345	205 AEP	1409	1409	Base Case	0	245.1	-	17.4	0	-0.06%	-0.06%	-0.08%
1560 238543 02ASH 2	138 238544 02ASH 3	138 ZB	238543 02ASH 2	238544	02ASH 3	ZB	138	202 ATSI	999	999	Base Case	0	-173.7	-	17.39	0	0.46%	0.46%	-0.09%
					_		1	Constraint Constraints	5-07-0-5-4				10 - 10 Th 60 Million					1.5 N.A.	
A	B C D	E	F	G H I	J	K L	M N	0	P Q	R	S	T U							
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1561 243690 05HATFLD 138 243694 05INEZ 138 1	243690 05HATFLD 243694	05INEZ	1	138 205 AEP	296	392 Base Cas	0 -51.3		17.33 0	-0.03%	-0.03%	-0.10%							
1562 249566 08FOSTER 345 249578 08HILCRT 345 1	249566 08FOSTER 249578	08HILCRT	1	345 212 DEO&K	1455	1455 Base Cas	0 -251.2	-	17.26 0	0.20%	0.20%	0.27%							
1563 250032 08FRFLD1 138 250066 08MLHSR1 138 1	250032 08FRFLD1 250066	08MLHSR1	1	138 212 DEO&K	198	198 Base Cas	0 -34.2	-	17.25 0	0.02%	0.02%	-0.01%							
1564 253010 09BURDOX 138 253093 09WEBSTR 138 1	253010 09BURDOX 253093	09WEBSTR	1	138 209 DAY	30.6	380 Base Cas	0 -52 7	-	17.22 0	0.00%	0.00%	0.02%							
1565 238852 02KD 0-3 138 238883 02LE 0-3 138 1	238852 02KD 0-3 238883	021E 0-3	1	138 202 ATST	273	332 Base Cas	0 -46.9		17.19 0	0.00%	0.00%	0.00%							
1566 247806 05PETIPIDCSS 138 247807 05POUSE 138 1	247806 05PETTPTDCSS 247805	05POUSE	1	138 205 AFD	275	360 Base Cas	0 -14.2	-	17.19 0	-0.15%	-0.15%	-0.14%							
1500 247808 05BELLKIDG55 158 247807 05R005E 158 1	247606 03BELLKIDG55 247607	05R005E	1	130 205 AEF	207	404 Dase Cas	0 -44.2		17.19 0	-0.13%	-0.13%	-0.14%							
1507 242627 USE.LINC 138 242688 USJUSHUA 138 1	242627 USE.LINC 242686	OSJOSHUA	1	138 205 AEP	300	404 Base Cas	0 -66.7	-	17.16 0	0.00%	0.00%	-0.47%							
1500 243481 USCANAL 138 243548 USMOUND 138 1	243481 USCANAL 243548	USMOUND	1	138 205 AEP	122	165 Base Cas	0 20.9	-	17.16 0	-0.05%	-0.05%	0.03%							
1569 242633 05EDENSR 138 242849 05W.KINGSPT1 138 1	242633 05EDENSR 242849	05W.KINGSPT1	1	138 205 AEP	167	167 Base Cas	0 -28.7	-	17.16 0	0.00%	0.00%	0.05%							
1570 238600 02CAIRNS 138 239196 02ARM+BU 138 1	238600 02CAIRNS 239196	02ARM+BU	1	138 202 ATSI	317	365 Base Cas	0 54.4	-	17.15 0	-0.26%	-0.26%	0.03%							
1571 242634 05EDGEMO 138 242839 05VICKER 138 1	242634 05EDGEMO 242839	05VICKER	1	138 205 AEP	205	205 Base Cas	0 35.2	-	17.15 0	-0.04%	-0.04%	-0.02%							
1572 242718 05MINNXM 138 242822 05SWITCHBACK 138 1	242718 05MINNXM 242822	05SWITCHBACK	1	138 205 AEP	296	296 Base Cas	0 -50.7	-	17.13 0	-0.11%	-0.11%	-0.29%							
1573 250029 08FOSTER 138 250085 08PARK2 138 1	250029 08FOSTER 250085	08PARK2	1	138 212 DEO&K	301	301 Base Cas	0 51.4	-	17.08 0	0.06%	0.06%	0.06%							
1574 242546 05BAILS1 138 242742 05PADFOR 138 1	242546 05BAILS1 242742	05PADFOR	1	138 205 AEP	219	223 Base Cas	0 37.3	-	17.05 0	0.07%	0.07%	-0.12%							
1575 242844 05W.BASS 138 243799 05FIELDALE2 138 1	242844 05W.BASS 243799	05FIELDALE2	1	138 205 AEP	187	234 Base Cas	0 -31.9	-	17.04 0	0.04%	0.04%	0.43%							
1576 242631 05EDAN 1 138 246972 05ROCKSP 138 1	242631 05EDAN 1 246972	05ROCKSP	1	138 205 AEP	257	349 Base Cas	0 43.7	-	17.02 0	0.01%	0.01%	0.13%							
1577 243082 05ROCKHILL1 138 243765 05FORD LIMA1 138 1	243082 05ROCKHILL1 243765	05FORD LIMA1	1	138 205 AEP	167	240 Base Cas	0 -28.4	12	17 0	0.01%	0.01%	-0.03%							
1578 239177 02WOODVI 138 245422 05W.END FOS2 138 1	239177 02WOODVI 245422	05W.END FOS2	1	138 202/205 ATSI/AEP	185	185 Base Cas	0 31.4	-	16.97 0	0.01%	0.01%	-0.10%							
1579 242509 05AXTON 765 242514 05J.FERR 765 1	242509 05AXTON 242514	05J.FERR	1	765 205 AEP	1099	1099 Base Cas	0 -186.5	-	16.97 0	-0.56%	-0.55%	-4.33%							
1580 250048 08KLEMN1 138 250049 08KLEMN2 138 Z1	250048 08KLEMN1 250049	08KLEMN2 Z	Z1	138 212 DEO&K	406	454 Base Cas	0 68.9	-	16.96 0	-0.03%	-0.03%	0.01%							
1581 238879 02LB 013 138 239283 02PR0013 138 1	238879 02LB 013 239283	02PR0013	1	138 202 ATSI	347	423 Base Cas	0 58.8		16.94 0	0.00%	0.00%	0.00%							
1582 243091 05S.CALDWELL 138 243096 05SCUMBL 138 1	243091 05S.CALDWELL 243096	05SCUMBL	1	138 205 AEP	158	183 Base Cas	0 26.7	-	16.92 0	-0.02%	-0.02%	0.02%							
1583 239132 02TAIMDG 138 239320 02FLWB HOSP 138 1	239132 02TALMDG 239320	02FLWB HOSP	1	138 202 ATST	278	287 Base Cas	0 -47	-	16.91 0	-0.05%	-0.05%	0.01%							
1584 242528 05SPORN 345 248005 06KYGER 345 1	242528 05SPORN 248005	06KYGER	1	345 205/206 AEP/OVEC	1942	2332 Base Cas	0 -328 2	-	16.9 0	-2 59%	-2 59%	-1 68%							
1585 243258 0501044 515 210000 0041014 515 1	243258 05CLEVEL 243515	OSCAP AV	1	138 205 AFP	205	284 Base Cas	0 -34.5	-	16.82 0	-0.04%	-0.04%	-0.02%							
1505 245250 05CHEVER 150 245517 05CHE AV 150 1	243236 05CLEVEL 243317	OSCAL AV	1	130 205 AET	205	202 Dase Cas	0 54.5		16.02 0	0.05%	0.04%	0.02%							
1507 242381 05CARROLLING 138 240120 0550NN151DE2 138 1	242301 03CARROLLINS 240120	0500NNISIDE2	2	130 205 AEF	202	396 Base Cas	0 47 5		16.70 0	0.00%	0.00%	0.05%							
1507 243000 05FREMCT 130 243130 0511FFIN 130 2	243008 05FREMCI 243130	OSTIFFIN	2	130 205 AEF	203	390 Base Cas	0 47.5		16.70	0.00%	0.00%	-0.09%							
1500 243008 05FREMCT 138 243130 05TIFFIN 138 1	243008 05FREMCT 243130	USTIFFIN	1	138 205 AEP	283	396 Base Cas	0 47.5	-	16.78 0	0.00%	0.00%	-0.09%							
1589 2430 /0 050HIOCT 138 246010 05PHILO2 138 2	243070 050HIOCT 246010	05PHILO2	2	138 205 AEP	136	167 Base Cas	0 22.8	-	16.78 0	-0.12%	-0.12%	-0.06%							
1590 247829 05AVIATION 138 247831 05DALMATN SS 138 1	247829 USAVIATION 247831	05DALMATN SS	1	138 205 AEP	293	341 Base Cas	0 -49.1		16.77 0	-0.02%	-0.02%	0.01%							
1591 250032 08FRFLD1 138 250131 08WILEY2 138 1	250032 08FRFLD1 250131	08WILEY2	1	138 212 DEO&K	198	198 Base Cas	0 -33.2	-	16.75 0	-0.02%	-0.02%	0.02%							
1592 243146 05WHEBRO 138 243532 05KIRK 138 1	243146 05WHEBRO 243532	05KIRK	1	138 205 AEP	167	245 Base Cas	0 28	-	16.74 0	0.06%	0.06%	0.01%							
1593 242920 05BELMON 765 242925 05KAMMER 765 1	242920 05BELMON 242925	05KAMMER	1	765 205 AEP	4047	4571 Base Cas	0 677.1	-	16.73 0	-2.27%	-2.27%	3.09%							
1594 238544 02ASH_3 138 239098 02SBRNQ4 138 1	238544 02ASH_3 239098	02SBRNQ4	1	138 202 ATSI	148	151 Base Cas	0 24.8	-	16.72 0	0.19%	0.19%	-0.04%							
1595 247527 05COVERT 345 256019 18PALISD 345 1	247527 05COVERT 256019	18PALISD	1	345 205/218 AEP/METC	1722	1919 Base Cas	0 287.8	-	16.71 0	-0.55%	-0.55%	-0.27%							
1596 243305 05HACIEN 138 243366 05ROB PK12 138 1	243305 05HACIEN 243366	05ROB PK12	1	138 205 AEP	219	255 Base Cas	0 -36.6	-	16.7 0	-0.03%	-0.03%	-0.02%							
1597 243264 05CONCOR 138 243283 05DUNLAP 138 1	243264 05CONCOR 243283	05DUNLAP	1	138 205 AEP	187	233 Base Cas	0 -31.2		16.69 0	-0.02%	-0.02%	-0.01%							
1598 253031 09HALTER 138 253139 09ELDEAN 138 1	253031 09HALTER 253139	09ELDEAN	1	138 209 DAY	196	241 Base Cas	0 -32.7		16.68 0	-0.05%	-0.05%	0.01%							
1599 243524 05HESS NORTH 138 245853 05HESS SOUTH 138 Z1	243524 05HESS NORTH 245853	05HESS SOUTH Z	Z1	138 205 AEP	158	183 Base Cas	0 -26.3	-	16.68 0	-0.07%	-0.07%	-0.01%							
1600 238667 02DUALR+ 138 238668 02DUALRL 138 1	238667 02DUALR+ 238668	02DUALRL	1	138 202 ATSI	98	114 Base Cas	0 16.3	-	16.67 0	0.00%	0.00%	0.00%							
1601 247508 05SARDINIA 138 324267 4KENTON 138 1	247508 05SARDINIA 324267	4KENTON	1	138 205/363 AEP/LGEE	151	185 Base Cas	0 -25.2	-	16.67 0	-0.06%	-0.06%	0.01%							
1602 253006 09BATH 345 253047 09MIAMI 345 1	253006 09BATH 253047	09MIAMI	1	345 209 DAY	1255	1374 Base Cas	0 208.7	-	16.63 0	0.06%	0.06%	0.34%							
1603 242941 050HIOCT 345 243070 050HIOCT 138 1	242941 050HIOCT 243070	05OHIOCT	1	345/138 205 AEP	753	830 Base Cas	0 125.1	-	16.62 0	-0.31%	-0.31%	0.18%							
1604 238905 02LNC.PK 138 238910 02LOWELL 138 1	238905 02LNC.PK 238910	02LOWELL	1	138 202 ATSI	155	155 Base Cas	0 -25.7	-	16.61 0	0.02%	0.02%	0.04%							
1605 238661 02DKQ-16 138 238983 02NAS016 138 1	238661 02DKQ-16 238983	02NASQ16	1	138 202 ATSI	233	282 Base Cas	0 38.7	22	16.6 0	0.02%	0.02%	0.00%							
1606 249574 08TDHNTR 345 249582 08GARVER 345 1	249574 08TDHNTR 249582	08GARVER	1	345 212 DEO&K	1509	1509 Base Cas	0 250.5		16.6 0	-0.58%	-0.58%	-0.41%							
1607 239211 02100-17 138 240350 02TV-NB+17 138 1	239211 02100-17 240350	02IV-NB+17	1	138 202 ATST	273	332 Base Cas	0 45 3	_	16.58 0	-0.05%	-0.05%	0.02%							
1608 242521 05NAGEL 500 360102 8PHTPPS B NP 500 1	242521 05NAGEL 360102	SPHIPPS B NP	1	500 205/347 AEP/TVA	2522	2522 Base Cas	0 -418		16.57 0	-0.73%	-0.73%	-0.85%							
1609 243885 05THORSS 138 243833 05AMBLED DDC 129 1	243885 05THOPSS 242022	05AMBLEP PDC	1	138 205 AFD	2022	392 Base Cas	0 410	222	16.54	-0.30%	-0.30%	0.05%							
1610 243003 051R0K55 130 243955 054MBLER RDG 130 1	243003 05110K35 24333	05RELLBIDCCC	1	130 205 AEF	250	360 Base Cas	0 -12 5	-	16.53 0	-0.15%	-0.15%	-0.14%							
1611 243225 05KEVCEN 345 243222 05CODENC 345 1	247004 050EV00A 247000	05COPENC	1	245 205 ABF	207	1301 Page Cas	0 142.5		16 51	-0.13%	-0.02%	0.37%							
1611 245225 USREISTN 345 243232 USSORENS 345 1	243223 USKEISTN 243232	OF CDEN. N	1	120 205 AEF	897	140 Dage Cas	0 148.1	-	10.51 0	-0.05%	-0.03%	0.32%							
1612 240701 USTHREEC 138 246762 USGREN W 138 1	240/01 USTHREEC 246/62	UDGKEN W	1	138 205 AEP	140	140 Base Cas	0 23.1	-	16.5 0	0.00%	0.00%	0.00%							
1013 243307 UDHARTFO 138 243386 UDVALLY 138 1	24330/05HARTFO 243386	USVALLY	1	138 205 AEP	219	251 Base Cas	0 36.1	-	16.49 0	0.00%	0.00%	-0.01%							
1014/243355 050NTWA8 SS 138 246764 05SAUKTR 138 1	243355 USONTWA8 SS 246764	USSAUKTR	1	138 205 AEP	335	392 Base Cas	0 -55.2	-	16.48 0	-0.02%	-0.02%	-0.04%							
1015243377 05SORENS 138 246982 05HUNT JT_BP 138 1	243377 05SORENS 246982	USHUNT JT_BP	1	138 205 AEP	136	167 Base Cas	0 22.4	-	16.47 0	-0.01%	-0.01%	-0.06%							
1616 245511 05INDUST PK2 138 246373 05SPY RUN1 138 1	245511 05INDUST PK2 246373	05SPY RUN1	1	138 205 AEP	287	337 Base Cas	0 47.3	-	16.46 0	0.00%	0.00%	0.03%							
161/243374 05SELWOO 138 243920 05MAKAHOY 138 1	243374 05SELWOO 243920	05MAKAHOY	1	138 205 AEP	158	183 Base Cas	0 -25.9		16.42 0	0.00%	0.00%	0.00%							
1618 243218 05DESOTO 345 243222 05FALL C 345 1	243218 05DESOTO 243222	05FALL C	1	345 205 AEP	1025	1318 Base Cas	0 -168.2		16.41 0	-0.18%	-0.18%	0.41%							
1619 242986 05CROOKS 138 243104 05SLANCS 138 1	242986 05CROOKS 243104	05SLANCS	1	138 205 AEP	167	167 Base Cas	0 27.4	-	16.41 0	0.06%	0.06%	-0.01%							
1620 238859 02KIQ-11 138 238932 02LYDQ11 138 1	238859 02KIQ-11 238932	02LYDQ11	1	138 202 ATSI	273	332 Base Cas	0 -44.8	-	16.41 0	0.16%	0.16%	-0.05%							

А	B C D	E	F	G	H I	J	K	L	M N	0	P Q	R	S	T U
1621 243387 05VANBUR 138 246982 05HUNT JT BP 138 1	243387 05VANBUR 24698	2 05HUNT JT BP	1	138	205 AEP	136	167 Bas	se Case	0 -22.3	-	16.39 0	-0.01%	-0.01%	-0.06%
1622 242998 05EPOINT 138 243001 05EZANEV 138 1	242998 05EPOINT 24300	1 05EZANEV	1	138	205 AEP	205	284 Bas	se Case	0 33.6	-	16.38 0	-0.11%	-0.11%	-0.06%
1623 247715 05BLUE RACER 138 247757 05HERLAN SW 138 1	247715 05BLUE BACER 24775	7 05HERLAN SW	1	138	205 AEP	296	413 Bas	se Case	0 -48.4	-	16.34 0	0.03%	0.03%	-0.01%
1624 243049 05NATRIUM12 138 243119 05SOMERTON Z 138 1	243049 05NATRTUM12 24311	9 05SOMERTON Z	1	138	205 AEP	187	240 Bas	se Case	0 30.5	-	16.34 0	0.12%	0.12%	-0.03%
1625 243466 05ASTOR 138 244868 05BRICE 138 1	243466 05ASTOR 24486	8 05BRICE	1	138	205 AEP	191	222 Bas	se Case	0 -31.2	-	16.33 0	-0.03%	-0.03%	0.01%
1626 243456 05CORRID 345 243855 05JUG ST 345 1	243456 05CORRTD 24385	5 05.TUG ST	1	345	205 AEP	1868	1868 Bas	se Case	0 305	-	16.33 0	0.37%	0.37%	-0.07%
1627 238843 02 INDROA 138 239052 0200 04 138 1	238843 02 INPPO4 23905	2 02 PV 04	1	138	202 ATST	265	332 Ba	se Case	0 43 3	-	16.31 0	0.18%	0.18%	-0.03%
1628 242673 05000000 120 130 233032 020 04 130 1	242673 05UIIDTINN 2429	5 0500000	1	130	205 AFD	203	225 Pa	se Case	0 40.0		16.31 0	0.00%	0.10%	0.17%
1620 242075 05h051WN 150 242055 051K151A 150 1	242075 05H0B1WN 24200	2 17CTTINETT	1	245	205/217 AFB/NTRC	1409	1400 Ba	se case	0 -220 5	-	16.20 0	-1 29%	-1 20%	-0.92%
1620 238075 02N FACE 128 220220 02MEDCO 128 1	245215 05D0M0N1 25511	0 0 2MEDCO	1	120	203/21/ AEF/NIFS	104	227 Ba	se case	0 -22.5.5		16.23 0	-1.25%	-1.25%	0.02%
1631 238840 02 TNDD01 138 239239 02MEDC0 130 1	238940 02 NIDBO1 2390	0 02REDCO	1	120	202 ATSI	267	227 Da	se case	0 42.0		16.27 0	0.16%	0.16%	-0.04%
1631 230040 020NFRQ1 130 239049 02FV Q1 130 1	230040 020NFRQ1 23904	A DEMCAMPR	1	130	202 AISI	207	332 Bas	se Case	0 45.4		16.27 0	0.10%	0.10%	-0.04%
1632 243036 03NEWCOM 138 243144 05WCAMBR 138 1	243036 USNEWCOM 2431	4 USWCAMBR	1	130	205 AEP	207	291 Bd	se case	0 -40.0	-	16.24 0	-0.12%	-0.12%	0.11%
1635 238637 02CPP LS 138 238660 02DIVISN 138 1	238637 02CPP LS 23866	0 02DIVISN	1	138	202 ATS1	170	193 Bas	se case	0 -27.6	-	16.23 0	-0.22%	-0.22%	-0.01%
1634 242971 USBRIAN 138 243029 USLCKWRD 138 1	242971 USBRYAN 24302	9 USLCKWRD	1	138	205 AEP	232	232 Bas	se Case	0 -37.6	-	16.23 0	0.00%	0.00%	0.00%
1635 250055 08LTERL7 138 250056 08LTERL8 138 21	250055 08LTERL7 25005	6 USLTERLS	21	138	212 DEO&K	394	394 Bas	se Case	0 63.9	-	16.23 0	0.02%	0.02%	0.01%
1636 2388 /8 02LB Q12 138 239282 02PR0Q12 138 1	238878 02LB Q12 23928	2 02PROQ12	1	138	202 ATS1	355	434 Bas	se Case	0 57.6	-	16.22 0	0.00%	0.00%	0.00%
105/238812 02HOYTDL 345 239936 02MCCLELLAND 345 1	238812 U2HOYTDL 23993	0 UZMCCLELLAND	1	345	ZUZ ATSI	1380	1646 Bas	se Case	0 -223.5	-	16.2 0	-0.5/%	-0.57%	-0.27%
1030 2388 // 02LAQ-13 138 239283 02PR0Q13 138 1	23887/ U2LAQ-13 23928	3 U2PROQ13	1	138	202 ATSI	347	423 Bas	se Case	0 -56.1	-	16.18 0	0.00%	0.00%	0.00%
1059/242564 05BRADL1 138 242653 05GRANDV 138 1	242564 U5BRADL1 24265	3 U5GRANDV	1	138	205 AEP	335	392 Bas	se Case	0 54.2	-	16.18 0	-0.04%	-0.04%	-0.61%
1640 238710 02EYQ-14 138 238711 02EYTP14 138 1	238710 02EYQ-14 23871	1 U2EYTP14	1	138	202 ATSI	347	423 Bas	se Case	0 -56.1	-	16.17 0	-0.15%	-0.15%	-0.02%
1041249987 08BETHNY 138 250098 08SHAKER 138 1	249987 08BETHNY 25009	8 U8SHAKER	1	138	212 DEO&K	394	394 Bas	se Case	0 -63.7	-	16.16 0	-0.06%	-0.06%	-0.06%
1642 242525 05KANAWH 345 242528 05SPORN 345 1	242525 05KANAWH 24252	8 05SPORN	1	345	205 AEP	943	943 Bas	se Case	0 -152.3	-	16.15 0	-0.39%	-0.39%	-1.36%
1643 239739 02CROMWELL 138 241926 02ASTORQ14 138 1	239739 02CROMWELL 24192	6 02ASTORQ14	1	138	202 ATSI	435	500 Bas	se Case	0 70.2	-	16.13 0	-0.29%	-0.29%	-0.02%
1644 243088 05S.POINT1 138 245615 05S.POINT2 138 Z1	243088 05S.POINT1 24561	5 05S.POINT2	Z1	138	205 AEP	240	309 Bas	se Case	0 38.7	-	16.12 0	-0.07%	-0.07%	0.04%
1645 242556 05BLUEFLD AV 138 242784 05S.BLUE 138 1	242556 05BLUEFLD AV 24278	4 05S.BLUE	1	138	205 AEP	251	251 Bas	se Case	0 40.5	-	16.12 0	-0.13%	-0.13%	-0.26%
1646 238569 02BEAVER 345 238607 02CARLIL 345 1	238569 02BEAVER 23860	7 02CARLIL	1	345	202 ATSI	1380	1646 Bas	se Case	0 221.9	-	16.08 0	-1.45%	-1.45%	-0.47%
1647 243208 05JEFRSO 765 242865 05JEFRSO 345 2	243208 05JEFRSO 24286	5 05JEFRSO	2	765/345	205 AEP	2889	3039 Bas	se Case	0 464.2	-	16.07 0	-0.08%	-0.08%	-0.15%
1648 247064 05KANAWHA2 138 247092 05KANAWH_BSZ 138 ZM	247064 05KANAWHA2 24709	2 05KANAWH_BSZ	ZM	138	205 AEP	383	449 Bas	se Case	0 -61.5	-	16.06 0	0.01%	0.01%	-0.09%
1649 243015 05GREENL 138 243130 05TIFFIN 138 1	243015 05GREENL 24313	0 05TIFFIN	1	138	205 AEP	257	360 Bas	se Case	0 -41.3	-	16.06 0	-0.01%	-0.01%	-0.08%
1650 238896 02LIMECT 138 239227 02-1STSL 138 1	238896 02LIMECT 23922	7 02-1STSL	1	138	202 ATSI	288	353 Bas	se Case	0 46.2	-	16.05 0	-0.03%	-0.03%	0.01%
1651 242705 05LOGAN2 138 247634 05LYBURN SS 138 1	242705 05LOGAN2 24763	4 05LYBURN SS	1	138	205 AEP	296	413 Bas	se Case	0 -47.4	-	16.01 0	0.08%	0.08%	0.20%
1652 242522 05AMOS 345 242528 05SPORN 345 1	242522 05AMOS 24252	8 05SPORN	1	345	205 AEP	897	897 Bas	se Case	0 143.5	-	16 0	0.07%	0.07%	0.87%
1653 238763 02GR Q-4 138 239052 02PV Q4 138 1	238763 02GR Q-4 23905	2 02PV Q4	1	138	202 ATSI	103	132 Bas	se Case	0 -16.4	-	15.94 0	0.24%	0.24%	0.03%
1654 243664 05HAZARD 161 243693 05HAZRD2 138 1	243664 05HAZARD 24369	3 05HAZRD2	1	161/138	205 AEP	350	350 Bas	se Case	0 55.6		15.87 0	-0.11%	-0.11%	-0.04%
1655 242658 05GREENB 138 242777 05RONCVR 138 1	242658 05GREENB 24277	7 05RONCVR	1	138	205 AEP	110	110 Bas	se Case	0 -17.4	-	15.84 0	0.00%	0.00%	0.00%
1656 243366 05ROB PK12 138 246993 05PURDUE 138 1	243366 05ROB PK12 24699	3 05PURDUE	1	138	205 AEP	296	392 Bas	se Case	0 46.9	-	15.84 0	0.00%	0.00%	-0.03%
1657 243342 05MILAN 138 243877 05DAWKNS 138 1	243342 05MILAN 24387	7 05DAWKNS	1	138	205 AEP	167	245 Bas	se Case	0 -26.4	-	15.84 0	0.03%	0.03%	0.02%
1658 249570 08P.UNON 345 249575 08TERMNL 345 1	249570 08P.UNON 24957	5 08TERMNL	1	345	212 DEO&K	1509	1509 Bas	se Case	0 -238.9	-	15.83 0	-0.46%	-0.46%	-0.21%
1659 243703 05TOPMOS 138 244688 05BEAVER CR2 138 1	243703 05TOPMOS 24468	8 05BEAVER CR2	1	138	205 AEP	158	183 Bas	se Case	0 -24.9	-	15.78 0	0.09%	0.09%	0.05%
1660 243279 05DIAMND 138 243890 05WOODSR 138 1	243279 05DIAMND 24389	0 05WOODSR	1	138	205 AEP	251	335 Bas	se Case	0 39.5	-	15.75 0	-0.09%	-0.09%	-0.06%
1661 242540 05APPLE1 138 243095 05SCOTTOWNSS 138 1	242540 05APPLE1 24309	5 05SCOTTOWNSS	1	138	205 AEP	167	167 Bas	se Case	0 -26.3	-	15.72 0	-0.03%	-0.03%	0.07%
1662 238876 02LAQ-12 138 239282 02PROQ12 138 1	238876 02LAQ-12 23928	2 02PROQ12	1	138	202 ATSI	355	434 Bas	se Case	0 -55.8	-	15.72 0	0.00%	0.00%	0.00%
1663 238617 02CHMBER 138 238814 02HUDMUN 138 1	238617 02CHMBER 23881	4 02HUDMUN	1	138	202 ATSI	200	242 Bas	se Case	0 31.4	-	15.69 0	-0.02%	-0.02%	-0.03%
1664 242549 05BANSTR 138 242550 05BEARSK 138 1	242549 05BANSTR 24255	0 05BEARSK	1	138	205 AEP	335	392 Bas	se Case	0 -52.5	-	15.68 0	-0.09%	-0.09%	-1.54%
1665 246102 05CARROLLTN2 138 246167 05CARROLLTN1 138 ZP	246102 05CARROLLTN2 24616	7 05CARROLLTN1	ZP	138	205 AEP	548	555 Bas	se Case	0 85.8	-	15.67 0	0.10%	0.10%	0.01%
1666 245533 05H0LLOWAY34 138 247131 05H0LLOWAY12 138 Z1	245533 05HOLLOWAY34 24713	1 05HOLLOWAY12	Z1	138	205 AEP	747	747 Bas	se Case	0 116.7	-	15.62 0	-0.05%	-0.05%	0.10%
1667 245533 05HOLLOWAY34 138 247131 05HOLLOWAY12 138 Z2	245533 05HOLLOWAY34 24713	1 05HOLLOWAY12	Z2	138	205 AEP	747	747 Bas	se Case	0 116.7	-	15.62 0	-0.05%	-0.05%	0.10%
1668 242555 05BLAINE 138 242773 05ROANO1 138 1	242555 05BLAINE 24277	3 05ROANO1	1	138	205 AEP	219	223 Bas	se Case	0 34.2	-	15.61 0	-0.04%	-0.04%	0.57%
1669 239316 02WASHREC 138 239988 02FE-POLO 138 1	239316 02WASHREC 23998	8 02FE-POLO	1	138	202 ATSI	275	333 Bas	se Case	0 -42.9		15.61 0	-0.13%	-0.13%	0.07%
1670 243218 05DESOTO 345 243792 05LOSANTVILL 345 2	243218 05DESOTO 24370	2 05LOSANTVILL	2	345	205 AEP	1025	1132 Bas	se Case	0 -159.9	-	15.6 0	0.14%	0.14%	0.20%
1671 242958 05BATTLE 138 243133 05VALLEY GRV 138 2	242958 05BATTLE 24313	3 05VALLEY GRV	2	138	205 AEP	205	205 Bas	se Case	0 31.8	-	15.52 0	0.15%	0.15%	-0.10%
1672 244022 05COLE 345 244023 05COLE 138 2	244022 05COLE 24403	3 05COLE	2	345/138	205 AEP	941	956 Bas	se Case	0 145 9	-	15.51 0	-0.07%	-0.07%	-0.02%
1673 238727 02WLBCT+ 138 238936 02MACLEA 138 1	238727 02WLBCT+ 23893	6 02MACLEA	1	138	202 ATST	278	343 Ba	se Case	0 -43.1		15.5 0	0.03%	0.03%	-0.01%
1674 243467 05E BROAD3 138 243532 05KTRK 138 1	243467 05E BBOAD3 24353	2 05KTBK	1	138	205 AEP	297	338 Bas	se Case	0 -44	-	15.5 0	0.03%	0.03%	-0.01%
1675 242563 05B0XWD 138 242603 05CLIFFD 139 1	242563 05BOXWD 2435	3 05CLIFFP	1	130	205 AFP	167	167 8-1	se Caee	0 25 0	-	15.49 0	-0.30%	-0 30%	-0.65%
1676 242986 05CROOKS 138 244560 05TSABELLA 139 1	242986 05CBOOKS 24454	0 05TSABELLA	1	130	205 AFP	124	124 Pa	se Case	0 10 3	_	15.46 0	0.03%	0.03%	0.04%
1677 242952 05SHEPLER SS 138 245100 0515ADELLA 130 1	242952 05540045 24430	9 05262629	1	130	205 AFP	145	177 000	so Caeo	0 19.2		15.44 0	0.00%	0.00%	0.00%
1678 238703 02FCDNC 138 220000 0210ND0M 120 1	238703 02FGDDMC 23900	8 02LONDON	1	120	203 ADF	200	2/2 043	ee Case	0 _20.6	-	15.43	0.00%	0.00%	0.03%
1670 2430705 0225FRNG 150 250900 02200000N 150 1 1670 243275 050013001 130 245003 050013002 130 71	243275 05DET AWD1 24590	3 05DET AMP2	71	130	202 AIDI	110	120 Da	se case	0 -50.5		15.43 0	0.07%	0.07%	-0.05%
1600 2243273 USDELAWRI 130 243003 USDELAWRZ 138 21	243273 USDELAWKI 24380	2 0.2 OFLAWRZ	1	100	200 AEF	200	246 D-	se case	0 11		15.43 0	0.02%	0.02%	0.01%
136 1 233203 0231LURE 138 1	230302 02H1DWA1 23920	020110/VE		1 130	202 10101	200	JAD Bd	JC CASE	0 44.4		13.43	0.0070	0.00%	0.01/0

		A		В	C	D	E	F	G	Н	1	J	К	L	М	N	0	Р	Q	R	S	T U
1681 243284 05DUPONT	138	243890 05WOODSR	138 1	243284	05DUPONT	243890	05WOODSR	1	1 138	205	AEP	219	255	Base Case	0	-33.7		15.4	0	-0.09%	-0.09%	-0.06%
1682 243312 05HUMMEL	138	246968 05DOOVIL	138 1	243312	05HUMMEL	246968	05DOOVIL	1	1 138	205	AEP	251	251	Base Case	0	38.5	-	15.35	0	-0.03%	-0.03%	-0.05%
1683 242787 05MIDDLEB SS	138	243019 05HILLSB	138 1	242787	05MIDDLEB SS	243019	05HILLSB	1	1 138	205	AEP	300	300	Base Case	0	-46	-	15.34	0	0.07%	0.07%	0.12%
1684 242589 05CENTCB	138	243883 05LAKEFR	138 1	242589	05CENTCR	243883	05LAKEEB	1	1 138	205	AEP	167	245	Base Case	0	-25.6	-	15 32	0	-0.01%	-0.01%	-0.23%
1685 242772 05BIVEBV	138	247632 05AMHERST	138 1	242772	05RIVERV	247632	05AMHERST	1	1 138	205	AEP	219	251	Base Case	0	33.5	-	15 29	0	-0 14%	-0.14%	-0.40%
1686 243386 05VALLY	139	247329 058TINCEP	138 1	242772	O SWATTY	247002	05gmtNCEP	1	1 139	205	AED	251	251	Base Case	0	39.3	-	15.24	0	-0.01%	-0.01%	-0.01%
1687 244023 05COLE	138	247199 055MLTN	138 1	240000	B 05COLE	247323	05AMLTN	1	1 138	205	AFD	564	683	Base Case	0	86	-	15.24	0	-0.07%	-0.07%	-0.01%
1688 242744 05 DATCTR	120	247199 05RHIIN	120 1	244025		247100	05ETELDALE?	1	1 120	205	AED	202	241	Base Case	0	11 6		15 24	0	-0.02%	-0.03%	0.24%
1690 239795 02 TOURMAN 2	1 2 0	243733 OSPIELDALEZ	120 1	242744	O TOUNMAN 2	243795	03PICULD		1 120	203	ADD	235	264	Dase Case	0	22.0		15 22	0	-0.03%	0.00%	0.24%
1600 238783 0230HNMAN-2	120	239070 02RICHLD	130 1	230703	02UOHINMAN-2	239070	O2NDALLO	1	1 120	202	AISI	210	204	Base Case	0	-32.9	_	15.23	0	0.00%	0.00%	0.00%
1690 238782 02HANNA	138	238999 UZNFALLS	138 1	238782	02HANNA	238999	OZNEALLS		1 138	202	ATSI	275	333	Base case	0	-41.8	-	15.21	0	0.10%	0.10%	0.00%
1691 242589 05CENTCR	138	242681 051VY HL	138 1	242589	05CENTCR	242681	USIVY HL		1 138	205	AEP	167	245	Base Case	0	25.4	-	15.21	0	-0.01%	-0.01%	-0.23%
1692 242626 USE.HUNTING2	138	245664 USE.HUNTINGI	138 21	242626	DOSE.HUNTING2	245664	USE.HUNTINGI	21	138	205	AEP	287	337	Base Case	0	-43.6	-	15.17	0	-0.01%	-0.01%	-0.03%
1693 242989 05E LIMA	138	243125 USTHAYER	138 1	242989	0 USE LIMA	243125	OSTHAYER		1 138	205	AEP	219	223	Base Case	0	33.2	-	15.17	0	0.05%	0.05%	-0.05%
1694 238664 02DOBINS	138	238910 OZLOWELL	138 1	238664	02DOBINS	238910	02LOWELL		1 138	202	ATSI	204	209	Base Case	0	30.9		15.16	0	-0.01%	-0.01%	0.06%
1695 238528 02AETNA	138	238560 02BABB	138 1	238528	3 UZAETNA	238560	UZBABB		1 138	202	ATSI	233	282	Base Case	0	35.3	-	15.15	0	0.03%	0.03%	0.05%
1696 243245 05ANTHYZ	138	245832 05LINCOLN2	138 1	243245	05ANTHYZ	245832	05LINCOLN2	1	1 138	205	AEP	251	251	Base Case	0	-38	-	15.13	0	0.07%	0.07%	0.05%
109/24/106 05VARNER	138	24/790 U5DUNTONLAKE	138 1	247106	USVARNER	247790	USDUNTONLAKE	1	138	205	AEP	257	360	Base Case	0	38.8	-	15.1	0	0.00%	0.00%	-0.01%
1698 239215 02BRIGHT	138	239216 02TROY	138 1	239215	U2BRIGHT	239216	U2TROY		138	202	ATSI	157	189	Base Case	0	23.7	-	15.09	0	0.08%	0.08%	-0.11%
1699 243933 05AMBLER RDG	138	247793 05LINDEN RD	138 1	243933	05AMBLER RDG	247793	05LINDEN RD	1	1 138	205	AEP	296	413	Base Case	0	44.6	-	15.07	0	-0.30%	-0.30%	0.05%
1/00 245822 05LIGONIER1	138	247433 05CHARGER	138 Z1	245822	05LIGONIER1	247433	05CHARGER	Z1	138	205	AEP	94	105	Base Case	0	-14.2	-	15.07	0	0.00%	0.00%	0.00%
1/01 238532 02ALLNJB	138	239344 02ALLEN-2	138 ZB	238532	2 02ALLNJB	239344	02ALLEN-2	ZB	138	202	ATSI	563	563	Base Case	0	-84.8	-	15.07	0	-0.07%	-0.07%	0.01%
1702 238962 02MIDWAY	138	238979 02NAPMUN	138 1	238962	02MIDWAY	238979	02NAPMUN	1	1 138	202	ATSI	161	194	Base Case	0	24.3	-	15.07	0	0.08%	0.08%	0.01%
1703 242736 050AKLEV	138	243799 05FIELDALE2	138 1	242736	050AKLEV	243799	05FIELDALE2	1	1 138	205	AEP	223	223	Base Case	0	-33.6	-	15.05	0	-0.05%	-0.05%	0.40%
1704 238700 02EPWRTH	138	239058 02BRUSHCRK	138 1	238700	02EPWRTH	239058	02BRUSHCRK	1	1 138	202	ATSI	278	339	Base Case	0	41.8	-	15.04	0	0.03%	0.03%	0.00%
1705 239010 02NORDON	138	239617 02SOUREK	138 1	239010	02NORDON	239617	02SOUREK	1	1 138	202	ATSI	200	242	Base Case	0	30.1	-	15.04	0	0.08%	0.08%	-0.02%
1706 243110 05STIFFI	138	243137 05W.END FOS1	138 1	243110	05STIFFI	243137	05W.END FOS1	1	1 138	205	AEP	167	167	Base Case	0	-25.1	-	15.03	0	-0.09%	-0.09%	-0.01%
1707 243665 05LESLIE	161	243668 05WOOTON	161 1	243665	05LESLIE	243668	05WOOTON	1	1 161	205	AEP	192	208	Base Case	0	28.8	-	15.03	0	-0.02%	-0.02%	0.05%
1708 238701 02ERQ-11	138	238743 02ER-DNB+Q11	138 1	238701	02ERQ-11	238743	02ER-DNB+Q11	1	1 138	202	ATSI	273	332	Base Case	0	-41	-	15.02	0	0.00%	0.00%	0.00%
1709 243136 05W LIMA	138	243777 05LIMA REFIN	138 Z2	243136	5 05W LIMA	243777	05LIMA REFIN	Z2	138	205	AEP	347	347	Base Case	0	52	-	15	0	0.00%	0.00%	0.00%
1710 243136 05W LIMA	138	243777 05LIMA REFIN	138 Z1	243136	5 05W LIMA	243777	05LIMA REFIN	Z1	138	205	AEP	347	347	Base Case	0	52	-	15	0	0.00%	0.00%	0.00%
1711 243242 05ALLEN	138	243330 05LINCOLN1	138 2	243242	2 05ALLEN	243330	05LINCOLN1	2	2 138	205	AEP	260	260	Base Case	0	39	-	14.99	0	0.05%	0.05%	0.03%
1712 253004 09AMSTRD	138	253150 09HNDAAT	138 1	253004	09AMSTRD	253150	09HNDAAT	1	1 138	209	DAY	221	272	Base Case	0	-33.1	-	14.98	0	0.03%	0.03%	0.02%
1713 242993 05E.LEIPSIC2	138	246354 05E.LEIPSIC1	138 ZG	242993	05E.LEIPSIC2	246354	05E.LEIPSIC1	ZG	138	205	AEP	329	361	Base Case	0	49.2		14.96	0	-0.06%	-0.06%	-0.10%
1714 242549 05BANSTR	138	242632 05EDAN 2	138 1	242549	05BANSTR	242632	05EDAN 2	1	1 138	205	AEP	296	296	Base Case	0	44.3	-	14.96	0	-0.09%	-0.09%	-1.54%
1715 238575 02BLUBEL	138	239299 02BRLAKE	138 1	238575	02BLUBEL	239299	02BRLAKE	1	1 138	202	ATSI	117	147	Base Case	0	-17.5	-	14.95	0	0.16%	0.16%	-0.07%
1716 242510 05BAKER	765	242511 05BROADF	765 1	242510	05BAKER	242511	05BROADF	1	1 765	205	AEP	4142	4142	Base Case	0	619.1	-	14.95	0	-1.72%	-1.72%	-8.23%
1717 243004 05FINDLC	138	243033 05THORNWD SS	138 1	243004	05FINDLC	243033	05THORNWD SS	t	1 138	205	AEP	200	254	Base Case	0	-29.9	-	14.94	0	0.01%	0.01%	0.00%
1718 242755 05PIPERS	138	245117 05W.CARROLL	138 1	242755	05PIPERS	245117	05W.CARROLL	1	1 138	205	AEP	251	251	Base Case	0	37.5		14.92	0	0.03%	0.03%	0.07%
1719 238960 02MIDW K	138	239371 02DOWLING	138 1	238960	02MIDW K	239371	02DOWLING	1	1 138	202	ATSI	158	190	Base Case	0	-23.6	-	14.92	0	0.06%	0.06%	0.01%
1720 242767 05RIDGWA	138	242797 05SHEFLD	138 1	242767	05RIDGWA	242797	05SHEFLD	1	1 138	205	AEP	167	167	Base Case	0	24.9	-	14.9	0	0.01%	0.01%	0.46%
1721 242976 05BUCYRC	138	243117 05SULFRS	138 1	242976	05BUCYRC	243117	05SULFRS	1	1 138	205	AEP	164	180	Base Case	0	-24.4	-	14.88	0	0.03%	0.03%	0.01%
1722 242959 05BELDVL	138	243142 05WAYVIE	138 1	242959	05BELDVL	243142	05WAYVIE	1	1 138	205	AEP	251	335	Base Case	0	37.3	-	14.86	0	0.02%	0.02%	0.01%
1723 242981 05CARROLLTN3	138	246167 05CARROLLTN1	138 ZN	242981	05CARROLLTN3	246167	05CARROLLTN1	ZN	138	205	AEP	548	555	Base Case	0	-81.3	-	14.83	0	0.10%	0.10%	0.01%
1724 243422 05POINTL	138	247794 05COCO	138 1	243422	05POINTL	247794	05COCO	1	1 138	205	AEP	180	227	Base Case	0	-26.7	-	14.81	0	-0.04%	-0.04%	-0.24%
1725 243490 05CORNER	138	243496 05CONGRES SS	138 1	243490	05CORNER	243496	05CONGRES SS	1	1 138	205	AEP	195	220	Base Case	0	-28.8		14.78	0	0.24%	0.24%	0.14%
1726 245533 05HOLLOWAY34	138	245539 05HOLLOWAY56	138 Z3	245533	05HOLLOWAY34	245539	05HOLLOWAY56	23	138	205	AEP	747	747	Base Case	0	-110.3	-	14.76	0	0.02%	0.02%	-0.03%
1727 245533 05H0LLOWAY34	138	245539 05HOLLOWAY56	138 24	245533	0.5HOLLOWAY34	245539	05HOLLOWAY56	7.4	138	205	AEP	747	747	Base Case	0	-110.3	-	14.76	0	0.02%	0.02%	-0.03%
1728 239371 02DOWLING	138	240990 02HOMEDEPOT	138 1	239371	02DOWLING	240990	02HOMEDEPOT	1	1 138	202	ATST	252	291	Base Case	0	-37.2	-	14.76	0	0.08%	0.08%	0.01%
1729 244142 05MAROUETTE	138	244143 05KUCHAR	138 1	244142	05MAROUETTE	244143	05KUCHAR	1	1 138	205	AEP	251	335	Base Case	0	-37	-	14 75	0	0.08%	0.08%	0.05%
1730 243680 05CEDARC	138	243695 05,TOHNSC	138 1	243680	05CEDARC	243695	05.TOHNSC	1	1 130	205	AEP	296	378	Base Case	0	-43.6	_	14 74	0	0.09%	0.09%	-0.08%
1731 243274 05DEER CPK1	138	246051 0505FFR CRK2	138 71	243070	OSDEER CRK1	246051	05DEER CRK2	21	130	205	AEP	1.97	240	Base Caen	0	-27 5	_	14 71	0	-0.04%	-0.04%	0.00%
1732 239048 02PPPTNF	138	239058 02BBUSHCPK	138 1	2390/19	02PPPTNE	239059	02BRIISHCRK	1	1 139	203	ATST	265	316	Base Case	0	_30		14.7	0	0.04%	0.04%	0.00%
1733 242669 05HOLET1	128	242739 0500FEANK	138 1	2/2660	05801.571	20000	050REBANK	1	1 120	202	AEP	167	167	Base Case	0	-24 5		1/ 60	0	-0.01%	-0.01%	-0.05%
1734 243019 05HTLLCP	130	246011 05HTCHLA	138 1	243010	05UTLISB	246011	05HTCHLA	1	1 120	203	AFD	206	412	Base Case	0	43.0	_	14.00	0	-0.01%	-0.01%	-0.01%
1735 239731 00EOV	700	230703 02UADDIN	345 1	243019	02FOX	230703	02UADDTN		1 245	200	лыг	1 = 4 0	1070	Base Case	0	- 226	-	14.0/	0	0.07%	0.07%	0.01%
1736 243285 AFE STOP	120	246066 050 DEND2	139 1	2/20/31	OSE STOP	230/83	050 DENDO		1 120	202	ALDI	210	10/8	Base Case	0	22.0	_	14.00	0	0.37%	0.37%	0.04%
1727 270162 202 00E.SIDE	130	270122 NP2 067 00	130 I 220 1	243285	DDD-067 MATY	240000	AP2-067 COT		1 765/000	203	AED	213	251	Dase Case	0	-1462 6	-	14.05	0	0.05%	0.05%	0.02%
1738 270162 AD2 067 MAIN	765	270162 AB2-007 GSU	230 I 765 1	270103	AD2-067 MAD	270123	AD2-067 MATY		1 703/230	205	ADD	9999	3333	Dase Case	0	-1463.6		14.04	0	-0.91%	-0.91%	-0.91%
1730 220102 AB2-067 TAP	100	2/0103 ABZ-00/ MAIN	100 L	270102	AB2-UO/ TAP	2/0103	ABZ-UD/ MAIN		1 100	205	ADF	3999	3333	Dase Case	0	-1403.0		14.04	0	-0.91%	-0.91%	-0.51%
1740 240240 COOPCIANDS	138	24//UU UDIAGER	130 1	238629	UZCLVKDL	24//00	USTAGER		1 138	202/205	AISI/AEP	196	228	Dase Case	0	-28.6		14.61	0	-0.05%	-0.05%	0.05%
1740 240349 02GROVWDQ14	138	241237 U2GROV TP	138 1	240349	UZGROVWDQ14	241237	UZGROV TP		138	202	ATSI	355	434	Base Case	0	-51.8	-	14.58	0	0.00%	0.00%	0.00%

	А		B C	D	E	F	G	НІ	J	К	L	М	N	0	Р	Q	R	S	T U
1741 242702 05LEFTFK	138 242706 05LOONEY	138 1	242702 05LEFTFK	242706	05LOONEY	1	138	205 AEP	195	220	Base Case	0	28.4		14.56	0	0.02%	0.02%	0.03%
1742 247371 05MUSKNG1B	138 247435 05MUSKNG ESZ	138 ZG	247371 05MUSKNG1B	247435	05MUSKNG ESZ	ZG	138	205 AEP	766	784	Base Case	0	-111.5	-	14.56	0	-0.33%	-0.33%	-0.06%
1743 242512 05CLOVRD	765 242524 05CLOVRD	345 10	242512 05CLOVRD	242524	05CLOVRD	10	765/345	205 AEP	2250	2250	Base Case	0	327.5	-	14.55	0	-0.85%	-0.85%	-0.83%
1744 250000 08COLDSP	138 250132 08WLDER1	138 1	250000 08COLDSP	250132	08WLDER1	1	138	212 DEO&K	264	264	Base Case	0	38.4	-	14.55	0	0.03%	0.03%	0.01%
1745 243321 05KENDAL	138 243375 05SKINNR	138 1	243321 05KENDAL	243375	05SKINNR	1	138	205 AEP	251	251	Base Case	0	-36.5	-	14.55	0	-0.05%	-0.05%	-0.03%
1746 244510 05BLOSSOM TR	138 245846 05BTVEBSTDE2	138 1	244510 05BLOSSOM TR	245846	05RIVERSIDE2	1	138	205 AEP	136	167	Base Case	0	-19.7	-	14 51	0	0.00%	0.00%	-0.01%
1747 242751 05PIGEON	138 242761 05BAGLDZ	138 1	242751 05PTGEON	242761	05RAGLDZ	1	138	205 AEP	158	183	Base Case	0	-22.9	_	14 49	0	0.00%	0.00%	0.00%
1748 242931 05BEVERT	345 247566 05LAMPING BD	345 1	242931 05BEVERT	247566	OSTANDING BD	1	345	205 AFP	971	971	Base Case	0	140 6	-	14 48	0	-1 59%	-1 59%	0.46%
1740 242931 05BEVERE	345 243903 05CUNN PD 88	345 1	242931 05MARVEN	247000	05CUNN PD SS	1	345	205 AEF	907	1151	Base Case	0	120.0		14.40	0	0.65%	0.65%	0.76%
1750 242335 05MARTSV	129 242300 0500000 KD 35	120 1	242555 05MARTSV	243303	OFW LANCACES	1	120	205 AEF	167	167	Base Case	0	-24.2	_	14.40	0	0.05%	0.05%	0.70%
1751 2471 20 05HOLLOW	245 247566 0512MDING PD	245 1	243104 055LANCS	243143	OSLANDING PD	1	245	205 AEP	071	071	Base Case	0	-140.2		14.40	0	-0.03%	-0.03%	0.00%
1751 247130 05HOLLOW	139 2427300 USLAMFING BF	120 1	247130 05HOLLOW	247300	OSLAMPING_BP	1	120	205 AEF	206	206	Base Case	0	-140.3		14.45	0	-1.33%	0.11%	0.40%
1752 242718 USMINNAM	138 242/33 USNEWHOP	245 1	242718 USMINNAM	242733	JOINEWHOP	1	. 130	205 AEP	1224	1400	Base Case	0	42.7	_	14.42	0	-0.11%	-0.11%	-0.29%
1753 247/12 USSULLIVAN	345 346809 /CASE1	345 I	247712 03SOLLIVAN	346809	/CASE1	1	. 345	205/35/AEP/AMIL	1334	1400	Base Case	0	-191.6	-	14.30	0	-0.52%	-0.52%	0.10%
1754 238845 02JONSON	138 238971 U2MURRAY	138 1	238845 02JONSON	238971	02MURRAY	1	138	202 ATS1	196	242	Base Case	U	28	-	14.3	0	-0.05%	-0.05%	-0.02%
1755 243527 05HYATTX	138 245952 05DLAWAR1	138 1	243527 05HYATTX	245952	05DLAWAR1	1	. 138	205 AEP	335	380	Base Case	0	47.8	-	14.27	0	0.01%	0.01%	0.01%
1756 243526 05HYATT	138 243527 05HYATTX	138 SR	243526 05HYATT	243527	05HYATTX	SR	138	205 AEP	335	380	Base Case	0	47.8	-	14.27	0	0.01%	0.01%	0.01%
1757 242724 05MOSELEY	138 242774 05ROANO2	138 1	242724 05MOSELEY	242774	05ROANO2	1	. 138	205 AEP	167	240	Base Case	0	-23.8	-	14.27	0	-0.04%	-0.04%	-0.24%
1758 235378 01NMARTN	138 246067 05NATRIUM34	138 1	235378 01NMARTN	246067	05NATRIUM34	1	. 138	201/205 AP/AEP	148	192	Base Case	0	21.1	-	14.27	0	0.03%	0.03%	0.13%
1759 238685 02EASTLK	138 241924 02ELQ4	138 1	238685 02EASTLK	241924	02ELQ4	1	. 138	202 ATSI	999	999	Base Case	0	142.4	-	14.25	0	0.03%	0.03%	-0.01%
1760 243575 05ST.CLR	138 243576 05ST.CLX	138 SR	243575 05ST.CLR	243576	05ST.CLX	SR	138	205 AEP	191	229	Base Case	0	-27.2	-	14.25	0	-0.01%	-0.01%	-0.03%
1761 238864 02KNOX	138 239316 02WASHREC	138 1	238864 02KNOX	239316	02WASHREC	1	. 138	202 ATSI	275	333	Base Case	0	-39.1	-	14.22	0	-0.13%	-0.13%	0.07%
1762 238569 02BEAVER	345 238570 02BEAVER	138 2	238569 02BEAVER	238570	02BEAVER	2	345/138	202 ATSI	583	741	Base Case	0	82.9		14.21	0	0.08%	0.08%	-0.02%
1763 250050 08KMPER1	138 250051 08KMPER2	138 Z1	250050 08KMPER1	250051	08KMPER2	Z1	138	212 DEO&K	406	454	Base Case	0	57.7	-	14.21	0	0.01%	0.01%	-0.02%
1764 250066 08MLHSR1	138 250067 08MLHSR2	138 Z1	250066 08MLHSR1	250067	08MLHSR2	Z1	138	212 DEO&K	394	394	Base Case	0	-55.9	-	14.2	0	0.02%	0.02%	-0.01%
1765 242662 05HALES2	138 242702 05LEFTFK	138 1	242662 05HALES2	242702	05LEFTFK	1	. 138	205 AEP	251	335	Base Case	0	35.5	-	14.16	0	0.02%	0.02%	0.03%
1766 243502 05E.BROAD	138 243581 05TAYLOR	138 1	243502 05E.BROAD	243581	05TAYLOR	1	138	205 AEP	240	309	Base Case	0	-34	-	14.15	0	0.03%	0.03%	0.00%
1767 242511 05BROADF	765 242514 05J.FERR	765 1	242511 05BROADF	242514	05J.FERR	1	. 765	205 AEP	4047	4142	Base Case	0	572.4	-	14.14	0	-3.30%	-3.30%	-8.48%
1768 235350 01IVYDAL	138 247793 05LINDEN RD	138 1	235350 01IVYDAL	247793	05LINDEN RD	1	138	201/205 AP/AEP	164	206	Base Case	0	-23.2	-	14.14	0	-0.04%	-0.04%	-0.11%
1769 243455 05CONES	345 243488 05CONESVILLE	138 7	243455 05CONES	243488	05CONESVILLE	7	345/138	205 AEP	823	948	Base Case	0	116.4		14.14	0	-0.07%	-0.07%	0.04%
1770 247105 05VARNER	345 247106 05VARNER	138 2	247105 05VARNER	247106	05VARNER	2	345/138	205 AEP	672	672	Base Case	0	95	-	14.14	0	-0.07%	-0.07%	0.00%
1771 247105 05VARNER	345 247106 05VARNER	138 1	247105 05VABNEB	247106	05VARNER	1	345/138	205 AEP	672	672	Base Case	0	95	-	14 14	0	-0.07%	-0.07%	0.00%
1772 200599 26ERTE W	345 238547 02AT	345 1	200599 26ERTE W	238547	0227	1	345	226/202 PENELEC/ATSI	1560	1900	Base Case	0	220 4	-	14 13	0	3 94%	3 94%	-0.60%
1773 238799 02HK0-22	138 239614 02BATH	138 1	238799 02480-22	239614	02BATH	1	138	202 ATST	196	242	Base Case	0	=27.6	-	14 09	0	-0.03%	-0.03%	0.09%
1774 239651 02DANA	130 230263 020THINE	130 1	239651 02DANA	230263	02DATH 02CTTHE	1	130	202 ATST	200	252	Base Case	0	-40.6		14.09	0	0.00%	0.00%	0.03%
1775 250122 09NI DED1	130 259205 0251LURE	120 1	250031 02DANA	259205	0251LUKE	1	120	202 AISI 212 DEOKK	200	201	Base Case	0	-40.0		14.09	0	0.00%	0.00%	0.01%
1775 230132 08WLDERI	138 230134 0810RK	138 1	230132 08WLDERI	250134	OBIORK	1	138	212 DEO&K	291	291	Base Case	0	-40.9	_	14.07	0	-0.01%	-0.01%	0.00%
1776 238640 02CRISS	138 238861 UZKIRBY	138 1	238640 02CRISS	238861	OZKIRBY		138	202 ATS1	152	179	Base Case	0	-21.3	-	14.04	0	-0.10%	-0.10%	0.08%
1777 243673 USBEEFH1	138 243685 05DORTON	138 1	243673 05BEEFH1	243685	05DORTON	1	. 138	205 AEP	221	278	Base Case	0	-31	-	14.03	0	0.01%	0.01%	0.01%
1778 238569 02BEAVER	345 238570 02BEAVER	138 1	238569 02BEAVER	238570	02BEAVER	1	345/138	202 ATSI	583	741	Base Case	0	81.6		14	0	0.07%	0.07%	-0.02%
1779 253031 09HALTER	138 253072 09SPRING	138 1	253031 09HALTER	253072	09SPRING	1	138	209 DAY	196	241	Base Case	0	27.4	-	14	0	-0.05%	-0.05%	0.01%
1/80 242742 05PADFOR	138 247290 05HARMON	138 1	242742 05PADFOR	247290	05HARMON	1	138	205 AEP	219	223	Base Case	0	30.7	-	14	0	0.07%	0.07%	-0.12%
1781 243218 05DESOTO	345 243233 05TANNER	345 1	243218 05DESOTO	243233	05TANNER	1	. 345	205 AEP	897	897	Base Case	0	-125.3	-	13.97	0	0.16%	0.16%	0.22%
1782 238998 02NEVADA	138 239093 02SAMMIS	138 1	238998 02NEVADA	239093	02SAMMIS	1	138	202 ATSI	265	316	Base Case	0	-37	-	13.95	0	-0.01%	-0.01%	0.04%
1783 238708 02EVRGRN	138 239008 02NILES	138 1	238708 02EVRGRN	239008	02NILES	1	138	202 ATSI	240	310	Base Case	0	33.5	-	13.95	0	-0.08%	-0.08%	-0.01%
1784 243024 05HOWARD	138 243117 05SULFRS	138 1	243024 05HOWARD	243117	05SULFRS	1	138	205 AEP	205	205	Base Case	0	28.4	-	13.88	0	0.03%	0.03%	0.01%
1785 243244 05ANTHY	138 243245 05ANTHYZ	138 1	243244 05ANTHY	243245	05ANTHYZ	1	. 138	205 AEP	164	180	Base Case	0	-22.8	-	13.87	0	0.00%	0.00%	0.00%
1786 243485 05CLINTO	138 243528 05KARL ROAD	138 1	243485 05CLINTO	243528	05KARL ROAD	1	. 138	205 AEP	145	145	Base Case	0	-20.1	-	13.83	0	0.06%	0.06%	0.01%
1787 238904 02LMQ-11	138 238932 02LYDQ11	138 1	238904 02LMQ-11	238932	02LYDQ11	1	138	202 ATSI	324	395	Base Case	0	44.8	-	13.82	0	0.16%	0.16%	-0.05%
1788 242704 05LOGAN1	138 242779 05RUMCKZ	138 1	242704 05LOGAN1	242779	05RUMCKZ	1	138	205 AEP	334	421	Base Case	0	-46.1	-	13.81	0	0.12%	0.12%	0.30%
1789 238735 02FOXQ14	138 240259 02FUQ-14	138 1	238735 02F0XQ14	240259	02FUQ-14	1	. 138	202 ATSI	347	423	Base Case	0	47.8		13.79	0	0.15%	0.15%	0.02%
1790 238809 02HMLQ14	138 240259 02FUQ-14	138 1	238809 02HMLQ14	240259	02FUQ-14	1	138	202 ATSI	347	423	Base Case	0	-47.8	-	13.79	0	0.15%	0.15%	0.02%
1791 244198 05LEMASTER	138 247067 05GOODHP	138 1	244198 05LEMASTER	247067	05GOODHP	1	138	205 AEP	196	247	Base Case	0	27	-	13.76	0	0.04%	0.04%	0.05%
1792 243274 05DEER CRK1	138 243343 05MISSIS	138 1	243274 05DEER CRK1	243343	05MISSIS	1	138	205 AEP	187	240	Base Case	0	25.7	-	13.75	0	-0.05%	-0.05%	-0.04%
1793 238502 02BRIM	138 238962 02MIDWAY	138 1	238502 02BRIM	238962	02MIDWAY	1	138	202 ATSI	164	170	Base Case	0	-22.5	-	13.74	0	-0.04%	-0.04%	0.00%
1794 243133 05VALLEY GRV	138 246927 05SAND H	138 2	243133 OSVALLEY GRV	246927	05SAND H	5	138	205 AEP	205	205	Base Case	0	28.1		13.72	n	0.15%	0.15%	-0.10%
1795 238642 02CBSLND	138 239199 02WN-STT	138 1	238642 02CBSLND	239199	02WN-STL	1	138	202 ATST	160	192	Base Case	0	21 9		13.72	0	-0.07%	-0.07%	0.01%
1796 243672 05BECKHA	138 243703 05TOPMOS	138 1	243672 058ECKHA	243703	05TOPMOS	1	130	205 AEP	158	183	Base Case	0	-21 7		13 71	0	0.09%	0.09%	0.05%
1797 243310 05HODGIN	138 243362 05PANDOL	138 1	243310 05#00ctN	243360	05RANDOT	1	130	205 AEP	210	247	Base Case	0	30		12 71	0	0.02%	0.02%	0.04%
1798 247003 0500000	138 247165 05001MCC	138 1	247003 0500000	243302	05cptimee	1	120	205 AEP	215	247	Base Case	0	-20		12 7	0	0.02/0	0.02%	0.00%
1790 239679 00505HSS	130 24/103 USSKUNSS	100 1	24/003 03GUSHSS	24/105	0JOKUNSS		138	200 AEP	107	200	Dase Case	0	-30		12.0	0	0.00%	0.00%	0.00%
1900 242200 05 UZEARKON	130 238/3/ UZGLEKST	100 57	2300/8 UZEAKKUN	238/5/	OZGLCKST		138	202 ATS1	120	191	Dase case	0	23.6		13.09	0	0.05%	0.05%	-0.05%
1000 243308 05HICKRY CK1	138 246060 05HICKRY CK2	138 ZL	243308 05HICKRY CK1	246060	USHICKRY CK2	ZL	138	205 AEP	173	173	Base Case	0	23.7	-	13.68	0	0.06%	0.06%	0.02%

			A		B C	D	E	F	G	Н	1	Ĵ	К	L	М	N	0	Р	Q	R	S	Т	U
1801	238640 02CRISS	138 23	38969 02MRGP +	138 1	238640 02CRISS	238969	02MRGP +	1	138	3 202	ATSI	259	308 Bas	se Case	0	35.4		13.68	0	-0.10%	-0.10%	0.11%	
1802	243219 05DUMONT	345 24	43234 05TWIN B	345 2	243219 05DUMONT	243234	05TWIN B	2	345	5 205	AEP	1409	1409 Bas	se Case	0	192.4	-	13.66	0	-0.38%	-0.38%	-0.05%	
1803	243219 05DUMONT	345 24	43234 05TWIN B	345 1	243219 05DUMONT	243234	05TWIN B	1	345	5 205	AEP	1409	1409 Bas	se Case	0	192.4	-	13.66	0	-0.38%	-0.38%	-0.05%	
1804	238942 02MAPLE	138 23	39180 02ZELI-M	138 1	238942 02MAPLE	239180	02ZELI-M	1	138	3 202	ATSI	308	376 Bas	se Case	0	42	-	13.65	0	-0.68%	-0.68%	0.05%	
1805	243056 05NEWCOM	138 24	43094 05SCOSHC	138 1	243056 05NEWCOM	243094	05SCOSHC	1	138	3 205	AEP	150	173 Bas	e Case	0	-20.5	-	13.65	0	-0.35%	-0.35%	0.01%	
1806	243273 05DARDEN	138 24	43359 05PINERD	138 1	243273 05DARDEN	243359	05PINERD	1	138	205	AEP	167	167 Bas	e Case	0	-22.8	-	13 63	0	-0.10%	-0.10%	-0.06%	
1807	243014 05GBBLOP	138 24	47108 05SOWERS	138 1	243014 05GBBLOP	247108	05SOWERS	1	138	3 205	AEP	223	310 Bas	e Case	0	30.4	-	13 62	0	-0.08%	-0.08%	0.03%	
1808	243064 050RBL01	130 27	45615 058 DOINT2	130 1	243014 050RBL01	247100	058 DOINT2	1	120	205	AED	240	251 Bas	case	0	20.7		12 62	0	0.05%	0.05%	0.03%	
1000	245004 05NFROCT	100 25	45015 055.F01N12	130 1	245004 05NFROCT	243013	033.FOINIZ	1	100	203	ADE	240	201 Das	case	0	22.7		13.02	0	0.03%	0.03%	0.04%	
1005	244560 OFTCADELLA	120 20	ACOO OENEWADYC DD	130 1	244560 05100PELLA	239730	OENEWARKC PD	1	120	202	ALD	124	124 Das	case	0	16.0	_	12 61	0	0.23%	0.23%	0.04%	
1010	2343500 USISABELLA	245 24	40300 USNEWARKC_BP	245 1	239745 02CN TON	240300	OSNEWARKC BF	1	246	203	ALF	1000	124 Bas	e Case	0	10.9		13.61	0	0.03%	0.03%	0.04%	
1011	238745 02GALION	345 24	42941 050H10C1	345 I	238745 02GALION	242941	OSUHIOCI	1	343	202/203	AISI/AEP	1220	1330 Bas	se case	0	-100.9	-	13.59	0	0.27%	0.27%	0.03%	
1012	253050 09MONUM2	138 23	53096 09WIAND2	138 1	253050 09MON0M2	253096	09WYANDZ	1	138	209	DAY	195	195 Bas	se case	0	26.5	-	13.58	0	0.00%	0.00%	0.00%	
1013	238727 02WLBCT+	138 23	10001 OFWIGEN	138 1	238727 02WLBCT+	239162	OZWALBRD	1	138	202	ATSI	163	163 Bas	se case	0	22.1	-	13.57	0	0.00%	0.00%	0.00%	
1014	242638 USFIELDALEI	138 24	42831 USTHORNT	138 1	242638 USFIELDALEI	242831	05THORNT	1	138	3 205	AEP	150	204 Bas	se Case	0	20.4	-	13.57	0	-0.04%	-0.04%	0.19%	
1815	244142 05MARQUETTE	138 24	47489 05BOSSERMAN	138 1	244142 05MARQUETTE	247489	05BOSSERMAN	1	138	3 205	AEP	251	335 Bas	se Case	0	34	-	13.57	0	0.08%	0.08%	0.05%	
1816	243483 05CRCLVS	138 24	43522 05HARRISON	138 2	243483 05CRCLVS	243522	05HARRISON	2	138	3 205	AEP	323	451 Bas	se Case	0	43.8	-	13.56	0	-0.02%	-0.02%	0.08%	
1817	243215 05COOK	345 24	47803 05SEGRETO	345 1	243215 05COOK	247803	05SEGRETO	1	345	5 205	AEP	1409	1868 Bas	se Case	0	-191	-	13.56	0	0.50%	0.50%	-0.02%	
1818	243483 05CRCLVS	138 24	43522 05HARRISON	138 1	243483 05CRCLVS	243522	05HARRISON	1	138	3 205	AEP	323	451 Bas	se Case	0	43.8	-	13.56	0	-0.02%	-0.02%	0.08%	
1819	250011 08DERPK1	138 25	50012 08DERPK2	138 Z1	250011 08DERPK1	250012	08DERPK2	Z1	138	3 212	DEO&K	406	454 Bas	se Case	0	-55	-	13.55	0	0.00%	0.00%	0.00%	
1820	245964 05N.NEWARK2	138 24	46308 05NEWARKC_BP	138 1	245964 05N.NEWARK2	246308	05NEWARKC_BP	1	138	205	AEP	124	124 Bas	se Case	0	-16.8	-	13.54	0	0.03%	0.03%	0.04%	
1821	238913 02LRCRQ2	138 23	39113 02SP Q-2	138 1	238913 02LRCRQ2	239113	02SP Q-2	1	138	3 202	ATSI	148	151 Bas	se Case	0	20	-	13.54	0	-0.18%	-0.19%	0.04%	
1822	238906 02LNGVEW	138 23	38938 O2MADISN	138 1	238906 02LNGVEW	238938	02MADISN	1	138	3 202	ATSI	160	192 Bas	se Case	0	-21.6	-	13.53	0	0.11%	0.11%	-0.04%	
1823	242628 05E.LYNN	138 24	47243 05SHERID	138 1	242628 05E.LYNN	247243	05SHERID	1	138	3 205	AEP	296	378 Bas	se Case	0	40	-	13.53	0	-0.05%	-0.05%	-0.14%	
1824	242623 05DAWES	138 24	47064 05KANAWHA2	138 1	242623 05DAWES	247064	05KANAWHA2	1	138	3 205	AEP	223	223 Bas	se Case	0	-30.1	-	13.5	0	0.03%	0.03%	-0.15%	
1825	247034 05EMERSS	138 24	47508 05SARDINIA	138 1	247034 05EMERSS	247508	05SARDINIA	1	138	3 205	AEP	151	185 Bas	se Case	0	-20.3	-	13.47	0	-0.06%	-0.06%	0.01%	
1826	243309 05HILLCR	138 24	43390 05WAYNED	138 1	243309 05HILLCR	243390	05WAYNED	1	138	3 205	AEP	219	251 Bas	se Case	0	-29.4	-	13.44	0	-0.07%	-0.07%	-0.01%	
1827	243533 05LAYMAN	138 24	47319 05WOLFCK	138 1	243533 05LAYMAN	247319	05WOLFCK	1	138	3 205	AEP	205	255 Bas	se Case	0	-27.6	-	13.44	0	-0.43%	-0.43%	-0.23%	
1828	238745 02GALION	345 24	42942 05SBERWI	345 1	238745 02GALION	242942	05SBERWI	1	345	5 202/205	ATSI/AEP	1228	1409 Bas	se Case	0	-164.8	-	13.42	0	-0.70%	-0.70%	-0.74%	
1829	243311 05ARN HOGAN	138 24	45803 05DELAWR2	138 1	243311 05ARN HOGAN	245803	05DELAWR2	1	138	3 205	AEP	205	247 Bas	se Case	0	27.4	-	13.36	0	-0.03%	-0.03%	0.04%	
1830	243272 05DALEVI	138 24	45946 05MADISON2	138 1	243272 05DALEVI	245946	05MADISON2	1	138	3 205	AEP	187	233 Bas	se Case	0	-24.9		13.34	0	-0.02%	-0.02%	0.04%	
1831	238673 02E IND	138 23	39079 02S EAST	138 1	238673 02E IND	239079	02S EAST	1	138	3 202	ATSI	194	237 Bas	se Case	0	-25.9	-	13.34	0	0.07%	0.07%	0.00%	
1832	238586 02BRKSID	138 23	39216 02TROY	138 1	238586 02BRKSID	239216	02TROY	1	138	3 202	ATSI	147	179 Bas	se Case	0	-19.6	-	13.33	0	0.08%	0.08%	-0.11%	
1833	238815 02IKQ-15	138 23	38841 02JNPRQ2	138 1	238815 02IKQ-15	238841	02JNPRQ2	1	138	3 202	ATSI	223	286 Bas	se Case	0	-29.7	-	13.32	0	0.01%	0.01%	-0.01%	
1834	243029 05LCKWRD	138 24	43086 05S HICK	138 1	243029 05LCKWRD	243086	05S HICK	1	138	3 205	AEP	223	310 Bas	se Case	0	-29.7	-	13.31	0	-0.21%	-0.21%	0.07%	
1835	253049 09MONUM1	138 25	53095 09WYAND1	138 1	253049 09MONUM1	253095	09WYAND1	1	138	3 209	DAY	195	195 Bas	se Case	0	25.9	-	13.29	0	0.00%	0.00%	0.00%	
1836	243686 05EXCELT	138 24	43694 05INEZ	138 1	243686 05EXCELT	243694	05INEZ	1	138	3 205	AEP	548	601 Bas	se Case	0	-72.8	-	13.29	0	0.00%	0.00%	-0.14%	
1837	238651 02DANA	138 23	38786 02HAWTHO	138 1	238651 02DANA	238786	02HAWTHO	1	138	3 202	ATSI	288	353 Bas	se Case	0	38.2		13.28	0	0.00%	0.00%	0.01%	
1838	247712 05SULLIVAN	345 25	54529 16PETE	345 1	247712 05SULLIVAN	254529	16PETE	1	345	5 205/216	AEP/IPL	1409	1409 Bas	se Case	0	-186.8		13.26	0	0.32%	0.32%	0.43%	
1839	242760 05PROGPK	138 24	47850 05TOWN CREEK	138 1	242760 05PROGPK	247850	05TOWN CREEK	1	138	3 205	AEP	296	413 Bas	se Case	0	39.2	-	13.25	0	0.04%	0.04%	0.19%	
1840	243286 05EDISON2	138 24	44119 05GRAVEL PIT	138 1	243286 05EDISON2	244119	05GRAVEL PIT	1	138	205	AEP	158	183 Bas	se Case	0	20.9	-	13.23	0	-0.08%	-0.08%	-0.05%	
1841	239728 02BLKRVR	138 24	41932 02AMH.MUN2	138 1	239728 02BLKRVR	241932	02AMH.MUN2	1	138	3 202	ATSI	498	573 Bas	se Case	0	-65.8	-	13.21	0	-0.28%	-0.28%	-0.02%	
1842	250075 08MTGRY1	138 25	50076 08MTGRY2	138 Z1	250075 08MTGRY1	250076	08MTGRY2	Z1	138	3 212	DEO&K	406	454 Bas	se Case	0	53.6	-	13.2	0	-0.01%	-0.01%	-0.03%	
1843	243066 05NW LIM	138 24	43157 05WOODLA	138 1	243066 05NW LIM	243157	05WOODLA	1	138	3 205	AEP	205	205 Bas	e Case	0	27	-	13.19	0	0.01%	0.01%	-0.06%	
1844	243510 05GAHANN	138 24	43523 05HCREAN	138 1	243510 05GAHANN	243523	05HCREAN	1	138	3 205	AEP	150	212 Bas	e Case	0	19.8	-	13.19	0	0.05%	0.05%	0.01%	
1845	237081 AA2-121 TAP	345 24	42946 05TIDD	345 1	237081 AA2-121 TAP	242946	05TIDD	1	345	5 201/205	AP/AEP	1409	1409 Bas	se Case	0	185.6		13.17	0	3.06%	3.06%	-0.23%	
1846	243578 05STRODZ	138 24	44230 05SUNDAY SS	138 1	243578 05STRODZ	244230	05SUNDAY SS	1	138	205	AEP	259	325 Bas	se Case	ů.	34.1		13.16	0	-0.14%	-0.14%	0.15%	
1847	243485 05CLINTO	138 24	43487 05CHK TAP 7	138 1	243485 05CLINTO	243487	05CHK TAP 7	1	138	205	AEP	195	220 Bas	e Case	0	-25.6	_	13.14	0	0.07%	0.07%	0.01%	
1848	243284 05DUPONT	138 24	46172 05DUPONT 8	138 21	243284 05DUPONT	246172	05DUPONT 8	71	138	205	AEP	167	245 Bas	e Case	0	21.9	-	13.14	0	0.00%	0.00%	0.00%	
1849	242640 05FLOYD	138 24	42750 05PHTLPOTT 7	138 1	242640 05FLOYD	242750	05PHILPOTT 7	1	130	205	AEP	205	280 Bas	se Case	n	-26.9	-	13.13	0	0.05%	0.05%	0.52%	
1850	243057 05NEW LIBP1	138 24	47893 05FLAG CTTV	138 1	243057 05NEW LTBR1	247893	05FLAG CITY	1	130	3 205	AEP	150	212 Rae	e Case	0	-19 7	_	13.13	0	0.08%	0.08%	-0.06%	
1851	235198 OIKEISTR	138 23	39350 02CAMPBL	138 1	235198 01KEISTR	239350	02CAMPBL	1	130	201/202	AP/ATST	278	339 Bae	e Case	0	36.4	_	13 1	0	0.74%	0.74%	0.00%	
1857	238500 02ALLEN-1	138 23	38532 02ALT.N.TR	138 7B	238500 02ALLEN-1	232530	02ALLN.TR	ZB	130	201/202	ATST	563	563 Bas	e Case	0	73 6	-	13 08	0	-0.06%	-0.06%	0.01%	
1857	238693 02ELM	138 23	39031 02PACKRD	138 1	238693 02ELM	2390332	02PACKRD	1	130	202	ATST	157	196 Bae	e Case	0	-20.5	22	13.07	0	-0.02%	-0.02%	0.00%	
1854	239354 02HARMON	138 2/	47460 05NOTTINCH?4	138 1	239354 02HARMON	247460	05NOTTINCH 24	1	100	202	ATST/AFD	273	332 Bas	e Case	0	-35 6	_	13.04	0	-0.02%	-0.04%	0.04%	
1855	238733 02FOV012	138 23	39033 020011100034	138 1	238733 02F0V012	230033	0200011100034	1	100	202/203	ATGT/ADF	273	131 Das	Case	0	46 3	_	13.04	0	0.04%	0.04%	0.04%	
1856	250025 08FLDMN1	130 23	50026 OPET DMN2	139 71	250/25 08ELDMN1	250026	0.9 FT DMN2	71	100	202	DEOCK	300	454 Pas	Case	0	52 0		13.03	0	0.05%	0.05%	0.00%	-
1857	242526 OSVANAMO	3/5 22	A2527 OSM FILME	345 1	242526 05KANAMZ	210527	05H FINE	1 1	240	212	AFD	1120	1122 D	e Case	0	147 4	-	12.03	0	-0.60%	-0.60%	-2 3/10/	
1850	232666 02ETMODJ	120 23	22005 021NC DK	120 1	239696 02ETWOD4	2320005	OOT TONK	1	100	203	лет	155	155 Pag	c Case	0	20.0		12.03	0	0.03%	0.03%	-2.34%	
1050	230090 UZELWUD+	130 23	ABOOD OFMANNION	130 I	242221 051 TNW00	230903	05MAKAUOV	1	130	202	ALOL	107	240 Dc -	o Case	0	20.2		12.01	0	0.02%	0.02%	0.05%	
1005	2433331 USLINWUU	245 24	49005 OCTVOID	130 L	243331 UJLINWUU	243920	OSPARAHUI	1	138	205	ALF AFR	187	240 Bas	e case	0	-125 0	-	12.90	0	0.02%	0.02%	0.00%	
1900	242938 USMARQUI	345 24	48005 UGKIGER	343 I	Z4Z938 USMARQUI	248005	UGRIGER	1	345	205/206	AEP/OVEC	971	9/1 Bas	se case	0	-125.8	-	12.95	0	0.34%	0.34%	0.07%	

	А		B C	D	E	F	G	н і	J	K	L	М	N	0	Р	Q	R	S	T U
1861 250018 08EMWOD1	138 250019 08EMWOD6	138 Z1	250018 08EMWOD1	250019	08EMWOD6	Z1	138	212 DE0&K	273	287	Base Case	0	35.4	-	12.95	0	0.02%	0.02%	0.01%
1862 242656 05GRASSH	138 242736 050AKLEV	138 1	242656 05GBASSH	242736	050AKLEV	1	138	205 AEP	219	223	Base Case	0	-28.3	-	12.94	0	-0.05%	-0.05%	0.40%
1863 242965 05BRIDGEVILZ	138 242983 05CHANDLERV7	138 1	242965 0588TDCEVTL7	242983	05CHANDLERVZ	1	138	205 AFP	335	482	Base Case	0	-43.3	_	12.94	0	-0.47%	-0.47%	0.10%
1964 242905 05BRIDGEVINZ	130 242905 05CHANDLERV2	120 1	242905 05BRIDGEVIL2	242905	05CHANDEERV2	1	130	205 AEL	107	240	Dase Case	0	24.2		12.04	0	0.01%	0.4776	0.06%
1965 245522 05HOT LOWAY24	138 243310 USROCKHILL2	130 1	242555 05EASTOW	243310	05ROCKHIBB2	1	100	205 AEF	107	240	Base Case	0	-24.2	-	12.94	0	0.01%	0.01%	-0.0076
1865 245555 05HOLLOWAI54	130 247840 05DILESBIMZI	100 1	245555 05HOLLOWAI54	247040	05DILESBIMZI	1	100	205 AEP	400	001	Base Case	0	-00.3		12.95	0	-0.10%	-0.10%	0.18%
1866 243242 05ALLEN	138 247864 05LOGTOWN	138 1	243242 USALLEN	24/864	05LOGTOWN	1	138	205 AEP	281	281	Base Case	0	36.3	-	12.9	0	-0.14%	-0.14%	-0.05%
1867 242801 05SKEGGS BRZ	138 246828 05SKEGGS BR	138 Z1	242801 05SKEGGS BRZ	246828	05SKEGGS BR	Z1	138	205 AEP	158	167	Base Case	0	20.3	-	12.87	0	0.00%	0.00%	0.00%
1868 242743 05PARKHI	138 242842 05W HUNT	138 1	242743 05PARKHI	242842	05W HUNT	1	138	205 AEP	146	167	Base Case	0	-18.8	-	12.86	0	-0.06%	-0.06%	-0.02%
1869 243532 05KIRK	138 247767 05HAZELTON	138 1	243532 05KIRK	247767	05HAZELTON	1	138	205 AEP	564	747	Base Case	0	72.4	-	12.84	0	0.00%	0.00%	0.00%
1870 246887 05RAMEY	138 247652 05HOODSCRK	138 1	246887 05RAMEY	247652	05HOODSCRK	1	138	205 AEP	251	335	Base Case	0	32.2	-	12.83	0	0.00%	0.00%	-0.01%
1871 238658 02DECANT	138 239030 020TTAWA	138 1	238658 02DECANT	239030	020TTAWA	1	138	202 ATSI	242	296	Base Case	0	31	-	12.79	0	-0.17%	-0.17%	-0.03%
1872 249578 08HILCRT	345 250136 08HILCRT	138 1	249578 08HILCRT	250136	08HILCRT	1	345/138	212 DEO&K	480	501	Base Case	0	61.3	-	12.77	0	0.04%	0.04%	0.03%
1873 243354 050NTWA8	138 243355 050NTWA8 SS	138 1	243354 050NTWA8	243355	050NTWA8 SS	1	138	205 AEP	185	185	Base Case	0	-23.6	-	12.76	0	0.00%	0.00%	0.00%
1874 242530 05EDANV1	230 304024 6R0XSEP230 T	230 1	242530 05EDANV1	304024	6ROXSEP230 T	1	230	205/340 AEP/CPLE	621	771	Base Case	0	-79.2	-	12.75	0	0.30%	0.30%	3.39%
1875 235418 01WASHMP	138 243490 05CORNER	138 1	235418 01WASHMP	243490	05COBNER	1	138	201/205 AP/AEP	282	332	Base Case	0	-35 9	_	12.75	0	-0.13%	-0.13%	-0.10%
1876 220075 02DOCEME	139 230161 02WAKBON	120 1	239075 02BOSEME	220161	0.2WAKDON	1	120	201/203 //////	202	202	Base Case	0	20.7		12.75	0	-0.04%	-0.04%	0.04%
1977 239500 007075V	130 239101 02WARKON	130 1	239075 02R03EM1	239101	02WARKON	1	100	202 ATSI	235	202	Base Case	0	29.7		10.79	0	-0.04%	-0.04%	0.04%
1077 238509 UZEREI	130 239310 UZBPHUSKY	138 L	2303U9 U2FKEI	239310	02BPHUSKI		138	202 ATS1	241	292	Dase Case	0	-30.7	-	12.72	0	-0.03%	-0.03%	-0.04%
1070 242635 USELKGAR	130 240/00 USELKGAZ	138 1	242635 USELKGAR	246/66	USELKGAZ	1	138	ZUS AEP	145	145	Base Case	0	-18.4	.=	12.7	0	0.00%	0.00%	0.00%
18/9 247319 05WOLFCK	138 247370 05MUSKNG1A	138 1	24/319 05WOLFCK	247370	U5MUSKNG1A	1	138	205 AEP	323	437	Base Case	0	-41	-	12.7	0	-0.43%	-0.43%	-0.23%
1880 246327 05NOTTINGH78	138 247461 05FREEBYRD	138 1	246327 05NOTTINGH78	247461	05FREEBYRD	1	138	205 AEP	296	413	Base Case	0	37.6	-	12.7	0	-0.21%	-0.21%	0.03%
1881 239106 02SHNAGO	345 239303 02NILES	345 1	239106 02SHNAGO	239303	02NILES	1	345	202 ATSI	1542	1878	Base Case	0	195.8	-	12.7	0	0.72%	0.72%	-0.14%
1882 238817 02IKQ-18	138 240351 02IV-NB+18	138 1	238817 02IKQ-18	240351	02IV-NB+18	1	138	202 ATSI	273	332	Base Case	0	34.6	-	12.69	0	-0.04%	-0.04%	0.02%
1883 238762 02GR Q-3	138 239051 02PV Q3	138 1	238762 02GR Q-3	239051	02PV Q3	1	138	202 ATSI	267	332	Base Case	0	-33.9	-	12.68	0	0.18%	0.18%	0.01%
1884 235336 01GOFFRN	138 247793 05LINDEN RD	138 1	235336 01GOFFRN	247793	05LINDEN RD	1	138	201/205 AP/AEP	169	213	Base Case	0	-21.4	-	12.68	0	-0.26%	-0.26%	0.16%
1885 242585 05CAVE SPR1Z	138 245723 05CAVE SPR	138 Z1	242585 05CAVE SPR1Z	245723	05CAVE SPR	Z1	138	205 AEP	164	180	Base Case	0	20.8	-	12.67	0	0.00%	0.00%	0.00%
1886 238825 02IVANHO	138 239031 02PACKRD	138 1	238825 02IVANHO	239031	02PACKRD	1	138	202 ATSI	200	242	Base Case	0	25.3	-	12.66	0	-0.02%	-0.02%	0.00%
1887 238989 02NB 017	138 240350 02TV-NB+17	138 ZT.	238989 02NB 017	240350	02TV-NB+17	ZT.	138	202 ATST	164	206	Base Case	0	-20.8	-	12.66	0	0.00%	0.00%	0.00%
1888 243242 05ALLEN	138 245832 05LINCOLN2	138 1	243242 05ALLEN	245832	051 TNCOT N2	1	138	205 359	203	200	Base Case	0	37 1	_	12.65	0	0.05%	0.05%	0.03%
1990 238818 027TO 11	130 230040 03DU 01	100 1	239818 03710 11	230040	03DINCOLNZ	1	130	203 AMOT	200	200	Dase Case	0	20 4	000	12.05	0	0.05%	0.05%	0.03%
1009 238818 02110-11	138 239049 02PV Q1	130 1	238818 02112-11	239049	OZPV QI	1	130	202 AISI	225	295	Base Case	0	-20.4		12.04	0	-0.00%	-0.00%	0.02%
1890 242827 USTAZEWE	138 247150 05FARADAY	138 1	242827 USTAZEWE	24/150	USFARADAY	1	138	205 AEP	296	400	Base Case	U	37.2	-	12.57	0	-0.03%	-0.03%	0.04%
1891 239025 02NY Q11	138 239053 02PVMQ15	138 1	239025 02NY Q11	239053	02PVMQ15	1	138	202 ATS1	273	332	Base Case	0	34.3	-	12.56	0	0.08%	0.08%	-0.02%
1892 239018 02FULTON	345 239370 02DOWLING	345 1	239018 02FULTON	239370	02DOWLING	1	345	202 ATSI	1222	1385	Base Case	0	-153.3	-	12.55	0	0.39%	0.39%	0.09%
1893 238917 02STACY	138 239097 02SBRNQ3	138 1	238917 02STACY	239097	02SBRNQ3	1	138	202 ATSI	148	151	Base Case	0	-18.6	-	12.54	0	0.09%	0.09%	-0.02%
1894 238508 02EBER	138 239169 02WENTWT	138 1	238508 02EBER	239169	02WENTWT	1	138	202 ATSI	278	343	Base Case	0	34.8	-	12.52	0	-0.04%	-0.04%	0.01%
1895 238889 02LEMOYN	345 238961 02MIDWAY	345 1	238889 02LEMOYN	238961	02MIDWAY	1	345	202 ATSI	1380	1646	Base Case	0	172.8	-	12.52	0	0.40%	0.40%	0.10%
1896 238734 02F0XQ13	138 240258 02FUQ-13	138 1	238734 02F0XQ13	240258	02FUQ-13	1	138	202 ATSI	425	522	Base Case	0	53.1	-	12.5	0	0.10%	0.10%	0.01%
1897 242605 05CLNCHR	138 242615 05COPPER	138 1	242605 05CLNCHR	242615	05COPPER	1	138	205 AEP	219	223	Base Case	0	27.4	-	12.5	0	-0.02%	-0.02%	-0.20%
1898 239063 02REYNOD	138 239146 02UTTP1	138 1	239063 02REYNOD	239146	02UTTP1	1	138	202 ATSI	308	376	Base Case	0	38.5	-	12.49	0	-0.06%	-0.06%	0.01%
1899 253026 09GREENE	138 253107 09ALPHA	138 1	253026 09GREENE	253107	09ALPHA	1	138	209 DAY	301	374	Base Case	0	-37.6	-	12.48	0	-0.10%	-0.10%	-0.03%
1900 239057 02LBCB04	138 239115 02SP 0-4	138 1	239057 02LBCB04	239115	02SP 0-4	1	138	202 ATST	148	151	Base Case	0	18.5	-	12.47	0	-0.19%	-0.19%	0.04%
1901 242980 05CANTNC	138 243097 05SECANT	138 1	242980 05CANTNC	243097	05SECANT	1	138	205 AFR	296	308	Base Case	0	-36.8	-	12 45	0	-0.13%	-0.13%	0.07%
1902 239033 02000012	138 240260 02CMC012	138 1	239033 02000012	240260	02GMC012	1	120	202 2021	250	131	Bago Caso	0			10 10	0	0.00%	0.00%	0.00%
1002 239055 02PDbQ12	120 230005 02GMCQ12	120 1	239033 02PDBQ12	240200	020PDNo1	1	100	202 ATOT	140	454	Dase Case	0	10 4		10 40	0	0.05%	0.05%	0.00%
1903 238342 UZASH I	130 533032 052225	130 1	230342 UZASH_1	239095	025BKNQ1	1	138	ZUZ ATSI	148	151	Dase Case	0	18.4	-	12.43	0	0.18%	0.18%	-0.05%
1904 243248 USBARODA	138 2432// U5DERBY	138 1	243248 USBARODA	243277	USDERBY	1	138	205 AEP	205	205	Base Case	0	-25.5	-	12.42	0	0.06%	0.06%	0.02%
1905 247373 05MUSKNG2A	138 247374 05MUSKNG2B	138 Z1	247373 05MUSKNG2A	247374	05MUSKNG2B	Z1	138	205 AEP	766	898	Base Case	0	95.1	-	12.42	0	-0.06%	-0.06%	0.11%
1906 239110 02SIL_AV+	138 239346 02SILICA+	138 1	239110 02SIL_AV+	239346	02SILICA+	1	138	202 ATSI	278	343	Base Case	0	34.5	-	12.41	0	0.00%	0.00%	0.00%
1907 239111 02SILICA	138 239346 02SILICA+	138 1	239111 02SILICA	239346	02SILICA+	1	138	202 ATSI	278	343	Base Case	0	-34.5	-	12.41	0	0.00%	0.00%	0.00%
1908 238743 02ER-DNB+Q11	138 240347 02FOWLESQ11	138 1	238743 02ER-DNB+Q11	240347	02FOWLESQ11	1	138	202 ATSI	176	229	Base Case	0	21.8	-	12.39	0	-0.19%	-0.19%	-0.02%
1909 238698 02ENQ-11	138 240347 02FOWLESQ11	138 1	238698 02ENQ-11	240347	02FOWLESQ11	1	138	202 ATSI	176	229	Base Case	0	-21.8	-	12.39	0	-0.19%	-0.19%	-0.02%
1910 242514 05J.FERR	765 242517 05WYOMIN	765 1	242514 05J.FERR	242517	05WYOMIN	1	765	205 AEP	4142	4142	Base Case	0	-512.5	-	12.37	0	-2.21%	-2.20%	-10.24%
1911 242715 05MERRIM	138 242839 05VICKER	138 1	242715 05MERRIM	242839	05VICKER	1	138	205 AEP	205	205	Base Case	0	-25.3	-	12.35	0	-0.04%	-0.04%	-0.02%
1912 242924 05HANG R	765 243208 05JEFRSO	765 1	242924 05HANG R	243208	05JEFRSO	1	765	205 AEP	4047	4571	Base Case	0	-500	-	12.35	0	-3.68%	-3.68%	-4.00%
1913 243466 05ASTOR	138 243467 05E BROAD3	138 1	243466 05ASTOR	243467	05E.BROAD3	1	138	205 AEP	209	209	Base Case	n	-25.8	-	12.34	n	0.03%	0.03%	-0.01%
1914 239026 02NV 012	138 239054 02DVM016	138 1	239026 0257 012	230054	02PVM016	1	130	202 2051	205	500	Base Care	0	34 3	_	12 33	0	0.08%	0.08%	-0.02%
1915 239151 02WIT CTT	130 230160 02FVMQT0	130 1	239151 02001 012	239034	0.2MENUM	1	100	202 ATOT	270	3/3	Page Case	0	31 3		12.00	0	0.00%	0.00%	-0.02%
1016 220054 0200001C	120 229109 UZWENIWI	120 1	239131 02V0LCIA	239109	02WENIWI	1	100	202 ATOT	218	243	Dase Case	0	24.3		12.32	0	0.04%	0.04%	0.02%
1017 040000 07 07 00 00 00 00 00 00 00 00 00 00	130 239331 UZNASHRING	138 1	239034 02PVMQ16	239331	UZNASHKING	1	138	202 ATSI	278	339	Base Case	0	34.2	-	12.31	0	0.08%	0.01%	-0.02%
1917 242820 05SUNDL1	138 24418/ 05STINK RUN	138 1	242820 05SUNDL1	244187	USSTINK RUN	+ 1	138	205 AEP	205	205	Base Case	0	25.2	-	12.29	0	0.01%	0.01%	0.02%
1918 243325 05LANTRN	138 245803 05DELAWR2	138 1	243325 05LANTRN	245803	U5DELAWR2	1	138	205 AEP	187	233	Base Case	0	-23	-	12.28	0	-0.01%	-0.01%	0.00%
1919 242786 05S.PRINCETN	138 246898 05HALLSR	138 1	242786 05S.PRINCETN	246898	05HALLSR	1	138	205 AEP	334	334	Base Case	0	41	-	12.28	0	-0.20%	-0.20%	-0.37%
1920 243385 05TWIN B	138 246066 05S.BEND2	138 1	243385 05TWIN B	246066	05S.BEND2	1	138	205 AEP	335	380	Base Case	0	41.1	-	12.27	0	0.16%	0.16%	0.11%

	А		B C	D	E	F	G	НІ	J	К	L.	М	N	0	Р	Q	R	S	T U
1921 243514 05RJF CORP Z	138 247804 05DEVOLA	138 1	243514 05RJF CORP Z	247804	05DEVOLA	1	138	205 AEP	282	282	Base Case	0	-34.6	-	12.26	0	-0.07%	-0.07%	-0.08%
1922 242572 05BURLHT	138 242584 05CATAWZ	138 1	242572 05BURLHT	242584	05CATAWZ	1	138	205 AEP	219	223	Base Case	0	26.8		12.24	0	0.11%	0.11%	0.29%
1923 242584 05CATAWZ	138 242852 05WSALEM	138 1	242584 05CATAWZ	242852	05WSALEM	1	138	205 AEP	219	223	Base Case	0	26.8	-	12.24	0	0.11%	0.11%	0.29%
1924 249567 08M.FORT	345 249576 08WODSDL	345 1	249567 08M.FORT	249576	08WODSDL	1	345	212 DEO&K	1509	1509	Base Case	0	184.6	-	12.23	0	-0.14%	-0.14%	-0.01%
1925 247822 050UTNWOOD	138 247824 05NUTALL	138 1	247822 050UINWOOD	247824	05NUTALL	1	138	205 AEP	316	444	Base Case	0	-38.5	-	12.17	0	-0.22%	-0.22%	0.12%
1926 243495 05DAVIDS	138 247873 05BRITTON	138 1	243495 05DAVIDS	247873	05BRITTON	1	138	205 AEP	283	369	Base Case	0	34 4	-	12 15	0	-0.02%	-0.02%	0.00%
1927 243214 05COLNEW	345 243231 05BOB PK	345 1	243214 05COLNGW	243231	05BOB PK	1	345	205 AEP	1409	1409	Base Case	0	-171 1	_	12.10	0	0.45%	0.45%	0.41%
1928 243584 05VINE	138 246094 05VINE X	138 77	243584 05VINE	246094	OSVINE Y	78	138	205 AEP	278	278	Base Case	0	-33 7	_	12.11	0	-0.05%	-0.05%	-0.03%
1929 239100 020EVITI	130 230239 03VINE_X	130 1	239100 020FVTTT	230230	02CEUM	1	120	200 ABT	270	200	Base Case	0	_20 2		12.11	0	0.11%	0.11%	0.04%
1920 247086 OEDEDUIT	115 214772 2DED UT	116 71	247086 050FDUIL	239230	2DED UTI	71	115	205/245 AED/DVD	200	202	Base Case	0	-20.2	_	12.1	0	0.11%	0.00%	0.04%
1921 229884 021 PMO K	129 220154 02W EDEM	120 1	2297000 031EMO K	220154	OOW FREM	1	120	203/343 AEF/DVF	150	100	Base Case	0	-10		12.07	0	0.00%	0.12%	0.00%
1022 242501 05CENTERD	130 239134 02W.FREM	120 1	230004 02LEMO K	239134	OEDEUCENC1	1	100	202 AISI	136	1.67	Base Case	0	16.4		12.00	0	0.12%	0.12%	-0.01%
1032 242591 05CENTRR	138 242765 USREUSENSI	130 1	242591 05CENTRR	242/03	OSREUSENSI	1	130	200 AEP	130	107	Base Case	0	-10.4	-	12.03	0	0.04%	0.04%	0.24%
1933 238597 02CADQ17	138 238599 021XQ-2	138 1	238597 02CADQ17	238599	021XQ-2	1	138	202 ATS1	273	332	Base Case	0	32.8	-	12.03	0	0.00%	0.00%	0.00%
1934 250024 08FINTWN	138 250064 08MHLTY2	138 1	250024 08F1NTWN	250064	USMHLTY2	1	138	212 DE0&K	266	266	Base Case	0	32	-	12.02	0	0.01%	0.01%	0.00%
1935 243390 05WAYNED	138 247829 USAVIATION	138 1	243390 05WAYNED	24/829	05AVIATION	1	138	205 AEP	323	451	Base Case	0	-38.8	-	12	0	-0.02%	-0.02%	0.01%
1936 239161 UZWAKRON	138 239617 02SOUREK	138 1	239161 02WAKRON	239617	OZSOUREK	1	138	202 ATS1	200	242	Base Case	0	-24	-	11.99	0	0.08%	0.08%	-0.02%
1937 242636 U5FALLBR	138 242/15 U5MERRIM	138 1	242636 U5FALLBR	242715	USMERKIM	1	138	2U5 AEP	293	341	Base Case	0	35.1	-	11.99	0	0.03%	0.03%	0.04%
1938 243294 05FLWRFD8 SS	138 247330 05BRODY	138 1	243294 05FLWRFD8 SS	247330	USBRODY	1	138	205 AEP	251	251	Base Case	0	-30	-	11.97	0	-0.01%	-0.01%	-0.01%
1939 243688 05S.PORT MTR	138 245949 05MLBRPK_ARG	138 1	243688 USS.PORT MTR	245949	U5MLBRPK_ARG	1	138	205 AEP	205	205	Base Case	0	24.5	-	11.95	0	-0.03%	-0.03%	0.00%
1940 243267 05COUNTY	138 245476 05ROB PK34	138 1	243267 05COUNTY	245476	U5ROB PK34	1	138	205 AEP	323	451	Base Case	0	-38.5	-	11.92	0	0.02%	0.02%	0.02%
1941 239149 02VULCAN	138 239151 02VULCTA	138 1	239149 02VULCAN	239151	02VULCTA	1	138	202 ATSI	288	346	Base Case	0	34.3	-	11.91	0	0.04%	0.04%	-0.02%
1942 243314 05HUNTR8	138 245476 05ROB PK34	138 1	243314 05HUNTR8	245476	05ROB PK34	1	138	205 AEP	257	360	Base Case	0	-30.5	-	11.87	0	0.07%	0.07%	0.06%
1943 243473 05BIXBY	138 246696 05BIXBY T3	138 Z1	243473 05BIXBY	246696	05BIXBY T3	Z1	138	205 AEP	196	247	Base Case	0	23.3	-	11.86	0	0.00%	0.00%	0.00%
1944 238928 02LTV+	138 239073 02ROBERT	138 ZL	238928 02LTV+	239073	02ROBERT	ZL	138	202 ATSI	200	242	Base Case	0	-23.7	-	11.85	0	0.10%	0.10%	-0.11%
1945 243074 05PHILO1	138 246010 05PHILO2	138 Z1	243074 05PHILO1	246010	05PHILO2	Z1	138	205 AEP	548	555	Base Case	0	64.9	-	11.84	0	0.48%	0.48%	-0.02%
1946 242531 05EDANV2	230 304094 6YANCY TAP	230 1	242531 05EDANV2	304094	6YANCY TAP	1	230	205/340 AEP/CPLE	621	771	Base Case	0	-73.5	-	11.84	0	0.30%	0.30%	3.35%
1947 242633 05EDENSR	138 242678 05INDIAS	138 1	242633 05EDENSR	242678	05INDIAS	1	138	205 AEP	158	167	Base Case	0	18.7	-	11.83	0	0.00%	0.00%	0.05%
1948 243558 05RIO	138 243559 05RIO Z	138 1	243558 05RIO	243559	05RIO Z	1	138	205 AEP	145	145	Base Case	0	-17.1	-	11.76	0	-0.01%	-0.01%	-0.02%
1949 238859 02KIQ-11	138 239005 02NHTQ11	138 1	238859 02KIQ-11	239005	02NHTQ11	1	138	202 ATSI	273	332	Base Case	0	32.1	-	11.74	0	0.16%	0.16%	-0.05%
1950 238807 02HMLQ12	138 240260 02GMCQ12	138 1	238807 02HMLQ12	240260	02GMCQ12	1	138	202 ATSI	355	434	Base Case	0	-41.6	-	11.73	0	0.09%	0.09%	0.00%
1951 244745 05BABBIT1-2	138 247767 05HAZELTON	138 1	244745 05BABBIT1-2	247767	05HAZELTON	1	138	205 AEP	564	755	Base Case	0	-66.1	-	11.72	0	0.00%	0.00%	0.00%
1952 250079 08NWTWN1	138 250080 08NWTWN2	138 Z1	250079 08NWTWN1	250080	08NWTWN2	Z1	138	212 DEO&K	394	394	Base Case	0	-46.2	-	11.72	0	0.06%	0.06%	0.06%
1953 243222 05FALL C	345 254535 16SUNNYS	345 1	243222 05FALL C	254535	16SUNNYS	1	345	205/216 AEP/IPL	956	956	Base Case	0	-111.7	-	11.69	0	-0.01%	-0.01%	0.33%
1954 243039 05MELMOR	138 243130 05TIFFIN	138 1	243039 05MELMOR	243130	05TIFFIN	1	138	205 AEP	299	423	Base Case	0	-34.9	-	11.69	0	-0.01%	-0.01%	-0.09%
1955 238557 02B.M.F.	138 239048 02PPPINE	138 1	238557 02B.M.F.	239048	02PPPINE	1	138	202 ATSI	212	239	Base Case	0	24.8	-	11.69	0	0.03%	0.03%	0.00%
1956 243242 05ALLEN	138 243330 05LINCOLN1	138 3	243242 05ALLEN	243330	05LINCOLN1	3	138	205 AEP	167	240	Base Case	0	19.4	-	11.64	0	0.02%	0.02%	0.01%
1957 239180 02ZELI-M	138 239943 02MKWEST2	138 1	239180 02ZELI-M	239943	02MKWEST2	1	138	202 ATSI	312	380	Base Case	0	36.2	-	11.6	0	-0.68%	-0.68%	0.05%
1958 243019 05HILLSB	138 249995 08CLINCO	138 1	243019 05HILLSB	249995	08CLINCO	1	138	205/212 AEP/DEO&K	229	229	Base Case	0	26.6	-	11.59	0	0.13%	0.13%	0.13%
1959 243010 05FTHENR	138 246927 05SAND H	138 1	243010 05FTHENR	246927	05SAND H	1	138	205 AEP	205	255	Base Case	0	23.8	-	11.59	0	0.14%	0.14%	-0.09%
1960 242611 05COALFK	138 242623 05DAWES	138 1	242611 05COALFK	242623	05DAWES	1	138	205 AEP	223	223	Base Case	0	-25.8	-	11.57	0	0.03%	0.03%	-0.15%
1961 238599 02IXO-2	138 240250 02CHIAO-2	138 1	238599 02IX0-2	240250	02CHIAO-2	1	138	202 ATSI	273	332	Base Case	0	31.6	-	11.56	0	0.00%	0.00%	0.00%
1962 242747 05PEMBRT	138 242818 05STOTES	138 1	242747 05PEMBRT	242818	05STOTES	1	138	205 AEP	251	335	Base Case	0	-29	-	11.56	0	-0.04%	-0.04%	-0.10%
1963 238610 02CDR ST	138 239107 02SHNAGO	138 1	238610 02CDR ST	239107	02SHNAGO	1	138	202 ATSI	278	339	Base Case	0	32.1	-	11.55	0	0.23%	0.23%	-0.01%
1964 250054 08LONGBR	138 342559 4BOONE CO	138 1	250054 08LONGBR	342559	4BOONE CO	1	138	212/320 DEO&K/EKPC	229	284	Base Case	0	-26.4	-	11.53	0	-0.01%	-0.01%	0.12%
1965 243587 05WILSNZ	138 243588 05WILSON	138 1	243587 05WILSNZ	243588	05WILSON	1	138	205 AEP	223	223	Base Case	0	25.7	-	11.51	0	-0.04%	-0.04%	-0.01%
1966 243013 05GAVIN1	138 243766 05LTGHTSTONI	138 ZC	243013 05GAVIN1	243766	05LIGHTSTONL	ZC	138	205 AEP	348	407	Base Case	0	40	-	11.49	0	0.00%	0.00%	0.00%
1967 243013 05GAVIN1	138 243766 05LIGHTSTONE	138 ZD	243013 05GAVIN1	243766	05LIGHTSTONE	ZD	138	205 AEP	348	407	Base Case	0	40	_	11 49	0	0.00%	0.00%	0.00%
1968 242941 050HTOCT	345 243455 05CONES	345 1	242941 050HT0CT	243455	05CONES	1	3/5	205 AEP	1370	1503	Base Case	0	157 /		11 20	0	0.41%	0.41%	-0.12%
1969 242941 03001001	138 250062 08METPSP	138 1	242341 03011001	250062	OSCONES	1	138	212 DEOLK	268	268	Base Case	0	30.8		11.49	0	-0.01%	-0.01%	-0.12%
1970 247802 053 PENDOR 00	138 247804 0505V013	138 1	247802 05APENDER CC	200002	05DEVOI A	1	130	205 250	200	410	Base Case	0	_33 0		11 /7	0	0.01%	0.10%	0.02%
1970 247802 USARENDSR SS	138 247804 05DEVOLA	100 1	247802 USARENDSK 55	247004	05DEVOLA	1	100	205 AEP	296	415	Base Case	0	-33.9		11.47	0	0.19%	0.19%	0.14%
1072 229951 02VD 0-1	120 242909 U3BKUESZ	120 1	242900 UJBRUES	242909	03BRUESZ	1	138	203 AEF	248	100	Dase Case	0	21 2		11 43	0	0.00%	0.00%	0.00%
1972 230051 UZKD Q-1	130 230037 U2KHTPQ1	130 1	230031 UZKD Q-1	236857	02KHIPQI	- 1	138	202 ATS1	2/3	332	Dase Case	0	31.2	-	11.43	0	0.00%	0.10%	0.00%
1974 252027 COOPERING	130 246942 USWARERD	100 L	243404 USADAMS	246942	OBCCURET	1	138	205 AEP	290	413	base Case	0	-33.8	-	11.43	0	1.10%	1.10%	0.07%
1974 253027 U9GREENE	345 253248 U9SCHARL	345 L	253027 09GREENE	253248	U95CHARL	1	345	209 DAY	1239	13/4	Base Case	0	141.5	-	11.42	0	-1.19%	-1.19%	-0.35%
1975 242559 U5BOLT Z	138 242820 05SUNDL1	138 1	242559 U5BOLT Z	242820	USSUNDL1	1	138	205 AEP	223	223	Base Case	0	25.4	-	11.38	0	-0.02%	-0.02%	0.18%
1970 238812 02HOYTDL	345 238813 02HOYTDL	138 2	238812 U2HOYTDL	238813	UZHOYTDL	2	345/138	202 ATSI	533	601	Base Case	0	60.5	-	11.34	0	-0.79%	-0.80%	-0.02%
1977 238894 02LF Q-4	138 239004 02NFLDQ4	138 1	238894 02LF Q-4	239004	UZNFLDQ4	1	138	202 ATSI	256	262	Base Case	0	-29	-	11.33	0	-0.14%	-0.14%	0.05%
1978 243320 05KANKAKEE2	138 245857 05KANKAKEE1	138 Z1	243320 05KANKAKEE2	245857	05KANKAKEE1	Z1	138	205 AEP	187	240	Base Case	0	-21.2	-	11.32	0	0.06%	0.06%	0.04%
1979 243316 05INDUST PK1	138 243338 05MCKINLEY3	138 1	243316 05INDUST PK1	243338	05MCKINLEY3	1	138	205 AEP	251	335	Base Case	0	-28.4	-	11.32	0	0.02%	0.02%	0.05%
1980 246915 05PRINCESS	138 247652 05HOODSCRK	138 1	246915 05PRINCESS	247652	05HOODSCRK	1	138	205 AEP	251	335	Base Case	0	-28.4	-	11.31	0	0.00%	0.00%	-0.01%

A	B C	D E	F	G	н	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
1981 243006 05FOSTOR 138 243137 05W.END FOS1 138 1	243006 05FOSTOR 2	43137 05W.END FOS1		1 138	205 AEP	296	296	Base Case	0	33.5		11.31	0	-0.10%	-0.10%	0.08%
1982 239154 02W FREM 138 239177 02WOODVT 138 1	239154 02W FREM 2	39177 02WOODVT		1 138	202 ATST	278	342	Base Case	0	31.4	-	11.3	0	0.13%	0.13%	-0.03%
1983 243470 05BELPPE 138 243496 05CONCRES SS 138 1	243470 05BET.PPE 2	A3496 05CONCRES SS		1 138	205 358	296	361	Base Case	0	33 4	-	11 29	0	0.24%	0.24%	0.14%
1004 250010 0000000 130 250117 00000011 120 1	240410 000EDFILE 2	50117 0000000111	-	1 130	203 AET	200	200	Dase Case	0	22.4		11.20	0	0.024/0	0.24%	0.01%
1095 240020 OFFILIDOR 245 24021 OFFILIDOR 115 1	230013 05EMW0D0 2	ACO21 OFFICER		1 245/115	212 DECAR	255	255	Base Case	0	-33.0	-	11.24	0	-0.02/6	-0.02%	-0.01%
1905 240930 03BLOECK 343 240931 03BLOECK 113 1	240930 03BLOECK 2	40931 UJBLUECK		1 343/113	205 AEP	330	307	base case	0	-39.3	_	11.23	0	-0.03%	-0.03%	-0.03%
1986 243490 05CORNER 138 243565 05RIVERV S. 138 1	243490 05CORNER 2	43565 USRIVERV S.	3	1 138	205 AEP	240	282	Base Case	0	-26.9		11.22	0	0.06%	0.06%	-0.01%
1987 243370 05S.BEND1 138 246066 05S.BEND2 138 Z1	243370 05S.BEND1 2	46066 05S.BEND2	Z1	138	205 AEP	219	255	Base Case	0	-24.6	-	11.21	0	0.20%	0.20%	0.12%
1988 243319 05JAY 138 243358 05PENNVI 138 1	243319 05JAY 2	43358 05PENNVI		1 138	205 AEP	257	359	Base Case	0	28.7	-	11.18	0	0.01%	0.01%	0.06%
1989 242578 05CARB Z 138 242593 05CHEM 2 138 1	242578 05CARB Z 2	42593 05CHEM 2		1 138	205 AEP	296	296	Base Case	0	33	-	11.16	0	-0.04%	-0.04%	-0.02%
1990 238832 02JACKMA 138 239170 02WESTGT 138 1	238832 02JACKMA 2	39170 02WESTGT		1 138	202 ATSI	278	343	Base Case	0	31	-	11.15	0	0.05%	0.05%	-0.01%
1991 238735 02F0XQ14 138 241935 02CLINTON 138 1	238735 02F0XQ14 2	41935 02CLINTON		1 138	202 ATSI	355	434	Base Case	0	39.6	-	11.15	0	0.00%	0.00%	0.00%
1992 243514 05RJF CORP Z 138 243521 05HARMRH 138 1	243514 05RJF CORP Z 2	43521 05HARMRH		1 138	205 AEP	282	282	Base Case	0	31.4	-	11.13	0	-0.07%	-0.07%	-0.08%
1993 238534 02ANGOLA 138 239169 02WENTWT 138 1	238534 02ANGOLA 2	39169 02WENTWT		1 138	202 ATSI	278	342	Base Case	0	-30.9	-	11.13	0	0.00%	0.00%	-0.01%
1994 243256 05CABOT SS 138 243258 05CLEVEL 138 1	243256 05CABOT SS 2	43258 05CLEVEL		1 138	205 AEP	205	284	Base Case	0	-22.8	-	11.11	0	-0.04%	-0.04%	-0.02%
1995 243386 05VALLY 138 244076 05ALMENA 138 1	243386 05VALLY 2	44076 05ALMENA		1 1.38	205 AEP	296	413	Base Case	0	32.8	-	11.09	0	0.00%	0.00%	0.00%
1996 245533 05H0LLOWAY34 138 247852 05DLLESBTMZ2 138 1	245533 05HOLLOWAY34 2	47852 05DTLESBTM72		1 138	205 AFP	556	678	Base Case	0	-61 7	-	11 09	0	-0.10%	-0.10%	0.18%
1997 238812 02HOVEDI 345 238813 02HOVEDI 138 1	239912 02HOVTDI	20012 0200VTDI	-	1 345/139	203 AEL	530	601	Base Case	0	50.1		11.09	0	-0.78%	-0.78%	-0.02%
1009 240000 000W 1125 120 250007 0000000 120 1	230012 02001101 2	50007 Olgopour		1 120	212 PROCK	201	201	Base Case	0	22.2	_	11.00	0	-0.78%	-0.78%	-0.0276
1000 040702 054700 00DK0133 138 230097 0856K0VE 138 1	249988 U8BKJ133 2	ADDAT OFFETER	-	1 138	ZIZ DEO&K	291	291	Dase Case	U	-32.2	-	11.08	0	-0.07%	-0.07%	-0.04%
2000 040000 0500 010 010 010 010 010 010 010 01	242/03 USLEON A 2	4394/USKIPLEY	-	1 138	205 AEP	296	413	base Case	0	32.8	-	11.08	0	0.02%	0.02%	0.02%
2000/243229 USOLIVE 345 270771 GREENACRE; T 345 1	243229 050LIVE 2	/U//1 GREENACRE; T		1 345	205/222 AEP/CE	971	971	Base Case	0	107.3	-	11.05	0	0.75%	0.75%	0.54%
2001 242598 05CHNC Z 138 242809 05SPRIG1 138 1	242598 05CHNC Z 2	42809 05SPRIG1	1	1 138	205 AEP	167	167	Base Case	0	18.4	-	11.04	0	0.07%	0.07%	0.05%
2002 242688 05JOSHUA 138 242737 05OPOSSUMCK 138 1	242688 05JOSHUA 2	42737 050POSSUMCK		1 138	205 AEP	388	484	Base Case	0	42.8	-	11.04	0	0.00%	0.00%	-0.43%
2003 242621 05DARRH1 138 242622 05DARRH2 138 Z1	242621 05DARRH1 2	42622 05DARRH2	Z1	138	205 AEP	302	302	Base Case	0	33.3	-	11.04	0	-0.05%	-0.05%	0.00%
2004 249992 08CDRVL1 138 249993 08CDRVL2 138 Z1	249992 08CDRVL1 2	49993 08CDRVL2	Z1	138	212 DEO&K	516	573	Base Case	0	-56.7	-	11	0	0.03%	0.03%	0.03%
2005 243697 05LOVELY 138 246923 05NEWSOM 138 1	243697 05LOVELY 2	46923 05NEWSOM		1 138	205 AEP	251	335	Base Case	0	27.5	-	10.96	0	-0.07%	-0.07%	-0.12%
2006 247019 05NEVILLE SS 138 247862 05TUSCANY 138 1	247019 05NEVILLE SS 2	47862 05TUSCANY		1 138	205 AEP	427	601	Base Case	0	-46.8	-	10.95	0	-0.02%	-0.02%	0.09%
2007 246950 05TIMBSS 138 246951 05TIMBCS 138 Z1	246950 05TIMBSS 2	46951 05TIMBCS	Z1	138	205 AEP	167	245	Base Case	0	-18.3	-	10.94	0	-0.01%	-0.01%	-0.01%
2008 242521 05NAGEL 500 242729 05NAGEL 138 1	242521 05NAGEL 2	42729 05NAGEL		1 500/138	205 AEP	750	750	Base Case	0	81.9	-	10.92	0	-0.01%	-0.01%	0.14%
2009 238595 02BURTON 138 239056 02B.M. + 138 1	238595 02BUBTON 2	39056 02R.M. +		1 138	202 ATST	157	192	Base Case	0	-17.1		10.92	0	-0.01%	-0.01%	0.00%
2010 238813 02HOVTDI. 138 238991 02NCASTI. 138 2	238813 02HOVTDI 2	38991 02NCASTL		2 138	202 ATST	329	373	Base Case	0	35 9	-	10.92	0	0.14%	0.14%	0.04%
2011 238813 02HOVEDT 138 238801 02NCASTE 138 1	239913 02407701 2	38991 02NCASTL		1 139	202 ATSI	329	413	Base Case	0	35.0	-	10.92	0	0.14%	0.14%	0.04%
2012 238013 02101101 130 238351 02NCR311 130 1	230013 02101101 2	300501 02NCAS11		1 130	202 4151	200	242	Dase Case	0	21.0		10.92	0	0.14%	0.14%	0.119/
2012 236928 02LTV+ 138 236969 02MRGP + 138 1	238928 02LIV+ 2	38969 UZMRGP +	-	1 130	202 ATSI	200	242	Base Case	0	21.0	-	10.91	0	0.10%	0.10%	-0.11%
2013 238829 021VYQ14 138 240351 021V-NB+18 138 1	238829 021VYQ14 2	40351 021V-NB+18	-	1 138	202 ATS1	260	309	Base Case	U	-28.3	-	10.9	0	-0.03%	-0.03%	0.02%
2014 242988 05DOGWOO 138 242992 05E WHEE 138 1	242988 05DOGWOO 2	42992 05E WHEE	-	1 138	205 AEP	167	167	Base Case	0	-18.2		10.9	0	0.05%	0.05%	0.13%
2015 238868 02KPQ-13 138 238877 02LAQ-13 138 1	238868 02KPQ-13 2	38877 02LAQ-13	-	1 138	202 ATSI	347	423	Base Case	0	-37.8	-	10.9	0	0.00%	0.00%	0.00%
2016 243564 05RIVERV N. 138 243565 05RIVERV S. 138 Z1	243564 05RIVERV N. 2	43565 05RIVERV S.	Z1	138	205 AEP	248	310	Base Case	0	27	-	10.89	0	0.06%	0.06%	-0.01%
2017 242653 05GRANDV 138 242668 05HINTON 138 1	242653 05GRANDV 2	42668 05HINTON		1 138	205 AEP	383	449	Base Case	0	41.7	-	10.89	0	-0.08%	-0.08%	-0.72%
2018 238815 02IKQ-15 138 238880 02LTFQ15 138 1	238815 02IKQ-15 2	38880 02LTFQ15		1 138	202 ATSI	273	332	Base Case	0	29.6		10.86	0	0.01%	0.01%	-0.01%
2019 243349 05NEW CARLI2 138 246996 05PLETCH 138 1	243349 05NEW CARLI2 2	46996 05PLETCH		1 138	205 AEP	187	205	Base Case	0	20.3	-	10.85	0	-0.07%	-0.07%	-0.02%
2020 243020 05HILLVI 138 243056 05NEWCOM 138 1	243020 05HILLVI 2	43056 05NEWCOM		1 138	205 AEP	287	337	Base Case	0	-31.1	-	10.84	0	-0.42%	-0.43%	0.11%
2021 238505 02DELTA 138 238738 02FULTON 138 1	238505 02DELTA 2	38738 02FULTON		1 138	202 ATSI	288	346	Base Case	0	-31.1		10.81	0	0.07%	0.07%	0.00%
2022 242804 05SOURWO 138 247290 05HARMON 138 1	242804 05SOURWO 2	47290 05HARMON		1 138	205 AEP	223	223	Base Case	0	-24.1		10.79	0	0.07%	0.07%	-0.12%
2023 238693 02ELM 138 238825 02IVANHO 138 1	238693 02ELM 2	38825 02IVANHO		1 138	202 ATSI	275	333	Base Case	0	-29.7	-	10.78	0	-0.02%	-0.02%	0.00%
2024 243301 05GRANGE 138 243355 050NTWA8 SS 138 1	243301 05GRANGE 2	43355 050NTWA8 55		1 138	205 AEP	293	341	Base Case	0	-31.6	-	10.78	0	-0.02%	-0.02%	-0.04%
2025 245358 05PENGUINDP1 138 246177 05aNGUIN1-2 138 1a	245358 05PENGITNDP1 2	46177 05ANGUIN1-2	1 4	138	205 AEP	492	492	Base Case	0	-53	12	10 78	0	0.00%	0.00%	0.00%
2026 245358 050 ENCLIMENT 138 246177 05ANGUINT 2 138 1A	245358 05PENGUINDE1 2	46177 05ANGUIN1-2	18	130	205 AFP	102	192	Baen Case	0	_53	_	10.70	0	0.00%	0.00%	0.00%
2027 242925 05KAMMED 765 270162 AD2-067 MAD 765 1	242025 05FAMMED 22	70162 AD2-067 MAD	110	1 765	205 AFP	492	492	Page Case	0	-136 1		10.70	0	-6.30%	-6.30%	-2.04%
2021 242323 UJRAHHER /03 2/0102 AB2-00/ TAP /05 1	242723 UJRANNEK 2	10102 AB2-00/ TAP	-	1 100	205 AEP	4047	4142	Dase Case	U	-430.1	-	10.78	0	0.04%	0.04%	0.249/
2020 242/05 USKENSFD 138 243422 USPOINTL 138 1	242/03 USKENSFD 2	43422 USPOINTL	-	1 138	205 AEP	180	227	base case	0	-19.4	-	10.77	0	-0.04%	-0.04%	-0.24%
2029 235707 UIWYLIE R 345 239368 02TORONTO 345 1	235707 01WYLIE R 2	39368 UZTORONTO	1	1 345	201/202 AP/ATSI	2504	2868	Base Case	0	269.6	-	10.77	0	4.86%	4.86%	2.25%
2030 247329 05STINGER 138 247330 05BRODY 138 1	247329 05STINGER 2	4/330 05BRODY	-	1 138	205 AEP	323	449	Base Case	0	34.8		10.76	0	-0.01%	-0.01%	-0.01%
2031 243016 05HANTHR 138 243125 05THAYER 138 1	243016 05HANTHR 2	43125 05THAYER		1 138	205 AEP	185	185	Base Case	0	-19.9	-	10.75	0	0.05%	0.05%	-0.05%
2032 250057 08M.FORT 138 250058 08M.FTGT 138 1	250057 08M.FORT 2	50058 08M.FTGT		1 138	212 DEO&K	266	266	Base Case	0	28.6	-	10.74	0	0.01%	0.01%	0.01%
2033 242510 05BAKER 765 242924 05HANG R 765 1	242510 05BAKER 2	42924 05HANG R		1 765	205 AEP	4047	4571	Base Case	0	-434.1	<u></u>	10.73	0	-2.86%	-2.86%	-5.94%
2034 242576 05CAPITOLH 138 247844 05CAPITOLH2 138 Z1	242576 05CAPITOLH 2	47844 05CAPITOLH2	Z1	138	205 AEP	747	747	Base Case	0	80.1		10.72	0	0.01%	0.01%	-0.09%
2035 246051 05DEER CRK2 138 246763 05PIPECK 138 1	246051 05DEER CRK2 2	46763 05PIPECK		1 138	205 AEP	257	360	Base Case	0	27.5	-	10.71	0	-0.03%	-0.03%	-0.05%
2036 243364 05RICHMO 138 243373 05SELMAP 138 1	243364 05RICHMO 2	43373 05SELMAP		1 138	205 AEP	164	167	Base Case	0	-17.6	-	10.71	0	-0.02%	-0.02%	-0.03%
2037 243482 05CENTBG 138 243488 05CONESVILLE 138 1	243482 05CENTBG 2	43488 05CONESVILLE		1 138	205 AEP	338	338	Base Case	0	-36.2		10.7	0	0.04%	0.04%	-0.01%
2038 242563 05BOXWD 138 246229 05REUSENS2 138 1	242563 05B0XWD 2	46229 05REUSENS2		1 138	205 AEP	167	167	Base Case	0	-17.8	-	10.68	0	-0.13%	-0.13%	-0.24%
2039 238908 02LONDON 138 240706 02NATTONAL 138 1	238908 02LONDON 2	40706 02NATTONAT		1 139	202 ATST	233	282	Base Case	0	-24 9	_	10 68	0	0.05%	0.05%	-0.01%
2040 243059 05NETNDI 139 243067 05NETNDO 139 1	243050 05NETNDT	13067 05NECODC	-	1 120	205 755	1.67	202	Base Case	0	_17 0		10.00	0	-0 10%	-0.10%	0.06%
138 1 136 24306/ USNWOODC 138 1	230000 00METINDE 2	1300/05000000		-1 130	200 1005	T01	240	hase case	U	-1/.O		10.0/	U	0.10/0	-0.1070	0.0070

	А	B C	D E	F	G	НІ	J	K L	М	N	0	Р	Q	R	S	T U
2041 238852 02KD Q-3	138 238858 02KHTPQ3 138 1	238852 02KD Q-3	238858 02KHTPQ3	1	138	202 ATSI	273	332 Base Case	0	29		10.64	0	0.00%	0.00%	0.00%
2042 247832 05LAMPING	345 247833 05LAMPING 138 1	247832 05LAMPING	247833 05LAMPING	1	345/138	205 AEP	450	450 Base Case	0	47.9	-	10.63	0	-0.15%	-0.15%	-0.14%
2043 250081 080AKLEY	138 250158 088MTRD.T 138 1	250081 0804KLEY	250158 088MTRD.T	1	138	212 DE0.6K	332	332 Base Case	0	-35 3	-	10 63	0	0.04%	0.04%	0.04%
2044 253071 09STDNEY	138 253072 09SPRING 138 1	253071 09STDNEY	253072 09SPRING	1	138	209 DAY	196	241 Base Case	0	-20.8	-	10.63	0	-0.05%	-0.05%	0.01%
2045 238884 021E 0-4	139 239072 0351KING 130 1	239994 021E 0-4	239973 02MX 0-4	1	130	200 541	273	232 Page Case	0	20.0		10.62	0	-0.14%	-0.14%	0.05%
2046 238754 02CE0_12	130 230375 02MA Q-4 150 1	238754 02CEO_12	230373 02MA Q-4	1	120	202 A151	425	532 Base Case	0	- 45		10.01	0	-0.14%	-0.14%	0.00%
2040 238754 02GFQ-12	130 230795 02HDGQ12 130 1	238754 02GFQ-12	238793 02HDGQ12	1	130	202 AISI	425	522 Dase Case	0	-43		10.6	0	-0.02%	-0.02%	0.00%
2047 238754 02GFQ-12	138 238922 0251EQ12 138 1	238754 02GFQ-12	238922 02LTEQ12		130	202 A151	425	JZZ Base Case	0	45	-	10.6	0	-0.02%	-0.02%	0.00%
2048 242/16 USMIDKIF	138 247243 05SHERID 138 1	242716 05MIDKIF	247243 USSHERID	1	138	205 AEP	296	378 Base Case	0	-31.4	-	10.6	0	-0.05%	-0.05%	-0.14%
2049 242629 05E.MONU	138 242770 05RIGIS 138 1	242629 USE.MONU	242770 USRIGIS	1	138	205 AEP	219	251 Base Case	0	23.2	-	10.58	0	0.02%	0.02%	0.19%
2050 242824 05TAMSM1	138 24/55/ 05MABSCOTT 138 1	242824 05TAMSM1	24/55/ 05MABSCOTT	1	138	205 AEP	158	183 Base Case	0	16.7		10.56	0	-0.03%	-0.03%	0.07%
2051 242531 05EDANV2	230 242632 05EDAN 2 138 4	242531 05EDANV2	242632 05EDAN 2	4	1 230/138	205 AEP	696	814 Base Case	0	73.5	-	10.56	0	0.30%	0.30%	3.35%
2052 243486 05CLINTX	138 243551 050SU 138 1	243486 05CLINTX	243551 050SU	1	138	205 AEP	129	171 Base Case	0	13.6	-	10.55	0	0.03%	0.03%	0.01%
2053 247801 05BUELL	138 247802 05ARENDSR SS 138 1	247801 05BUELL	247802 05ARENDSR SS	1	138	205 AEP	296	413 Base Case	0	-31.2	-	10.55	0	0.19%	0.19%	0.14%
2054 239146 02UTTP1	138 239149 02VULCAN 138 ZL	239146 02UTTP1	239149 02VULCAN	ZL	138	202 ATSI	290	325 Base Case	0	30.5		10.53	0	-0.06%	-0.06%	0.01%
2055 243297 05GERMAN	138 243352 05NTRDAM 138 1	243297 05GERMAN	243352 05NTRDAM	1	L 138	205 AEP	257	360 Base Case	0	27	-	10.5	0	-0.09%	-0.09%	-0.06%
2056 242945 05SW LIM	345 245977 05GRISTMILL 345 1	242945 05SW LIM	245977 05GRISTMILL	1	. 345	205 AEP	1409	1409 Base Case	0	147.9	-	10.49	0	0.45%	0.45%	-0.22%
2057 250172 08AERO	138 250173 08WDSPNT 138 1	250172 08AERO	250173 08WDSPNT	1	138	212 DEO&K	301	301 Base Case	0	-31.6	-	10.49	0	-0.01%	-0.01%	-0.01%
2058 243149 05W.LANCAST1	138 246021 05W.LANCAST2 138 Z1	243149 05W.LANCAST1	246021 05W.LANCAST2	Z1	138	205 AEP	383	449 Base Case	0	40.2	-	10.49	0	0.02%	0.02%	0.05%
2059 241237 02GROV TP	138 241935 02CLINTON 138 1	241237 02GROV TP	241935 02CLINTON	1	138	202 ATSI	278	339 Base Case	0	-29.1	-	10.48	0	0.22%	0.22%	0.02%
2060 243363 05REED	138 243366 05ROB PK12 138 1	243363 05REED	243366 05ROB PK12	1	138	205 AEP	219	251 Base Case	0	-23	-	10.48	0	-0.07%	-0.07%	-0.05%
2061 243012 05G WASHGTON	138 247852 05DILESBTMZ2 138 1	243012 05G WASHGTON	247852 05DILESBTMZ2	1	138	205 AEP	590	590 Base Case	0	61.8		10.47	0	-0.10%	-0.10%	0.18%
2062 250032 08FRFLD1	138 250040 08HALL2 138 1	250032 08FRFLD1	250040 08HALL2	1	138	212 DEO&K	198	198 Base Case	0	-20.7	-	10.45	0	0.02%	0.02%	-0.02%
2063 242939 05MARYSV	345 253251 09DAYMRY 345 1	242939 05MARYSV	253251 09DAYMRY	1	345	205/209 AEP/DAY	1255	1374 Base Case	0	131	-	10.44	0	0.03%	0.03%	0.02%
2064 243103 05SKENTO	138 243147 05WILDCRK SS 138 1	243103 05SKENTO	243147 05WILDCRK SS	1	138	205 AEP	158	180 Base Case	0	16.5	-	10.42	0	-0.10%	-0.10%	-0.04%
2065 238638 02CPP NH	138 239005 02NHTQ11 138 ZL	238638 02CPP NH	239005 02NHTQ11	ZL	138	202 ATSI	273	332 Base Case	0	-28.4	-	10.42	0	0.08%	0.08%	-0.02%
2066 245456 05NEWBERY	138 247001 05YELLOW CK2 138 1	245456 05NEWBERY	247001 05YELLOW CK2	1	138	205 AEP	296	413 Base Case	0	-30.8	-	10.4	0	0.06%	0.06%	0.10%
2067 243012 05G WASHGTON	138 247839 05DILLES BTM 138 1	243012 05G WASHGTON	247839 05DILLES BTM	1	138	205 AEP	590	590 Base Case	0	61.2	-	10.37	0	-0.10%	-0.10%	0.18%
2068 242928 05MARYSV	765 246999 05SOBENS 765 1	242928 05MABYSV	246999 05SOBENS	1	765	205 AEP	4047	4142 Base Case	0 -	-419.5	-	10.37	0	-5.34%	-5.34%	-3.50%
2069 242847 05WHARTZ	138 244187 05STINK BUN 138 1	242847 05WHARTZ	244187 05STINK BUN	1	138	205 AEP	205	284 Base Case	0	-21 2	-	10 35	0	0.01%	0.01%	0.02%
2070 238551 023VON	345 239725 02LAKEAVE 345 1	238551 023VON	239725 02LAKEAVE	1	345	200 1101	1560	1900 Base Case		-161 3	-	10.34	0	-1 22%	-1 22%	-0.05%
2071 243692 05437PD1	138 243603 05477DD2 138 71	243692 05437801	243693 05HA7PD2	71	139	205 AFP	197	240 Base Case	0	_10 3	-	10.34	0	-0.10%	-0.10%	-0.05%
2072 242521 05NACEL	500 242720 05NACEL 128 2	243632 05HAZKDI	243033 05HAZKD2		500/129	205 AEP	705	240 Base Case	0	01 0		10.34	0	-0.10%	-0.10%	0.14%
2072 232521 USNAGEL	120 22723 03NAGEL 130 3	242521 05NAGEL	242729 03NAGEL	1	120	200 AEF	265	200 Base Case	0	01.9		10.3	0	-0.01%	-0.01%	0.14%
2073 238699 02ENQ-12	130 242502 05VDADIC 130 1	238699 02ENQ-12	238739 02FWL5QI	1	100	202 ATSI	205	077 Dase Case	0	-27.5		10.3	0	-0.09%	-0.09%	0.00%
2074 243502 05E.BROAD	138 243592 USYEARLG 138 1	243502 05E.BROAD	243592 USIEARLG	1	138	205 AEP	240	277 Base Case	0	24.7		10.29	0	0.05%	0.05%	0.00%
2075 246606 05WETZEL SS	138 247095 05WILLIAM TH 138 1	246606 USWETZEL SS	247095 USWILLIAM TH	1	138	205 AEP	185	257 Base Case	0	19	-	10.27	0	0.00%	0.00%	0.00%
2076 242972 05BLOOMFD SS	138 243135 05W DOVE 138 1	242972 USBLOOMFD SS	243135 05W DOVE	1	138	205 AEP	296	361 Base Case	0	30.3	-	10.25	0	-0.47%	-0.47%	0.10%
2077 238685 02EASTLK	138 241923 02ELQ3 138 1	238685 02EASTLK	241923 U2ELQ3	1	138	202 ATSI	999	999 Base Case	0	102.2	-	10.23	0	0.03%	0.03%	-0.01%
2078 242528 05SPORN	345 242529 05TRISTA 345 1	242528 05SPORN	242529 USTRISTA	1	. 345	205 AEP	1132	1132 Base Case	0 -	-115.8		10.23	0	-0.18%	-0.18%	0.56%
2079 247839 05DILLES BTM	138 24/840 05DILESBTMZ1 138 1	247839 05DILLES BTM	24/840 05DILESBTMZ1	1	138	205 AEP	590	590 Base Case	0	60.4	-	10.23	0	-0.10%	-0.10%	0.18%
2080 242563 05BOXWD	138 247632 05AMHERST 138 1	242563 05BOXWD	247632 05AMHERST	1 1	138	205 AEP	219	251 Base Case	0	-22.4	-	10.23	0	-0.16%	-0.16%	-0.41%
2081 242670 05HOLST2	138 242830 05TENNE2 138 2	242670 05HOLST2	242830 05TENNE2	2	2 138	205 AEP	68	68 Base Case	0	7	-	10.23	0	0.00%	0.00%	0.02%
2082 242750 05PHILPOTT Z	138 242844 05W.BASS 138 1	242750 05PHILPOTT Z	242844 05W.BASS	1	138	205 AEP	202	202 Base Case	0	-20.7	-	10.22	0	0.05%	0.05%	0.53%
2083 243060 05NINTIE	138 243156 05W.NEW PHIL 138 1	243060 05NINTIE	243156 05W.NEW PHIL	1	138	205 AEP	285	291 Base Case	0	29.1	-	10.21	0	0.42%	0.42%	-0.10%
2084 238667 02DUALR+	138 239073 02ROBERT 138 1	238667 02DUALR+	239073 02ROBERT	1	138	202 ATSI	190	225 Base Case	0	19.4	-	10.21	0	0.07%	0.07%	-0.08%
2085 243294 05FLWRFD8 SS	138 243345 05MOORPK 138 1	243294 05FLWRFD8 SS	243345 05MOORPK	1	138	205 AEP	251	251 Base Case	0	25.6	-	10.2	0	-0.01%	-0.01%	-0.01%
2086 238551 02AVON	345 239725 02LAKEAVE 345 2	238551 02AVON	239725 02LAKEAVE	2	2 345	202 ATSI	1560	1900 Base Case	0	-159	~	10.19	0	-1.20%	-1.20%	-0.05%
2087 244287 05WOLF GLADE	138 245117 05W.CARROLL 138 1	244287 05WOLF GLADE	245117 05W.CARROLL	1	138	205 AEP	251	251 Base Case	0	-25.6	-	10.18	0	0.03%	0.03%	0.07%
2088 242766 05RICHLA	138 247149 05WHITWD 138 1	242766 05RICHLA	247149 05WHITWD	1	138	205 AEP	296	398 Base Case	0	30.1	-	10.17	0	0.06%	0.06%	0.17%
2089 242519 05CLOVRD	500 242524 05CLOVRD 345 16	242519 05CLOVRD	242524 05CLOVRD	16	5 500/345	205 AEP	1733	1758 Base Case	0	176	-	10.15	0	1.05%	1.05%	0.74%
2090 242519 05CLOVRD	500 242524 05CLOVRD 345 15	242519 05CLOVRD	242524 05CLOVRD	15	5 500/345	205 AEP	1733	1759 Base Case	0	176	~	10.15	0	1.05%	1.05%	0.74%
2091 243030 05LIMAOR	138 243099 05SHAWNR 138 1	243030 05LIMAOR	243099 05SHAWNR	1	138	205 AEP	335	388 Base Case	0	-34	-	10.15	0	0.09%	0.09%	0.12%
2092 242547 05BAILS2	138 242833 05TRAILF 138 1	242547 05BAILS2	242833 05TRAILF	1	138	205 AEP	334	334 Base Case	0	33.7	-	10.1	0	0.00%	0.00%	-0.30%
2093 238605 02CARDNT	138 238746 02GALION 138 1	238605 02CARDNT	238746 02GALION	1	138	202 ATSI	145	145 Base Case	0	-14.6		10.1	0	0.01%	0.01%	-0.02%
2094 239109 02SHRPQS	138 239199 02WN-STL 138 1	239109 02SHRPQS	239199 02WN-STL	1	138	202 ATSI	160	192 Base Case	0	-16.1	-	10.07	0	-0.07%	-0.07%	0.01%
2095 243490 05CORNER	138 243533 05LAYMAN 138 1	243490 05CORNER	243533 05LAYMAN	1	138	205 AEP	205	284 Base Case	0	-20.6	-	10.06	0	-0.43%	-0.43%	-0.23%
2096 239103 02SHARON	138 239109 02SHRPQS 138 1	239103 02SHARON	239109 02SHRPQS	1	138	202 ATSI	160	192 Base Case	0	-16.1	-	10.05	0	-0.07%	-0.07%	0.01%
2097 242592 05CHEM 1	138 242836 05TURNE1 138 1	242592 05CHEM 1	242836 05TURNE1	1	138	205 AEP	296	296 Base Case	0	-29.7		10.04	0	-0.03%	-0.03%	-0.02%
2098 242651 05GLENL2	138 242749 05PETERM 138 1	242651 05GLENL2	242749 05PETERM	1	138	205 AEP	205	205 Base Case	0	20.6	-	10.04	0	-0.11%	-0.11%	-0.25%
2099 242943 05SCANTO	345 242944 05SECANT 345 1	242943 05SCANTO	242944 05SECANT	1	345	205 AEP	1409	1409 Base Case	0	141.2	-	10.02	0	-0.33%	-0.33%	0.49%
2100 242782 05RUTH	138 242836 05TURNE1 138 1	242782 05RUTH	242836 05TURNE1	1	138	205 AEP	729	729 Base Case	0	-73	-	10.01	0	-0.09%	-0.09%	-0.17%
		and the second construction of		1	4			and the second sec								

	А		В	C	D	E	F	G	н і	J	К	L	М	N	0	Р	Q	R	S	T U
2101 243378 05SPY RUN2	138 246993 05PURDUE	138 1	243378	05SPY RUN2	246993	05PURDUE	1	L 138	205 AEP	296	392	Base Case	0	-29.6	-	10.01	0	0.00%	0.00%	-0.03%
2102 243851 05CENTRM	138 243852 05CENT27	138 1	243851	05CENTRM	243852	05CENT27	1	L 138	205 AEP	205	205	Base Case	0	-20.5	-	9.99	0	0.00%	0.00%	0.00%
2103 250100 08SMRSD1	138 250142 08WARDSC	138 1	250100	08SMRSD1	250142	08WARDSC	1	L 138	212 DEO&K	249	249	Base Case	0	24.8	-	9.96	0	0.02%	0.02%	0.03%
2104 243525 05HUNTLEY1	138 243535 05LINWRT	138 1	243525	05HUNTLEY1	243535	05LINWRT	1	138	205 AEP	216	216	Base Case	0	21.5	-	9.94	0	0.02%	0.02%	0.01%
2105 250072 08MTCHL1	138 250073 08MTCHL3	138 Z1	250072	08MTCHL1	250073	08MTCHL3	Z1	138	212 DEO&K	394	394	Base Case	0	39.1	-	9.92	0	-0.03%	-0.03%	-0.02%
2106 238757 02GLCBST	138 238873 02LAKMOR	138 1	238757	02GLCBST	238873	02LAKMOR	1	138	202 ATST	157	196	Base Case	0	-15.5	-	9.89	0	-0.04%	-0.04%	0.05%
2107 243684 05DEWEY	138 244008 05STANVILLE1	138 1	243684	05DEWEY	244008	05STANVILLE1	1	1 138	205 AEP	223	223	Base Case	0	22.1	_	9.89	0	-0.01%	-0.01%	-0.17%
2108 239055 02015TAP	138 239349 02MTLCHM	138 1	239055	02015738	239349	02MTLCHM	1	130	202 2051	273	332	Base Case	0	27	-	9.09	0	0.00%	0.00%	0.00%
2100 239703 02ESPENC	139 240709 02N TITUS	130 1	239033	02gijini 02geddno	240700	02M TTTUS	1	130	202 ATST	200	242	Base Case	0	_10.9		0.00	0	0.00%	0.00%	0.03%
2110 242525 OFKANAWU	245 242526 05KANAWZ	245 70	230703	OEKANAWU	240705	OEKANAMZ	70	246	205 AFD	1404	1505	Base Case	0	147.4		9.00	0	0.60%	0.60%	2.24%
2111 242525 05KANAWH	120 242027 05CANAWZ	120 1	242525	OSTANAWH	242320	05KANAWZ	4D 1	120	205 AEF	1454	1393	Dase Case	0	147.4		9.07	0	-0.09%	-0.09%	-2.34%
2111 242681 USIVY HL	138 243857 05COFFEE	138 1	242681	USIVY HL	243857	USCOFFEE		138	205 AEP	167	245	Base Case	U	16.5	-	9.86	0	-0.01%	-0.01%	-0.23%
2112 243263 USCOLUMBIA	138 255163 1/NORTHEAST	138 1	243263	05COLUMBIA	255163	I /NORTHEAST		L 138	205/21/AEP/NIPS	143	143	Base Case	0	-14.1	-	9.86	0	-0.09%	-0.09%	-0.07%
2113 242670 05HOLST2	138 244508 05RIGGS	138 1	242670	05HOLST2	244508	05RIGGS		138	205 AEP	117	117	Base Case	0	-11.5	-	9.86	0	0.03%	0.03%	0.27%
2114 243107 05SPENCR	138 244230 05SUNDAY SS	138 1	243107	05SPENCR	244230	05SUNDAY SS	1	1 138	205 AEP	259	325	Base Case	0	-25.5		9.85	0	-0.14%	-0.14%	0.15%
2115 243493 05CRVERD	138 245962 05DLAWAR3	138 1	243493	05CRVERD	245962	05DLAWAR3	1	138	205 AEP	293	341	Base Case	0	-28.9	-	9.85	0	-0.04%	-0.04%	0.01%
2116 242519 05CLOVRD	500 242512 05CLOVRD	765 14	242519	05CLOVRD	242512	05CLOVRD	14	1 500/765	205 AEP	2590	2877	Base Case	0	-254.9	-	9.84	0	-3.49%	-3.49%	-2.88%
2117 242974 05BUCKLR	138 244341 05SOFTAIL SS	138 1	242974	05BUCKLR	244341	05SOFTAIL SS	1	L 138	205 AEP	251	251	Base Case	0	-24.7	-	9.84	0	-0.01%	-0.01%	0.00%
2118 239027 020ILEVS	138 239191 02JMDUTC	138 1	239027	020ILEVS	239191	02JMDUTC	1	L 138	202 ATSI	308	376	Base Case	0	30.3	-	9.83	0	0.05%	0.05%	0.01%
2119 242965 05BRIDGEVILZ	138 242972 05BLOOMFD SS	138 1	242965	05BRIDGEVILZ	242972	05BLOOMFD SS	1	L 138	205 AEP	335	392	Base Case	0	32.9	-	9.81	0	-0.47%	-0.47%	0.10%
2120 238589 02BRUSH	138 239161 02WAKRON	138 1	238589	02BRUSH	239161	02WAKRON	1	L 138	202 ATSI	143	146	Base Case	0	-14	-	9.77	0	-0.02%	-0.02%	0.08%
2121 242582 05CARWLZ	138 242833 05TRAILF	138 1	242582	05CARWLZ	242833	05TRAILF	1	L 138	205 AEP	334	334	Base Case	0	-32.6	-	9.77	0	0.00%	0.00%	-0.30%
2122 243262 05COLLEGE C	138 243310 05HODGIN	138 1	243262	05COLLEGE C	243310	05HODGIN	1	138	205 AEP	219	247	Base Case	0	21.4	-	9.75	0	0.04%	0.04%	0.05%
2123 242784 05S.BLUE	138 247850 05TOWN CREEK	138 1	242784	05S.BLUE	247850	05TOWN CREEK	1	L 138	205 AEP	296	413	Base Case	0	-28.9	-	9.75	0	0.04%	0.04%	0.19%
2124 246946 05WLDCAT	138 247034 05EMERSS	138 1	246946	05WLDCAT	247034	05EMERSS	1	L 138	205 AEP	185	185	Base Case	0	-18	-	9.74	0	-0.06%	-0.06%	0.01%
2125 242533 05ABINGD	138 246779 05S.ABINGDN2	138 1	242533	05ABINGD	246779	05S.ABINGDN2	1	L 138	205 AEP	167	240	Base Case	0	16.3	-	9.73	0	0.00%	0.00%	-0.14%
2126 242603 05CLIFFR	138 242613 05COLLEEN SS	138 1	242603	05CLIFFR	242613	05COLLEEN SS	1	L 138	205 AEP	167	167	Base Case	0	16.2	-	9.72	0	-0.30%	-0.30%	-0.65%
2127 242615 05COPPER	138 242667 05HILL	138 1	242615	05COPPER	242667	05HILL	1	L 138	205 AEP	219	223	Base Case	0	21.3	-	9.71	0	-0.02%	-0.02%	-0.20%
2128 246988 05STRWIN	138 247116 05ALADDIN	138 1	246988	05STRWTN	247116	05ALADDIN	J	138	205 AEP	257	360	Base Case	0	25	-	9.71	0	-0.02%	-0.02%	-0.01%
2129 238693 02ELM	138 238748 02GARDEN	138 1	238693	02ELM	238748	02GARDEN	1	138	202 ATSI	157	196	Base Case	0	15.2	-	9.69	0	-0.04%	-0.04%	0.00%
2130 238685 02EASTLK	138 241925 02EL05	138 1	238685	02EASTLK	241925	02EL05	1	138	202 ATST	999	999	Base Case	0	96.7	-	9.68	0	0.14%	0.14%	-0.05%
2131 242530 05EDANV1	230 242631 05EDAN 1	138 5	242530	05EDANV1	242631	05EDAN 1	6	5 230/138	205 AEP	820	926	Base Case	0	79.2	-	9.65	0	0.30%	0.30%	3 39%
2132 247371 05MUSKNG1B	138 247372 05MUSKNG1C	138 71	247371	05MUSKNG1B	247372	05MUSKNG1C	71	138	205 AEP	766	898	Base Case	0	73.9	-	9.65	0	-0.06%	-0.06%	0.06%
2133 242554 05BTM	138 242847 05WHAPT7	138 1	242554	05BTM	242847	05WHARTZ	1	130	205 AEP	205	255	Base Case	0	-19.8	-	9.65	0	0.01%	0.00%	0.02%
2134 239705 02PT 0-2	138 240250 02CHTA0-2	130 1	232705	02ET 0-2	242047	02CHTAO-2	1	130	202 ATCT	203	230	Base Case	0	-26.2		0.05	0	0.01%	0.00%	0.00%
2125 250070 02E1 Q-2	130 240230 02CHIAQ-2	120 1	250705	02E1 Q=2	240230	02CHIAQ=2	1	1 120	202 AISI 212 DEOKK	273	332	Base Case	0	-20.2		9.0	0	0.00%	0.00%	0.06%
2135 230079 08NWTWN1	138 250092 08REDBR1	138 1	230079	05 NWTWNI	250092	OSKEDBKI		138	212 DEO&K	332	332	Base Case	0	31.8	-	9.59	0	0.00%	0.00%	0.00%
2130 242543 USAUSTIN	138 242859 05WYTHE2	138 1	242543	USAUSTIN	242859	U5WYTHE2		138	205 AEP	251	251	Base Case	0	-24.1	-	9.58	0	-0.02%	-0.02%	-0.06%
2137 243256 05CABOT SS	138 243336 USMANORZ	138 1	243256	05CABOT SS	243336	USMANORZ		138	205 AEP	205	284	Base Case	0	19.6	-	9.58	0	-0.04%	-0.04%	-0.02%
2138 243473 05BIXBY	138 243552 05PICKR8	138 1	243473	05BIXBY	243552	05PICKR8	1	138	205 AEP	296	413	Base Case	0	28.4		9.58	0	-0.09%	-0.09%	-0.02%
2139 243237 05ADAM	138 243358 05PENNVI	138 1	243237	05ADAM	243358	05PENNVI	1	138	205 AEP	257	359	Base Case	0	-24.6	-	9.58	0	0.01%	0.01%	0.06%
2140 239016 02NT Q15	138 241924 02ELQ4	138 1	239016	02NT Q15	241924	02ELQ4	1	138	202 ATSI	225	295	Base Case	0	-21.5	-	9.58	0	0.02%	0.02%	-0.01%
2141 238790 02HCQ-13	138 239051 02PV Q3	138 1	238790	02HCQ-13	239051	02PV Q3	1	L 138	202 ATSI	225	295	Base Case	0	-21.5	-	9.57	0	-0.05%	-0.05%	-0.01%
2142 246202 05WARTON CC	138 246928 05WARTON H1	138 Z1	246202	05WARTON CC	246928	05WARTON H1	Z1	138	205 AEP	293	341	Base Case	0	-28	-	9.56	0	0.00%	0.00%	0.00%
2143 238516 02JOHNMANDEF	138 238785 02JOHNMAN-2	138 1	238516	02JOHNMANDEF	238785	02JOHNMAN-2	1	L 138	202 ATSI	216	264	Base Case	0	-20.6	-	9.54	0	0.00%	0.00%	0.00%
2144 238531 02ALLNJ	138 239345 02SIL_AE+	138 1	238531	02ALLNJ	239345	02SIL_AE+	1	L 138	202 ATSI	278	339	Base Case	0	26.5	-	9.53	0	0.05%	0.05%	0.00%
2145 238517 02LYONS	138 239345 02SIL_AE+	138 1	238517	02LYONS	239345	02SIL_AE+	1	L 138	202 ATSI	278	287	Base Case	0	-26.5	-	9.53	0	0.05%	0.05%	0.00%
2146 247800 05MACKSBURG	138 247801 05BUELL	138 1	247800	05MACKSBURG	247801	05BUELL	1	L 138	205 AEP	296	413	Base Case	0	-28.2	-	9.52	0	0.19%	0.19%	0.14%
2147 238867 02KPQ-12	138 238876 02LAQ-12	138 1	238867	02KPQ-12	238876	02LAQ-12	1	L 138	202 ATSI	355	434	Base Case	0	-33.8	-	9.52	0	0.00%	0.00%	0.00%
2148 238768 02GRNFLD	138 238981 02NASA	138 1	238768	02GRNFLD	238981	02NASA	1	L 138	202 ATSI	160	192	Base Case	0	15.2	-	9.51	0	-0.22%	-0.22%	-0.04%
2149 243671 05BEAVER CR1	138 243683 05CONSTP	138 1	243671	05BEAVER CR1	243683	05CONSTP	1	L 138	205 AEP	251	309	Base Case	0	23.8	-	9.5	0	0.04%	0.04%	0.04%
2150 243023 05HOCKNG	138 243149 05W.LANCAST1	138 1	243023	05HOCKNG	243149	05W.LANCAST1	1	L 138	205 AEP	196	247	Base Case	0	18.6	-	9.49	0	-0.01%	-0.01%	0.07%
2151 243683 05CONSTP	138 243875 05SOFTSH	138 1	243683	05CONSTP	243875	05SOFTSH	1	L 138	205 AEP	251	309	Base Case	0	23.8	-	9.48	0	0.04%	0.04%	0.04%
2152 243020 05HILLVI	138 243156 05W.NEW PHIL	138 1	243020	05HILLVI	243156	05W.NEW PHIL	1	L 138	205 AEP	277	277	Base Case	0	26.2	-	9.45	0	-0.42%	-0.43%	0.11%
2153 250068 08MPLKL1	138 250131 08WILEY2	138 1	250068	08MPLKL1	250131	08WILEY2	1	138	212 DE0&K	308	308	Base Case	0	-29	22	9.41	0	-0.01%	-0.01%	0.00%
2154 238506 02DTXTE	138 238832 02.JACKMA	138 1	238506	02DIXIE	238832	02JACKMA	1	138	202 ATST	235	288	Base Case	0	22.1		9.38	0	0.08%	0.08%	-0.01%
2155 242513 05CULLOD	765 242923 05GAVIN	765 1	242513	05CULLOD	242923	05GAVIN	1	765	205 AEP	4047	4571	Base Case	0	-379.2	-	9.37	0	0.76%	0.76%	-5.70%
2156 250094 08RMNTN1	138 250095 08RMNTN2	138 71	250004	08RMNTN1	250095	08RMNTN2	21	139	212 DEOAK	298	299	Base Case	0	-27 8	_	9.37	0	0.01%	0.01%	0.03%
2157 239215 02BDTCUT	138 239319 02CAMDEN	138 1	230034	02BRIGHT	230210	02CAMDEN	1	1 1 20	202 ATCT	200	250	Base Case	0	-27 /	122	9.33	0	0.01%	0.01%	-0.11%
2158 242537 053MOC	138 247013 05000VC	138 1	239213	05AMOS	233319	05CROOVC		1 120	202 4131	204	207	Base Case	0	27.4	-	9.32	0	0.06%	0.06%	0.02%
2150 242557 USAMUS	139 243600 050300000	130 I	242037	05POPIND	24/013	05UATET D		1 120	205 AEP	290	290	Base Case	0	-27 6		9.52	0	-0.00%	-0.00%	-0.02%
2159 242562 USBORLND	130 243090 USHATFLD	130 55	242562	U SBORLIND	243690	OCALLEN O	70	138	205 AEP	296	370	Dase Case	0	-2/.6	-	9.32	0	-0.04%	-0.04%	-0.00%
2100 238531 02ALLNJ	138 239344 02ALLEN-2	138 ZB	238531	UZALLNJ	239344	UZALLEN-2	ZB	138	202 ATSI	563	563	Base Case	0	-52.4	-	9.31	0	-0.01%	-0.01%	0.00%

A	B C	D	E	F	G	н і	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
2161 243123 05SWITZE 138 247757 05HERLAN SW 138 1	243123 05SWITZE	247757 0	5HERLAN SW	1	138	205 AEP	205	284	Base Case	0	19.1	-	9.31	0	0.14%	0.14%	-0.03%
2162 238893 02LF 0-2 138 238972 02MX 0-2 138 1	238893 02LE 0-2	238972 0	2MX 0-2	1	138	202 ATST	273	332	Base Case	0	25.4	-	9.3	0	-0.15%	-0.15%	0.04%
2163 238972 02MX 0-2 138 239020 02NW 0-2 138 1	238972 02MV 0-2	239020 0	12NW 0=2	1	138	202 ATST	273	332	Base Case	0	25.4	_	9.29	0	-0.15%	-0.15%	0.04%
2164 242666 06DIATNE 120 242642 06EDANKE 120 1	2435572 02HA Q 2	242642 0	EDDANKE	1	130	202 AISI	210	222	Dase Case	0	20.3		0.20	0	0.13%	0.13%	0.10%
2104 242555 05BLAINE 150 242045 05FRANKS 150 1	242333 03BLAINE	242045 0	SPRANKS	1	100	200 AEF	219	243	Dase Case	0	10.0	-	9.29	0	0.04%	0.04%	-0.1378
2105 239334 02HARMON 138 247700 031AGER 138 1	239334 02HARMON	2477000	5 GOLD	1	130	202/203 A131/AEP	200	1400	base case	0	-10.0		9.20	0	-0.03%	-0.03%	0.04%
2166 243457 USHAYDEN 345 244022 USCOLE 345 1	243457 USHAYDEN	244022 0	JSCOLE	1	345	205 AEP	1409	1409	Base Case	U	-130.5	-	9.26	0	-0.48%	-0.48%	-0.02%
2167 250091 08RCHLE3 138 250146 08WHITTR 138 1	250091 08RCHLE3	250146 0	8WHITTR	1	138	212 DEO&K	289	289	Base Case	0	-26.7	-	9.25	0	0.00%	0.00%	-0.03%
2168 238837 02JGSQ14 138 240247 02CK TP15 138 1	238837 02JGSQ14	240247 0	2CK TP15	1	138	202 ATSI	223	286	Base Case	0	20.5	-	9.21	0	-0.01%	-0.01%	0.01%
2169 243491 05CORRID 138 243513 05GENOA 138 1	243491 05CORRID	243513 0	5GENOA	1	138	205 AEP	338	407	Base Case	0	31.1	-	9.21	0	0.03%	0.03%	0.00%
2170 242805 05HATCHR 138 246898 05HALLSR 138 1	242805 05HATCHR	246898 0)5HALLSR	1	138	205 AEP	334	334	Base Case	0	-30.7	-	9.2	0	-0.20%	-0.20%	-0.37%
2171 242574 05CABIN CRK1 138 246409 05CABIN C T8 138 ZK	242574 05CABIN CRK1	246409 0	5CABIN C T8	ZK	138	205 AEP	369	369	Base Case	0	33.9	-	9.19	0	0.01%	0.01%	0.00%
2172 243141 05WARNER 138 246126 05SUNNYSIDE2 138 1	243141 05WARNER	246126 0	5SUNNYSIDE2	1	138	205 AEP	224	287	Base Case	0	-20.6	-	9.18	0	0.27%	0.27%	-0.04%
2173 241111 02ASHLAND 138 243024 05HOWARD 138 1	241111 02ASHLAND	243024 0	5HOWARD	1	138	202/205 ATSI/AEP	167	245	Base Case	0	-15.3	-	9.18	0	-0.29%	-0.29%	-0.02%
2174 243453 05BEATTY 345 253248 09SCHARL 345 1	243453 05BEATTY	253248 0	9SCHARL	1	345	205/209 AEP/DAY	1096	1203	Base Case	0	-100.4	-	9.16	0	-1.23%	-1.23%	-0.36%
2175 243485 05CLINTO 138 243486 05CLINTX 138 SR	243485 05CLINTO	243486 0	5CLINTX	SR	138	205 AEP	149	162	Base Case	0	13.6	-	9.14	0	0.03%	0.03%	0.01%
2176 245799 05WILLIAM PT 138 247128 05ASTNSS 138 Z1	245799 05WILLIAM PT	247128 0	5ASTNSS	Z1	138	205 AEP	219	255	Base Case	0	-20	-	9.13	0	0.00%	0.00%	0.00%
2177 245799 05WILLIAM PT 138 247128 05ASTNSS 138 72	245799 05WTLLTAM PT	247128 0	5ASTNSS	7.2	138	205 AEP	219	255	Base Case	0	-20	-	9.13	0	0.00%	0.00%	0.00%
2178 245799 05WILLIAM PT 138 247128 05ASTNSS 138 23	245799 05WILLIAM PT	247128 0	SASTNSS	73	138	205 AEP	219	255	Base Case	0	-20	-	9,13	0	0.00%	0.00%	0.00%
2179 242597 05CHNC 138 242598 05CHNC Z 138 1	242597 05CHNC	242598 0	SCHNC Z	1	138	205 AEP	136	167	Base Case	0	-12.4	_	9,13	0	-0.01%	-0.01%	-0.02%
2180 238836 02JGS013 138 240245 020K 013 139 1	238836 02 70013	240245 0	12CK 013	1	120	202 205	103	130	Base Case	0	Q /	_	a 11	0	0.00%	0.00%	0.00%
2181 240250 02000213 130 240243 0200 213 130 1	240259 02500213	210240	201 Q13	1	120	202 101	202	134	Page Case	0	20.4		2.11	0	0.10%	0.10%	0.01%
2192 242222 0E2 D2M 120 242224 0EV2CT DZ GROUTS 138 1	240200 02102-13	240201 0	EMACLEY	1	100	202 A151	303	434	Dase Case	0	22.3	-	9.1	0	0.10%	0.10%	0.01%
2102 243237 USADAM 138 243334 USMAGLEY 138 1	243237 05ADAM	243334 0	JOMAGLEI	1	138	205 AEP	257	359	Base Case	0	-23.4	_	9.09	0	0.00%	0.00%	-0.06%
2183 242989 05E LIMA 138 243017 05HAVILANDI 138 1	242989 05E LIMA	24301/0	5HAVILANDI	1	138	205 AEP	205	284	Base Case	0	-18.6	-	9.05	0	-0.17%	-0.17%	-0.06%
2184 243476 05BOLINSMLSS 138 247791 05ELK 138 1	243476 05BOLINSMLSS	247791 0)5ELK	1	138	205 AEP	323	355	Base Case	0	-29.2	-	9.03	0	-0.06%	-0.06%	0.07%
2185 243238 05AIRCO 138 247489 05BOSSERMAN 138 1	243238 05AIRCO	247489 0	5BOSSERMAN	1	138	205 AEP	251	335	Base Case	0	-22.7	-	9.03	0	0.00%	0.00%	0.00%
2186 243247 05AUBURN 138 243267 05COUNTY 138 1	243247 05AUBURN	243267 0	5COUNTY	1	138	205 AEP	323	392	Base Case	0	-29.1	-	9.02	0	0.02%	0.02%	0.02%
2187 242662 05HALES2 138 242804 05SOURWO 138 1	242662 05HALES2	242804 0	5SOURWO	1	138	205 AEP	223	223	Base Case	0	-20.1	-	9	0	0.07%	0.07%	-0.12%
2188 247799 05S.OLIVE SS 138 247800 05MACKSBURG 138 1	247799 05S.OLIVE SS	247800 0	5MACKSBURG	1	138	205 AEP	296	400	Base Case	0	-26.6	-	8.99	0	0.19%	0.19%	0.14%
2189 238828 02IVYQ11 138 240350 02IV-NB+17 138 1	238828 02IVYQ11	240350 0	2IV-NB+17	1	138	202 ATSI	273	332	Base Case	0	-24.5	-	8.98	0	-0.06%	-0.06%	0.02%
2190 239011 02NP Q-1 138 241921 02ELQ1 138 1	239011 02NP Q-1	241921 0	2ELQ1	1	138	202 ATSI	265	316	Base Case	0	-23.8	-	8.97	0	0.02%	0.02%	-0.01%
2191 243065 05NSTRAS 138 243092 05SCANTO 138 1	243065 05NSTRAS	243092 0	5SCANTO	1	138	205 AEP	296	296	Base Case	0	-26.5	-	8.96	0	0.48%	0.48%	-0.10%
2192 235104 01CABOT 500 239280 02CRNBRY 500 1	235104 01CABOT	239280 0	2CRNBRY	1	500	201/202 AP/ATSI	3300	3897	Base Case	0	294.9	-	8.94	0	10.53%	10.53%	-1.43%
2193 243668 05WOOTON 161 324148 5HYDEN 161 1	243668 05WOOTON	324148 5	HYDEN	1	161	205/363 AEP/LGEE	300	405	Base Case	0	-26.8		8.94	0	-0.10%	-0.10%	-0.09%
2194 243246 05AUBUNC 138 243295 05GARRETT N 138 1	243246 05AUBUNC	243295 0	GARRETT N	1	138	205 AEP	251	335	Base Case	0	22.4	-	8.93	0	0.05%	0.05%	0.03%
2195 243065 05NSTRAS 138 243114 05STRASB 138 1	243065 05NSTRAS	243114 0	5STRASB	1	138	205 AEP	287	299	Base Case	0	25.6	-	8.91	0	0.48%	0.48%	-0.10%
2196 250013 08DIMICK 138 250111 08TP5483 138 1	250013 08DTMTCK	250111 0	18TP5483	1	138	212 DEO&K	198	198	Base Case	0	17.6	-	8.88	0	-0.05%	-0.05%	-0.03%
2197 238860 02KTO-14 138 238933 02LVD014 138 1	238860 02KTO-14	238933 0	121.70014	1	138	202 ATST	273	332	Base Case	0	-24 2	-	8 88	0	0.13%	0.13%	-0.05%
2198 242657 05CRAVES 138 247887 05MCCONVILLE 138 1	242657 05GRAVES	247887 0	5MCCONVILLE	1	138	205 350	167	245	Base Case	0	-14.8	-	8.86	0	-0.02%	-0.02%	0.10%
2190 242007 00000 BV12 130 247007 050000 DV24 130 7	242007 000000000	2470070	SPOR DK34	7.7	120	200 ABI	046	0.06	Base Case	0	_02 7		0.00	0	0.02%	0.02%	0.07%
2200 243366 0500 ER12 138 245476 0500 ER34 138 20	243366 05000 PM12	2151760	15000 EN34	20 7 N	120	205 AEP	046	220	Base Case	0	- 82 7		0.00	0	-0.04%	-0.04%	-0.07%
2001 241026 201-122 DOT 245 241042 201 102 MATH 245 1	243300 USRUB PAIZ	2434/00	1-102 MAT	211N	138	200 AEP	940	0000	Dase Case	0	-03.1	-	0.05	0	-0.04%	-0.0470	-0.55%
2201 241930 AAI-123 PUI 345 241942 AAI-123 MAIN 345 1	241936 AAI-123_POI	241942 A	MAI-123 MAIN	1	345	ZUZ ATSI	9999	9999	base Case	0	-880.8	-	8.81	0	-0.55%	-0.55%	-0.55%
2202 242562 U5BORLND 138 242599 U5CINDER 138 1	242562 U5BORLND	242599 0	DOCINDER	1	138	205 AEP	261	330	Base Case	0	23	-	8.81	0	-0.04%	-0.04%	-0.08%
2205 238813 02HOYTDL 138 239281 02CRNBRY 138 1	238813 U2HOYTDL	239281 0	ZCRNBRY	1	138	202 ATSI	278	339	Base Case	0	-24.5	-	8.8	0	0.79%	0.79%	0.07%
2204 242813 05SRIDGE 138 242836 05TURNE1 138 1	242813 05SRIDGE	242836 0	J5TURNE1	1	138	205 AEP	729	729	Base Case	0	-63.9	-	8.77	0	-0.07%	-0.07%	-0.09%
2205 243106 05SOMERTON 138 243119 05SOMERTON Z 138 1	243106 05SOMERTON	243119 0	5SOMERTON Z	1	138	205 AEP	205	284	Base Case	0	-18	-	8.76	0	-0.06%	-0.06%	0.02%
2206 243120 05SUNNYSIDE1 138 246126 05SUNNYSIDE2 138 Z1	243120 05SUNNYSIDE1	246126 0	5SUNNYSIDE2	Z1	138	205 AEP	335	392	Base Case	0	29.2		8.72	0	0.22%	0.22%	-0.07%
2207 250062 08METRSR 138 250088 08QUNGT2 138 1	250062 08METRSR	250088 0	8QUNGT2	1	138	212 DEO&K	268	268	Base Case	0	23.4	-	8.72	0	-0.01%	-0.01%	-0.02%
2208 243217 05DEQUIN 345 246754 05FOWLER 345 1	243217 05DEQUIN	246754 0	5FOWLER	1	345	205 AEP	973	1100	Base Case	0	-84.4	-	8.67	0	-0.05%	-0.05%	-0.05%
2209 243030 05LIMAOR 138 243108 05STRLN1 138 1	243030 05LIMAOR	243108 0	5STRLN1	1	138	205 AEP	329	361	Base Case	0	28.5	-	8.65	0	0.09%	0.09%	0.12%
2210 242782 05RUTH 138 247022 05HERNSH 138 1	242782 05RUTH	247022 0	5HERNSH	1	138	205 AEP	729	729	Base Case	0	63	-	8.64	0	-0.09%	-0.09%	-0.17%
2211 246763 05PIPECK 138 246988 05STRWTN 138 1	246763 05PIPECK	246988 0	5STRWTN	1	138	205 AEP	257	360	Base Case	0	22.2	-	8.64	0	-0.03%	-0.03%	-0.05%
2212 247022 05HERNSH 138 247792 05FIELDS CRK 138 1	247022 05HERNSH	247792 0	5FIELDS CRK	1	138	205 AEP	729	729	Base Case	0	62.9	-	8.62	0	-0.09%	-0.09%	-0.17%
2213 245407 05TANNER CK2 138 245946 05MADISON2 138 1	245407 05TANNER CK2	245946 0	5MADISON2	1	138	205 AEP	187	223	Base Case	0	16.1		8.62	0	0.03%	0.03%	0.02%
2214 243320 05KANKAKEE2 138 244119 05GRAVEL PIT 138 1	243320 05KANKAKEE2	244119 0	SGRAVEL PIT	1	138	205 AEP	187	240	Base Case	0	-16.1	-	8.62	0	-0.08%	-0.08%	-0.05%
2215 250039 08HALL1 138 250040 08HALL2 138 71	250039 08HALL1	250040 0	8HALL2	Z1	138	212 DEO&K	406	454	Base Case	0	35	-	8.61	0	0.02%	0.02%	-0.02%
2216 247375 05BLUERACER8 138 247715 05BLUE RACER 138 71	247375 05BLUEBACER8	247715 0	5BLUE BACER	71	138	205 AEP	555	555	Base Case	0	-47.8	-	8,61	0	0.00%	0.00%	0.00%
2217 239014 02NS0-16 138 239331 02NASHRING 138 1	239014 02NSO-16	239331 0	2NASHRING	1	130	202 2751	278	330	Base Case	0	-23 0		8 50	0	0.09%	0.09%	-0.03%
2218 238768 02CDNFLD 138 238974 02N DEDT 129 1	238768 02CRNFLD	23897/ 0	12N DEDT	1	120	202 1101	200	240	Base Case	0	17 0		8 50	0	-0.24%	-0.24%	-0.04%
2210 230517 021 VONC 130 230712 02EAVET 130 1	239517 021 YONG	230314 0	OFAVET	1	120	202 1101	200	242	Page Case	0	10 2		0.09	0	0.24/0	0.05%	0.00%
2219/23001/ UZLIUNS 130 238/12 UZFAIET 138 1	25051/ U2LIUNS	230/12 0	DI ICO MATT	1	138	202 ATS1	224	200	Dase Case	0	19.2		8.39	0	0.05%	0.05%	0.00%
2220 2030 // 095TUART 345 253352 ABI-169 MAIN 345 1	2530// 09STUART	253352 A	ABI-103 MAIN	1	345	209 DAY	9999	9999	Base Case	0	-857.3	-	8.57	0	-0.55%	-0.55%	-0.55%

A	B C D	E	F	G	Н	I	J	К	Ĺ.	М	Ν	0	P Q	R	S	T U
2221 239036 02PERRY 345 239358 02GLENWILLOW 345 1	239036 02PERRY 23935	02GLENWILLOW	1	. 345	202	ATSI	1542	1878	Base Case	0	131.7	-	8.54 0	0.90%	0.90%	-0.39%
2222 242778 05RUM CK 138 242779 05RUMCKZ 138 1	242778 05RUM CK 24277	05RUMCKZ	1	138	205	AEP	205	251	Base Case	0	-17.5	-	8.54 0	0.00%	0.00%	0.00%
2223 242657 05GRAVES 138 246229 05REUSENS2 138 1	242657 05GRAVES 24622	05REUSENS2	1	. 138	205	AEP	167	245	Base Case	0	-14.2	-	8.51 0	0.02%	0.02%	-0.10%
2224 238656 02DB0-11 138 238701 02ER0-11 138 1	238656 02DBO-11 23870	1 02ERO-11	1	138	202	ATSI	273	332	Base Case	0	-23.2	-	8.51 0	0.00%	0.00%	0.00%
2225 242625 05DINGES 138 246923 05NEWSOM 138 1	242625 05DINGES 24692	3 05NEWSOM	1	138	205	AEP	251	335	Base Case	0	-21 3	-	8.5 0	-0.07%	-0.07%	-0.12%
2226 235340 01GBASSY 138 247822 050UINWOOD 138 1	235340 01GRASSY 24782	2 050UTNWOOD	1	138	201/205	AP/AEP	282	332	Base Case	0	-24	-	8.5 0	-0.27%	-0.27%	0.15%
2227 242211 05011 PN 245 242221 0500 PK 245 2	242211 0551 EN 24222	L OSQOINWOOD		245	201/205	AFD	971	071	Base Case	0	-02 5		0.5 0	0.21%	-0.41%	-0.19%
2227 243211 USALLEN 343 243231 USROB FR 343 2	243211 USALLEN 24323	DORUB FR	2	120	203	ABF	971	222	Base Case	0	-02.5		0.0	-0.41%	-0.41/0	-0.13%
2220 238525 02AD Q-4 138 241929 02AVQ3 138 1	238525 02AD Q-4 24192	9 UZAVQ3	1	. 138	202	ATSI	2/3	332	Base Case	0	-23.2	-	8.49 0	-0.03%	-0.03%	-0.03%
2229 243454 USBIXBY 345 243459 USKIRK 345 1	243454 USBIXBY 24345	JUSKIRK	1	. 345	205	AEP	1409	1409	Base Case	0	-119.3	-	8.46 0	1.32%	1.32%	0.01%
2230 243476 05BOLINSMLSS 138 244283 05MINERAL SS 138 1	243476 05BOLINSMLSS 24428	3 05MINERAL SS	1	138	205	AEP	323	361	Base Case	0	27.3	-	8.45 0	-0.06%	-0.06%	0.07%
2231 243211 05ALLEN 345 243231 05ROB PK 345 1	243211 05ALLEN 24323	1 05ROB PK	1	. 345	205	AEP	971	971	Base Case	0	-82.1	-	8.45 0	-0.41%	-0.41%	-0.18%
2232 238590 02BRWELL 138 238974 02N DEPT 138 1	238590 02BRWELL 23897	4 02N DEPT	1	. 138	202	ATSI	189	230	Base Case	0	-16	-	8.45 0	-0.24%	-0.24%	-0.04%
2233 242521 05NAGEL 500 360106 8SULLIVAN TN 500 1	242521 05NAGEL 36010	5 8SULLIVAN TN	1	. 500	205/347	AEP/TVA	2522	2522	Base Case	0	213.1	-	8.45 0	-0.51%	-0.51%	0.19%
2234 243515 05GORSCH 138 243564 05RIVERV N. 138 1	243515 05GORSCH 24356	4 05RIVERV N.	1	138	205	AEP	248	282	Base Case	0	20.9	-	8.42 0	-0.07%	-0.07%	-0.08%
2235 243515 05GORSCH 138 243521 05HARMRH 138 1	243515 05GORSCH 24352	1 05HARMRH	1	. 138	205	AEP	248	282	Base Case	0	-20.9	-	8.42 0	-0.07%	-0.07%	-0.08%
2236 242608 05CLYTR1 138 242666 05HAZELH 138 1	242608 05CLYTR1 24266	5 05HAZELH	1	. 138	205	AEP	167	240	Base Case	0	14.1	-	8.42 0	0.07%	0.07%	0.29%
2237 242537 05AMOS 138 246768 05LANHAM 138 1	242537 05AMOS 24676	05LANHAM	1	138	205	AEP	251	335	Base Case	0	21	-	8.39 0	0.00%	0.00%	0.00%
2238 243568 05SCIOTO 138 247221 05DUPT_N 138 1	243568 05SCIOTO 24722	1 05DUPT_N	1	138	205	AEP	150	191	Base Case	0	12.6	-	8.38 0	0.00%	0.00%	0.00%
2239 253021 09DARBY 138 253245 09EAGLE 138 1	253021 09DARBY 25324	5 09EAGLE	1	138	209	DAY	201	220	Base Case	0	16.8	-	8.38 0	0.10%	0.10%	0.03%
2240 239112 02LRCRQ1 138 239213 02AUSTQ1 138 1	239112 02LRCRQ1 23921	02AUSTQ1	1	138	202	ATSI	148	151	Base Case	0	12.4	-	8.37 0	-0.18%	-0.18%	0.04%
2241 239095 02SBRNQ1 138 239213 02AUSTQ1 138 1	239095 02SBRNQ1 23921	3 02AUSTQ1	1	138	202	ATSI	148	151	Base Case	0	-12.4	-	8.36 0	-0.18%	-0.18%	0.04%
2242 243091 05S.CALDWELL 138 247799 05S.OLIVE SS 138 1	243091 05S.CALDWELL 24779	9 05S.OLIVE SS	1	138	205	AEP	296	413	Base Case	0	-24.7	-	8.35 0	0.19%	0.19%	0.14%
2243 238823 02INQ-14 138 239324 02CH 138 1	238823 02INQ-14 23932	4 02CH	1	138	202	ATSI	273	332	Base Case	0	22.8	-	8.34 0	-0.15%	-0.15%	0.03%
2244 238808 02HML013 138 240261 02GMC013 138 1	238808 02HML013 24026	1 02GMCO13	1	138	202	ATSI	355	434	Base Case	0	-29.6	-	8.33 0	0.10%	0.10%	0.01%
2245 243261 05COLBYTAPSS 138 247745 05COLBY 138 1	243261 05COLBYTAPSS 24774	5 05COLBY	1	138	205	AEP	195	220	Base Case	0	16.2	-	8.32 0	0.00%	0.00%	0.00%
2246 242946 05TIDD 345 247130 05H0LLOW 345 1	242946 05TTDD 24713	0.5HOLLOW	1	345	205	AEP	971	971	Base Case	0	80.7	-	8.31 0	1.63%	1.63%	-0.52%
2247 243522 05HARRISON 138 247067 05GOODHR 138 1	243522 05HABRISON 24706	7 05GOODHP	1	138	205	AEP	296	413	Base Case	0	-24 6	-	8 31 0	0.04%	0.04%	0.05%
2248 239176 02W00D+ 138 239177 02W00DVI 138 1	239176 02WOOD+ 23917	7 0.2WOODVT	1	138	203	ATET	278	342	Base Case	0	23.0	-	8 26 0	-0.12%	-0.12%	-0.06%
2240 250020 0000000 130 250050 0000001 130 1	250020 08F08TFP 25005	O O O O O O O O O O O O O O O O O O O	1	120	202	DEOCK	270	200	Base Case	0	24 6	-	0.20 0	-0.01%	-0.01%	-0.02%
2249 230029 00F031EK 130 230039 00MAINVE 130 1	230025 00F031EK 23005	OOPETCH	1	120	202	ADCT	230	250	Base Case	0	17.0	_	0.24 0	-0.01%	-0.01%	-0.02%
2250 236510 0200HNMANDEF 130 230659 02DEFISW 130 1	238516 0230HNMANDEF 23865	S OZDEFISM	1	120	202	AIDI	210	204	Base Case	0	24.2		0.22 0	0.00%	0.00%	0.00%
2251 245025 051EBERN 150 247715 05BL0E RACER 150 1	243023 031EBERN 24771	O O O D D D D D D D D D D D D D D D D D	1	120	203	ALF	290	300	Base Case	0	-24.5		0.21 0	0.00%	0.00%	0.00%
2252 238542 02ASH_1 138 239055 02Q15TAP 138 1	238542 UZASH_1 23905	5 UZQISTAP	1	138	202	ATSI	329	399	Base Case	0	27	-	8.2 0	0.00%	0.00%	0.00%
2253 239290 02HAYES 138 240813 02GROTON 138 1	239290 02HAYES 24081	3 UZGROTON	1	. 138	202	ATSI	278	339	Base Case	0	-22.1	-	8.17 0	-0.19%	-0.19%	-0.03%
2254 238665 02DS Q-1 138 241237 02GROV TP 138 1	238665 02DS Q-1 24123	7 UZGROV TP	1	138	202	ATSI	278	339	Base Case	0	22.1	-	8.16 0	-0.22%	-0.22%	-0.02%
2255 244024 05SUMAC 138 247199 05AMLIN 138 Z1	244024 05SUMAC 24719	9 05AMLIN	ZI	138	205	AEP	/4/	747	Base Case	0	-60.9	-	8.15 0	0.00%	0.00%	0.00%
2256 244024 05SUMAC 138 247199 05AMLIN 138 Z2	244024 05SUMAC 24719	9 05AMLIN	Z2	138	205	AEP	747	747	Base Case	0	-60.9	-	8.15 0	0.00%	0.00%	0.00%
2257 238890 02LEMOYN 138 239176 02WOOD+ 138 1	238890 02LEMOYN 23917	5 02WOOD+	1	. 138	202	ATSI	282	347	Base Case	0	23	-	8.15 0	-0.12%	-0.12%	-0.06%
2258 244198 05LEMASTER 138 244283 05MINERAL SS 138 1	244198 05LEMASTER 24428	3 05MINERAL SS	1	. 138	205	AEP	323	451	Base Case	0	-26.3	-	8.13 0	-0.06%	-0.06%	0.07%
2259 247738 05BOONE 138 247792 05FIELDS CRK 138 1	247738 05BOONE 24779	2 05FIELDS CRK	1	138	205	AEP	296	413	Base Case	0	-24.1	-	8.13 0	0.01%	0.01%	0.00%
2260 243684 05DEWEY 138 243702 05THELMA 138 1	243684 05DEWEY 24370	2 05THELMA	1	138	205	AEP	223	223	Base Case	0	-18.1	-	8.12 0	-0.03%	-0.03%	-0.18%
2261 249984 08ASHLD8 138 250110 08CENTRL 138 1	249984 08ASHLD8 25011	08CENTRL	1	. 138	212	DEO&K	266	266	Base Case	0	-21.6	-	8.12 0	0.00%	0.00%	-0.01%
2262 238798 02HKQ-21 138 239307 02HARPERQ-21 138 1	238798 02HKQ-21 23930	7 02HARPERQ-21	1	. 138	202	ATSI	148	151	Base Case	0	12	-	8.1 0	0.02%	0.02%	-0.08%
2263 242950 05ACADEM 138 242955 05APPLE VLYZ 138 1	242950 05ACADEM 24295	5 05APPLE VLYZ	1	138	205	AEP	251	251	Base Case	0	20.3	-	8.1 0	-0.01%	-0.01%	0.10%
2264 243118 05SUMMER 138 247715 05BLUE RACER 138 1	243118 05SUMMER 24771	5 05BLUE RACER	1	138	205	AEP	293	341	Base Case	0	23.7	-	8.1 0	-0.03%	-0.03%	0.01%
2265 243336 05MANORZ 138 243351 05NORTHL 138 1	243336 05MANORZ 24335	1 05NORTHL	1	138	205	AEP	205	284	Base Case	0	16.6		8.1 0	-0.04%	-0.04%	-0.02%
2266 242594 05CHERCK 138 242747 05PEMBRT 138 1	242594 05CHERCK 24274	05PEMBRT	1	138	205	AEP	251	335	Base Case	0	-20.3	-	8.09 0	-0.04%	-0.04%	-0.12%
2267 246988 05STRWIN 138 246989 05WLD CS 138 1	246988 05STRWIN 24698	05WLD CS	1	138	205	AEP	257	360	Base Case	0	-20.7	-	8.07 0	-0.01%	-0.01%	-0.01%
2268 243850 05CENT33 138 243851 05CENTRM 138 1	243850 05CENT33 24385	1 05CENTRM	1	138	205	AEP	205	205	Base Case	0	16.5	-	8.06 0	0.00%	0.00%	0.00%
2269 238685 02EASTLK 138 241922 02ELQ2 138 1	238685 02EASTLK 24192	2 02ELQ2	1	. 138	202	ATSI	999	999	Base Case	0	80.2	-	8.02 0	0.07%	0.07%	-0.03%
2270 242656 05GRASSH 138 242826 05TANKHL 138 1	242656 05GRASSH 24282	5 05TANKHL	1	138	205	AEP	219	255	Base Case	0	17.6	-	8.02 0	0.00%	0.00%	0.00%
2271 242558 05BOLT 138 242559 05BOLT Z 138 1	242558 05BOLT 24255	9 05BOLT Z	1	138	205	AEP	219	251	Base Case	0	-17.5	-	8.01 0	-0.01%	-0.01%	-0.01%
2272 243568 05SCIOTO 138 247019 05NEVILLE SS 138 1	243568 05SCIOTO 24701	05NEVILLE SS	1	138	205	AEP	427	601	Base Case	0	-34.2	-	8 0	-0.02%	-0.02%	0.09%
2273 239936 02MCCLELLAND 345 241913 AA1-044 COL 345 1	239936 02MCCLELLAND 24191	3 AA1-044 COL	1	345	202	ATSI	9999	9999	Base Case	0	-799	22	7.99 0	-0.50%	-0.50%	-0.50%
2274 242808 05SPORNS 138 243852 05CENT27 138 1	242808 05SPORNS 24385	2 05CENT27	1	138	205	AEP	257	257	Base Case	ů.	20.5	-	7.98 0	0.00%	0.00%	0.00%
2275 242949 05WMTLLP 345 247741 05HYATT SW2 345 1	242949 05WMTLLP 24774	1 05HYATT SW2	1	345	205	AEP	971	1335	Base Case	0	77.5	-	7.98 0	0.35%	0.35%	0.19%
2276 243672 05BECKHA 138 243704 05VTCCO 138 1	243672 05BECKHA 24370	4 05VICCO	1	138	205	AEP	158	183	Base Case	0	12 6	-	7.97 0	0.09%	0.09%	0.05%
2277 243316 05TNDUST PK1 138 245511 05TNDUST PK2 138 71	243316 05TNDUST PK1 24551	1 OSTNDUST PK?	7.1	138	205	AEP	747	747	Base Case	0	59 5		7.96 0	0.00%	0.00%	0.08%
2278 245456 05NEWRERY 138 246354 05E LEIPSTO1 138 1	245456 05NEWBERY 24635	1 OSE LETPSTO	1	130	205	AEP	287	727	Base Case	0	-22 6	-	7.88 0	-0.06%	-0.06%	-0.10%
2279 238997 02NE0-16 138 241922 02EL02 139 1	238997 02NEO-16 24103	2 02EL02	1	130	200	ATST	278	330	Base Case	0	-21 0		7.88	-0.09%	-0.09%	0.03%
2280 242582 05CADWIZ 138 247008 05CIADWD 139 1	242592 05CADWI 7 24792	R OSCIARKE	1	120	202	AFD	234	324	Base Case	0	26.2		7.00 0	0.00%	0.00%	-0.30%
130 24/000 USCHARD 138 1	24700 24700	0 0 0 0 D D D D D D D D D D D D D D D D	1	130	200	17111	334	554	Lase Case	U	20.0		1.00	0.00%	0.0076	0.3070

	А			В	C	D	E	F	G	H I	J	K	L	М	N	0	Р	Q	R	S	T U
2281 243525 05HUNTLEY1	138 246370	05HUNTLEY2	138 Z1	243525	05HUNTLEY1	246370	05HUNTLEY2	Z1	138	205 AEP	586	683	Base Case	0	46.1	-	7.87	0	-0.01%	-0.01%	-0.02%
2282 243111 05STMARY	138 243152	2 05WMOULT	138 Z1	243111	05STMARY	243152	05WMOULT	Z1	138	205 AEP	223	223	Base Case	0	-17.5	-	7.86	0	0.00%	0.00%	0.00%
2283 243548 05MOUND	138 243876	5 05ST CXX	138 1	243548	0.5MOUND	243876	05ST CXX	1	138	205 AEP	131	173	Base Case	0	-10.3	-	7.83	0	0.05%	0.05%	-0.03%
2284 242716 05MTDKTE	138 242817	05STONBR	138 1	242716	05MTDKIE	242817	05STONBR	1	138	205 AEP	296	378	Base Case	0	23.1	-	7 81	0	-0.05%	-0.05%	-0 14%
2285 242579 05CARBMA	138 242836	5 05TURNE1	138 21	242579	05CARBMA	242836	05TURNE1		138	205 AEP	383	440	Base Case	0	-29.9	_	7 81	0	-0.01%	-0.01%	-0.01%
2286 238837 02 105014	138 238924	1 021 TEO14	138 1	232013	02 105014	232030	02175014	1	138	203 AEL	425	52	Base Case	0	-33.2	-	7.01	0	-0.01%	-0.01%	0.01%
2287 243251 05BTXIER	138 243252	05817197	138 1	2/3251	05BTVLED	2/3252	05BTVIPT	1	138	205 AFD	105	220	Base Case	0	-15.2	-	7.8	0	0.00%	0.01%	0.00%
2207 243231 03BIALER	130 243232	OSDIALKI	130 1	243231	OFKANABULAI	243232	OFFENCED	1	130	205 AEF	190	220	Dase Case	0	-13.2		7.0	0	0.00%	0.00%	0.00%
2200 242003 0 JAANAWHAT	120 242703) OSCENSED	100 1	242009	05KANAWHA1	242703	OFCUTERT	1	120	205 AEP	167	16"	7 Dase Case	0	12		7.0	0	-0.0470	-0.04%	-0.24%
2209 243039 05MELMOR	130 243110) OJSIIFFI	130 1	243039	0.0 EDOTNEL	243110	03511FF1	1	130	203 AEP	107	10	Base Case	0	-13	_	7.70	0	-0.08%	-0.08%	-0.01%
2290 238717 02-SPOINT+	138 240979	02DELAFOIL	138 1	238717	02-SPOINT+	240979	OZDELAFOIL	1	138	202 ATS1	288	353	Base case	0	22.3	-	7.74	0	0.00%	0.00%	0.00%
2291 243365 USRIVERSIDE1	138 245846	5 USRIVERSIDEZ	138 21	243365	USRIVERSIDEI	245846	USRIVERSIDEZ	21	138	205 AEP	187	202	Base Case	0	-14.5	-	1.13	0	0.03%	0.03%	0.02%
2292 242991 05E SIDE	138 243051	L USNDELPH	138 1	242991	USE SIDE	243051	USNDELPH	1	138	205 AEP	251	251	Base Case	0	-19.4	-	7.73	0	-0.15%	-0.15%	-0.07%
2293 23511/ UIKAMMER	500 242925	0 05KAMMER	765 I	235117	UIKAMMER	242925	05KAMMER	1	500/765	201/205 AP/AEP	2986	3/92	Base Case	0	-230.4	-	/./1	0	-7.41%	-7.41%	-3.37%
2294 238666 02DS Q-3	138 241935	5 02CLINTON	138 1	238666	02DS Q-3	241935	OZCLINTON	1	138	202 ATSI	278	335	Base Case	0	21.4	-	1.1	0	-0.22%	-0.22%	-0.02%
2295 243342 05MILAN	138 247168	3 05MICHN3	138 1	243342	05MILAN	247168	05MICHN3	1	138	205 AEP	104	104	Base Case	0	8	-	7.69	0	0.00%	0.00%	0.00%
2296 238570 02BEAVER	138 238981	02NASA	138 1	238570	02BEAVER	238981	02NASA	1	138	202 ATSI	160	192	2 Base Case	0	-12.3	-	7.69	0	-0.22%	-0.22%	-0.04%
2297 243523 05HCREAN	138 243547	05MORSE	138 1	243523	05HCREAN	243547	05MORSE	1	138	205 AEP	150	180) Base Case	0	11.5	-	7.69	0	0.05%	0.05%	0.01%
2298 240979 02DELAFOIL	138 240980) 02FIVEPOINT	138 1	240979	02DELAFOIL	240980	02FIVEPOINT	1	138	202 ATSI	288	353	Base Case	0	22.1	-	7.67	0	0.00%	0.00%	0.00%
2299 242669 05HOLST1	138 242670	05HOLST2	138 ZB	242669	05HOLST1	242670	05HOLST2	ZB	138	205 AEP	285	337	7 Base Case	0	21.8	-	7.63	0	-0.01%	-0.01%	-0.06%
2300 238996 02NEQ-15	138 241921	02ELQ1	138 1	238996	02NEQ-15	241921	02ELQ1	1	138	202 ATSI	273	332	Base Case	0	-20.8	-	7.61	0	-0.08%	-0.08%	0.02%
2301 242543 05AUSTIN	138 913030) Y1-006 TAP	138 1	242543	05AUSTIN	913030	Y1-006 TAP	1	138	205 AEP	219	251	Base Case	0	16.6		7.57	0	-0.02%	-0.02%	-0.06%
2302 243357 05PENDLETON1	138 243382	2 05TANNER CK1	138 1	243357	05PENDLETON1	243382	05TANNER CK1	1	138	205 AEP	213	223	Base Case	0	-16.1	-	7.56	0	0.03%	0.03%	0.02%
2303 242683 05J.EARL	138 913030) Y1-006 TAP	138 1	242683	05J.EARL	913030	Y1-006 TAP	1	138	205 AEP	219	251	Base Case	0	-16.6	-	7.56	0	-0.02%	-0.02%	-0.06%
2304 242596 05CHESTR	138 242813	3 05SRIDGE	138 1	242596	05CHESTR	242813	05SRIDGE	1	138	205 AEP	729	729	Base Case	0	-55	-	7.55	0	-0.07%	-0.07%	-0.09%
2305 242642 05FRANKLIN	138 242831	05THORNT	138 1	242642	05FRANKLIN	242831	05THORNT	1	138	205 AEP	150	204	Base Case	0	-11.3	-	7.55	0	-0.04%	-0.04%	0.19%
2306 242795 05SHARPL	138 247242	05CHAPSS	138 1	242795	05SHARPL	247242	05CHAPSS	1	138	205 AEP	296	378	Base Case	0	-22.3	-	7.54	0	0.00%	0.00%	0.00%
2307 247704 05PANDA RDSS	138 247730) 05PANDA RD	138 1	247704	05PANDA RDSS	247730	05PANDA RD	1	138	205 AEP	195	220	Base Case	0	14.7	-	7.54	0	0.00%	0.00%	0.00%
2308 238727 02WLBCT+	138 239194	1 02CALPH	138 1	238727	02WLBCT+	239194	02CALPH	1	138	202 ATSI	278	343	Base Case	0	20.9	-	7.53	0	0.03%	0.03%	-0.01%
2309 242613 05COLLEEN SS	138 244423	3 05JAMES RIVR	138 1	242613	05COLLEEN SS	244423	05JAMES RIVR	1	138	205 AEP	167	167	7 Base Case	0	12.6	-	7.52	0	-0.30%	-0.30%	-0.65%
2310 238889 02LEMOYN	345 242936	5 05FOSTOR	345 1	238889	02LEMOYN	242936	05FOSTOR	1	345	202/205 ATSI/AEP	1390	1390	Base Case	0	103.9		7.48	0	-0.06%	-0.06%	-0.76%
2311 243497 05DELANO	138 246123	3 05DELANO T1	138 Z1	243497	05DELANO	246123	05DELANO T1	Z1	138	205 AEP	161	186	Base Case	0	12	-	7.48	0	0.00%	0.00%	0.00%
2312 238729 02FORD B	138 238767	7 02GRFD T	138 1	238729	02FORD B	238767	02GRFD T	1	138	202 ATSI	160	192	2 Base Case	0	-11.9	-	7.45	0	0.00%	0.00%	0.00%
2313 249571 08REDBK1	345 249575	5 08TERMNL	345 1	249571	08REDBK1	249575	08TERMNL	1	345	212 DE0&K	1509	1509	Base Case	0	-112.4	-	7.45	0	-0.07%	-0.07%	-0.18%
2314 242821 05SUNDL2	138 247795	5 05LACEY BRCH	138 1	242821	05SUNDL2	247795	05LACEY BRCH	1	138	205 AEP	223	223	Base Case	0	-16.6	-	7.44	0	-0.03%	-0.03%	0.15%
2315 242590 05CENTER	138 242591	05CENTRR	138 Z1	242590	05CENTER	242591	05CENTRR	Z1	138	205 AEP	223	310) Base Case	0	-16.6	-	7.43	0	0.00%	0.00%	0.00%
2316 243471 05BETHEL	138 243535	5 05LINWRT	138 1	243471	05BETHEL	243535	05LINWRT	1	138	205 AEP	150	151	Base Case	0	11.1	-	7.43	0	-0.02%	-0.02%	-0.01%
2317 238944 02MASURY	138 239120	02SSPRNG	138 1	238944	02MASURY	239120	02SSPRNG	1	138	202 ATSI	128	165	Base Case	0	9.5		7.43	0	0.20%	0.20%	-0.02%
2318 238830 02IWQ-16	138 238842	2 02JNPR03	138 1	238830	02IW0-16	238842	02JNPR03	1	138	202 ATSI	273	332	Base Case	0	-20.2	-	7.41	0	0.02%	0.02%	0.00%
2319 243482 05CENTBG	138 243583	05TRENT	138 1	243482	05CENTBG	243583	05TRENT	1	138	205 AEP	285	338	Base Case	0	21	-	7.37	0	0.04%	0.04%	-0.01%
2320 238578 02BORDMN	138 239166	5 02WCKLIF	138 1	238578	02BORDMN	239166	02WCKLIF	1	138	202 ATSI	225	295	Base Case	0	16.6	-	7.37	0	0.09%	0.09%	0.03%
2321 238975 02N EAST	138 240240	02NEORSD	138 1	238975	02N EAST	240240	02NEORSD	1	138	202 ATSI	194	231	Base Case	0	14.3		7.35	0	-0.08%	-0.08%	0.02%
2322 242849 05W.KINGSPT1	138 244195	5 05HOLSTN ARM	138 Z1	242849	05W.KINGSPT1	244195	05HOLSTN ARM	Z1	138	205 AEP	109	133	Base Case	0	8		7.34	0	0.00%	0.00%	0.00%
2323 238500 02ALLEN-1	138 238531	02ALLNJ	138 ZB	238500	02ALLEN-1	238531	02ALLNJ	ZB	138	202 ATSI	563	56	Base Case	0	41.2	-	7.32	0	0.00%	0.00%	0.00%
2324 238822 02INO-11	138 238828	3 02IVY011	138 1	238822	02INO-11	238828	02IVY011	1	138	202 ATSI	376	465	Base Case	0	27.5	-	7.3	0	0.06%	0.06%	-0.02%
2325 238637 02CPP LS	138 238673	3 O2E IND	138 1	238637	02CPP LS	238673	02E IND	1	138	202 ATSI	194	2.31	Base Case	0	-14.1	-	7.29	0 0	0.07%	0.07%	0.00%
2326 242577 05CARB 8	138 242578	3 05CARB Z	138 1	242577	05CARB 8	242578	05CARB Z	1	138	205 AEP	164	180	Base Case	0	11.9		7.27	0	-0.01%	-0.01%	-0.01%
2327 243136 05W LTMA	138 243157	7 05WOODTA	138 1	243136	05W LIMA	243157	05WOODT.A	1	138	205 AEP	205	201	Base Case	0	-14.8	-	7.24	n	0.01%	0.01%	-0.06%
2328 238590 02BBWELL	138 238728	02FORD	138 1	238590	02BRWELL	238728	02FORD	1	138	202 ATST	189	230	Base Case	0	13.7	-	7.23	0	-0.24%	-0.24%	-0.04%
2329 242690 05KEENMT	138 247149	0.5WHITWD	138 1	242690	05KEENMT	247149	05WHITWD	1	138	205 AEP	251	335	Base Case	0	-18.1		7.23	n	0.00%	0.00%	0.00%
2330 238585 02BRIDGE	138 238825	02TVANHO	138 1	238585	02BRIDGE	238825	02TVANHO	1	138	202 2797	200	243	Base Case	0	14.4	_	7.25	0	-0.01%	-0.01%	0.00%
2331 243042 05MTLLBP DE1	138 243047	05N POPT	138 1	243040	05MTLLBR DK1	243047	05N PORT	1	130	205 250	105	100	Base Case	0	12 3	-	7 2	0	-0.02%	-0.02%	0.06%
2332 242601 05CLEARP	138 242774	1 05R0AN02	138 1	242601	05CLEARB	242774	05ROANO2	1	130	205 AEP	159	193	Base Case	0	11 /		7 1 9	0	-0.02%	-0.02%	-0.42%
2333 243025 05 TUNCTIN	138 242//4	0501.01195	138 1	242001	05.TUNCTN	242/14	05CLOUSE	1	120	205 200	167	165	Base Case	0	_12		7 10	0	0.07%	0.07%	-0.03%
2334 242654 05CPASCY	138 242600	05KEENMT	138 71	242654	05CRASCK	242600	OSKEENMT	71	120	205 AEF	251	70	Base Case	0	_10	_	7.17	0	0.00%	0.00%	0.00%
2325 242034 USGRASCA	130 242090	0.5MELMOD	130 1	242034	05CREENT	242090	05MELMOD		120	205 AEP	201	333	Pase Case	0	10 /	-	7.10	0	-0.01%	-0.01%	-0.07%
2336 250036 09CT NUM1	130 243039	0 OPELNUM	130 1	243013	0.9 CT NUPI	243039	09CI NUM2	71	120	200 AEF	237	500	Base Case	0	_26 0	-	7 13	0	-0.01%	-0.01%	0.01%
2330 230030 USGLINVWI	120 230037	0 OGLINVWZ	120 21	200036	05BENO 7	230037	05BENO	21 71	130	212 DEU&R	316	5/3	Dase Case	-	-30.0		7.13	0	-0.05%	-0.05%	0.01%
2337 243337 USKENU Z	24403/	O O SKENU	245 1	243337	O 2 A L EN	24403/	02FULTON	41 7	138	203 AEF	129	100	Dase Lase	-	107 0	-	7.11	U	-0.260/	0.00%	-0.08%
2330 230330 UZALLEN	120 239018	O2 1 CMCT	120 1	238530	02ALLEN	239018	02 1 cmcr	1	345	202 ATS1	151/	1863	Dase Case	-	101.8		7.1	0	-0.30%	-0.30%	-0.06%
2335 238523 UZCHRYTE	130 239227	UZ-ISTSL	130 1	238523	OF UNINE C	239227	02-1STSL	1	138	202 ATS1	288	348	Base Case		-20.3	-	7.04	0	-0.03%	-0.03%	0.01%
2340 243314 05HUNTR8	138 243326	USLAOTTO	138 1	243314	USHUNTR8	243326	USLAOTTO	1	138	205 AEP	251	335	Base Case	0	17.7	-	7.04	0	0.07%	0.07%	0.06%

		A		В	C	D	E	F	G	Н	1	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
2341 243042 05MILLBR PK1	138	245949 05MLBRPK ARG	138 Z1	243042	05MILLBR PK1	245949	05MLBRPK ARG	Z1	138	205	AEP	240	296	Base Case	0	-16.9		7.03	0	-0.06%	-0.06%	-0.03%
2342 249566 08FOSTER	345	249570 08P.UNON	345 1	249566	08FOSTER	249570	08P.UNON		1 345	212	DEO&K	1509	1509	Base Case	0	-105.9	-	7.02	0	-0.64%	-0.64%	-0.23%
2343 238749 02GATES	138	238971 02MUBBAY	138 1	238749	02GATES	238971	02MURRAY		1 138	202	ATST	196	210	Base Case	0	-13.7	-	6.99	0	-0.05%	-0.05%	-0.02%
2344 250099 085TMPSN	138	250102 08SOCIVI	138 1	250099	OSSIMPSN	250102	08SOCT VI		1 138	212	DEOEK	298	298	Base Case	0	20.8	-	6 99	0	0.05%	0.05%	0.03%
2345 243245 053NUTLY7	130	243370 05000000	130 1	2/32/5	05ANTHV7	2/3370	05000000	-	1 120	205	AFD	210	251	Base Case	0	15 2		6.95	0	0.07%	0.03%	0.05%
2246 242492 05 CRUERD	120	242015 0505747E0	120 1	243243	05CRUERD	243315	050TATES		1 120	205	AED	220	201	Base Case	0	22 6		6.93	0	0.01%	0.01%	0.03%
2340 243435 0JCRVERD	130	243915 USBERRIWOOD	130 1	243453	O SCRVERD	243913	OF THE BOAD		1 130	203	ADP	330	300	Base Case	0	23.3		6.94	0	-0.04/0	-0.04%	0.01%
2347 243139 05WAGENHALS2	130	244070 0530NE ROAD	136 1	243139	USWAGENHALSZ	244070	OSJUNE ROAD	-	1 130	205	ALP	335	392	Base Case	0	-23.1	-	6.91	0	0.11%	0.11%	0.02%
2348 240069 02LORDSTOWN	345	240074 02 22-028	345 1	240069	02LORDSTOWN	240074	02_22-028		1 345	202	ATSI	9999	9999	Base Case	0	-688.6	-	6.89	0	-0.43%	-0.43%	-0.43%
2349 2434/2 USBEXLEY	138	243592 USYEARLG	138 1	243472	USBEXLEY	243592	USYEARLG		1 138	205	AEP	164	180.	Base Case	0	-11.3	-	6.88	0	0.05%	0.05%	0.00%
2350 242564 05BRADL1	138	24/826 05MOLLYS CRK	138 1	242564	05BRADL1	247826	05MOLLYS CRK		1 138	205	AEP	136	167.	Base Case	0	9.4		6.88	0	-0.15%	-0.15%	0.17%
2351 242532 05NAGEL	230	304781 6CANERV230 T	230 1	242532	05NAGEL	304781	6CANERV230 T		1 230	205/341	AEP/CPLW	598	5981	Base Case	0	41.1	-	6.87	0	-0.21%	-0.21%	-1.32%
2352 242596 05CHESTR	138	245426 05BULLIT ST2	138 1	242596	05CHESTR	245426	05BULLIT ST2		1 138	205	AEP	296	413	Base Case	0	-20.3	-	6.86	0	-0.01%	-0.01%	-0.10%
2353 238728 02FORD	138	239738 020AKPOINT	138 1	238728	02FORD	239738	020AKPOINT		1 138	202	ATSI	200	242	Base Case	0	13.7	-	6.83	0	-0.24%	-0.24%	-0.04%
2354 243487 05CHK TAP Z	138	243528 05KARL ROAD	138 1	243487	05CHK TAP Z	243528	05KARL ROAD	1	1 138	205	AEP	338	338 1	Base Case	0	-23.1	-	6.83	0	0.07%	0.07%	0.02%
2355 243210 05SULLIVAN	765	247712 05SULLIVAN	345 1	243210	05SULLIVAN	247712	05SULLIVAN	1	1 765/345	205	AEP	1737	1737	Base Case	0	118.5	-	6.82	0	0.23%	0.23%	0.02%
2356 238783 02HARDIN	345	239334 02L.CENTER	345 1	238783	02HARDIN	239334	02L.CENTER		1 345	202	ATSI	1555	1793	Base Case	0	-105.8	-	6.8	0	0.82%	0.82%	-0.31%
2357 250010 08D.CRK2	138	250105 08TDHNTR	138 1	250010	08D.CRK2	250105	08TDHNTR		1 138	212	DEO&K	299	299	Base Case	0	-20.3	-	6.8	0	0.04%	0.04%	0.04%
2358 243070 050HIOCT	138	243076 05CONESPREPZ	138 1	243070	050HIOCT	243076	05CONESPREPZ		1 138	205	AEP	446	601	Base Case	0	30.1	-	6.75	0	0.18%	0.18%	-0.08%
2359 243212 05BENTON	345	243215 05COOK	345 1	243212	05BENTON	243215	05COOK		1 345	205	AEP	1409	1868	Base Case	0	95.1	-	6.75	0	0.46%	0.46%	-0.02%
2360 238812 02HOYTDL	345	238941 02MANSFD	345 1	238812	02HOYTDL	238941	02MANSFD		1 345	202	ATSI	1542	1878	Base Case	0	104	-	6.74	0	1.00%	1.00%	-0.24%
2361 242932 05CANTNC	345	242944 05SECANT	345 1	242932	05CANTNC	242944	05SECANT	1	1 345	205	AEP	1409	1409	Base Case	0	95	-	6.74	0	0.47%	0.47%	-0.50%
2362 238714 02FB Q-3	138	238741 02FWLSQ3	138 1	238714	02FB Q-3	238741	02FWLSQ3		1 138	202	ATSI	267	332	Base Case	0	-18	-	6.74	0	-0.18%	-0.18%	-0.01%
2363 238799 02HKQ-22	138	239049 02PV Q1	138 1	238799	02HKQ-22	239049	02PV Q1		1 138	202	ATSI	153	1991	Base Case	0	10.3	-	6.74	0	-0.03%	-0.03%	0.09%
2364 238914 02LRCR03	138	239057 02LRCR04	138 ZB	238914	02LRCR03	239057	02LRCR04	ZB	138	202	ATSI	2500	2500	Base Case	0	-168.1	-	6.72	0	0.07%	0.07%	-0.03%
2365 250022 08EVNDL1	138	250051 08KMPER2	138 1	250022	08EVNDL1	250051	08KMPER2		1 138	212	DEO&K	299	299	Base Case	0	-20.1	-	6.72	0	0.01%	0.01%	-0.02%
2366 242614 05COLLINY SS	138	247169 05COLLINV	138 21	242614	05COLLINV SS	247169	0.5COLLINV	7.1	138	205	AEP	158	180	Base Case	0	10.6	-	6.71	0	0.00%	0.00%	0.00%
2367 247150 05FARADAY	138	247153 05BEBWIN	138 1	247150	05FARADAY	247153	05BERWIN		1 138	205	AEP	296	413	Base Case	0	19.7	-	6.67	0	-0.05%	-0.05%	0.04%
2368 242946 05TIDD	345	242948 05WBELLA	345 1	242946	057700	242948	05WBELLA		1 345	205	AEP	971	1318	Base Case	0	-64 7	-	6 66	0	-1 44%	-1 45%	0.96%
2369 242955 05appie VIV7	138	243061 05NLEYTN	138 1	242955	05APPLE VIVZ	243061	05NLEYTN		1 138	205	AFD	205	205	Base Case	0	13 6	-	6.62	0	-0.01%	-0.01%	0.10%
2370 243152 05WMOULT	138	245994 05CEMINI	138 1	243152	05WMOULT	245994	05GEMINI		1 138	205	AFP	257	360	Base Case	0	-17	-	6.6	0	0.01%	0.01%	0.04%
2371 242759 05POPLAP	139	247013 05CROOKC	138 1	240102	05POPLAP	243334	05GENINI 05CROOKC		1 139	205	AFD	296	361	Base Case	0	-19 5	-	6 59	0	0.06%	0.06%	0.02%
2272 242709 05M FUNK	120	242852 OFMONTEM	120 1	242733	OSH FUNK	247013	OFMENTEM		1 120	205	AED	200	222	Base Case	0	-14 7		6.59	0	0.00%	0.11%	0.02%
2272 2320017 00M FONK	1 2 0	242852 03WSALEM	130 1	242700	OOM FONK	242032	OJWJALEM		1 130	203	ADF	223	223	Base Case	0	-14.7		0.58	0	0.11/0	0.11/0	0.23%
2373 239017 02NT Q10	100	241925 02ELQ5	130 1	239017	OZNI QIO	241925	02ELQ5		1 100	202	AISI	225	295	Base Case	0	-14.7	_	0.00	0	0.02%	0.02%	-0.01%
2374 243002 05FAIRCR	138	243097 05SECANT	138 1	243002	05FAIRCR	243097	OSSECANT	-	1 138	205	AEP	291	291	Base Case	0	-19.1	-	6.55	0	0.10%	0.10%	-0.05%
2373 239988 02FE-POLO	130	24/727 03POLO ROAD	138 1	239988	02FE-POLO	24//2/	03POLO ROAD		1 138	202/205	ATSI/AEP	219	200	Base Case	0	14.3	_	6.53	0	0.00%	0.00%	0.00%
2376 238806 02HMLQII	138	239032 02PDBQII	138 1	238806	02HMLQII	239032	02PDBQII		1 138	202	ATSI	355	434	Base Case	0	-23.2	-	6.53	0	0.19%	0.19%	0.02%
2377 243778 05TIMKEN B	138	246837 USTORREY BP	138 1	243778	05TIMKEN B	246837	05TORREY_BP		1 138	205	AEP	285	302	Base Case	0	-18.6	-	6.53	0	-0.07%	-0.07%	0.02%
2378 242790 05S.BUFFALO	138	246162 05S.BUF T1-4	138 Z4	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z4	138	205	AEP	158	183.	Base Case	0	10.3		6.51	0	0.00%	0.00%	0.00%
23/9 242790 05S.BUFFALO	138	246162 05S.BUF T1-4	138 Z3	242790	U5S.BUFFALO	246162	055.BUF T1-4	23	138	205	AEP	158	183	Base Case	0	10.3	-	6.51	0	0.00%	0.00%	0.00%
2380 242790 05S.BUFFALO	138	246162 05S.BUF T1-4	138 Z1	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z1	138	205	AEP	158	183	Base Case	0	10.3	-	6.51	0	0.00%	0.00%	0.00%
2381 242790 05S.BUFFALO	138	246162 05S.BUF T1-4	138 Z2	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z2	138	205	AEP	158	183	Base Case	0	10.3	-	6.51	0	0.00%	0.00%	0.00%
2382 238632 02COLLIN	138	238638 02CPP NH	138 1	238632	02COLLIN	238638	02CPP NH	1	1 138	202	ATSI	194	237 1	Base Case	0	-12.6	-	6.51	0	0.08%	0.08%	-0.02%
2383 238764 02GRANGR	138	239125 02STONEY	138 1	238764	02GRANGR	239125	02STONEY		1 138	202	ATSI	233	282	Base Case	0	-15.1	-	6.5	0	-0.13%	-0.13%	-0.01%
2384 243024 05HOWARD	138	243101 05SHELNS	138 1	243024	05HOWARD	243101	05SHELNS		1 138	205	AEP	93	93 1	Base Case	0	6	-	6.49	0	0.00%	0.00%	0.00%
2385 243474 05BLACKL	138	246765 050UTERB	138 1	243474	05BLACKL	246765	050UTERB	1	1 138	205	AEP	223	310	Base Case	0	14.5		6.49	0	0.02%	0.02%	0.00%
2386 243776 05s.TIMK	138	246837 05TORREY_BP	138 1	243776	05S.TIMK	246837	05TORREY_BP	1	1 138	205	AEP	287	337 1	Base Case	0	18.6	-	6.48	0	-0.07%	-0.07%	0.02%
2387 243275 05DELAWR1	138	243387 05VANBUR	138 1	243275	05DELAWR1	243387	05VANBUR		1 138	205	AEP	136	167	Base Case	0	8.8	-	6.46	0	0.00%	0.00%	0.05%
2388 247894 05E.ELKHA BP	345	256509 18WEEDLK	345 1	247894	05E.ELKHA BP	256509	18WEEDLK	1	1 345	205/218	AEP/METC	1407	1407	Base Case	0	-90.9	-	6.46	0	0.22%	0.22%	-0.18%
2389 242686 05JEHU BR SS	138	247557 05MABSCOTT	138 1	242686	05JEHU BR SS	247557	05MABSCOTT	1	1 138	205	AEP	158	183	Base Case	0	-10.2	200	6.45	0	-0.03%	-0.03%	0.07%
2390 253074 09STATAP	138	253139 09ELDEAN	138 1	253074	09STATAP	253139	09ELDEAN		1 138	209	DAY	197	269	Base Case	0	12.7	-	6.45	0	-0.01%	-0.01%	0.02%
2391 243234 05TWIN B	345	256000 18ARGNTA	345 1	243234	05TWIN B	256000	18ARGNTA	1	1 345	205/218	AEP/METC	1374	1409	Base Case	0	88.5	-	6.44	0	-0.45%	-0.45%	-0.01%
2392 247894 05E.ELKHA BP	345	255105 17HIPLE	345 1	247894	05E.ELKHA BP	255105	17HIPLE		1 345	205/217	AEP/NIPS	1409	1409	Base Case	0	90.7	-	6.44	0	0.22%	0.22%	-0.18%
2393 242808 05SPORNS	138	243850 05CENT33	138 3	242808	05SPORNS	243850	05CENT33		3 138	205	AEP	257	257	Base Case	0	16.5	12	6.44	0	0.00%	0.00%	0.00%
2394 242703 05LEON A	138	242808 05SPORNS	138 1	242703	05LEON A	242808	05SPORNS		1 138	205	AEP	296	296	Base Case	0	-18.9	-	6.4	0	-0.03%	-0.03%	-0.19%
2395 242650 05GLENL1	138	242694 05KIMBAL	138 1	242650	05GLENL1	242694	05KIMBAL		1 138	205	AEP	205	205	Base Case	0	13.1	-	6.4	0	-0.12%	-0.12%	-0.27%
2396 238857 02KHTPQ1	138	238862 02KL Q-1	138 1	238857	02KHTPQ1	238862	02KL Q-1		1 138	202	ATSI	273	332	Base Case	0	17.5	-	6.39	0	0.00%	0.00%	0.00%
2397 243248 05BARODA	138	246996 05PLETCH	138 1	243248	05BARODA	246996	05PLETCH		1 138	205	AEP	205	205	Base Case	0	13.1		6.38	0	0.06%	0.06%	0.02%
2398 247370 05MUSKNG1A	138	247371 05MUSKNG1B	138 Z1	247370	05MUSKNG1A	247371	05MUSKNG1B	Z1	138	205	AEP	766	898	Base Case	0	48.7	-	6.36	0	-0.02%	-0.02%	0.11%
2399 243241 05ALBION	138	255164 17NORTHPORT	138 1	243241	05ALBION	255164	17NORTHPORT		1 138	205/217	AEP/NIPS	148	181	Base Case	0	-9.4	-	6.34	0	-0.04%	-0.04%	-0.04%
2400 243265 05COREY	138	243346 0.5MOTTV	138 1	243265	05COREY	243346	0.5MOTTV		1 138	205	AEP	185	185	Base Case	0	-11 7	-	6 32	0	0.02%	0.02%	0.03%
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	А			В	С	D	E	F	G	н і	J	К	L	М	N	0	Р	Q	R	S	T U
2401 242750 05PHILPOTT Z	138 247723 0	5PHILPOTT	138 1	242750	05PHILPOTT Z	247723	05PHILPOTT	1	138	205 AEP	101	145	Base Case	0	-6.4	-	6.33	0	0.00%	0.00%	0.00%
2402 242811 05SPRING	138 247819 0	5S.ABINGDN1	138 1	242811	05SPRING	247819	05s.ABINGDN1	1	138	205 AEP	167	240	Base Case	0	-10.5	-	6.32	0	0.00%	0.00%	-0.14%
2403 242733 05NEWHOP	138 242786 0	5S.PRINCETN	138 1	242733	05NEWHOP	242786	05S.PRINCETN	1	138	205 AEP	334	334	Base Case	0	21.1	-	6.3	0	-0.11%	-0.11%	-0.29%
2404 250022 08EVNDL1	138 250023 0	8EVNDL2	138 Z1	250022	08EVNDL1	250023	08EVNDL2	Z1	138	212 DEO&K	498	498	Base Case	0	-31.3	-	6.29	0	-0.01%	-0.01%	0.02%
2405 242988 05D0GW00	138 243042 0	5MTLLBR PK1	138 1	242988	05006000	243042	05MILLBR PK1	1	138	205 AEP	136	167	Base Case	0	8.5		6.28	0	0.05%	0.05%	0.13%
2406 238632 02COLLIN	138 240240 0	2NEORSD	138 1	238632	02COLLIN	240240	02NEORSD	1	138	202 ATST	194	237	Base Case	0	-12.2	-	6.27	0	-0.08%	-0.08%	0.02%
2407 242651 05GLENL2	138 242805 0	SHATCHR	138 1	242651	05GLENI2	242805	05HATCHB	1	138	205 AEP	334	334	Base Case	0	-20.9	_	6.27	0	-0.20%	-0.20%	-0.37%
2408 243509 05FISHPD	138 243587 0	SWILSNZ	138 1	243500	OSETSHED	243587	05WTLSNZ	1	138	205 AEP	223	310	Base Case	0	=1.4	-	6.26	0	-0.04%	-0.04%	0.00%
2400 243114 050TDACE	130 243135 0	ISW DOVE	130 1	243303	05CTDACD	243307	05W DOVE	1	120	205 AEP	225	335	Base Case	0	19		6.26	0	0.04%	0.04%	-0.10%
2409 243114 0331RASB	130 243133 0	EDIGUNO	130 1	243114	0500LLECE C	243133	OSW DOVE	1	130	205 AEP	207	107	Dase Case	0	10.2	-	6.20	0	0.46%	0.46%	-0.10%
2410 243262 03COLLEGE C	130 243304 0	SRICHMO	100 1	243202	OSCOLLEGE C	243304	OSRICHMO	1	130	205 AEF	107	107	base case	0	-10.3		6.25	0	-0.00%	-0.00%	-0.03%
2411 243241 USALBION	138 243288 0	ISEGE	138 1	243241	USALBION	243288	USEGE	1	138	205 AEP	187	202	Base Case	0	-11.7	-	6.24	0	0.07%	0.07%	0.06%
2412 243147 05WILDCRK SS	138 244566 0	ISLA RUE	138 1	243147	05WILDCRK SS	244566	USLA RUE	1	138	205 AEP	185	185	Base Case	0	11.5	-	6.23	0	-0.10%	-0.10%	-0.04%
2413 242759 05POPLAR	138 244192 0	5BALLS GAP	138 1	242759	05POPLAR	244192	05BALLS GAP	1	138	205 AEP	167	167	Base Case	0	10.4	-	6.23	0	0.06%	0.06%	0.02%
2414 242565 05BRADL2	138 242618 0	5DAMERN	138 1	242565	05BRADL2	242618	05DAMERN	1	138	205 AEP	195	220	Base Case	0	12.1	-	6.22	0	0.01%	0.01%	0.01%
2415 242800 05SISSON	138 246768 0	5LANHAM	138 1	242800	05SISSON	246768	05LANHAM	1	138	205 AEP	251	330	Base Case	0	-15.6	-	6.21	0	0.00%	0.00%	0.00%
2416 243016 05HANTHR	138 243768 0	5GOE	138 1	243016	05HANTHR	243768	05GOE	1	138	205 AEP	205	205	Base Case	0	12.7	-	6.19	0	0.00%	0.00%	0.00%
2417 239193 02CONAGR	138 239194 0	2CALPH	138 1	239193	02CONAGR	239194	02CALPH	1	138	202 ATSI	278	343	Base Case	0	-17.2		6.19	0	0.03%	0.03%	-0.01%
2418 239192 02WALGRN	138 239193 0	2CONAGR	138 1	239192	02WALGRN	239193	02CONAGR	1	138	202 ATSI	278	343	Base Case	0	-17.2	-	6.19	0	0.03%	0.03%	-0.01%
2419 242963 05HEDDSS	138 243153 0	5WMTVER	138 1	242963	05HEDDSS	243153	05WMTVER	1	138	205 AEP	220	255	Base Case	0	-13.6	-	6.18	0	0.10%	0.10%	0.06%
2420 247151 05YUKON	138 247153 0	5BERWIN	138 1	247151	05YUKON	247153	05BERWIN	1	138	205 AEP	296	413	Base Case	0	-18.3	-	6.17	0	-0.05%	-0.05%	0.04%
2421 243568 05SCIOTO	138 243569 0	5SCIPPO	138 1	243568	05SCIOTO	243569	05SCIPPO	1	138	205 AEP	246	246	Base Case	0	15.2	-	6.17	0	-0.02%	-0.02%	0.09%
2422 243209 05ROCKPT	765 243210 0	5SULLIVAN	765 1	243209	05ROCKPT	243210	05SULLIVAN	1	765	205 AEP	3859	3859	Base Case	0	237.2	-	6.15	0	0.46%	0.46%	0.03%
2423 243076 05CONESPREPZ	138 243488 0	5CONESVILLE	138 1	243076	05CONESPREPZ	243488	05CONESVILLE	1	138	205 AEP	446	601	Base Case	0	27.4	-	6.13	0	0.18%	0.18%	-0.08%
2424 238813 02HOYTDL	138 238942 0	2MAPLE	138 1	238813	02HOYTDL	238942	02MAPLE	1	138	202 ATSI	278	339	Base Case	0	17	-	6.11	0	-1.06%	-1.06%	-0.05%
2425 243265 05COREY	138 243299 0	5HYDRAMATIC	138 1	243265	05COREY	243299	05HYDRAMATIC	1	138	205 AEP	251	251	Base Case	0	15.3	-	6.08	0	0.01%	0.01%	0.01%
2426 242611 05COALFK	138 242828 0	5TENMIL	138 1	242611	05COALFK	242828	05TENMIL	1	138	205 AEP	219	223	Base Case	0	13.3	-	6.08	0	0.03%	0.03%	-0.15%
2427 243270 05CROSSS	138 247420 0	SCROSS ST Z	138 1	243270	05CROSSS	247420	05CROSS ST Z	1	138	205 AEP	164	180	Base Case	0	-10	-	6.07	0	0.00%	0.00%	0.00%
2428 243502 05E, BROAD	138 246765 0	50UTERB	138 1	243502	05E.BROAD	246765	050UTERB	1	138	205 AEP	240	309	Base Case	0	-14.5	-	6.03	0	0.02%	0.02%	0.00%
2429 246220 05SWITCHB BP	138 247029 0	5HORSPN	138 1	246220	05SWITCHB BP	247029	05HORSPN	1	138	205 AEP	295	295	Base Case	0	17.8		6.03	0	0.00%	0.00%	-0.30%
2430 246220 05SWITCHB BP	138 247008 0	SCLARKB	138 1	246220	05SWITCHB BP	247008	05CLARKB	1	138	205 AEP	295	295	Base Case	0	-17.8	-	6.03	0	0.00%	0.00%	-0.30%
2431 238544 022SH 3	138 238692 0	2ASH FAST	138 1	238544	0225H 3	238692	02ASH EAST	1	138	202 2051	273	338	Base Case	0	16.5	_	6.03	0	0.00%	0.00%	0.00%
2432 242692 05KEVWOD	138 242693 0	SKEVW99	138 1	242692	05KEVWOD	242693	OSKEVWSS	1	138	205 AFP	158	180	Base Case	0	-9.5	-	6.05	0	0.00%	0.00%	0.00%
2432 242110 0500MEDTON 7	130 242055 0	SUPDIAN ON	120 1	242052	05 COMEDTON 7	242055	OSHEDIAN ON	1	120	205 AEP	205	201	Dase Case	0	12.3	-	6	0	0.18%	0.00%	-0.05%
2435 245115 0530MERION 2	130 230032 0	OREKLAN SW	100 1	243113	0350MERION 2	24//3/	03PPP011	1	120	203 AEr	205	204 E00	Base Case	0	12.5		E 00	0	0.10%	0.10%	-0.03%
2434 238732 02FOAQII	130 239032 0	2PDBQII	120 1	230732	02FUAQII	239032	OZPOBULI	1	130	202 AISI	420	322	Base Case	0	23.3		5.99	0	0.15%	0.19%	0.02%
2435 239078 02RIAN	138 239158 0	ZW.MED	130 1	239078	02RIAN	239138	OZW.MED	1	138	202 ATS1	233	282	Base Case	0	-13.9	-	5.98	0	-0.05%	-0.05%	-0.04%
2436 243339 05MEADOW	138 243357 0	5PENDLETON1	138 1	243339	05MEADOW	243357	05PENDLETONI	1	138	205 AEP	185	185	Base Case	0	-11.1	-	5.98	0	-0.01%	-0.01%	-0.01%
2437 242608 05CLYTR1	138 242610 0	ISCLYTR3	138 Z1	242608	05CLYTR1	242610	05CLYTR3	Z1	138	205 AEP	329	361	Base Case	0	19.6	-	5.97	0	0.04%	0.04%	-0.20%
2438 253044 09MECHAN	138 253245 0	9EAGLE	138 1	253044	09MECHAN	253245	09EAGLE	1	138	209 DAY	221	272	Base Case	0	-13.2		5.95	0	0.10%	0.10%	0.03%
2439 242937 05KAMMER	345 247832 0	5LAMPING	345 1	242937	05KAMMER	247832	05LAMPING	1	345	205 AEP	971	971	Base Case	0	57.7	-	5.94	0	1.51%	1.51%	-0.21%
2440 238913 02LRCRQ2	138 239112 0	2LRCRQ1	138 ZB	238913	02LRCRQ2	239112	02LRCRQ1	ZB	138	202 ATSI	2500	2500	Base Case	0	-148.4	-	5.94	0	0.06%	0.06%	-0.03%
2441 238712 02FAYET	138 239351 0	2EASTFAYT	138 1	238712	02FAYET	239351	02EASTFAYT	1	138	202 ATSI	221	262	Base Case	0	13.1	-	5.93	0	0.05%	0.05%	0.00%
2442 238525 02AD Q-4	138 238916 0	2LRN Q4	138 1	238525	02AD Q-4	238916	02LRN Q4	1	138	202 ATSI	176	229	Base Case	0	10.4	-	5.93	0	-0.03%	-0.03%	-0.03%
2443 250102 08SOCLVL	138 250111 0	8TP5483	138 1	250102	08SOCLVL	250111	08TP5483	1	138	212 DEO&K	298	298	Base Case	0	-17.6	-	5.9	0	-0.05%	-0.05%	-0.03%
2444 247000 05YELLOW CK1	138 247001 0	5YELLOW CK2	138 Z1	247000	05YELLOW CK1	247001	05YELLOW CK2	Z1	138	205 AEP	747	747	Base Case	0	44.1	-	5.9	0	0.06%	0.06%	0.10%
2445 243289 05ELCONA	138 243290 0	5ELCONZ	138 1	243289	05ELCONA	243290	05ELCONZ	1	138	205 AEP	251	335	Base Case	0	-14.8	<u></u>	5.9	0	0.00%	0.00%	0.00%
2446 238652 02DARROW	138 238814 0	2HUDMUN	138 1	238652	02DARROW	238814	02HUDMUN	1	138	202 ATSI	190	225	Base Case	0	-11.2	-	5.9	0	-0.02%	-0.02%	-0.03%
2447 243259 05CNTRVL	138 243344 0	5MODOC	138 1	243259	05CNTRVL	243344	05MODOC	1	138	205 AEP	185	185	Base Case	0	-10.9	-	5.87	0	-0.03%	-0.03%	-0.03%
2448 238703 02ESPRNG	138 239278 0	2BRDVIE	138 1	238703	02ESPRNG	239278	02BRDVIE	1	138	202 ATSI	160	192	Base Case	0	-9.4	-	5.87	0	-0.04%	-0.04%	-0.02%
2449 238716 02FIRSTN	138 239083 0	2SAKRON	138 1	238716	02FIRSTN	239083	02SAKRON	1	138	202 ATSI	196	210	Base Case	0	-11.4	-	5.84	0	0.06%	0.06%	0.06%
2450 239013 02NSQ-15	138 239331 0	2NASHRING	138 1	239013	02NSQ-15	239331	02NASHRING	1	138	202 ATSI	273	332	Base Case	0	-15.9		5.83	0	0.08%	0.08%	-0.02%
2451 242577 05CARB 8	138 242579 0	5CARBMA	138 1	242577	05CARB 8	242579	05CARBMA	1	138	205 AEP	205	205	Base Case	0	-11.9	-	5.82	0	-0.01%	-0.01%	-0.01%
2452 247150 05FARADAY	138 247160 0	5BEARWA	138 1	247150	05FARADAY	247160	05BEARWA	1	138	205 AEP	296	413	Base Case	0	17.2	-	5.81	0	0.02%	0.02%	0.01%
2453 242561 05BOONSBORD	138 242641 0	5FOREST	138 1	242561	05BOONSBORO	242641	05FOREST	1	138	205 AEP	167	240	Base Case	0	-9.7	-	5.81	0	-0.01%	-0.01%	0.51%
2454 238619 02CT. 011	138 240346 0	2GROVWD011	138 27.	238610	02CT 011	240346	02GROVWDO11	21.	138	202 ATST	273	530	Base Case	0	-15.8	_	5.01	0	0.00%	0.00%	0.00%
2455 242599 05CINDER	138 242810 0	ISSPRIG2	138 1	242599	05CINDER	242810	05SPRIG2	1	138	205 AEP	296	369	Base Case	0	17.2	-	5.0	0	-0.04%	-0.04%	-0.08%
2456 243259 05CNTRVI	138 243262 0	SCOLLEGE C	138 1	243250	05CNTRVL	243262	05COLLEGE C	1	130	205 AEP	185	185	Base Case	0	10 7		5 70	0	-0.05%	-0.05%	-0.04%
2457 245476 05000 DV24	138 243202 0	SDUNTONT AVE	138 2	243239	OSDOR DE 24	243202	OSDUNTONI APP	1	120	205 AEP	202	LOJ VE1	Base Case	0	10.7		5.79	0	0.03%	0.03%	0.04%
2458 243219 05KUB PK34	24//90 0	5500FNC	245 0	2434/0	05RUD PR34	241190	05000010NLAKE	2	245	205 AEP	323	431	Dase Case	0	10./	_	5.76	0	0.02%	0.02%	0.03%
2430 243218 USDESUTU	345 243232 0	JOSUKENS	343 Z	243218	USDESUTO	243232	UDSURENS	2	345	205 AEP	971	971	base Case	0	56	-	5.76	U	0.03%	0.03%	0.39%
2459 242/03 05LEON A	138 242790 0	55.BUFFALO	138 1	242703	USLEON A	242790	UDS.BUFFALO		138	205 AEP	296	296	Base Case	0	-17.1	-	5.76	0	0.04%	0.04%	0.21%
240U 243287 05E.ELKHART	138 247541 0	50SOLO2	138 1	243287	USE.ELKHART	247541	U5OSOLO2	1	138	205 AEP	205	284	Base Case	0	11.8	-	5.75	0	0.04%	0.04%	0.02%

	A		В	C	D	E	F	G	H I	J	К	L	М	N	0	Р	Q	R	S	T U
2461 238959 02MFLDQ4	138 238973 02MX Q-4	138 1	238959	02MFLDQ4	238973 0	2MX Q-4	1	138	202 ATSI	265	316	Base Case	0	-15.2	-	5.74	0	-0.14%	-0.14%	0.05%
2462 238960 02MIDW K	138 239165 02WAUSEO	138 1	238960	02MIDW K	239165 0	2WAUSEO	1	138	202 ATSI	158	190	Base Case	0	9.1	-	5.74	0	0.08%	0.08%	0.01%
2463 239192 02WALGRN	138 240988 02SHELBY FS+	138 1	239192	2 02WALGRN	240988 0	2SHELBY FS+	1	138	202 ATSI	278	343	Base Case	0	16	-	5.74	0	0.03%	0.03%	-0.01%
2464 238720 02FMCQ13	138 238726 02FMQ13H	138 1	238720	02FMCQ13	238726 0	2FMQ13H	1	138	202 ATSI	103	133	Base Case	0	5.9	-	5.73	0	0.00%	0.00%	0.00%
2465 243918 05ELDERBERRY	345 244130 05ST.JOE CTR	345 1	243918	05ELDERBERRY	244130 0	5ST.JOE CTR	1	345	205 AEP	9999	9999	Base Case	0	-570.2	-	5.7	0	-0.36%	-0.36%	-0.36%
2466 243243 05ANDCT	138 249781 08LAPLJT	138 1	243243	3 05ANDCT	249781 C	8LAPLJT	1	138	205/208 AEP/DEI	136	143	Base Case	0	7.7	-	5.69	0	-0.01%	-0.01%	-0.02%
2467 239935 02MARKWEST	138 239943 02MKWEST2	138 1	239935	02MARKWEST	239943 0	2MKWEST2	1	138	202 ATSI	312	380	Base Case	0	-17.7	-	5.66	0	-0.68%	-0.68%	0.05%
2468 243073 05PATRT8	138 246273 05THIVENR SS	138 1	243073	05PATRT8	246273 0	5THIVENR SS	1	138	205 AEP	95	95	Base Case	0	-5.4	-	5.66	0	0.00%	0.00%	0.00%
2469 249992 08CDRVL1	138 250137 080BANNV	138 1	249992	2 08CDRVL1	250137 0	80BANNV	1	138	212 DEO&K	291	291	Base Case	0	16.5		5.66	0	0.03%	0.03%	0.03%
2470 243458 05HYATT	345 247741 05HYATT SW2	345 72	243458	3 05HYATT	247741 0	5HYATT SW2	7.2	345	205 AEP	1370	1503	Base Case	0	-77.5	-	5.66	0	0.35%	0.35%	0.19%
2471 238505 02DELTA	138 240842 02NFF	138 1	238505	02DELTA	240842 0	2NFF	1	138	202 ATST	278	343	Base Case	0	15.7	-	5.64	0	0.07%	0.07%	0.00%
2472 247019 05NEVILLE SS	138 247222 05DUPT S	138 1	247019	OSNEVILLE SS	247222 0	SDUPT S	1	138	205 AEP	223	310	Base Case	0	12 6	-	5 64	0	0.00%	0.00%	0.00%
2473 246399 05GLOBE MT 7	138 247373 05MUSKNG2A	138 711	246390	05GLOBE MT Z	247373 0	5MUSKNC2A	211	138	205 AFP	747	747	Base Case	0	-42 1	-	5.63	0	-0.10%	-0.10%	-0.06%
2474 243498 05DLAWAR2	138 245962 05DLAWAR3	138 72	243498	R OSDLAWAR2	245962 0	5DLAWAR3	72	138	205 AEP	670	747	Base Case	0	37.7	-	5.63	0	-0.05%	-0.05%	-0.01%
2475 242963 054FDDSS	138 243011 05EULTON	138 1	243456	3 05HEDDSS	243011 0	5 FILL TON	1	138	205 AEP	191	250	Base Case	0	10.7	-	5.63	0	0.10%	0.00%	0.06%
2475 242903 05MEDD33	345 248003 06D0E530	245 1	242903	0.5MADOUT	249002 0	SPOR STOR	1	245	205 AET	191	250	Base Case	0	-54.2		5.02	0	-0.28%	-0.28%	-0.55%
2470 242956 05MARQ01	128 220260 02DTCULT	120 1	242930	CONVEDCU	230260 0	ODOE550	1	120	200/200 AEF/OVEC	216	264	Dase Case	0	-54.5		5.02	0	0.00%	0.00%	0.00%
2477 238530 UZAIERSV	130 239209 02RICHLU	120 1	230330	02DBO_14	2392090	2RICHLJ	1	120	202 AISI	210	204	Base Case	0	-15.2	_	5.62	0	0.00%	0.00%	0.00%
2470 230037 U2DBU-14	130 230/11 UZEITP14	120 1	238037	05CAMDIM	230/11	EDILOTED		138	202 ATS1	2/3	332	Dase Case	0	-13.3		5.02	0	0.00%	0.00%	0.00%
2479 242373 03CAMDLM	138 242781 USRUSTBR	130 1	242575	D OSCAMDLM	2427610	SRUSIBR	1	130	205 AEP	195	220	Base Case	0	14 4	-	5.62	0	0.00%	0.00%	0.00%
2480 243253 05BLUFFP	138 243362 USRANDOL	138 1	243253	3 05BLUFFP	243362 0	SRANDOL	1	138	205 AEP	257	359	Base Case	0	-14.4	-	5.61	0	0.01%	0.01%	0.04%
2481 238976 02N MED	345 239122 02STAR	345 1	238976	02N MED	239122 0	2STAR	1	345	202 ATSI	1413	1742	Base Case	0	-79	-	5.59	0	1.42%	1.42%	0.49%
2482 243301 05GRANGE	138 243385 05TWIN B	138 1	243301	05GRANGE	243385 0	5TWIN B	1	138	205 AEP	296	361	Base Case	0	16.4		5.55	0	-0.02%	-0.02%	-0.04%
2483 242510 05BAKER	765 242523 05BAKER	345 1	242510	05BAKER	242523 0	5BAKER	1	765/345	205 AEP	1587	1752	Base Case	0	-87.8	-	5.53	0	-0.34%	-0.34%	-0.68%
2484 243875 05SOFTSH	138 246918 05BONNYM	138 1	243875	5 05SOFTSH	246918 0	5BONNYM	1	138	205 AEP	369	369	Base Case	0	20.4	-	5.52	0	0.04%	0.04%	0.04%
2485 238856 02KH Q-3	138 238858 02KHTPQ3	138 1	238856	5 02KH Q-3	238858 0	2KHTPQ3	1	138	202 ATSI	355	434	Base Case	0	-19.6	-	5.52	0	0.00%	0.00%	0.00%
2486 239132 02TALMDG	138 239170 02WESTGT	138 1	239132	2 02TALMDG	239170 0	2WESTGT	1	138	202 ATSI	278	287	Base Case	0	-15.3		5.51	0	0.05%	0.05%	-0.01%
2487 242583 05CATAWB	138 242694 05KIMBAL	138 1	242583	3 05CATAWB	242694 0	5KIMBAL	1	138	205 AEP	205	205	Base Case	0	11.3	-	5.51	0	0.12%	0.12%	0.27%
2488 243044 05MILLWO	138 247278 05MILL1Z	138 Z1	243044	1 05MILLWO	247278 0	5MILL1Z	Z1	138	205 AEP	164	178	Base Case	0	-9	-	5.5	0	0.00%	0.00%	0.00%
2489 242625 05DINGES	138 242726 05MUDFRK	138 1	242625	5 05DINGES	242726 0	5MUDFRK	1	138	205 AEP	251	309	Base Case	0	13.8	-	5.49	0	-0.07%	-0.07%	-0.12%
2490 242932 05CANTNC	345 242943 05SCANTO	345 1	242932	2 05CANTNC	242943 C	5SCANTO	1	345	205 AEP	1409	1409	Base Case	0	-77.1	-	5.47	0	-0.37%	-0.37%	0.49%
2491 243497 05DELANO	138 246980 05DELAN8	138 1	243497	05DELANO	246980 0	5DELAN8	1	138	205 AEP	200	254	Base Case	0	10.9	-	5.46	0	0.00%	0.00%	0.00%
2492 243288 05EGE	138 243326 05LAOTTO	138 1	243288	05EGE	243326 0	5LAOTTO	1	138	205 AEP	251	335	Base Case	0	-13.7	-	5.45	0	0.07%	0.07%	0.06%
2493 243885 05THORSS	138 247714 05BROAD RUN	138 1	243885	5 05THORSS	247714 0	5BROAD RUN	1	138	205 AEP	257	360	Base Case	0	14	-	5.45	0	0.00%	0.00%	0.00%
2494 243141 05WARNER	138 245697 05TORREY2	138 1	243141	05WARNER	245697 0	5TORREY2	1	138	205 AEP	205	284	Base Case	0	11.1	-	5.4	0	0.27%	0.27%	-0.04%
2495 250093 08REDBK2	138 250103 08TBSC01	138 1	250093	08REDBK2	250103 0	8TBSCO1	1	138	212 DEO&K	332	332	Base Case	0	17.9	-	5.39	0	-0.05%	-0.05%	-0.05%
2496 246754 05FOWLER	345 246756 05FRCS-2	345 1	246754	1 05FOWLER	246756 0	5FRCS-2	1	345	205 AEP	1001	1503	Base Case	0	-53.9	-	5.39	0	-0.03%	-0.03%	-0.03%
2497 243278 05DESOTO	138 243340 05MEDFOR	138 1	243278	05DESOTO	243340 0	5MEDFOR	1	138	205 AEP	187	240	Base Case	0	10.1	-	5.39	0	0.02%	0.02%	-0.03%
2498 243284 05DUPONT	138 243366 05ROB PK12	138 1	243284	1 05DUPONT	243366 0	5ROB PK12	1	138	205 AEP	219	255	Base Case	0	11.8	-	5.38	0	-0.09%	-0.09%	-0.06%
2499 243207 05GRNTWN	765 255204 17REYNOLDS	765 1	243207	05GRNTWN	255204 1	7REYNOLDS	1	765	205/217 AEP/NIPS	2669	2669	Base Case	0	-143.6	-	5.38	0	-0.65%	-0.65%	-0.54%
2500 243575 05ST.CLR	138 243876 05ST.CXX	138 SR	243575	5 05ST.CLR	243876 0	5ST.CXX	SR	138	205 AEP	191	229	Base Case	0	10.3	-	5.37	0	0.05%	0.05%	-0.03%
2501 244230 05SUNDAY SS	138 245420 05TRIMBLE	138 1	244230	05SUNDAY SS	245420 0	5TRIMBLE	1	138	205 AEP	158	183	Base Case	0	8.5	-	5.36	0	0.00%	0.00%	0.00%
2502 245426 05BULLIT ST2	138 247846 05BULLIT ST1	138 Z1	245426	05BULLIT ST2	247846 0	5BULLIT ST1	Z1	138	205 AEP	586	683	Base Case	0	-31.4	-	5.35	0	-0.01%	-0.01%	-0.10%
2503 238607 02CARLIL	345 238976 02N MED	345 1	238607	02CARLIL	238976 0	2N MED	1	345	202 ATSI	1560	1900	Base Case	0	83.5	-	5.35	0	-1.60%	-1.60%	-0.54%
2504 238783 02HARDIN	345 238821 02INLAND	345 1	238783	02HARDIN	238821 0	2INLAND	1	345	202 ATSI	1555	1892	Base Case	0	83.1	-	5.34	0	-0.46%	-0.46%	0.16%
2505 250011 08DERPK1	138 250115 08TP7482	138 1	250011	08DERPK1	250115	8TP7482	1	138	212 DEO&K	266	266	Base Case	0	14.2	22	5.33	0	0.00%	0.00%	0.00%
2506 250002 08COOPER	138 250115 08TP7482	138 1	250002	2 08COOPER	250115	8TP7482	1	138	212 DE0.5K	266	266	Base Case	0	-14.2		5.33	0	0.00%	0.00%	0.00%
2507 245491 05BABBTT3-4	138 246177 05ANGUTN1-2	138 2	245491	05BABBIT3-4	246177 0	5ANGUTN1-2	2	138	205 AEP	996	996	Base Case	0	53.1	_	5.33	0	0.00%	0.00%	0.00%
2508 245491 05BABBIT3-4	138 246177 05ANGUIN1-2	138 1	245491	05BABBIT3-4	246177 0	5ANGUIN1-2	1	138	205 AEP	996	996	Base Case	0	53.1	-	5.33	0	0.00%	0.00%	0.00%
2509 246407 05CARIN CRK2	138 247792 05FIFIDS CPK	138 1	246405	05CABIN CRK2	247792 0	SETELDS CDK	1	138	205 AEP	729	729	Base Case	0	-38.8	-	5.33	0	-0.09%	-0.09%	-0.17%
2510 242941 050HTOCT	345 243454 05BTTELDS CRR	345 1	240407	050HIOCT	243454 0	SRIXRY	1	2/15	205 AFP	1400	1869	Base Case	0	71 0	_	5 32	0	0.36%	0.36%	-0.16%
2511 242600 05CT VTD2	139 242610 05ct VTD2	120 71	242941	05011001	240404	SCI VTD3	71	120	205 AEF	207	1000	Base Case	0	-15 2		5 33	0	0.30%	0.30%	0.40%
2512 230145 020EDUTNE	130 232010 UJCHIRS	139 1	242005	S OODEDUTME	230720 0	20EDVDC	1 1	120	200 AEF 202 Amor	1.60	100	Base Case	0			5.32	0	0.05%	0.09%	0.40%
2512 239143 UZREFVINE	120 220040 02 TDD011	120 1	239143	02ILEEVINE	2391300	2 100011	1	120	202 ATOT	100	21.0	Dase Case	0	-0.5	-	5.51	0	0.00%	0.00%	0.00%
2515 230030 U201Q-11 2514 239500 03555V	130 230040 UZUKDUII	120 1	230030	02010-11	220040	21EMO V		138	202 AISI 202 Amor	205	303	Dase Case	0	10 0	-	5.3	0	-0.00%	-0.00%	-0.04%
2514 230309 UZFREI	130 230004 UZLEMU K	120 1	238509	020UNDOV	230884	2 DEPIO K	1 1	138	202 ATS1	241	292	Dase Case	0	11.0		5.3	0	-0.03%	-0.03%	-0.04%
2515239108 U2SHNKOK	130 2392/9 UZCONCST	120 1	239108	OFUNC DK	2392790	ELDONWOOD 22	1	138	202 AT51	220	208	Dase Case	0	11.0	-	5.29	0	-0.23%	-0.23%	-0.04%
2510 243021 U5HNG RK	130 243968 U5IRONWOODSS	138 1	243021	USHNG RK	243968 0	SIKONWOODSS		138	205 AEP	223	310	Base Case	0	-11.8	-	5.28	U	0.00%	0.00%	-0.01%
251/238511 02GMC-J	138 239269 02RICHLJ	138 1	238511	UZGMC-J	239269 0	ZKICHLJ	1	138	202 ATSI	216	264	Base Case	0	-11.4	-	5.27	0	0.00%	0.00%	0.00%
2518 242650 05GLENL1	138 242666 05HAZELH	138 1	242650	USGLENL1	242666 0	SHAZELH	1	138	205 AEP	134	169	Base Case	0	-7.1	-	5.26	0	0.07%	0.07%	0.29%
2519 239045 02PN Q-1	138 239047 02PN TP	138 1	239045	U2PN Q-1	239047 0	2PN TP	1	138	202 ATSI	265	316	Base Case	0	13.9	-	5.26	0	0.00%	0.00%	0.00%
2520 242671 05HOPKIN	138 247242 05CHAPSS	138 1	242671	05HOPKIN	247242 0	5CHAPSS	1	138	205 AEP	389	559	Base Case	0	20.4	-	5.25	0	0.03%	0.03%	-0.17%

		A		В	C	D	E	F	G	Н	1	J	К	Ľ.	М	N	0	Р	Q	R	S	T U
2521 253006 09BATH	345	253027 09GREENE	345 1	253006	09BATH	253027	09GREENE		1 345	5 209	DAY	1255	1374	Base Case	C	-65.7		5.24	0	0.48%	0.48%	0.36%
2522 241926 02ASTOR014	138	241930 02AVO4	138 1	241926	02ASTORO14	241930	02AV04		1 138	3 202	ATSI	273	332	Base Case	C	-14.3	-	5.22	0	0.14%	0.14%	0.00%
2523 238773 02GTO-13	138	238794 02HDG013	138 1	238773	3 02GTO-13	238794	02HDG013		1 1.38	3 202	ATSI	273	332	Base Case	C	-14.3	-	5.22	0	0.06%	0.06%	0.01%
2524 242924 05HANG B	765	242929 05NPBOCT	765 1	242924	LOSHANG B	242920	05NPROCT	-	1 765	205	AEP	4142	4142	Base Case	0	213.9	-	5 16	0	-2 29%	-2 29%	-1 13%
2525 243205 05COOK	765	243215 05COOK	345 4	243205	05000K	243215	050000		4 765/345	205	AEP	1740	1868	Base Case	0	-89.8	_	5.16	0	-0.05%	-0.05%	-0.47%
2526 242661 05HATES1	138	242794 05640CKM	138 1	243203	05477891	240210	05SHACKM		1 139	205	AFD	296	302	Base Case	0	15.3	_	5.16	0	-0.06%	-0.06%	-0.17%
2527 250022 08ERET D1	120	250041 08HAMITIN	120 1	250022	0.09EDELD1	2500/1	0.9 UAMT TH		1 120	203	DEOCK	200	200	Base Case	0	15.0		5.10	0	-0.00%	-0.00%	0.00%
2527 250052 06FRF1D1	130	2550041 USHAMLIN	130 I.	230032	OFOT THE	250041	17DEVNOLDC		1 346	212	DEO ANTRO	2.50	1 4 1 4	Base Case	0	50		5.15	0	-0.01%	0.01/0	0.00%
2520 243229 050LIVE	345	255205 17REINOLDS	345 I	243229	OSOLIVE	255205	17REINOLDS		2 245	205/217	ALP/NIPS	971	1414	Base Case		-50	_	5.15	0	0.20%	0.20%	0.43%
2529 243229 030LIVE	120	242206 OFWARDER	120 1	243223	OSULIVE	233200	17REINOLDS		2 343	203/21/	ALF/NIFS	971	1419	Base Case	0	-50	_	5.13	0	0.20%	0.20%	0.43%
2530 243305 05HACIEN	138	243306 USHARPER	138 1	243303	OSHACIEN	243306	USHARPER		1 138	205	ALP	219	255	Base case		11.2	-	5.13	0	-0.05%	-0.05%	-0.02%
2531 243352 05NTRDAM	138	243370 05S.BEND1	138 1	243352	05NTRDAM	243370	05S.BENDI	-	1 138	3 205	AEP	257	330	Base Case	C	13.1	-	5.09	0	-0.09%	-0.09%	-0.06%
2532 250122 08WARRN1	138	250123 08WARRN2	138 Z1	250122	2 08WARRN1	250123	08WARRN2	Z1	138	3 212	DEO&K	275	275	Base Case	C) 14	-	5.08	0	0.01%	0.01%	0.02%
2533 243206 05DUMONT	765	243207 05GRNTWN	765 1	243206	5 05DUMONT	243207	05GRNTWN		1 765	5 205	AEP	4558	5001	Base Case	C	-231.4	-	5.08	0	1.38%	1.38%	2.35%
2534 246885 05MOORE HOLW	138	246915 05PRINCESS	138 1	246885	5 05MOORE HOLW	246915	05PRINCESS		1 138	3 205	AEP	296	413	Base Case	C	15	.=	5.08	0	0.02%	0.02%	0.03%
2535 238684 02EASTLK	345	239358 02GLENWILLOW	345 1	238684	02EASTLK	239358	02GLENWILLOW		1 345	5 202	ATSI	1542	1878	Base Case	C	-78.2	-	5.07	0	-0.68%	-0.68%	0.30%
2536 238818 02ILQ-11	138	239118 02SSPQ11	138 1	238818	3 02ILQ-11	239118	02SSPQ11		1 138	3 202	ATSI	273	332	Base Case	C	13.8	-	5.05	0	-0.06%	-0.06%	0.02%
2537 238868 02KPQ-13	138	238870 02KY Q-3	138 1	238868	3 02KPQ-13	238870	02KY Q-3		1 138	3 202	ATSI	347	423	Base Case	C	17.4	-	5.02	0	0.00%	0.00%	0.00%
2538 242957 05BASEL8	138	243080 05RILEYC	138 1	242957	05BASEL8	243080	05RILEYC		1 138	3 205	AEP	140	140	Base Case	C) -7	-	5.02	0	0.00%	0.00%	0.00%
2539 250004 08CRNEL1	138	250005 08CRNEL4	138 Z1	250004	08CRNEL1	250005	08CRNEL4	Z1	138	3 212	DEO&K	309	349	Base Case	C	15.5	-	5.01	0	0.00%	0.00%	0.00%
2540 238512 02GMC-K	138	239070 02RICHLD	138 1	238512	02GMC-K	239070	02RICHLD		1 138	3 202	ATSI	216	229	Base Case	C	-10.8	-	5	0	0.00%	0.00%	0.00%
2541 243459 05KIRK	345	243855 05JUG ST	345 1	243459	05KIRK	243855	05JUG ST		1 345	5 205	AEP	958	1123	Base Case	C	-47.6	-	4.97	0	0.36%	0.36%	-0.08%
2542 242518 05BROADF	500	242511 05BROADF	765 4	242518	05BROADF	242511	05BROADF		4 500/765	205	AEP	1710	1920	Base Case	C	84.9	-	4.96	0	-1.29%	-1.29%	0.12%
2543 243235 0523RD	138	243395 05WESTINGHS	138 1	243235	0523RD	243395	05WESTINGHS		1 138	3 205	AEP	205	205	Base Case	C	10.1	-	4.95	0	0.01%	0.01%	0.00%
2544 243857 05COFFEE	138	246229 05REUSENS2	138 1	243857	05COFFEE	246229	05REUSENS2		1 138	3 205	AEP	167	220	Base Case	C	8.3	-	4.95	0	-0.01%	-0.01%	-0.23%
2545 239030 020TTAWA	138	239140 02TOUSNT	138 1	239030	02OTTAWA	239140	02TOUSNT		1 138	3 202	ATSI	235	288	Base Case	C	-11.6	-	4.94	0	-0.16%	-0.16%	-0.02%
2546 243281 05DRAGNZ	138	243385 05TWIN B	138 1	243281	05DRAGNZ	243385	05TWIN B	1	1 138	3 205	AEP	219	251	Base Case	C	10.8	-	4.94	0	-0.05%	-0.05%	-0.03%
2547 243338 05MCKINLEY3	138	244935 05MCKINLEY1	138 ZT	243338	05MCKINLEY3	244935	05MCKINLEY1	ZT	138	3 205	AEP	348	407	Base Case	C	-17.2	-	4.93	0	0.03%	0.03%	0.03%
2548 243512 05DIAMONDISS	138	246370 05HUNTLEY2	138 1	243512	05DIAMONDISS	246370	05HUNTLEY2		1 138	3 205	AEP	191	229	Base Case	C	-9.4	-	4.92	0	-0.01%	-0.01%	-0.02%
2549 243453 05BEATTY	345	243454 05BIXBY	345 1	243453	05BEATTY	243454	05BIXBY	1	1 345	5 205	AEP	1096	1203	Base Case	C	-53.6	_	4.89	0	1.30%	1.30%	0.45%
2550 242675 05HUFFMN	138	242848 05WILLGP	138 1	242675	05HUFFMN	242848	05WILLGP		1 138	3 205	AEP	296	398	Base Case	C	14.5	-	4.89	0	0.00%	0.00%	0.00%
2551 238867 02KPO-12	138	238869 02KY 0-1	138 1	238867	02KPO-12	238869	02KY 0-1		1 138	202	ATSI	355	434	Base Case	0	17.3	-	4.88	0	0.00%	0.00%	0.00%
2552 243141 05WARNER	138	245201 05BTT	138 1	243141	05WARNER	245201	05BTT		1 138	205	AEP	195	220	Base Case	0	9.5	-	4.87	0	0.00%	0.00%	0.00%
2553 243308 05HICKBY CK1	138	243350 05NICKER	138 1	243308	OSHICKBY CK1	243350	05NTCKER		1 138	205	AEP	164	180	Base Case	0	1 8	_	4 86	0	-0.02%	-0.02%	-0.02%
2554 238959 02MFLD04	138	239017 02NT 016	138 1	238950	02MFLD04	239017	02NT 016		1 139	200	ATST	265	316	Base Case	0	12.8	-	4 83	0	-0.02%	-0.02%	0.01%
2555 243381 05511MMTT	138	245511 05TNDUST PK2	138 1	243381	05SUMMIT	245511	05INDUST PK2		1 138	3 205	AFP	251	335	Base Case	0	-12.0	_	4.03	0	0.02%	0.02%	0.05%
2556 249577 097TMED	245	240591 091ND031 FR2	245 1	240577	097TMPD	2405011	OGMET DAT	1	1 245	203	DEOCK	1500	1500	Base Case	0	-72 6		4.03	0	0.00%	0.00%	0.50%
2557 250045 09HERDN1	120	250151 08HEDDAD	120 71	250045	0021HER	250151	OQUEDTAD	71	120	212	DECK	200	2/0	Base Case	0	-14.9	-	4.01	0	0.00%	0.00%	0.00%
2557 250045 OBREERNI	1 2 0	250031 08REBIAF	130 21	250045	00REDENI	250151	00REBIAF	21	100	212	DEOGK	309	J49 AEA	Base Case	0	10 5		4.01	0	0.00%	0.00%	0.00%
2550 230020 08ESTWD1	138	230021 USESTWDZ	138 21	250020	0.08ESTWDI	250021	08ESTWD2	21	1 120	212	DEO&K	406	454	Base Case		19.5		4.81	0	-0.04%	-0.04%	-0.04%
2559 238631 U2CNTRAL	138	238748 02GARDEN	138 1	238631	02CNTRAL	238748	02GARDEN		1 138	202	ATSI	157	196	Base Case		10.0	_	4.8	0	0.04%	0.04%	0.00%
2561 242240 05MTL 2N	130	250061 08MDWA12	130 1	250016	OFMERAR	230061	06MDWA12		1 130	212	DEO&A	200	200	Base Case		12.0	_	4.0	0	-0.05%	-0.05%	0.00%
2561 243342 USMILAN	138	24/16/ 05MICHN2	138 1	243342	05MILAN	24/16/	05MICHN2		1 138	205	AEP	167	245	Base Case	C C	8	-	4.79	0	0.00%	0.00%	0.00%
2562 243342 USMILAN	138	24/166 USMICHN1	138 1	243342	USMILAN	247166	USMICHN1	1	138	205	AEP	167	245	Base Case	C	8	-	4.79	0	0.00%	0.00%	0.00%
2503 238839 02JIQ-14	138	238849 U2JRDQ14	138 1	238839	UZJIQ-14	238849	UZJRDQ14		138	3 202	ATSI	265	316	Base Case	C	12.7	-	4.79	0	0.13%	0.13%	-0.05%
2504 242915 05STANVILLE2	138	243698 U5MORGFK	138 1	242915	USSTANVILLE2	243698	USMORGFK	-	138	205	AEP	223	310	Base Case	C	-10.7	-	4.78	0	0.00%	0.00%	0.1/%
2505 242546 05BAILS1	138	242547 05BAILS2	138 Z1	242546	U5BAILS1	242547	U5BAILS2	Z1	138	205	AEP	335	392	Base Case	C	-16	-	4.78	0	0.03%	0.03%	0.11%
2566 243390 05WAYNED	138	244935 05MCKINLEY1	138 1	243390	U5WAYNED	244935	U5MCKINLEY1	-	138	205	AEP	251	251	Base Case	C	-12		4.78	0	-0.05%	-0.05%	-0.02%
256/243464 05ADAMS	138	243571 05SEAMAN	138 1	243464	USADAMS	243571	USSEAMAN	-	138	3 205	AEP	296	413	Base Case	C	14.1	-	4.77	0	0.08%	0.08%	0.06%
2568 250084 08PARK1	138	250085 08PARK2	138 Z1	250084	08PARK1	250085	08PARK2	Z1	138	3 212	DEO&K	394	394	Base Case	C) -18.8	-	4.77	0	0.06%	0.06%	0.06%
2569 242805 05HATCHR	138	242806 05SPDWY	138 1	242805	05HATCHR	242806	05SPDWY	1	1 138	3 205	AEP	205	205	Base Case	C	9.8	-	4.77	0	0.00%	0.00%	0.00%
2570 243671 05BEAVER CR1	138	244688 05BEAVER CR2	138 ZP	243671	05BEAVER CR1	244688	05BEAVER CR2	ZP	138	3 205	AEP	348	369	Base Case	C	16.6		4.76	0	0.07%	0.07%	0.05%
2571 242539 05ANGLBR	138	242655 05GRASFK	138 1	242539	05ANGLBR	242655	05grasfk		1 138	3 205	AEP	158	183	Base Case	C	7.5	-	4.75	0	0.00%	0.00%	0.00%
2572 235205 01KRENDL	138	239099 02SENECA	138 1	235205	01KRENDL	239099	02SENECA		1 138	3 201/202	AP/ATSI	267	352	Base Case	C	12.7	-	4.75	0	0.68%	0.68%	-0.05%
2573 243001 05EZANEV	138	243074 05PHILO1	138 1	243001	05EZANEV	243074	05PHILO1	1	1 138	3 205	AEP	187	240	Base Case	C	-8.9	-	4.74	0	0.13%	0.13%	0.05%
2574 243229 050LIVE	345	274804 UNIV PK N;RP	345 1	243229	050LIVE	274804	UNIV PK N; RP	1	1 345	205/222	AEP/CE	971	971	Base Case	C	45.9		4.73	0	1.00%	1.00%	0.75%
2575 243239 05ROCKP WRK1	138	243785 05AKSTL	138 1	243239	05ROCKP WRK1	243785	05AKSTL		1 138	3 205	AEP	388	388	Base Case	C	18.3	-	4.73	0	0.00%	0.00%	0.00%
2576 243240 05ROCKP WRK2	138	243785 05AKSTL	138 1	243240	05ROCKP WRK2	243785	05AKSTL		1 138	3 205	AEP	388	388	Base Case	C	18.3	-	4.73	0	0.00%	0.00%	0.00%
2577 242809 05SPRIG1	138	246316 05STONE	138 1	242809	05SPRIG1	246316	05STONE	1	1 138	3 205	AEP	262	332	Base Case	C	12.4	-	4.72	0	0.09%	0.09%	0.03%
2578 239098 02SBRNQ4	138	239115 02SP Q-4	138 1	239098	02SBRNQ4	239115	02SP Q-4		1 138	3 202	ATSI	148	151	Base Case	C) -7	-	4.72	0	-0.19%	-0.19%	0.04%
2579 242574 05CABIN CRK1	138	242596 05CHESTR	138 1	242574	05CABIN CRK1	242596	05CHESTR		1 138	3 205	AEP	729	729	Base Case	C	-34.3	-	4.71	0	-0.07%	-0.07%	-0.19%
2580 243272 05DALEVI	138	243340 05MEDFOR	138 1	243272	05DALEVI	243340	05MEDFOR		1 138	3 205	AEP	187	233	Base Case	C	8.7	-	4.68	0	-0.02%	-0.02%	0.04%

		A		В	C	D	E	F	G	Н	L	J	К	Ĺ.	М	Ν	0	Р	Q	R	S	T U
2581 241901 02LALLENDORF	345	241949 AB1-107 POI	345 1	241901	02LALLENDORF	241949	9 AB1-107 POI	1	1 345	20	2 ATSI	9999	9999	Base Case	0	-465.9	-	4.66	0	-0.29%	-0.29%	-0.29%
2582 246912 05N MKT8	138	247035 05NMARSS	138 1	246912	05N MKT8	24703	5 05NMARSS	1	1 138	20	5 AEP	195	220	Base Case	0	-9.1	-	4.65	0	0.00%	0.00%	0.00%
2583 238839 02JTO-14	138	238860 02KTO-14	138 1	238839	02JTO-14	238860	02810-14	1	1 138	20	2 ATST	273	332	Base Case	0	-12.7	-	4.65	0	0.13%	0.13%	-0.05%
2584 249990 08BBOWN	138	250021 08ESTWD2	138 1	249990	08BROWN	25002	1 08ESTWD2	1	1 138	21	2 DEOSK	301	301	Base Case	0	1.4	-	4 64	0	0.04%	0.04%	0.04%
2585 238774 02GTO-14	138	238795 02HDG014	138 1	238774	026T0-14	23879	5 02HDG014	1	1 138	20	2 ATST	273	332	Base Case	0	-12 6	_	4 63	0	0.08%	0.08%	-0.01%
2586 238774 02CTO-14	138	238791 02400-14	138 1	230774	02010 14	23870	1 02400-14	1	1 139	20	2 7001	273	332	Base Case	0	12.0	-	4.63	0	0.08%	0.08%	-0.01%
2587 242661 05HATES1	120	242662 05441562	120 71	230774	02010 14	23075	OSUNTERS	71	1 1 20	20	5 AED	275	202	Base Case	0	15.5		4.00	0	0.05%	-0.05%	0.15%
2507 242001 USHALESI	130	242002 USHALES2	245 1	242001	AND 116 MADO	24200	2 UJHALESZ	1 1	1 345	20	5 AEF	0000	0000	Base Case	0	15.5	-	4.02	0	-0.03%	-0.03%	0.15%
2588 270139 AA2-116_1AP2	120	270140 AA2-116_PO1	345 I	270139	AAZ-110 TAPZ	270140	AA2-110_PUI	1	1 343	20	5 AEP	9999	9999	Base Case	0	-439.7	-	4.0	0	-0.12%	-0.12%	-0.20%
2509 244423 USJAMES RIVR	138	244446 USSOAPSTONE	138 1	244423	OSJAMES RIVR	24444	OSSOAPSTONE	1	1 138	20	D AEP	167	107	Base Case	0	1.7	-	4.58	0	-0.30%	-0.30%	-0.05%
2590 238623 02CLARK	138	239278 UZBRDVIE	138 1	238623	OZCLARK	239270	BUZBRDVIE	1	1 138	20	ZATSI	278	339	Base Case	U	-12.7	-	4.58	0	0.06%	0.06%	0.01%
2591 243252 05BIXLRT	138	243321 05KENDAL	138 1	243252	05BIXLRT	24332.	1 05KENDAL	1	1 138	20	5 AEP	251	335	Base Case	0	-11.5	-	4.58	0	-0.05%	-0.05%	-0.03%
2592 244935 05MCKINLEY1	138	244936 05MCKINLEY2	138 ZC	244935	05MCKINLEY1	244936	5 05MCKINLEY2	ZC	138	20	5 AEP	695	695	Base Case	0	-31.8	-	4.58	0	-0.02%	-0.02%	0.01%
2593 238544 02ASH_3	138	239182 02ZNQ-16	138 1	238544	02ASH_3	239182	2 02ZNQ-16	1	1 138	20	2 ATSI	275	333	Base Case	0	12.5	-	4.55	0	0.00%	0.00%	0.00%
2594 238542 02ASH_1	138	238543 02ASH_2	138 ZB	238542	02ASH_1	238543	3 02ASH_2	ZB	138	20	2 ATSI	999	999	Base Case	0	-45.4	-	4.55	0	0.18%	0.18%	-0.03%
2595 238864 02KNOX	138	239372 02HAGAN	138 1	238864	02KNOX	239372	2 02HAGAN	1	1 138	20	2 ATSI	278	339	Base Case	0	-12.6	-	4.53	0	0.13%	0.13%	0.00%
2596 243574 05SUNBURY SS	138	243583 05TRENT	138 1	243574	05SUNBURY SS	243583	3 05TRENT	1	1 138	20	5 AEP	285	361	. Base Case	0	-12.8	-	4.49	0	0.04%	0.04%	-0.01%
2597 253046 09MIAMI	138	253106 09NCARLI	138 1	253046	09MIAMI	25310	5 09NCARLI	1	1 138	20	9 DAY	301	374	Base Case	0	13.5	-	4.48	0	-0.03%	-0.03%	-0.04%
2598 242792 05SCOTSV	138	314746 4BREMO	138 1	242792	05SCOTSV	31474	5 4BREMO	1	1 138	205/34	5 AEP/DVP	167	167	Base Case	0	-7.5	-	4.48	0	0.30%	0.30%	0.65%
2599 242656 05GRASSH	138	242774 05ROANO2	138 1	242656	05GRASSH	242774	4 05ROANO2	1	1 138	20	5 AEP	240	251	Base Case	0	10.7	-	4.47	0	-0.05%	-0.05%	0.40%
2600 238523 02CHRYTE	138	240988 02SHELBY_FS+	138 1	238523	02CHRYTE	240988	8 02SHELBY_FS+	1	1 138	20	2 ATSI	278	343	Base Case	0	12.4	-	4.46	0	-0.03%	-0.03%	0.01%
2601 243509 05FISHRD	138	243582 05TRABUE	138 1	243509	05FISHRD	243582	2 05TRABUE	1	1 138	20	5 AEP	223	223	Base Case	0	9.9	-	4.46	0	-0.04%	-0.04%	0.00%
2602 238685 02EASTLK	138	241921 02ELQ1	138 1	238685	02EASTLK	241923	1 02ELQ1	1	1 138	20	2 ATSI	999	999	Base Case	0	44.6	-	4.46	0	-0.06%	-0.06%	0.02%
2603 242845 05WELCH	138	242854 05W.WELCH SS	138 1	242845	05WELCH	242854	4 05W.WELCH SS	1	1 138	20	5 AEP	251	251	Base Case	0	-11.2	-	4.45	0	0.00%	0.00%	0.00%
2604 243571 05SEAMAN	138	247035 05NMARSS	138 1	243571	05SEAMAN	24703	5 05NMARSS	1	1 138	20	5 AEP	223	223	Base Case	0	9.9	-	4.44	0	0.07%	0.07%	0.05%
2605 242521 05NAGEL	500	242532 05NAGEL	230 5	242521	05NAGEL	242532	2 05NAGEL	5	5 500/230	20	5 AEP	930	930	Base Case	0	41.1	-	4.42	0	-0.21%	-0.21%	-1.32%
2606 242566 05BROADF	138	242788 05SALTV1	138 2	242566	05BROADF	242788	05SALTV1	2	2 138	20	5 AEP	219	251	Base Case	0	-9.7	-	4.42	0	-0.17%	-0.17%	-0.27%
2607 242827 05TAZEWE	138	247029 05HORSPN	138 1	242827	05TAZEWE	24702	05HORSPN	1	1 138	20	5 AEP	334	334	Base Case	0	-14.7	-	4.41	0	0.00%	0.00%	-0.30%
2608 238790 02HCQ-13	138	239119 02SSPQ13	138 1	238790	02HCQ-13	239119	02SSPQ13	1	1 138	20	2 ATSI	273	332	Base Case	0	12	-	4.4	0	-0.05%	-0.05%	-0.01%
2609 239181 02ZNQ-15	138	239349 02MILCHM	138 1	239181	02ZNQ-15	239349	02MILCHM	1	1 138	20	2 ATSI	273	332	Base Case	0	-12	-	4.39	0	0.00%	0.00%	0.00%
2610 253352 AB1-169 MAIN	345	253353 AB1-169 1	345 1	253352	AB1-169 MAIN	253353	3 AB1-169 1	1	1 345	20	9 DAY	9999	9999	Base Case	0	-438.3	-	4.38	0	-0.27%	-0.27%	-0.27%
2611 253352 AB1-169 MAIN	345	253354 AB1-169 2	345 1	253352	AB1-169 MAIN	253354	4 AB1-169 2	1	1 345	20	9 DAY	9999	9999	Base Case	0	-438.3	-	4.38	0	-0.27%	-0.27%	-0.27%
2612 242835 05TRISTA	138	246919 05CHADWICK2	138 2	242835	05TRISTA	24691	05CHADWICK2	2	2 138	20	5 AEP	219	255	Base Case	0	9.6	-	4.38	0	0.09%	0.09%	0.05%
2613 242660 05H.RIDG	138	242743 05PARKHI	138 1	242660	05H.RIDG	242743	3 05PARKHI	1	1 138	20	5 AEP	146	167	Base Case	0	-6.4	-	4.36	0	-0.06%	-0.06%	-0.02%
2614 243341 05MIER	138	249800 08MIER	138 Z1	243341	05MIER	249800	08MIER	Z1	138	205/20	8 AEP/DEI	167	167	Base Case	0	-7.3	-	4.35	0	0.00%	0.00%	0.00%
2615 238710 02EYQ-14	138	238775 02GXQ-14	138 1	238710	02EYQ-14	238775	5 02GXQ-14	1	1 138	20	2 ATSI	339	405	Base Case	0	14.7	-	4.35	0	-0.15%	-0.15%	-0.02%
2616 242609 05CLYTR2	138	247870 05CLAYTR HY2	138 2	242609	05CLYTR2	247870	0 05CLAYTR HY2	2	2 138	20	5 AEP	120	151	Base Case	0	-5.2	-	4.35	0	-0.02%	-0.02%	-0.04%
2617 239145 02REPVINE	138	239739 02CROMWELL	138 1	239145	02REPVINE	23973	02CROMWELL	1	1 138	20	2 ATSI	233	282	Base Case	0	-10.1	-	4.34	0	0.00%	0.00%	0.00%
2618 250007 08CBSNT1	138	250014 08DNLSN1	138 1	250007	08CRSNT1	250014	4 08DNLSN1	1	1 138	21	2 DEO&K	266	266	Base Case	0	-11.5	-	4.33	0	0.05%	0.05%	0.08%
2619 243210 05SULLIVAN	765	247712 05SULLIVAN	345 2	243210	05SULLIVAN	24771	2 05SULLTVAN	2	2 765/345	20	5 AEP	2742	2865	Base Case	0	118.5	-	4.32	0	0.23%	0.23%	0.02%
2620 238608 02CARLIL	138	239279 02CONCST	138 1	238608	02CARLIL	23927	02CONCST	1	1 138	20	2 ATSI	220	268	Base Case	0	-9.5	-	4.32	0	-0.23%	-0.23%	-0.04%
2621 243299 05HYDRAMATTC	138	243345 05MOORPK	138 1	243299	05HYDRAMATIC	24334	5 05MOORPK	1	1 138	20	5 AEP	251	251	Base Case	0	10.8	-	4.31	0	0.01%	0.01%	0.01%
2622 238575 02BLUBET	138	239042 02PTDGON	138 1	238575	02BLUBEL	23904	2 02 PTDGON	1	1 139	20	2 ATST	177	233	Base Case	0	7.6	-	4 3	0	-0.15%	-0.15%	0.01%
2623 242987 05DEXTER	138	244439 05MEIGS SW22	138 21	242987	05DEXTER	24443	05METGS SW22	21	138	20	5 AEP	158	183	Base Case	0	6.8	-	4,29	0	0.00%	0.00%	0.00%
2624 243218 05DESOTO	345	243225 05KEYSTN	345 1	243218	05DESOTO	24322	5 05KEYSTN	1	1 345	20	5 AEP	897	897	Base Case	0	-38.4	-	4.29	0	-0.09%	-0.09%	-0.44%
2625 242682 05.11M BRANCH	138	247151 05YUKON	138 1	242682	05.TIM BRANCH	24715	05YUKON	1	1 138	20	5 AEP	296	413	Base Case	0	-12.6		4,26	0	-0.05%	-0.05%	0.04%
2626 243781 05MTTCHL FCD	138	246108 05KAMMER24	138 7.2	243781	05MITCHL FGD	24610	3 05KAMMER24	7.2	130	20	5 AEP	747	747	Base Case	0	-31 7	-	4 25	0	0.00%	0.00%	0.00%
2627 243781 05MITCHI FGD	138	246108 05KAMMER24	138 21	243781	05MITCHL FGD	246108	B 05KAMMER24	21	130	20	5 AEP	747	747	Base Case	0	-31 7		4 25	0	0.00%	0.00%	0.00%
2628 242578 05CARB 7	138	242836 05TURNE1	138 1	242579	05CARB Z	24283	5 05TURNE1	1	1 129	20	5 AEP	498	192	Base Case	0	-21 1	-	4 24	0	-0.02%	-0.02%	-0.01%
2629 243298 05GM-ETW	138	244489 05FOGWELT	138 2	243298	05GM-ETW	244480	0.5FOGWELL		2 130	20	5 AEP	226	226	Base Case	0	-9.6	-	4 24	0	0.00%	0.00%	0.00%
2630 243042 05MTLLBP PK1	138	245948 05MTLIBP PK2	138 71	243230	05MTLIBP DK1	245949	B OSMILLER PK2	71	138	20	5 AFP	210	255	Base Case	0	-9.3	-	4.23	0	-0.11%	-0.11%	-0.07%
2631 243011 05 THILDER PRI	139	243148 05WINDET	138 1	243042	05FILTON	240940	CONTROL PRZ	1	1 100	20	5 AFP	101	250	Base Case	0	-9.5	_	4.23	0	0.11%	0.11%	0.06%
2632 243268 05COVINT	138	247132 OSELLISM	139 1	243011	05COVNT	243140	OSPILIOPL	1	1 100	20	5 AFD	205	200	Base Case	0	-9 6		4.23	0	0.10%	0.10%	0.00%
2633 242026 05MATTO	100	246751 05VACCET	765 1	243200	05MALTO	24/13		1	1 7/5	20	5 AFD	A1 AD	1110	Base Case	0	172 /	-	4.22	0	-4 54%	_1 5 / 0/	-0.74%
2634 239543 023cH 2	120	220006 020DDNO2	100 L	230543	0276H 2	23000	COVROSEL	1	1 100	20	2 7001	110	151	Page Case	0	1/3.4	-	4.19	0	-4.54%	0.10%	-0.04%
2635 230006 02000002	130	230010 U23BKNU2	130 1	230043	02CDDNO2	233031		1	1 100	20	2 AIDI 2 ATCT	140	151	Pase Case	0	6.2	-	4.17	0	0.10%	0.19%	-0.04%
2636 239696 03ECEV -	120	239212 UZAUSTŲZ	120 1	239096	025BRNUZ	23921	CORTINA	1	1 120	20	2 ALOL	148	100	Base Case	0	0.2	-	4.1/	0	0.10%	0.19%	0.00%
2000 20000 UZECTI F	120	242520 05VENWO2	120 1	230000	OSDELANO	23009	OSKENNOS		1 100	20	5 AED	001	192	Dase Case	0	- 0. /	-	4.10	0	0.00%	0.00%	0.00%
2037 243497 USDELANU	130	24JJJU UJAENWUZ	130 L	243497	0 J DELANU	243530	O SKENWOZ		1 138	20	J AEP	200	254	Dase Case	0	8.3	-	4.14	0	0.00%	0.00%	0.00%
2639 242907 05CLAIBN	130	24/021 UDRENWUI	130 1	243370	05CDAIDN	24/02.	7 05THILVENEDOR	1	1 100	20	5 AFD	1.67	167	Pase Case	0	0.3	-	4.14	0	0.00%	0.00%	-0.05%
2640 242807 U35PUKN	130	24023/ USTHIVENERZZ	120 1	242807	055POKN	24023	OSTHIVENER22	71	138	20	J AEP	10/	101	Dase Case	0	0.9	-	4.12	0	0.05%	0.03%	-0.05%
2040 242901 USBIGGRC	TJQ	240943 USBIGKIZ	130 21	242961	NUBICCKC	24694	DINORTCKIZ	121	1 138	20	JALF	205	205	Dase Case	0	-8.4	-	4.11	0	0.00%	0.00%	0.00%

		A		В	C	D	E	F	G	н	L	J	К	L	М	N	0	Р	Q	R	S	T U
2641 243058 05NEWARK CTR 1	138	244871 05RIDGELY	138 1	243058	05NEWARK CTR	244871	05RIDGELY	1	138	205 A	EP	292	328	Base Case	0	12	-	4.11	0	0.08%	0.08%	-0.04%
2642 243018 05HEATH 1	138	245964 05N.NEWARK2	138 1	243018	05HEATH	245964	05N.NEWARK2	1	138	205 A	EP	167	167	Base Case	0	6.9	-	4.1	0	-0.06%	-0.06%	0.07%
2643 242587 05CELAN 1	138	242749 05PETERM	138 1	242587	05CELAN	242740	05PETERM	1	138	205 A	EP	205	284	Base Case	0	-8.4	-	4 1	0	-0 11%	-0.11%	-0.25%
2644 243040 05MERCERVI 7 1	138	246237 05THIVENER27	138 1	243040	05MERCERVI 7	246237	05THIVENED27	1	138	205 A	FD	167	167	Base Case	0	-6.8	-	4 1	0	0.03%	0.03%	-0.05%
2645 249592 OPCADUED 3	345	240593 OONTECEN	245 1	245040	09CARVER	240257	09NTECEN	1	245	203 A	FOCK	0000	0000	Base Case	0	-109.9		4.1	0	-0.26%	-0.26%	-0.26%
2646 242478 0500KVER	120	243015 OEDEDDVWOOD	120 1	249502	05555KCUD	249505	0.5 PERRYNOOD	1	120	205 3	ED	220	3555	Base Case	0	_12 0	_	4.09	0	-0.20%	-0.20%	0.01%
2647 242911 05 CDDTNC 1	1 2 0	243913 USBERRIWOOD	130 1	243470	OFORDING	243913	05BERRIWOOD	1	130	205 A	EF	1.67	430	Dase Case	0	-13.8		4.09	0	-0.04%	-0.04%	0.01/6
2647 242811 055PRING 1	130	242831 05W0LFH2	136 1	242011	USSPRING	242001	05WOLFH2	1	130	205 A	EP	107	240	Base Case	0	0.0	-	4.08	0	0.00%	0.00%	-0.14%
2640 243380 05STDBKR 1	138	247828 USULIVERPLOW	138 1	243380	0 05STDBKR	24/828	050LIVERPLOW	1	138	205 A	EP	282	337	Base Case	0	11.5	-	4.08	0	0.03%	0.03%	0.02%
2649 253029 09GRNVIL 1	138	253089 09WMILTN	138 1	253029	9 09GRNVIL	253089	U9WMILTN	1	138	209 D.	AY	165	165	Base Case	0	-6.7	-	4.06	0	0.06%	0.06%	0.07%
2650 243155 USW.NEWTONSS 1	138	245856 USW.NEWTON8	138 Z1	243155	5 USW.NEWTONSS	245856	USW.NEWTON8	21	138	205 A	EP	97	97	Base Case	0	3.9	-	4.06	0	0.00%	0.00%	0.00%
2651 270138 AA2-116 TAP1 3	345	2/0140 AA2-116_PO1	345 1	270138	AA2-116_TAP1	270140	AA2-116_PO1	1	345	205 A	EP	9999	9999	Base Case	0	-405.6	-	4.06	0	-0.42%	-0.42%	-0.34%
2652 242794 05SHACKM 1	138	247149 05WHITWD	138 1	242794	1 05SHACKM	247149	05WHITWD	1	138	205 A	EP	296	398	Base Case	0	-12	-	4.04	0	0.06%	0.06%	0.17%
2653 243395 05WESTINGHS 1	138	246318 05FUSON	138 1	243395	5 05WESTINGHS	246318	05FUSON	1	138	205 A	EP	205	205	Base Case	0	8.2	-	4.02	0	0.01%	0.01%	0.00%
2654 250142 08WARDSC 1	138	250157 08CORNTP	138 1	250142	2 08WARDSC	250157	08CORNTP	1	138	212 D	EO&K	249	249	Base Case	0	10	-	4.02	0	0.02%	0.02%	0.03%
2655 242518 05BROADF 5	500	360106 8SULLIVAN TN	500 1	242518	3 05BROADF	360106	8SULLIVAN TN	1	500	205/347 A	EP/TVA	2119	2119	Base Case	0	-85	-	4.01	0	-1.29%	-1.29%	0.12%
2656 240283 02LKSHQ3 1	138	240284 02LKSHQ4	138 1	240283	3 02LKSHQ3	240284	02LKSHQ4	1	138	202 A	TSI	999	999	Base Case	0	-40	-	4.01	0	0.13%	0.13%	-0.01%
2657 250068 08MPLKL1 1	138	250069 08MPLKL2	138 Z1	250068	08MPLKL1	250069	08MPLKL2	Z1	138	212 D	EO&K	406	454	Base Case	0	16.3	-	4	0	-0.01%	-0.01%	0.00%
2658 243676 05BELLF2 1	138	243699 050XYGEN	138 1	243676	5 05BELLF2	243699	050XYGEN	1	138	205 A	EP	251	335	Base Case	0	10	-	3.98	0	0.00%	0.00%	0.00%
2659 243273 05DARDEN 1	138	243370 05S.BEND1	138 1	243273	05DARDEN	243370	05S.BEND1	1	138	205 A	EP	158	167	Base Case	0	6.2	-	3.92	0	-0.10%	-0.10%	-0.06%
2660 243322 05KENZIE 1	138	244510 05BLOSSOM TR	138 1	243322	2 05KENZIE	244510	05BLOSSOM TR	1	138	205 A	EP	136	167	Base Case	0	5.3	-	3.91	0	0.01%	0.01%	0.02%
2661 238960 02MIDW K 1	138	238962 02MIDWAY	138 ZB	238960	02MIDW K	238962	02MIDWAY	ZB	138	202 A	TSI	579	743	Base Case	0	-22.5	-	3.89	0	-0.02%	-0.02%	0.00%
2662 243016 05HANTHR 1	138	243108 05STRLN1	138 1	243016	5 05HANTHR	243108	05STRLN1	1	138	205 A	EP	185	185	Base Case	0	7.2	-	3.88	0	0.05%	0.05%	-0.05%
2663 238855 02KH Q-1 1	138	238857 02KHTPQ1	138 1	238855	5 02KH Q-1	238857	02KHTPQ1	1	138	202 A	TSI	355	434	Base Case	0	-13.7	-	3.87	0	0.00%	0.00%	0.00%
2664 238558 02B+W AK 1	138	238581 02BRBRTN	138 1	238558	02B+W AK	238581	02BRBRTN	1	138	202 A	TSI	66	66	Base Case	0	-2.5	-	3.86	0	0.00%	0.00%	0.00%
2665 242585 05CAVE SPR1Z 1	138	242663 05HANCK1	138 1	242585	5 05CAVE SPR1Z	242663	05HANCK1	1	138	205 A	EP	187	205	Base Case	0	7.2	-	3.85	0	0.05%	0.05%	0.36%
2666 239070 02RICHLD 1	138	243029 05LCKWRD	138 1	239070	02RICHLD	243029	05LCKWRD	1	138	202/205 A	TSI/AEP	216	223	Base Case	0	8.3	-	3.83	0	0.21%	0.21%	-0.07%
2667 243137 05W.END FOS1 1	138	245422 05W.END FOS2	138 Z1	243137	05W.END FOS1	245422	05W.END FOS2	Z1	138	205 A	EP	335	392	Base Case	0	-12.8	-	3.82	0	0.01%	0.01%	-0.09%
2668 253025 09GIVENS 1	138	253044 09MECHAN	138 1	253025	5 09GIVENS	253044	09MECHAN	1	138	209 D	AY	221	272	Base Case	0	-8.4	-	3.82	0	0.10%	0.10%	0.03%
2669 243298 05GM-FTW 1	138	244489 05FOGWELL	138 3	243298	05GM-FTW	244489	05FOGWELL	3	138	205 A	EP	226	226	Base Case	0	-8.6	-	3.82	0	0.00%	0.00%	0.00%
2670 242627 05E.LYNC 1	138	242737 050POSSUMCK	138 1	242627	05E.LYNC	242737	050POSSUMCK	1	138	205 A	EP	388	510	Base Case	0	14.8	-	3.81	0	0.01%	0.01%	-0.38%
2671 243495 05DAVIDS 1	138	247873 05BRITTON	138 2	243495	5 05DAVIDS	247873	05BRITTON	2	138	205 A	EP	296	398	Base Case	0	11.2	-	3.78	0	-0.01%	-0.01%	0.00%
2672 243381 05SUMMIT 1	138	243389 05WALLEN	138 1	243381	L 05SUMMIT	243389	05WALLEN	1	138	205 A	EP	251	335	Base Case	0	-9.5	-	3.78	0	0.00%	0.00%	-0.05%
2673 242549 05BANSTR 1	138	314668 4BANISTR	138 Z1	242549	05BANSTR	314668	4BANISTR	Z1	138	205/345 A	EP/DVP	219	255	Base Case	0	8.3		3.78	0	0.00%	0.00%	0.00%
2674 243332 05LIQCAR 1	138	244143 05KUCHAR	138 1	243332	2 05LIQCAR	244143	05KUCHAR	1	138	205 A	EP	251	335	Base Case	0	-9.5	-	3.77	0	0.00%	0.00%	0.00%
2675 242581 05CARSWE 1	138	242582 05CARWLZ	138 1	242581	05CARSWE	242582	05CARWLZ	1	138	205 A	EP	167	167	Base Case	0	-6.3	-	3.76	0	0.00%	0.00%	0.00%
2676 243025 05JUNCTN 1	138	246021 05W.LANCAST2	138 1	243025	5 05JUNCTN	246021	05W.LANCAST2	1	138	205 A	EP	167	167	Base Case	0	6.3	-	3.76	0	0.07%	0.07%	-0.03%
2677 238529 02AIRPK+ 1	138	238623 02CLARK	138 1	238529	02AIRPK+	238623	02CLARK	1	138	202 A	TSI	233	282	Base Case	0	-8.7		3.74	0	-0.07%	-0.07%	-0.02%
2678 243116 05SUGARC 1	138	243135 05W DOVE	138 1	243116	05SUGARC	243135	05W DOVE	1	138	205 A	EP	251	251	Base Case	0	-9.3	-	3.72	0	0.00%	0.00%	0.00%
2679 239165 02WAUSE0 1	138	239347 02LEAR	138 1	239165	02WAUSEO	239347	02LEAR	1	138	202 A	TSI	278	343	Base Case	0	10.3	-	3.71	0	-0.07%	-0.07%	0.00%
2680 243048 05N WALD 1	138	244566 05LA RUE	138 1	243048	05N WALD	244566	05LA RUE	1	138	205 A	EP	158	180	Base Case	0	-5.8	-	3.7	0	-0.09%	-0.09%	-0.05%
2681 244198 05LEMASTER 1	138	247097 05LEMASTERT1	138 21	244198	05LEMASTER	247097	05LEMASTERT1	7.1	138	205 A	EP	158	183	Base Case	0	5.8	22	3.69	0	0.00%	0.00%	0.00%
2682 243138 05W.LIBERTYZ 1	138	246376 05W. LTBERTY	138 7.1	243138	3 05W.LIBERTYZ	246376	05W.LIBERTY	Z1	138	205 4	EP	97	97	Base Case	0	3.6	_	3.69	0	0,00%	0.00%	0.00%
2683 243330 05LINCOLN1 1	138	245832 05LINCOLN2	138 21	243330	05LINCOLN1	245832	05LINCOLN2	71	138	205 A	EP	335	392	Base Case	0	12.3	-	3.69	0	0.02%	0.02%	0.02%
2684 242566 05BROADE 1	138	242789 05SALTV2	138 1	242566	5 05BROADE	242789	05SALTV2	1	138	205 4	EP	219	251	Base Case	n	-8.1	-	3.68	0	-0.14%	-0.14%	-0.23%
2685 243318 05 JACKSON RD 1	138	247147 05.TACKSR T4	138 71	243318	05JACKSON RD	247147	05JACKSB T4	21	138	205 A	EP	164	205	Base Case	0	6	-	3.65	0	0.00%	0.00%	0.00%
2686 238752 02GF 0-1 1	138	238753 02GF0-11	138 1	238750	2 02GF 0-1	238753	02GF0-11	1	138	202 1	TST	278	287	Base Case	0	-10.1	_	3 65	0	0.00%	0.00%	0.00%
2687 238752 02CF 0-1 1	130	238755 02CEO-2	130 70	230752	02GF Q 1	230755	02010 11	70	130	202 A	TOT	270	207	Base Case	0	10.1	-	3 65	0	0.00%	0.00%	0.00%
2688 239730 02PEDADC 1	138	230730 02000 2	138 1	230730	020F Q F	230730	02CROMWETT	1	139	202 A	mer	270	207	Base Case	0	_9 5	-	3 64	0	0.00%	0.00%	0.00%
2680 243558 05BTO 1	120	242561 0500DNEV 00	120 1	2/2550	05BTO	2/25/133	05DODNEY 88	1	120	202 A	ED	150	202	Base Case	0	5.5		2 64	0	-0.01%	-0.01%	-0.02%
2600 238022 021 mpo12	1 2 0	2243301 USRODNE1 33	130 1	240000	03100013	240000	03CEVDCO	1	130	203 A	EF mct	100	E 2 2	Dase Case	0	15.0	_	3.04	0	-0.01%	-0.01%	-0.02/6
2000 230922 UZLIEUIZ 1	1 2 0	233223 U2311DCU	120 1	230922	OSNE VODK	239223	023TIDC0	1	130	202 A	101	420	342	Dase Case	0	10.4		3.03	0	-0.02%	-0.02%	0.00%
2602 242620 0EPTPIDATE	120	240042 UZNEE	120 I	239312	OFFICIAL DATES	240842	050UEET D	1	100	202 A	101 ED	2/8	343	Dase Case	0	-10	-	3.01	0	0.01%	0.01%	0.00%
2032 242030 USFIELDALEI I	120	242/3/ USSHEFLD	120 1	242030	05TNDDDV	242/9/	OSN KINCODEO	1	130	205 A	EF	100	101	Dase Case	0	-5.7	-	3.61	0	0.01%	0.01%	0.40%
2005 242077 USINDDKV 1	130	24JZZU UJW.KINGSPTZ	100 1	2426//	OSED O 1	245220	03W.KINGSPT2		138	205 A	DF DCT	201	335	Dase Case	0	-9	-	3.6	0	0.02%	0.02%	0.02%
2054 238/13 U2FB Q-1 1	130	259049 UZPV Q1	130 1	238/13	0003DCTI	239049	02PV QI	1	138	202 A	191	207	332	Dase Case	0	-9.6	-	3.6	0	0.18%	0.18%	0.03%
2095 253011 U9CARGIL 1	138	203003 U9NEEDMO	138 1	253011	U 9CARGIL	253053	O SNEEDMO	1	138	209 D.	AI	196	241	Base Case	0	1	-	3.6	0	0.00%	0.00%	-0.01%
2030 243878 USMEADOW 3	343	2409/4 USMLCS-1	345 Z1	243878	USMEADOW	246974	USMLCS-1	41	345	205 A	EF	1286	1/47	base Case	0	-46.2	-	3.59	0	-0.03%	-0.03%	-0.03%
209/242659 05GRNGST 1	138	243009 USB SAND	138 1	242659	USGRNGST	243669	USB SAND	1	138	205 A	EP	397	397	Base Case	0	-14.2	-	3.58	0	0.06%	0.05%	0.20%
2090 238608 02CARLIL 1	138	238/49 U2GATES	138 1	238608	UZCARLIL	238749	UZGATES	1	138	202 A	151	233	282	Base Case	0	8.3	-	3.58	0	0.05%	0.05%	0.02%
2099 243292 05FALL C 1	138	249810 USNEWCAS	138 1	243292	USFALL C	249810	USNEWCAS	1	138	205/208 A	EP/DEI	250	250	Base Case	0	-8.9	-	3.55	0	0.00%	0.00%	0.08%
2700 239092 02SAMMIS 3	345	239368 02TORONTO	345 1	239092	U2SAMMIS	239368	U2TORONTO	1	345	202 A	TSI	2504	2883	Base Case	0	88.7	-	3.54	0	-4.54%	-4.54%	-2.09%

		A		В	C	D	E	F	G	Н	L	J	К	L.	М	N	0	Р	Q	R	S	T U
2701 250063 08MHLTY1	138	250064 08MHLTY2	138 Z1	250063	08MHLTY1	250064	08MHLTY2	Z1	138	212	2 DEO&K	406	454	Base Case	0	-14.3		3.53	0	0.01%	0.01%	0.00%
2702 238713 02FB 0-1	138	238739 02FWLS01	138 1	238713	02FB 0-1	238739	02FWLSO1	1	138	202	ATSI	273	332	Base Case	0	9.6	-	3.52	0	0.18%	0.18%	0.03%
2703 243325 05LANTEN	138	246318 05FUSON	138 1	243325	05LANTRN	246318	05FUSON	1	138	205	AEP	205	205	Base Case	0	7.2	-	3.51	0	-0.01%	-0.01%	0.00%
2704 243048 05N WALD	138	243148 05WINDEL	138 1	243048	OSN WALD	243148	05WINDEL	1	138	205	SAFP	164	180	Base Case	0	-5.7	-	3 5	0	0.10%	0.10%	0.06%
2705 245077 05CDTSTMTTT	345	253060 000HEIDY	345 1	245040	OSCRIGTMILI	253060	OGCUETRY	1	245	205/200	AED /DAV	1255	1374	Base Case	0	13.9	_	3.5	0	0.10%	0.10%	-0.26%
2706 245364 OBUTLCA CAD	120	247461 05EDEEDVDD	120 71	245977	OSURICA CAD	233003	05FREEDVRD	71	120	203/203	ALF DAL	202	2/1	Base Case	0	-10.2		3.5	0	0.44%	0.00%	0.00%
2700 245264 05011CA CAD	100	247461 OFFEEBIRD	130 21	245264	OSUTICA CAD	247401	OFFREEDIRD	21	130	203	ALF	293	241	Base Case	0	-10.3		3.5	0	0.00%	0.00%	0.00%
2707 245264 05011CA CAD	130	247461 USFREEBIRD	136 23	245264	OSUTICA CAD	24/401	OSFREEBIRD	43	130	203	AEP	293	341	Base Case	0	-10.3	-	3.5	0	0.00%	0.00%	0.00%
2700 242510 USBAKER	/65	242523 USBAKER	345 3	242510	05BAKER	242523	USBAKER	3	/65/345	203	AEP	2512	2788	Base Case	0	-87.8	-	3.49	0	-0.34%	-0.34%	-0.08%
2709 243298 05GM-FTW	138	244489 USFOGWELL	138 1	243298	05GM-FTW	244489	USFOGWELL	1	138	205	AEP	226	226	Base Case	.0	-7.8	-	3.47	0	0.00%	0.00%	0.00%
2710 242915 05STANVILLE2	138	244008 05STANVILLEI	138 Z1	242915	05STANVILLE2	244008	05STANVILLE1	Z1	138	205	AEP	548	601	Base Case	0	-19	-	3.46	0	-0.01%	-0.01%	-0.17%
2/11 238858 02KHTPQ3	138	238863 02KL Q-3	138 1	238858	02KHTPQ3	238863	02KL Q-3	1	138	202	2 ATSI	273	332	Base Case	0	9.4	-	3.46	0	0.00%	0.00%	0.00%
2712 242997 05E.NEWCONCZ	138	245251 05E.NEWCONC	138 Z1	242997	05E.NEWCONCZ	245251	05E.NEWCONC	Z1	138	205	5 AEP	150	212	Base Case	0	5.2	-	3.45	0	0.00%	0.00%	0.00%
2713 240214 02PENNANTTAP	138	240216 02PENNANT	138 1	240214	02PENNANTTAP	240216	02PENNANT	1	138	202	2 ATSI	160	192	Base Case	0	5.5	-	3.44	0	0.00%	0.00%	0.00%
2714 243037 05MEIGS SS	138	244431 05MEIGS 8	138 Z1	243037	05MEIGS SS	244431	05MEIGS 8	Z1	138	205	5 AEP	95	95	Base Case	0	3.3	-	3.43	0	0.00%	0.00%	0.00%
2715 243324 05LAFAY8	138	244183 05LAFAY C SS	138 Z1	243324	05LAFAY8	244183	05LAFAY C SS	Z1	138	205	5 AEP	251	335	Base Case	0	-8.6	-	3.41	0	0.00%	0.00%	0.00%
2716 250105 08TDHNTR	138	250162 08GARVER	138 1	250105	08TDHNTR	250162	08GARVER	1	138	212	2 DEO&K	516	582	Base Case	0	17.5	-	3.4	0	-0.04%	-0.04%	-0.02%
2717 243495 05DAVIDS	138	246603 05DAVID T1T2	138 Z2	243495	05DAVIDS	246603	05DAVID T1T2	Z2	138	205	5 AEP	670	747	Base Case	0	22.6	-	3.38	0	0.00%	0.00%	0.00%
2718 250038 08GOLFMR	138	250118 08TRMNL2	138 1	250038	08GOLFMR	250118	08TRMNL2	1	138	212	2 DEO&K	299	299	Base Case	0	-10.1	-	3.37	0	-0.03%	-0.03%	-0.03%
2719 238719 02FMCQ12	138	238725 02FMQ12H	138 1	238719	02FMCQ12	238725	02FMQ12H	1	138	202	2 ATSI	176	216	Base Case	0	5.9	-	3.36	0	0.00%	0.00%	0.00%
2720 243253 05BLUFFP	138	247536 05BLUFF P WF	138 1	243253	05BLUFFP	247536	05BLUFF P WF	1	138	205	AEP	572	572	Base Case	0	-19.2	-	3.35	0	-0.01%	-0.01%	-0.01%
2721 243471 05BETHEL	138	243495 05DAVIDS	138 1	243471	05BETHEL	243495	05DAVIDS	1	138	205	5 AEP	335	366	Base Case	0	11.2	-	3.35	0	0.02%	0.02%	0.01%
2722 242935 05E LIMA	345	242936 05FOSTOR	345 1	242935	05E LIMA	242936	05FOSTOR	1	345	205	5 AEP	1025	1318	Base Case	0	-34.1	-	3.33	0	0.62%	0.62%	-0.62%
2723 243002 05FAIRCR	138	243092 05SCANTO	138 1	243002	05FAIRCR	243092	05SCANTO	1	138	205	5 AEP	291	291	Base Case	0	9.7	-	3.33	0	0.16%	0.16%	-0.05%
2724 247372 05MUSKNG1C	138	247374 05MUSKNG2B	138 ZA	247372	05MUSKNG1C	247374	05MUSKNG2B	ZA	138	205	AEP	747	747	Base Case	0	-24.8	-	3.32	0	-0.22%	-0.22%	-0.06%
2725 242958 05BATTLE	138	246176 05TUNNEL R C	138 Z1	242958	05BATTLE	246176	05TUNNEL R C	Z1	138	205	5 AEP	205	205	Base Case	0	6.8	-	3.32	0	0.00%	0.00%	0.00%
2726 243867 05FBCS34	345	246756 05FBCS-2	345 1	243867	05FRCS34	246756	05FRCS-2	1	345	205	5 AEP	1001	1631	Base Case	0	33.2	-	3.31	0	-0.02%	-0.02%	-0.02%
2727 249991 08BUFTN1	138	250077 08MTZION	138 1	249991	08BUFTN1	250077	0.8MTZTON	1	138	212	DEORK	298	298	Base Case	0	9.9	-	3,31	0	0.01%	0.01%	-0.12%
2728 243495 05DAVIDS	138	246603 05DAVID T1T2	138 71	243495	05DAVIDS	246603	0504010 1172	71	138	205	5 AEP	685	747	Base Case	0	22.6	-	3 3	0	0.00%	0.00%	0.00%
2729 238699 02ENO-12	138	238719 02FMC012	138 1	238699	02ENO=12	238710	02EMC012	1	138	200	ATST	273	332	Base Case	0	8.9	-	3.28	0	-0.09%	-0.09%	0.00%
2730 243493 05CPCTVS	130	243569 05901200	130 1	230099	05CPCTVC	2/3560	059CTBBO	1	130	202	AIDI	347	317	Base Case	0	3	-	3.20	0	-0.02%	-0.02%	0.00%
2721 243485 05CRCHV5	120	245305 053CIFF0	120 1	243403	05CEDARC	245505	OFFENANCE	1	120	203	ABE	206	270	Base Case	0	-11.5		3.27	0	0.02%	0.02%	0.05%
2731 243680 05CEDARC	130	245915 USREWANEE	130 1	243000	OSCEDARC	243913	OSKEWANEE	75	130	203	ADD	230	510	Base Case	0	24.4		3.20	0	0.00%	0.00%	-0.08%
2732 244024 0550MAC	130	245552 USMIMOSA	138 25	244024	0550MAC	245552	OSMIMOSA	40	130	203	ALF	747	747	Base Case	0	24.4	_	3.26	0	0.00%	0.00%	0.00%
2735 244024 USSUMAC	138	245552 USMIMUSA	138 24	244024	05SUMAC	245552	OSMIMOSA	24	138	203	AEP	747	747	Base Case	0	24.4	-	3.26	0	0.00%	0.00%	0.00%
2734 244024 USSUMAC	138	245552 USMIMUSA	138 28	244024	05SUMAC	245552	USMIMOSA	28	138	205	AEP	747	747	Base Case	0	24.4	-	3.26	0	0.00%	0.00%	0.00%
2735 246383 05FOXGLOVE	138	246385 05JUGST /-11	138 29	246383	05FOXGLOVE	246385	05JUGST /-11	Z9	138	205	AEP	/4/	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2736 244024 05SUMAC	138	245552 05MIMOSA	138 Z6	244024	05SUMAC	245552	05MIMOSA	Z6	138	205	AEP	747	747	Base Case	0	24.4	-	3.26	0	0.00%	0.00%	0.00%
2737 246383 05FOXGLOVE	138	246385 05JUGST 7-11	138 Z8	246383	05FOXGLOVE	246385	05JUGST 7-11	Z8	138	205	5 AEP	747	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2738 246383 05FOXGLOVE	138	246385 05JUGST 7-11	138 Z7	246383	05FOXGLOVE	246385	05JUGST 7-11	Z7	138	205	5 AEP	747	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2739 244024 05SUMAC	138	245552 05MIMOSA	138 Z7	244024	05SUMAC	245552	05MIMOSA	Z7	138	205	5 AEP	747	747	Base Case	0	24.4	-	3.26	0	0.00%	0.00%	0.00%
2740 246383 05FOXGLOVE	138	246385 05JUGST 7-11	138 Z6	246383	05FOXGLOVE	246385	05JUGST 7-11	Z6	138	205	5 AEP	747	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2741 246383 05FOXGLOVE	138	246385 05JUGST 7-11	138 ZO	246383	05FOXGLOVE	246385	05JUGST 7-11	Z0	138	205	5 AEP	747	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2742 245952 05DLAWAR1	138	245962 05DLAWAR3	138 Z1	245952	05DLAWAR1	245962	05DLAWAR3	Z1	138	205	5 AEP	670	747	Base Case	0	21.7	-	3.24	0	0.01%	0.01%	0.01%
2743 243363 05REED	138	243384 05TRIER	138 1	243363	05REED	243384	05TRIER	1	138	205	5 AEP	219	251	Base Case	0	7	-	3.22	0	-0.07%	-0.07%	-0.05%
2744 243330 05LINCOLN1	138	243366 05ROB PK12	138 1	243330	05LINCOLN1	243366	05ROB PK12	1	138	205	5 AEP	167	240	Base Case	0	-5.4	-	3.22	0	-0.06%	-0.06%	-0.04%
2745 243388 05W SIDE	138	247828 050LIVERPLOW	138 1	243388	05W SIDE	247828	050LIVERPLOW	1	138	205	5 AEP	282	392	Base Case	0	-9	-	3.21	0	0.03%	0.03%	0.02%
2746 250029 08FOSTER	138	250137 080BANNV	138 1	250029	08FOSTER	250137	080BANNV	1	138	212	2 DEO&K	291	291	Base Case	0	9.3	-	3.2	0	-0.03%	-0.03%	-0.03%
2747 243496 05CONGRES SS	138	244267 05DEGUSSA	138 1	243496	05CONGRES SS	244267	05DEGUSSA	1	138	205	5 AEP	143	143	Base Case	0	4.6	-	3.19	0	0.00%	0.00%	0.00%
2748 243243 05ANDCT	138	249700 08CADIZ	138 1	243243	05ANDCT	249700	08CADIZ	1	138	205/208	AEP/DEI	136	143	Base Case	0	4.3	-	3.18	0	-0.04%	-0.04%	-0.05%
2749 246325 05NOTTINGH56	138	246327 05NOTTINGH78	138 Z6	246325	05NOTTINGH56	246327	05NOTTINGH78	Z6	138	205	5 AEP	747	747	Base Case	0	23.8		3.18	0	-0.16%	-0.16%	0.03%
2750 246325 05NOTTINGH56	138	246327 05NOTTINGH78	138 Z5	246325	05NOTTINGH56	246327	05NOTTINGH78	Z5	138	205	5 AEP	747	747	Base Case	0	23.8	-	3.18	0	-0.16%	-0.16%	0.03%
2751 245948 05MILLBR PK2	138	245949 05MLBRPK ARG	138 ZE	245948	05MILLBR PK2	245949	05MLBRPK ARG	ZE	138	205	5 AEP	240	296	Base Case	0	-7.6	-	3.17	0	0.04%	0.04%	0.04%
2752 242710 05MARROB	138	246923 05NEWSOM	138 1	242710	05MARROB	246923	05NEWSOM	1	138	205	5 AEP	195	22.0	Base Case	0	-6.1	-	3.13	0	0.00%	0.00%	0.00%
2753 243233 05TANNER	345	249565 08EBEND	345 1	243233	05TANNER	249565	08EBEND	1	345	205/212	2 AEP/DEO&K	1409	1409	Base Case	0	-43.9	-	3.11	0	-0.04%	-0.04%	-0.09%
2754 243562 05R058	138	247148 05SBLMSS	138 1	243562	05BOSS	247148	05SBLMSS	1	138	200/212	5 AEP	296	361	Base Case	0	9.1	_	3 08	0	-0.07%	-0.07%	0.01%
2755 242553 05BETH	130	242671 05HOPKIN	138 1	242553	05BETH	242671	05HOPKIN	1	130	200	AEP	105	220	Base Case	0	-6	_	3.00	0	0.00%	0.00%	0.00%
2756 246754 05FONTED	700	246755 05FDCC=1	345 1	216754	05FOWLEP	246755	05FRCS-1	1	730	203	AFP	1001	1502	Base Case	0	-30 5		3 05	0	-0.00%	-0.02%	-0.02%
2757 242624 05DTOWLER	120	240703 0500000	138 1	240/34	05DTCKEN	210133	05SEVTON	1	120	203	5 AED	150	107	Base Case	0	-1 0		3.03	0	0.02%	0.02%	0.02%
2758 242024 USDICKEN	138	242/93 USSEATUN	130 L	242024	OSDICKEN	242/93	05DUMONT		130	203	AD	1740	1000	Dase Case	0	-4.8	-	3.03	0	0.00%	0.00%	0.00%
2750 243200 USDUMUNT	100	243219 USDUMUNT	120 77	243206	03DUMONT	243219	03DUMONT	3	100/340	205	ABP	1/40	1908	Dase Case	0	12.0		3.03	0	0.49%	0.49%	0.07%
2/35 238833 UZJGSQ12	138	239223 UZSTYDCU	130 1	238835		239225	02STIDCO	44	138	202	ATSI	425	522	base Case	0	-12.8	-	3.02	0	-0.02%	-0.02%	0.00%
2/00/243512 05DIAMONDISS	138	24682/ USDIAMOND I	138 1	243512	USDIAMONDISS	246827	I DINOMAIDEU	1	138	205	AEP	227	306	Base Case	0	6.8	-	3	0	0.00%	0.00%	0.00%

	А		В	C	D E		F	G	H I	J	K	Ĺ.	М	N	0	Р	Q	R	S	T U
2761 238775 02GXQ-14	138 238809 02HMLQ14	138 1	238775	02GXQ-14	238809 02HMLQ14		1	138	202 ATSI	176	229	Base Case	0	-5.3	-	2.98	0	0.15%	0.15%	0.02%
2762 242979 05CANNELV	SS 138 243888 05CANNELV8	138 Z1	242979	05CANNELV SS	243888 05CANNELV8	8 Z1		138	205 AEP	145	145	Base Case	0	4.3	-	2.96	0	0.00%	0.00%	0.00%
2763 238954 02MCDOWL	138 239350 02CAMPBL	138 1	238954	02MCDOWL	239350 02CAMPBL		1	138	202 ATSI	278	339	Base Case	0	-8.2	-	2.95	0	0.61%	0.61%	0.00%
2764 242761 05RAGLDZ	138 242810 05SPRIG2	138 1	242761	05RAGLDZ	242810 05SPRIG2	-	1	138	205 AEP	167	167	Base Case	0	-4.9	-	2.95	0	-0.06%	-0.06%	-0.04%
2765 250087 08QUNGT1	138 250124 08WENDEA	138 1	250087	08QUNGT1	250124 08WENDEA		1	138	212 DEO&K	268	268	Base Case	0	-7.9	-	2.95	0	0.01%	0.01%	0.02%
2766 239077 02RVERBD	138 239166 02WCKLIF	138 1	239077	02RVERBD	239166 02WCKLIF		1	138	202 ATSI	223	223	Base Case	0	6.6	-	2.94	0	-0.09%	-0.09%	-0.03%
2767 243295 05GARRETT	N 138 246769 05MINERR	138 1	243295	05GARRETT N	246769 05MINERR		1	138	205 AEP	251	335	Base Case	0	7.4	-	2.94	0	0.05%	0.05%	0.03%
2768 243562 05ROSS	138 243570 05CLAYBN	138 1	243562	05ROSS	243570 05CLAYBN	-	1	138	205 AEP	323	449	Base Case	0	9.5	-	2.94	0	0.00%	0.00%	0.05%
2769 242650 05GLENL1	138 242651 05GLENL2	138 71	242650	05GLENL1	242651 05GLENL2	7.1		138	205 AEP	285	368	Base Case	0	8.3		2.93	0	0.01%	0.01%	-0.17%
2770 242508 05AMOS	765 242516 05MOUNTN	765 1	242508	05AMOS	242516 05MOUNTN		1	765	205 AEP	4047	4571	Base Case	0	118 5	-	2.93	0	-1.98%	-1.98%	3.43%
2771 242705 05LOGAN2	138 242735 05NPOINT	138 1	242705	051.06112	242735 05NPOINT		1	138	205 AEP	389	559	Base Case	0	11 3	-	2.99	0	0.02%	0.02%	0.31%
2772 239113 0350 0-2	130 242733 03NF0INI	120 1	232103	0.28B 0-2	230212 020101N1	-	1	120	202 ATET	149	151	Base Case	0	11.5		2.05	0	-0.18%	-0.10%	0.01%
2772 241029 023702	130 233212 02203102	130 1	239113	0235 Q-2	239212 02A031Q2		1	1.20	202 AISI	140	101	Base Case	0	4.5		2.09	0	-0.10%	-0.19%	0.04%
2774 220127 02AVQ2	130 241929 02AVQ5	130 1	241920	02AVQ2	241929 02AVQ5		1	100	202 A151	999	333	Base Case	0	-20.7	-	2.00	0	-0.09%	-0.09%	0.00%
2774 239127 025TRIKE	138 239351 UZEASTRAIT	138 1	239127	OFWARVE	239351 UZEASTFAT	1	1	138	202 ATS1	210	262	Base Case	0	0.2	-	2.85	0	-0.04%	-0.04%	0.00%
2775 245555 05MARKWEST	138 247156 USSTEAMT	138 22	245555	05MARKWEST	24/156 05STEAMT	22		138	205 AEP	/4/	747	Base Case	0	-21.3	-	2.84	0	0.00%	0.00%	0.00%
2776 245555 05MARKWEST	138 247156 05STEAMT	138 Z3	245555	05MARKWEST	247156 05STEAMT	Z	3	138	205 AEP	747	747	Base Case	0	-21.3	-	2.84	0	0.00%	0.00%	0.00%
2/// 245555 05MARKWEST	138 247156 05STEAMT	138 Z4	245555	05MARKWEST	247156 05STEAMT	Z4	1	138	205 AEP	747	747	Base Case	0	-21.3	-	2.84	0	0.00%	0.00%	0.00%
2//8 245555 05MARKWEST	138 247156 05STEAMT	138 Z1	245555	U5MARKWEST	247156 05STEAMT	Z1		138	205 AEP	747	747	Base Case	0	-21.3	-	2.84	0	0.00%	0.00%	0.00%
2779 238941 02MANSFD	345 240069 02LORDSTOWN	345 1	238941	02MANSFD	240069 02LORDSTON	WN	1	345	202 ATSI	1380	1646	Base Case	0	39	-	2.83	0	0.16%	0.16%	0.10%
2780 243574 05SUNBURY	SS 138 247291 05SUNBURY8	138 Z1	243574	05SUNBURY SS	247291 05SUNBURY8	8 Z1		138	205 AEP	223	223	Base Case	0	6.3	-	2.83	0	0.00%	0.00%	0.00%
2781 238830 02IWQ-16	138 239210 02IOQ-16	138 1	238830	02IWQ-16	239210 02I0Q-16		1	138	202 ATSI	273	332	Base Case	0	7.7	-	2.82	0	0.02%	0.02%	0.00%
2782 250042 08HANDS1	138 250043 08HANDS2	138 Z1	250042	08HANDS1	250043 08HANDS2	ZI	E	138	212 DEO&K	406	454	Base Case	0	-11.4	-	2.82	0	0.02%	0.02%	0.07%
2783 238771 02GTQ-11	138 238792 02HDGQ11	138 1	238771	02GTQ-11	238792 02HDGQ11		1	138	202 ATSI	273	332	Base Case	0	-7.7	-	2.81	0	0.06%	0.06%	-0.02%
2784 246913 05JONES	138 247116 05ALADDIN	138 1	246913	05JONES	247116 05ALADDIN		1	138	205 AEP	205	284	Base Case	0	-5.7	-	2.8	0	-0.02%	-0.02%	-0.01%
2785 242666 05HAZELH	138 242679 05INGSTR	138 1	242666	5 05HAZELH	242679 05INGSTR		1	138	205 AEP	251	325	Base Case	0	7	-	2.78	0	0.00%	0.00%	0.00%
2786 243287 05E.ELKHAP	T 138 243351 05NORTHL	138 1	243287	05E.ELKHART	243351 05NORTHL		1	138	205 AEP	205	284	Base Case	0	5.7	-	2.78	0	0.04%	0.04%	0.02%
2787 238881 02LTFQ16	138 239210 02IOQ-16	138 1	238881	02LTFQ16	239210 02I0Q-16		1	138	202 ATSI	273	332	Base Case	0	-7.5	-	2.75	0	0.02%	0.02%	0.00%
2788 238957 02MFLDQ2	138 239020 02NW Q-2	138 1	238957	02MFLDQ2	239020 02NW Q-2		1	138	202 ATSI	176	229	Base Case	0	-4.8	-	2.73	0	-0.15%	-0.15%	0.04%
2789 242519 05CLOVRD	500 314912 8LEXNGTN	500 1	242519	05CLOVRD	314912 8LEXNGTN		1	500	205/345 AEP/DVP	3610	3610	Base Case	0	-97.1	-	2.69	0	5.58%	5.58%	4.36%
2790 250035 08FTRM11	138 250029 08FOSTER	138 1	250035	08FTRM11	250029 08FOSTER		1	138	212 DE0&K	9999	9999	Base Case	0	268.8	-	2.69	0	0.06%	0.06%	0.01%
2791 242808 05SPORNS	138 246954 05YELLWB	138 2	242808	05SPORNS	246954 05YELLWB		2	138	205 AEP	257	257	Base Case	0	6.9	-	2.68	0	0.00%	0.00%	0.00%
2792 246948 05POLYSS	138 246954 05YELLWB	138 1	246948	05POLYSS	246954 05YELLWB	-	1	138	205 AEP	257	257	Base Case	0	-6.9	-	2.68	0	0.00%	0.00%	0.00%
2793 243493 05CRVERD	138 246633 05ZETGLEB8	138 21	243493	05CRVERD	246633 05ZEIGLEB	8 21	-	138	205 AEP	200	200	Base Case	0	5.4		2.68	0	0.00%	0.00%	0.00%
2794 238695 02FTW+	138 239958 02ELW 052	138 1	238695	02FTW+	239958 02ELW OS2	0 11	1	138	202 2051	160	192	Base Case	0	4 3	-	2.68	0	0.00%	0.00%	0.00%
2795 250107 08TODM15	138 250105 02EEW.Q02	138 1	250107	0.08TODM15	250105 08mpuNmp		1	139	212 DEOLK	0000	0000	Base Case	0	266.7	_	2.00	0	-0.03%	-0.03%	-0.04%
2796 242147 05WTLDCPK	22 128 244645 05WILDORK 9	120 21	242147	OSIGDAID	244645 05WILDORK	0 71	1	120	205 AFD	105	257	Base Case	0	200.7		2.07	0	0.00%	0.00%	0.00%
2797 243147 05WILDCRK	130 244043 05WILDERK 0	130 4	243147	OSWILDCRR SS	244043 05WILDCRK	0 41		1.20	205 AEF	105	257	Base Case	0	4.9	0.05	2.00	0	0.00%	0.00%	0.00%
2797 242808 USSPORNS	138 246948 05POLISS	138 4	242808	05SPORNS	246948 05POLISS		4	138	205 AEP	257	257	Base Case	0	6.8		2.65	0	0.00%	0.00%	0.00%
2798 243497 USDELANO	138 243562 05ROSS	138 2	243497	05DELANO	243562 U5ROSS		2	138	205 AEP	323	449	Base Case	0	-8.5		2.62	0	0.00%	0.00%	0.05%
2799 250001 08COLINV	138 250144 08HUSTRC	138 1	250001	OSCOLINV	250144 08HUSTRC	-	1	138	212 DEO&K	178	178	Base Case	0	4.6	-	2.56	0	-0.06%	-0.06%	-0.06%
2800 242642 05FRANKLIN	138 242643 05FRANK5	138 Z1	242642	2 05FRANKLIN	242643 05FRANK5	ZI		138	205 AEP	329	361	Base Case	0	-8.4	-	2.54	0	0.04%	0.04%	-0.19%
2801 247700 05YAGER	138 247702 05AZALEA	138 1	247700	05YAGER	247702 05AZALEA		1	138	205 AEP	296	413	Base Case	0	7.5	-	2.54	0	0.00%	0.00%	0.00%
2802 250108 08TODM16	138 250105 08TDHNTR	138 1	250108	08TODM16	250105 08TDHNTR		1	138	212 DEO&K	9999	9999	Base Case	0	253.6	~	2.54	0	-0.03%	-0.03%	-0.04%
2803 238850 02JUNIPE	345 239358 02GLENWILLOW	345 1	238850	02JUNIPE	239358 02GLENWILI	LOW	1	345	202 ATSI	1370	1720	Base Case	0	-34.7	-	2.53	0	1.37%	1.37%	-0.41%
2804 250109 08TODM17	138 250105 08TDHNTR	138 1	250109	08TODM17	250105 08TDHNTR		1	138	212 DEO&K	9999	9999	Base Case	0	253.3	-	2.53	0	-0.03%	-0.03%	-0.04%
2805 242809 05SPRIG1	138 242810 05SPRIG2	138 Z1	242809	05SPRIG1	242810 05SPRIG2	ZI	L .	138	205 AEP	296	296	Base Case	0	-7.3		2.48	0	0.02%	0.02%	-0.04%
2806 248013 06PIERCE	345 249564 08BUFTN1	345 1	248013	06PIERCE	249564 08BUFTN1		1	345	206/212 OVEC/DEO&K	971	971	Base Case	0	23.9	-	2.47	0	0.32%	0.32%	0.06%
2807 242660 05H.RIDG	138 244192 05BALLS GAP	138 1	242660	05H.RIDG	244192 05BALLS GA	AP	1	138	205 AEP	167	167	Base Case	0	-4.1	-	2.46	0	0.06%	0.06%	0.02%
2808 243223 05JACKSON	RD 345 243234 05TWIN B	345 1	243223	05JACKSON RD	243234 05TWIN B		1	345	205 AEP	971	971	Base Case	0	-23.9	-	2.46	0	0.07%	0.07%	0.08%
2809 242647 05G.BRAN	138 242751 05PIGEON	138 1	242647	05G.BRAN	242751 05PIGEON		1	138	205 AEP	287	334	Base Case	0	-7	2 <u>22</u>	2.44	0	0.00%	0.00%	0.00%
2810 242535 05ALUMRG	138 242610 05CLYTR3	138 1	242535	05ALUMRG	242610 05CLYTR3		1	138	205 AEP	180	227	Base Case	0	-4.4	-	2.43	0	-0.05%	-0.05%	-0.60%
2811 238990 02NB Q18	138 240351 02IV-NB+18	138 ZL	238990	02NB Q18	240351 02IV-NB+18	8 ZI	2	138	202 ATSI	260	309	Base Case	0	-6.3	-	2.42	0	0.00%	0.00%	0.00%
2812 238740 02FWLSQ2	138 239050 02PV Q2	138 1	238740	02FWLSQ2	239050 02PV Q2		1	138	202 ATSI	103	132	Base Case	0	-2.5	-	2.41	0	0.25%	0.26%	0.02%
2813 238596 02IXQ-1	138 238598 02CADQ18	138 1	238596	02IXQ-1	238598 02CADQ18		1	138	202 ATSI	273	332	Base Case	0	-6.6	22	2.41	0	0.00%	0.00%	0.00%
2814 238716 02FIRSTN	138 239144 02URBAN	138 1	238716	02FIRSTN	239144 02URBAN		1	138	202 ATSI	233	249	Base Case	0	5.6	~	2.4	0	0.06%	0.06%	0.06%
2815 243455 05CONES	345 243458 05HYATT	345 1	243455	05CONES	243458 05HYATT		1	345	205 AEP	1217	1245	Base Case	0	29.1	-	2.39	0	0.28%	0.28%	-0.02%
2816 242569 05BRUSHT	138 243945 05LYNBROOK	138 1	242569	05BRUSHT	243945 05LYNBROOF	ĸ	1	138	205 AEP	548	590	Base Case	0	13.1	-	2.39	0	0.01%	0.01%	0.44%
2817 238845 02.JONSON	138 239275 02FLDSTN	138 1	238845	02JONSON	239275 02FLDSTN		1	138	202 ATST	233	282	Base Case	n	5.5	_	2.38	0	-0.04%	-0.04%	-0.02%
2818 238508 02EBER	138 238897 021.TOATR	138 1	238508	02EBER	238897 021.10219		1	138	202 ATST	233	202	Base Case	0	6.6	_	2.55	0	0.00%	0.00%	0.00%
2819 243206 05DUMONT	765 243219 05DUMONT	345 2	243206	05DUMONT	243219 05DUMONT		2 -	765/345	205 AEP	2250	2250	Base Case	0	53	-	2.30	0	0.49%	0.49%	0.57%
2820 240281 021 KGHO1	139 240292 02188002	139 1	240200	021 KGHO1	240282 02188002		1	120	202 705	000	2230	Baco Case	0	-23 5		2.50	0	-0.01%	-0.01%	-0.01%
LOLO 240201 USTUDUAT	TOO SHOROS OSTROUĂS	T 0.6T	240201	- USUNGINGT	240202 UZENDRUZ		±	130	202 0101	229	239	Lase case	U	23.3		2.00	U	0.01/0	-0.01/0	0.01/0

	А	B C	D	E	F	G	НІ	J	К	L M	N	0	Р	Q	R	S	T U
2821 238720 02FMCQ13 13	38 238741 02FWLSQ3 138 1	238720 02FMCQ13	238741	02FWLSQ3	1	138	202 ATSI	267	332	Base Case 0	-6.3	-	2.35	0	-0.10%	-0.10%	-0.01%
2822 244198 05LEMASTER 13	38 247148 05SBLMSS 138 1	244198 05LEMASTER	247148	05SBLMSS	1	138	205 AEP	296	361	Base Case 0	-6.9	-	2.34	0	-0.07%	-0.07%	0.01%
2823 242995 05EASTOW 13	38 243136 05W LTMA 138 1	242995 05EASTOW	243136	0.5W LITMA	1	138	205 AEP	205	255	Base Case 0	4.8	-	2.34	0	0.01%	0.01%	-0.06%
2824 247700 05YAGER 13	38 247703 05LEESVILLE 138 1	247700 05YAGEB	247703	05LEESVILLE	1	138	205 AEP	296	413	Base Case 0	6.9	-	2 33	0	0.00%	0.00%	0.00%
2825 238714 02FB 0-3 13	38 238762 02GR 0-3 138 1	238714 02FB 0-3	238762	02GB 0-3	1	138	202 ATST	273	332	Base Case 0	-6.4	-	2 33	0	0.18%	0.18%	0.01%
2826 243037 05METCS SS 13	38 244439 05METCS SW27 138 1	243037 05METCE SE	211139	05METCS SW27	1	139	205 AFP	140	140	Base Case 0	-3.3	-	2.33	0	0.10%	0.00%	0.00%
2827 243357 05PENDLETON1 13	38 246656 05PENDLETON2 138 71	243357 05PENDIETON1	246656	05PENDIETON2	71	138	205 AEP	21.0	255	Base Case 0	5.5	-	2.55	0	0.00%	0.03%	0.03%
2027 243337 03FENDLETONT 13	30 240050 USFENDLETONZ 150 21	243337 USPENDLETONI	240030	03CERDLEIONZ	1 1	130	203 AEr	150	101	Base Case 0			2.3	0	0.03%	0.03%	0.03%
2020 230373 02NAFMON 13	20 242142 0ENAVITE 120 1	242077 05 DDOMNY	2/21/2	OEWNWITE	1	120	205 AFD	251	225	Base Case 0	-3.5		2.3	0	-0.03%	0.03%	-0.01%
2029 245077 05PROMWI 13	20 243142 USWAIVIE 130 1	245077 05PROMW1	243142	05WAIVIE	1	120	205 AEP	150	100	Base Case 0	-5.7	-	2.27	0	0.02%	0.02%	0.01%
2830 245822 USLIGONIERI I:	38 247433 USCHARGER 138 1	245822 USLIGONIERI	247433	05CHARGER	1	138	205 AEP	158	183	Base Case U	-3.6	-	2.27	0	0.00%	0.00%	0.00%
2831 242561 05BOONSBORO 13	38 242765 USREUSENSI 138 1	242561 USBOONSBORO	242765	05REUSENS1	1	138	205 AEP	167	240	Base Case 0	-3.8	-	2.26	0	0.01%	0.01%	-0.51%
2832 243296 05GASTON 13	38 243343 05MISSIS 138 1	243296 05GASTON	243343	05MISSIS	1	138	205 AEP	257	360	Base Case 0	-5.8	-	2.26	0	-0.05%	-0.05%	-0.04%
2833 243057 05NEW LIBRI 13	38 245905 05NEW LIBR2 138 Z1	243057 05NEW LIBR1	245905	05NEW LIBR2	Z1	138	205 AEP	187	240	Base Case 0	-4.2	-	2.26	0	-0.08%	-0.08%	0.06%
2834 253026 09GREENE 13	38 253083 09TREBEI 138 1	253026 09GREENE	253083	09TREBEI	1	138	209 DAY	301	373	Base Case 0	6.8		2.26	0	-0.04%	-0.04%	-0.02%
2835 239078 02RYAN 13	38 239100 02SEVILL 138 1	239078 02RYAN	239100	02SEVILL	1	138	202 ATSI	233	282	Base Case 0	-5.3	-	2.26	0	0.05%	0.05%	0.04%
2836 243294 05FLWRFD8 SS 13	38 246565 05FLWRFD8 138 Z1	243294 05FLWRFD8 SS	246565	05FLWRFD8	Z1	138	205 AEP	195	220	Base Case 0	4.4	-	2.26	0	0.00%	0.00%	0.00%
2837 238777 02HAMIL+ 13	38 238778 02HAMILT 138 1	238777 02HAMIL+	238778	02HAMILT	1	138	202 ATSI	195	195	Base Case 0	4.4	-	2.25	0	0.00%	0.00%	0.00%
2838 242608 05CLYTR1 13	38 242791 05SCHRIS 138 1	242608 05CLYTR1	242791	05schris	1	138	205 AEP	164	167	Base Case 0	-3.7	-	2.25	0	0.13%	0.13%	0.10%
2839 243036 05MEIG 2 13	38 244439 05MEIGS SW2Z 138 1	243036 05MEIG 2	244439	05MEIGS SW2Z	1	138	205 AEP	158	183	Base Case 0	-3.5	-	2.23	0	0.00%	0.00%	0.00%
2840 238698 02ENQ-11 13	38 238806 02HMLQ11 138 1	238698 02ENQ-11	238806	02HMLQ11	1	138	202 ATSI	273	332	Base Case 0	6.1	-	2.22	0	-0.19%	-0.19%	-0.02%
2841 247008 05CLARKB 13	38 247009 05KEYSTO 138 Z1	247008 05CLARKB	247009	05KEYSTO	Z1	138	205 AEP	383	449	Base Case 0	8.5	-	2.22	0	0.00%	0.00%	0.00%
2842 238530 02ALLEN 34	45 238961 02MIDWAY 345 1	238530 02ALLEN	238961	02MIDWAY	1	345	202 ATSI	1364	1627	Base Case 0	-30.1	-	2.21	0	0.37%	0.37%	0.09%
2843 242587 05CELAN 13	38 242731 05NBLACK 138 1	242587 05CELAN	242731	05NBLACK	1	138	205 AEP	205	205	Base Case 0	-4.5	-	2.19	0	0.11%	0.11%	0.25%
2844 240282 02LKSHQ2 13	38 240283 02LKSHQ3 138 1	240282 02LKSHQ2	240283	02LKSHQ3	1	138	202 ATSI	999	999	Base Case 0	-21.9	-	2.19	0	0.14%	0.14%	0.01%
2845 246779 05S.ABINGDN2 13	38 247819 05S.ABINGDN1 138 Z1	246779 05S.ABINGDN2	247819	05S.ABINGDN1	Z1	138	205 AEP	747	747	Base Case 0	16.2		2.17	0	0.00%	0.00%	-0.14%
2846 238665 02DS Q-1 13	38 238666 02DS Q-3 138 ZB	238665 02DS Q-1	238666	02DS Q-3	ZB	138	202 ATSI	999	999	Base Case 0	21.6	-	2.16	0	-0.03%	-0.03%	0.00%
2847 243792 05LOSANTVILL 34	45 243793 05HEADWTR CS 345 1	243792 05LOSANTVILL	243793	05HEADWTR CS	1	345	205 AEP	961	961	Base Case 0	-20.7	-	2.16	0	-0.01%	-0.01%	-0.01%
2848 242540 05APPLE1 13	38 242541 05APPLE2 138 Z1	242540 05APPLE1	242541	05APPLE2	Z1	138	205 AEP	219	255	Base Case 0	4.7	-	2.15	0	-0.03%	-0.03%	0.05%
2849 238742 02FWLS04 13	38 238763 02GR 0-4 138 1	238742 02FWLS04	238763	02GR 0-4	1	138	202 ATSI	148	151	Base Case 0	3.1	-	2.13	0	-0.24%	-0.24%	-0.03%
2850 243322 05KENZIE 13	38 243376 05SODUS 138 1	243322 05KENZIE	243376	05SODUS	1	138	205 AEP	296	361	Base Case 0	6.3	-	2.12	0	0.02%	0.02%	0.02%
2851 246060 05HICKBY CK2 13	38 246994 05RICKMN 138 1	246060 05HICKBY CK2	246994	0.5RTCKMN	1	138	205 AEP	187	202	Base Case 0	3.9	-	2.11	0	0.06%	0.06%	0.02%
2852 243077 05PROMWY 13	38 243134 05W.CANTON1 138 1	243077 05PROMWY	243134	05W.CANTON1	1	138	205 AEP	219	255	Base Case 0	-4.5	-	2.07	0	-0.02%	-0.02%	-0.01%
2853 238596 02TX0-1 13	38 240249 02CHTAO-1 138 1	238596 021X0-1	240249	02CHTA0-1	1	138	202 ATST	273	332	Base Case	5.6	-	2.05	0	0.00%	0.00%	0.00%
2854 239053 02PVM015 13	38 239331 02NASHDING 138 1	239053 02PVM015	239331	02NASHRING	1	138	202 ATST	273	332	Base Case 0	5.6	-	2.00	0	0.08%	0.08%	-0.02%
2855 246974 05MT CS-1 34	45 246977 05MLCS45 345 1	246974 05MLCS-1	216977	05MLCS45	1	345	205 AFP	1296	1900	Base Case 0	-25.5	-	1 00	0	-0.02%	-0.02%	-0.02%
2856 242479 05PDVCHD 13	20 242574 05010545 545 1	240574 05MLCS 1	240577	OSPILICE V CC	1	120	205 AEF	220	261	Base Case 0	_6 5		1.00	0	0.02%	0.02%	-0.02%
2050 243476 USBRASHR 13	20 243374 USSUNDURI 35 130 1	243470 03BRRSHR	243374	OSSUNBURI SS	1	120	205 AEF	167	167	Base Case 0	-0.5	024	1.50	0	0.04%	0.04%	-0.01%
2057 242341 USAFFLEZ 13	20 242277 DECODENC 120 1	242341 05AFFLE2	243040	OSMERCERVI Z	1	120	205 AEF	257	214	Base Case 0	-5.5		1.97	0	0.03%	0.03%	-0.05%
2650 243313 USHUNT J 13	38 243377 05SORENS 138 1	243313 05HUNT J	243377	OSSORENS	1	138	205 AEP	237	145	Base Case 0	-5		1.96	0	0.09%	0.09%	-0.04%
2059 243081 05R15G5N 13	38 244341 0550FTAIL 55 138 1	243081 05R15G5N	244341	OSSOFTALL SS	1	138	205 AEP	145	145	Base case 0	-2.8	-	1.96	0	0.00%	0.00%	0.00%
2860 242973 USBUCKH8 13	38 247253 05BUCKSS 138 1	242973 05BUCKH8	247253	USBUCKSS	1	138	205 AEP	150	212	Base Case 0	-2.9	-	1.96	0	0.00%	0.00%	0.00%
2861 253025 09GIVENS 13	38 253085 090RBANA 138 1	253025 09GIVENS	253085	09URBANA	1	138	209 DAY	201	220	Base Case 0	3.9	-	1.95	0	0.10%	0.10%	0.03%
2862 243465 05ADDISO 13	38 243561 05RODNEY SS 138 1	243465 05ADDISO	243561	05RODNEY SS	1	138	205 AEP	145	145	Base Case U	-2.8	-	1.94	0	-0.01%	-0.01%	-0.02%
2863 242649 05GARRSN 13	38 242689 USKANAWHAI 138 1	242649 05GARRSN	242689	05KANAWHA1	1	138	205 AEP	219	223	Base Case 0	-4.2	-	1.93	0	0.03%	0.03%	-0.16%
2004 239347 02LEAR 13	38 239348 02WORTHST 138 1	239347 02LEAR	239348	UZWORTHST	1	138	202 ATSI	278	343	Base Case 0	5.4	-	1.93	0	-0.07%	-0.07%	0.00%
2005 244187 05STINK RUN 13	38 244275 05WALHON MTR 138 Z1	244187 USSTINK RUN	244275	USWALHON MTR	Z1	138	205 AEP	205	284	Base Case 0	4	-	1.93	0	0.00%	0.00%	0.00%
2866 243545 05MILTON SS 13	38 246747 05MILTON8 138 Z1	243545 05MILTON SS	246747	05MILTON8	Z1	138	205 AEP	200	246	Base Case 0	3.8	-	1.91	0	0.00%	0.00%	0.00%
2867 242962 05BLDBGZ 13	38 247302 05BLDBG8 138 Z1	242962 05BLDBGZ	247302	05BLDBG8	Z1	138	205 AEP	140	140	Base Case 0	2.6	-	1.89	0	0.00%	0.00%	0.00%
2868 243253 05BLUFFP 13	38 243319 05JAY 138 1	243253 05BLUFFP	243319	05JAY	1	138	205 AEP	257	359	Base Case 0	4.8	-	1.89	0	0.00%	0.00%	0.02%
2869 238696 02ELWOD+ 13	38 238697 02ELWOOD 138 1	238696 02ELWOD+	238697	02ELWOOD	1	138	202 ATSI	164	206	Base Case 0	3.1		1.88	0	0.00%	0.00%	0.00%
2870 243878 05MEADOW 34	45 246975 05MLCS23 345 1	243878 05MEADOW	246975	05MLCS23	1	345	205 AEP	1286	1800	Base Case 0	-24	-	1.87	0	-0.02%	-0.02%	-0.02%
2871 242951 05ADDISONZ 13	38 244938 05ADDISON8 138 Z1	242951 05ADDISONZ	244938	05ADDISON8	Z1	138	205 AEP	205	205	Base Case 0	3.8	-	1.84	0	0.00%	0.00%	0.00%
2872 242508 05AMOS 76	65 242929 05NPROCT 765 1	242508 05AMOS	242929	05NPROCT	1	765	205 AEP	5138	5138	Base Case 0	94.3	-	1.84	0	2.35%	2.35%	1.21%
2873 243561 05RODNEY SS 13	38 246778 05RODNEY8 138 Z1	243561 05RODNEY SS	246778	05RODNEY8	Z1	138	205 AEP	145	177	Base Case 0	2.6	-	1.82	0	0.00%	0.00%	0.00%
2874 246927 05SAND H 13	38 247002 05WAYMSS 138 1	246927 05SAND H	247002	05WAYMSS	1	138	205 AEP	205	255	Base Case 0	-3.7	-	1.81	0	-0.12%	-0.12%	0.05%
2875 243532 05KIRK 13	38 244871 05RIDGELY 138 1	243532 05KIRK	244871	05RIDGELY	1	138	205 AEP	292	328	Base Case 0	5.3	-	1.81	0	-0.08%	-0.08%	0.04%
2876 243154 05WNDSR8 13	38 247277 05WNDSRZ 138 1	243154 05WNDSR8	247277	05WNDSRZ	1	138	205 AEP	205	205	Base Case 0	-3.7	-	1.81	0	0.00%	0.00%	0.00%
2877 243102 05SINK SP8SS 13	38 244942 05SINK SP8 138 Z1	243102 05SINK SP8SS	244942	05SINK SP8	Z1	138	205 AEP	185	249	Base Case 0	3.3	-	1.8	0	0.00%	0.00%	0.00%
2878 250036 08GLNVW1 13	38 250117 08TRMNL1 138 1	250036 08GLNVW1	250117	08TRMNL1	1	138	212 DE0&K	268	268	Base Case 0	-4.8	-	1.78	0	0.03%	0.03%	-0.01%
2879 243040 05MERCERVL 7 13	38 244944 05MERCERVL8 138 71	243040 05MERCERVL 7	244944	05MERCERVL8	Z1	138	205 AEP	200	200	Base Case 0	3.5	-	1.77	0	0.00%	0.00%	0.00%
2880 238547 02AT 34	45 239036 02PERRY 345 1	238547 02AT	239036	02PERRY	1	345	202 ATST	1534	1891	Base Case 0	-26.9	-	1.75	0	-3.28%	-3,28%	0.47%
			0		÷	0.0		2001	2001	0	-0.5		2	5	2.20/0	212070	

	А			В	С	D	E	F	G	НІ	J	К	L	М	N	0	Р	Q	R	S	T U
2881 250132 08WLDER1	138 25013	33 08WLDER2	138 Z1	250132	08WLDER1	250133	08WLDER2	Z1	138	212 DEO&K	468	468	Base Case	0	-8.1	-	1.73	0	-0.03%	-0.03%	-0.02%
2882 243520 05HARGUS	138 24356	69 05SCIPPO	138 1	243520	05HARGUS	243569	05SCIPPO	1	138	205 AEP	223	223	Base Case	0	-3.8	-	1.72	0	0.00%	0.00%	0.00%
2883 238960 02MIDW K	138 23916	63 02WATERV	138 1	238960	02MIDW K	239163	02WATERV	1	138	202 ATSI	308	376	Base Case	0	5.3	-	1.71	0	-0.05%	-0.05%	-0.01%
2884 242938 05MARQUI	345 25307	77 09STUART	345 1	242938	05MARQUI	253077	09STUART	1	345	205/209 AEP/DAY	1233	1372	Base Case	0	-21	-	1.71	0	-1.19%	-1.19%	-1.13%
2885 250054 08LONGBR	138 25007	77 08MTZION	138 1	250054	08LONGBR	250077	08MTZION	1	138	212 DEO&K	254	284	Base Case	0	4.3	-	1.7	0	-0.01%	-0.01%	0.12%
2886 242821 05SUNDL2	138 24282	28 05TENMIL	138 1	242821	05SUNDL2	242828	05TENMIL	1	138	205 AEP	219	223	Base Case	0	-3.7	-	1.69	0	0.03%	0.03%	-0.15%
2887 243336 05MANORZ	138 24640	01 05INDALEXL	138 1	243336	05MANORZ	246401	05INDALEXL	1	138	205 AEP	180	220	Base Case	0	3	-	1.69	0	0.00%	0.00%	0.00%
2888 250073 08MTCHL3	138 25011	10 08CENTRL	138 1	250073	08MTCHL3	250110	08CENTRL	1	138	212 DEO&K	264	264	Base Case	0	4.4	-	1.68	0	-0.03%	-0.03%	-0.02%
2889 242785 055 LYNC	138 24394	44 05GEORGE ST	138 1	242785	05S.LYNC	243944	05GEORGE ST	1	138	205 AEP	287	337	Base Case	0	4.8		1.67	0	-0.01%	-0.01%	-0.44%
2890 246929 05MADDOX	345 24693	30 05BLUECK	345 21	246929	0.5MADDOX	246930	05BLUECK	71	345	205 AEP	2365	2826	Base Case	0	-39.3	-	1.66	0	-0.03%	-0.03%	-0.03%
2891 249994 08CHBLES	138 25012	26 OSWENDWE	138 1	249994	08CHBLES	250126	08WENDWE	1	138	212 DEO&K	234	244	Base Case	0	3.8	-	1.64	0	-0.02%	-0.02%	-0.04%
2892 242972 05BLOOMED SS	138 24538	R4 OSBETHEL CH8	138 21	242972	05BLOOMED SS	245384	05BETHEL CH8	71	138	205 AEP	140	140	Base Case	0	2 3	-	1 64	0	0.00%	0.00%	0.00%
2893 250038 08COLEMP	138 25011	14 08TP7481	138 1	250038	08COLEMP	250114	08727481	1	138	212 DEOSK	406	408	Base Case	0	-6.6	-	1 64	0	0.03%	0.03%	0.03%
2894 243126 057HTVENEP17	138 2462	73 OSTUTVEND CC	139 71	243126	05TUTVENED17	216273	OSTUTVEND CC	71	130	205 AFP	320	361	Base Case	0	5.4	-	1 63	0	0.00%	0.00%	0.00%
2805 242221 05PHCPNF	246 2402	5 7DUNCONUTITE	245 1	243120	05FUCENE	240275	7DUNCONUTLE	1	245	205 /257 AED /AMTI	1602	1702	Base Case	0	27 6		1 62	0	0.62%	0.62%	0.00%
2005 245221 USEUGENE	130 34686	SA OENEGIME	120 1	245221	05EUGENE	340000	A PROVIDE A	1	120	203/33/ AEF/AMIL	210	1/55	Base Case	0	27.0		1.03	0	0.03%	0.03%	0.01%
2050 246963 USWESESS	138 24696	04 USWESLMP	130 I	240903	OSWESESS	246964	OSWESLMP		130	205 AEP	202	200	Base Case	0	5.0	-	1.62	0	0.00%	0.00%	0.00%
2007 240187 USWARION HZ	130 24092	28 USWARION HI	130 41	240107	OSWARION HZ	240920	OSWARION HI	41	100	205 AEP	202	449	Base Case	0	0.2	-	1.02	0	0.00%	0.00%	0.00%
2090 242991 USE SIDE	138 24310	J8 USSIRLNI	138 1	242991	USE SIDE	243108	OSTRENI	1	138	205 AEP	251	201	Base case	0	4		1.6	0	-0.15%	-0.15%	-0.07%
2899 242950 USACADEM	138 24315	53 USWMIVER	138 1	242950	USACADEM	243153	USWMIVER	1	138	205 AEP	158	183	Base Case	0	-2.5	-	1.6	0	-0.06%	-0.06%	0.04%
2300 239113 02SP Q-2	138 23911	LO UZSPXFQ2	138 ZB	239113	UZSP Q-2	239116	UZSPXFQ2	ZB	138	ZUZ ATSI	999	999	Base Case	0	15.7	-	1.58	U	0.00%	0.00%	0.00%
2901 242792 05SCOTSV	138 24444	46 USSOAPSTONE	138 1	242792	USSCOTSV	244446	USSOAPSTONE	1	138	205 AEP	167	167	Base Case	0	-2.6	-	1.57	0	-0.30%	-0.30%	-0.65%
2902 238957 02MFLDQ2	138 24192	23 02ELQ3	138 1	238957	U2MFLDQ2	241923	U2ELQ3	1	138	202 ATSI	265	316	Base Case	0	4.1	-	1.56	0	-0.03%	-0.03%	0.01%
2903 250116 08TRENTON 1	138 25014	44 08HUSTRC	138 1	250116	08TRENTON_1	250144	08HUSTRC	1	138	212 DEO&K	178	178	Base Case	0	-2.8	-	1.55	0	-0.06%	-0.06%	-0.06%
2904 246325 05NOTTINGH56	138 24746	60 05NOTTINGH34	138 Z3	246325	05NOTTINGH56	247460	05NOTTINGH34	Z3	138	205 AEP	747	747	Base Case	0	-11.6	-	1.55	0	0.01%	0.01%	0.00%
2905 246325 05NOTTINGH56	138 24746	60 05NOTTINGH34	138 Z4	246325	05NOTTINGH56	247460	05NOTTINGH34	Z4	138	205 AEP	747	747	Base Case	0	-11.6	-	1.55	0	0.01%	0.01%	0.00%
2906 243036 05MEIG 2	138 24495	50 05WILKSVILLE	138 1	243036	05MEIG 2	244950	05WILKSVILLE	1	138	205 AEP	129	161	Base Case	0	2	-	1.54	0	0.00%	0.00%	0.00%
2907 243107 05SPENCR	138 24630	04 05BUCKINGHAM	138 1	243107	05SPENCR	246304	05BUCKINGHAM	1	138	205 AEP	100	130	Base Case	0	1.5	-	1.54	0	0.00%	0.00%	0.00%
2908 239163 02WATERV	138 23919	91 02JMDUTC	138 1	239163	02WATERV	239191	02JMDUTC	1	138	202 ATSI	308	376	Base Case	0	-4.7	-	1.54	0	0.05%	0.05%	0.01%
2909 238595 02BURTON	138 23870	08 02EVRGRN	138 1	238595	02BURTON	238708	02EVRGRN	1	138	202 ATSI	157	192	Base Case	0	2.4		1.53	0	-0.01%	-0.01%	0.00%
2910 238791 02HCQ-14	138 23905	52 02PV Q4	138 1	238791	02HCQ-14	239052	02PV Q4	1	138	202 ATSI	225	295	Base Case	0	3.4	-	1.53	0	0.08%	0.08%	-0.01%
2911 247803 05SEGRETO	345 25601	19 18PALISD	345 2	247803	05SEGRETO	256019	18PALISD	2	345	205/218 AEP/METC	1306	1530	Base Case	0	-19.9	-	1.52	0	0.39%	0.39%	0.08%
2912 243256 05CABOT SS	138 24678	BO 05CABOT	138 Z1	243256	05CABOT SS	246780	05CABOT	Z1	138	205 AEP	205	205	Base Case	0	3.1	-	1.51	0	0.00%	0.00%	0.00%
2913 238534 02ANGOLA	138 23878	B6 02HAWTHO	138 1	238534	02ANGOLA	238786	02HAWTHO	1	138	202 ATSI	287	335	Base Case	0	-4.3		1.49	0	0.00%	0.00%	0.01%
2914 238589 02BRUSH	138 23930	07 02HARPERQ-21	138 1	238589	02BRUSH	239307	02HARPERQ-21	1	138	202 ATSI	143	146	Base Case	0	2.1	-	1.49	0	-0.02%	-0.02%	0.08%
2915 243252 05BIXLRT	138 24676	69 05MINERR	138 1	243252	05BIXLRT	246769	05MINERR	1	138	205 AEP	251	335	Base Case	0	-3.7	-	1.48	0	0.05%	0.05%	0.03%
2916 238656 02DBQ-11	138 23925	51 02GEQUTZ	138 1	238656	02DBQ-11	239251	02GEQUTZ	1	138	202 ATSI	258	308	Base Case	0	3.8	-	1.47	0	0.00%	0.00%	0.00%
2917 244020 05MINK	138 24682	26 05MINK T3	138 Z3	244020	05MINK	246826	05MINK T3	Z3	138	205 AEP	747	747	Base Case	0	11	22	1.47	0	0.00%	0.00%	0.00%
2918 247803 05SEGRETO	345 25601	19 18PALISD	345 1	247803	05SEGRETO	256019	18PALISD	1	345	205/218 AEP/METC	1409	1793	Base Case	0	-19.9	-	1.41	0	0.39%	0.39%	0.08%
2919 247146 05DALRD8	138 24783	31 05DALMATN SS	138 Z1	247146	05DALRD8	247831	05DALMATN SS	Z1	138	205 AEP	548	601	Base Case	0	-7.6	-	1.38	0	0.00%	0.00%	0.00%
2920 243206 05DUMONT	765 27064	44 WILTON ;	765 1	243206	05DUMONT	270644	WILTON ;	1	765	205/222 AEP/CE	3555	4105	Base Case	0	49	-	1.38	0	4.16%	4.16%	3.06%
2921 245264 05UTICA CAD	138 24746	61 05FREEBYRD	138 Z4	245264	05UTICA CAD	247461	05FREEBYRD	Z4	138	205 AEP	747	747	Base Case	0	-10.3	2	1.37	0	0.00%	0.00%	0.00%
2922 245264 05UTICA CAD	138 24746	61 05FREEBYRD	138 Z2	245264	05UTICA CAD	247461	05FREEBYRD	Z2	138	205 AEP	747	747	Base Case	0	-10.3		1.37	0	0.00%	0.00%	0.00%
2923 243003 05FAYETTE 7	138 24497	71 05FAYETTE8	138 Z1	243003	05FAYETTE Z	244971	05FAYETTE8	Z1	138	205 AEP	205	205	Base Case	0	2.8	-	1.36	0	0.00%	0.00%	0.00%
2924 238608 02CARLIL	138 2392	75 02FLDSTN	138 1	238608	02CARLJL	239275	02FLDSTN	1	138	202 ATST	233	2.82	Base Case	0	3.1	-	1.35	0	0.04%	0.04%	0.02%
2925 238956 02MELDO1	138 23901	11 02NP 0-1	138 1	238956	02MFLD01	239011	02NP 0-1	1	138	202 ATST	265	316	Base Case	0	-3.5	122	1.34	0	0.02%	0.02%	-0.01%
2926 243692 05HAZED1	138 24370	14 05VICCO	138 1	243692	05HAZRD1	243704	05VICCO	1	138	205 AEP	167	240	Base Case	0	-2.2	-	1 33	0	0.09%	0.09%	0.05%
2927 238578 02BORDMN	138 23890	98 02NEVADA	138 1	238578	02BORDMN	238998	02NEVADA	1	138	202 2051	265	316	Base Case	0	-3.5	_	1 32	0	-0.01%	-0.01%	0.04%
2928 238838 02 TTO-11	138 23900	15 02NHT011	138 1	238838	02 TTO-11	230005	02NHT011	1	130	202 ATOT	200	333	Base Case	0	-3.6	-	1 32	0	0.02%	0.01%	-0.03%
2020 242667 054111	120 2427	DO DENNIGII	120 1	230050	05010 11	242720	05NACEI	1	120	205 AFD	205	205	Dase Case	0	2.0	-	1 22	0	-0.01%	-0.01%	-0.03%
2020 220000 03HILL	120 242/2	DO OSTEMOVI	130 1	230004	OSTEMO P	2320000	OSTEMOVN	70	100	200 AEP	203	205	Page Case	0	2.1		1.32	U	-0.01%	-0.01%	0.10%
2921 242670 05U07 072	130 23885	22 OEMODIAN	100 1	238884	OFUOLOT2	238890	OEMODI N	4B	138	202 ATS1	5/9	743	Dase case	0	-/./		1.32	0	-0.02%	-0.02%	0.00%
2022 242670 USHULST2	130 24272	22 USMORLAN	130 1	242670	05HULSTZ	242722	O SMOKLAN	1	138	205 AEP	205	205	Dase Case	0	-2.1	-	1.31	0	-0.02%	-0.02%	-0.19%
2332 240108 U5KAMMER24	138 24612	20 USKAMMER TO	138 26	246108	USKAMMER24	246120	USKAMMER T6	26	138	205 AEP	383	449	Base Case	0	5	-	1.31	U	0.00%	0.00%	0.00%
2933 242594 05CHERCK	138 24260	J4 USCLIFFT	138 1	242594	USCHERCK	242604	USCLIFFT	1	138	205 AEP	251	335	Base Case	0	-3.3	-	1.3	0	0.04%	0.04%	0.12%
2934 249994 08CHRLES	138 25012	24 USWENDEA	138 1	249994	USCHRLES	250124	USWENDEA	1	138	212 DEO&K	234	244	Base Case	0	3	-	1.28	0	-0.01%	-0.01%	-0.04%
2935 250042 08HANDS1	138 25009	97 USSGROVE	138 1	250042	USHANDS1	250097	USSGROVE	1	138	212 DEO&K	194	194	Base Case	0	-2.5	-	1.28	0	-0.02%	-0.02%	-0.07%
2936 243085 055 CAD	138 24746	52 05STONEPLTSS	138 1	243085	05S CAD	247462	05STONEPLTSS	1	138	205 AEP	293	341	Base Case	0	3.7	-	1.27	0	0.21%	0.21%	-0.03%
293/238801 02HL Q-2	138 24028	B3 02LKSHQ3	138 1	238801	02HL Q-2	240283	02LKSHQ3	1	138	202 ATSI	235	271	Base Case	0	3	-	1.26	0	0.00%	0.00%	0.02%
2938 242704 05LOGAN1	138 24270	05 05LOGAN2	138 Z1	242704	05LOGAN1	242705	05LOGAN2	Z1	138	205 AEP	410	498	Base Case	0	-5.2	-	1.26	0	0.01%	0.01%	-0.14%
2939 247004 05GUYAND	138 24700	05 05MACOAL	138 Z1	247004	05GUYAND	247005	05MACOAL	Z1	138	205 AEP	195	220	Base Case	0	2.4	-	1.23	0	0.00%	0.00%	0.00%
2940 238796 02HGHLND	345 23930	03 02NILES	345 1	238796	02HGHLND	239303	02NILES	1	345	202 ATSI	1415	1745	Base Case	0	17.4	-	1.23	0	-0.76%	-0.76%	0.09%

	A			В	C	D	E	F	G	НІ	J	К	L M	N	0	Р	Q	R	S	T U
2941 243311 05ARN HOGAN	138 246913 05JONE	S	138 1	243311	05ARN HOGAN	246913	05JONES	1	138	205 AEP	257	360	Base Case (-3.1	-	1.22	0	-0.02%	-0.02%	-0.01%
2942 242651 05GLENL2	138 242721 05MORG	AN	138 1	242651	05GLENL2	242721	05MORGAN	1	138	205 AEP	134	167	Base Case (-1.6	-	1.22	0	0.07%	0.07%	0.29%
2943 243483 05CRCLVS	138 246784 05CIRC	V T1T2	138 Z1	243483	05CRCLVS	246784	05CIRCV T1T2	Z1	138	205 AEP	996	996	Base Case	12.1	-	1.21	0	0.00%	0.00%	0.00%
2944 243483 05CBCLVS	138 246784 05CTBC	V T1T2	138 22	243483	05CBCLVS	246784	05CIBCV T1T2	7.2	138	205 AEP	996	996	Base Case	12 1	-	1 21	0	0.00%	0.00%	0.00%
2945 238926 02LTV	138 238928 02LTV+		138 1	238926	021.TV	238928	021.TV+	1	138	202 ATST	153	186	Base Case	-1.9		1 21	0	0.00%	0.00%	0.00%
2946 253310 AC1-085 POT	345 253311 AC1-08	5 MAIN	345 1	253310	AC1-085 POT	253311	AC1-085 MAIN	1	345	209 DAY	9999	0000	Paso Caso	-120.7	-	1.21	0	-0.08%	-0.08%	-0.08%
2947 242497 05CHK TAD 7	120 242512 05DTAN	ONDICE	120 1	233310	ACT UUS TOT	2/2512	ACT 005 MAIN	1	120	205 205	216	242	Page Case	-2.6	100	1.21	0	-0.00%	-0.00%	-0.00%
2049 243467 USCHK TAF 2	130 243512 05DIAM	DD	120 1	243407	OSCHA IAF Z	243312	05DIAMONDI35	1	130	205 AEF	105	105	Dase Case	2.0		1.10	0	-0.01/6	-0.01/6	-0.02%
2040 243042 USMILLER FRI	130 243003 0JFIRE		120 1	243042	OSMILLER PRI	243009	OFILEBR	1	130	205 AEF	150	167	Dase Case	1.0		1.19	0	-0.10%	0.10%	0.02%
2949 242676 USINDIAS	130 242732 UJNBR3	11. m. owi	245 1	242070	001NDIA5	242/32	OSNERSIL OSUVARE ONI	1	130	205 AEP	130	1410	Dase Case	11.9	-	1.19	0	0.00%	0.00%	0.05%
2950 239133 02TANGI	130 240523 USHIAI	T SWI	345 I	239133	02TANGI 05PPPPPVPP	246523	OSHIATT SWI	1	120	202/203 ATS1/AEP	971	1419	Base Case	-11.5		1.10	0	0.42%	0.42%	0.30%
2951 247461 USFREEBIRD	130 24/462 055100	EPLISS	130 1	247461	OSFREEBIRD	24/402	05STONEPLISS	1	130	205 AEP	293	341	Base Case	-5.4	-	1.17	0	0.21%	0.21%	-0.03%
2952 243694 USINEZ	138 244572 USMAR1	IKI	138 1	243694	USINEZ	244572	USMARTIKI	1	138	205 AEP	257	349	Base Case	3	-	1.1/	0	0.00%	0.00%	0.00%
2955 243228 USMERIDN	345 243232 0550RE	NS	345 I	243228	USMERIDN	243232	USSORENS	1	345	205 AEP	897	897	Base Case	-10.4	-	1.10	0	0.50%	0.50%	0.42%
2954 238952 02MCD +	138 238953 02MCD	ST	138 1	238952	02MCD +	238953	02MCD ST	1	138	202 ATSI	195	195	Base Case	2.2	100	1.15	0	0.00%	0.00%	0.00%
2955 242829 05TENNE1	138 242830 05TENN	E2	138 21	242829	USTENNEL	242830	05TENNE2	21	138	205 AEP	483	483	Base Case (5.5	-	1.15	0	0.00%	0.00%	-0.02%
2956 239115 02SP Q-4	138 239117 02SPXF	Q4	138 ZB	239115	02SP Q-4	239117	02SPXFQ4	ZB	138	202 ATSI	999	999	Base Case () 11.4	-	1.14	0	0.00%	0.00%	0.00%
2957 242996 05EMERA8	138 247034 05EMER	SS	138 1	242996	05EMERA8	247034	05EMERSS	1	138	205 AEP	200	200	Base Case (-2.3	-	1.14	0	0.00%	0.00%	0.00%
2958 243378 05SPY RUN2	138 246373 05SPY	RUN1	138 Z1	243378	USSPY RUN2	246373	USSPY RUN1	Z1	138	205 AEP	410	498	Base Case (-4.7	-	1.14	0	0.00%	0.00%	0.03%
2959 238835 02JGSQ12	138 238881 02LTFC	16	138 1	238835	U2JGSQ12	238881	U2LTFQ16	1	138	202 ATSI	223	286	Base Case (2.5	-	1.14	0	-0.02%	-0.02%	0.00%
2960 243514 05RJF CORP Z	138 246228 05RJF	CORP	138 Z1	243514	USRJF CORP Z	246228	U5RJF CORP	Z1	138	205 AEP	282	366	Base Case	3.2	-	1.12	0	0.00%	0.00%	0.00%
2961 250087 08QUNGT1	138 250088 08QUNG	Т2	138 Z1	250087	08QUNGT1	250088	08QUNGT2	Z1	138	212 DEO&K	406	454	Base Case (-4.5	-	1.12	0	-0.01%	-0.01%	-0.02%
2962 242573 05CABELL	138 242717 05MILT	ON	138 1	242573	05CABELL	242717	05MILTON	1	138	205 AEP	167	167	Base Case (1.9	-	1.12	0	-0.07%	-0.07%	-0.05%
2963 238823 02INQ-14	138 238829 02IVYC	14	138 1	238823	02INQ-14	238829	02IVYQ14	1	138	202 ATSI	399	488	Base Case (-4.4	-	1.11	0	-0.03%	-0.03%	0.02%
2964 238719 02FMCQ12	138 238807 02HMLQ	12	138 1	238719	02FMCQ12	238807	02HMLQ12	1	138	202 ATSI	273	332	Base Case () 3	-	1.11	0	-0.09%	-0.09%	0.00%
2965 243567 05SBLMVL	138 247148 05SBLM	SS	138 Z1	243567	05SBLMVL	247148	05SBLMSS	Z1	138	205 AEP	195	220	Base Case) -2.2	-	1.11	0	0.00%	0.00%	0.00%
2966 242983 05CHANDLERVZ	138 245388 05CHAN	DLERV8	138 Z1	242983	05CHANDLERVZ	245388	05CHANDLERV8	Z1	138	205 AEP	205	205	Base Case (2.2	-	1.09	0	0.00%	0.00%	0.00%
2967 242940 05MUSKNG	345 247832 05LAME	ING	345 1	242940	05MUSKNG	247832	05LAMPING	1	345	205 AEP	915	971	Base Case (-9.8	-	1.07	0	1.65%	1.65%	-0.07%
2968 242646 05FT.ROB SS	138 242729 05NAGE	L	138 1	242646	05FT.ROB SS	242729	05NAGEL	1	138	205 AEP	205	205	Base Case (2.1	-	1.05	0	0.03%	0.03%	-0.09%
2969 247803 05SEGRETO	345 256019 18PALI	SD	345 3	247803	05SEGRETO	256019	18PALISD	3	345	205/218 AEP/METC	1447	1542	Base Case (-15.1	-	1.04	0	0.29%	0.29%	0.06%
2970 235703 01WYLIE R	500 239280 02CRNE	RY	500 1	235703	01WYLIE R	239280	02CRNBRY	1	500	201/202 AP/ATSI	3542	4149	Base Case (36.5		1.03	0	-9.02%	-9.02%	1.62%
2971 245647 05W.CAMP OSU	138 246907 05W.CA	MPUS	138 Z9	245647	05W.CAMP OSU	246907	05W.CAMPUS	Z 9	138	205 AEP	747	747	Base Case (-7.7	-	1.03	0	0.00%	0.00%	0.00%
2972 245647 05W.CAMP OSU	138 246907 05W.CA	MPUS	138 Z8	245647	05W.CAMP OSU	246907	05W.CAMPUS	Z8	138	205 AEP	747	747	Base Case (0 -7.7	-	1.03	0	0.00%	0.00%	0.00%
2973 245647 05W.CAMP OSU	138 246907 05W.CA	MPUS	138 Z7	245647	05W.CAMP OSU	246907	05W.CAMPUS	Z7	138	205 AEP	747	747	Base Case	-7.7	-	1.03	0	0.00%	0.00%	0.00%
2974 243306 05HARPER	138 243342 05MILA	N	138 1	243306	05HARPER	243342	05MILAN	1	138	205 AEP	167	245	Base Case (1.7	-	1	0	-0.03%	-0.03%	-0.02%
2975 243867 05FRCS34	345 243868 05FRCs	-3	345 1	243867	05FRCS34	243868	05FRCS-3	1	345	205 AEP	1001	1631	Base Case (-10	-	1	0	-0.01%	-0.01%	-0.01%
2976 243024 05HOWARD	138 243061 05NLEX	TN	138 1	243024	05HOWARD	243061	05NLEXTN	1	138	205 AEP	200	200	Base Case (2	-	0.99	0	0.01%	0.01%	-0.10%
2977 243455 05CONES	345 243456 05CORF	ID	345 1	243455	05CONES	243456	05CORRID	1	345	205 AEP	1217	1374	Base Case (11.7	-	0.96	0	0.20%	0.20%	-0.13%
2978 249987 08BETHNY	138 250084 08PARK	1	138 1	249987	08BETHNY	250084	08PARK1	1	138	212 DEO&K	394	394	Base Case (-3.8	-	0.96	0	0.06%	0.06%	0.06%
2979 238524 02AD Q-2	138 238915 02LRN	Q2	138 1	238524	02AD Q-2	238915	02LRN Q2	1	138	202 ATSI	265	316	Base Case (-2.5	-	0.96	0	-0.11%	-0.11%	0.00%
2980 238996 02NEQ-15	138 239013 02NSQ-	15	138 1	238996	02NEQ-15	239013	02NSQ-15	1	138	202 ATSI	273	332	Base Case (2.6	-	0.96	0	-0.08%	-0.08%	0.02%
2981 243083 05CAMPSS	138 243121 05ROCK	PO	138 1	243083	05CAMPSS	243121	05ROCKPO	1	138	205 AEP	145	177	Base Case	1.4		0.94	0	0.00%	0.00%	0.00%
2982 243885 05THORSS	138 243886 05COBE		138 1	243885	05THORSS	243886	05COBB	1	138	205 AEP	426	426	Base Case () 4	-	0.94	0	0.00%	0.00%	0.00%
2983 242634 05EDGEMO	138 242636 05FALL	BR	138 1	242634	05EDGEMO	242636	05FALLBR	1	138	205 AEP	167	240	Base Case (-1.6	-	0.94	0	0.06%	0.06%	0.05%
2984 238524 02AD Q-2	138 241928 02AVQ2		138 1	238524	02AD Q-2	241928	02AVQ2	1	138	202 ATSI	273	332	Base Case (2.5	-	0.93	0	-0.11%	-0.11%	0.00%
2985 243476 05BOLINSMLSS	138 246684 05BOLI	NS ML8	138 Z1	243476	05BOLINSMLSS	246684	05BOLINS ML8	Z1	138	205 AEP	200	200	Base Case	1.8		0.92	0	0.00%	0.00%	0.00%
2986 242704 05LOGAN1	138 242726 05MUDF	RK	138 1	242704	05LOGAN1	242726	05MUDFRK	1	138	205 AEP	251	309	Base Case	-2.3		0.91	0	-0.07%	-0.07%	-0.12%
2987 250061 08MDWAY2	138 250118 08TRMN	L2	138 1	250061	08MDWAY2	250118	08TRMNL2	1	138	212 DEO&K	275	275	Base Case	-2.5	-	0.91	0	0.03%	0.03%	-0.01%
2988 249581 08MELDAL	345 342838 7SPURI	OCK	345 1	249581	08MELDAL	342838	7SPURLOCK	1	345	212/320 DE0&K/EKPC	1274	1421	Base Case) 11.4	-	0.89	0	-0.46%	-0.46%	-0.65%
2989 243856 05.11G ST 1-6	138 247805 05SMTT	HMTLL8	138 1	243856	05JUG ST 1-6	247805	05SMTTHMTLL8	1	138	205 AEP	257	360	Base Case	2.3		0.89	0	0.00%	0.00%	0.00%
2990 243353 050LTVE	138 246092 05NEW	CAR BP	138 1	243353	050LTVE	246092	05NEW CAR BP	1	138	205 AEP	187	240	Base Case	1 1 6	-	0.87	0	-0.06%	-0.06%	-0.02%
2991 246092 05NEW CAP PD	138 246994 05PTCF	MN	138 1	2455555	OSNEW CAR BP	246001	05RTCKMN	1	130	205 AEP	1.87	230	Base Case	1 6	-	0.07	0	-0.06%	-0.06%	-0.02%
2992 243118 05511MMEP	138 247156 05cmm	MT	138 1	240092	05SUMMER	247156	05STEAMT	1	130	205 AEP	205	223	Base Case	-1 9		0.07	0	-0.17%	-0.17%	0.05%
2993 250059 08MAINUT	138 250147 08001	MB	138 1	250050	0.8MA TNUT	2501/7	08COLUMB	1	130	212 DEOLK	200	204	Base Case	1 2 6		0.07	0	-0.01%	-0.01%	-0.02%
2994 243379 059TATIVE	138 2/338/ 05mptc	۵ ۳۰۰	138 1	243270	OSCHATTES	2433014/	05TDTED	1	130	205 350	250	220	Baco Caco	1 1 0	-	0.00	0	0.01%	0.01%	0.02%
2005 243671 050ENUED OD1	130 245504 USTRIE	NEE	130 1	243379	OSDEAUED CD1	243364	OSKEWANDE		100	205 AEP	213	201	Page Case	1.3	-	0.05	0	_0.00//6	_0.00/	0.03%
2996 243459 054VER CRI	345 246522 OSKEWA	T CW1	1J0 1	2430/1	05BEAVER CRI	240913	OSUVATE ON1	71	245	205 AEP	1270	1500	Base Case	11 5		0.84	0	0.00%	0.00%	0.06%
2350 243438 USHIATT	130 240323 USHYAT	1 SW1	120 1	243438	OFMAKAHOV	240323	OF ORDINAL	41	120	205 AEP	1370	1503	Dase Case	11.5	-	0.84	0	0.42%	0.42%	0.05%
2337 243920 USMAKAHOY	138 246988 USSTRW	10	138 1	243920	UJMAKAHOY	246988	USSTRWTN	1	138	ZUS AEP	205	284	Dase Case (-1./	-	0.84	0	-0.02%	-0.02%	-0.05%
2330 238938 UZMFLDQ3	138 239016 UZNT Q	10	130 1	238958	02MFLDQ3	239016	OZNT Q15	1	138	ZUZ ATSI	265	316	Dase Case	-2.2	-	0.83	0	0.02%	0.02%	-0.01%
2999 242817 05STONBR	138 24/242 05CHAP	55	138 1	242817	USSTONBR	247242	USCHAPSS	1	138	2U5 AEP	296	378	Base Case (2.4	-	0.82	0	-0.05%	-0.05%	-0.14%
3000 238905 02LNC.PK	138 239077 02RVEF	вD	138 1	238905	UZLNC.PK	239077	UZRVERBD	1	138	202 ATSI	275	333	Base Case (2.1	-	0.78	0	0.04%	0.04%	0.00%

	A	Ą		В	C	D	E	F	G	Н	1	J	К	Ĺ.	М	Ν	0	Р	Q	R	S	T U
3001 238800 02HL Q-1	138 2402	281 02LKSHQ1	138 1	238800	02HL Q-1	240281	02LKSHQ1	1	138	202 2	ATSI	235	271	Base Case	0	-1.8	-	0.77	0	-0.01%	-0.01%	-0.01%
3002 242772 05RIVERV	138 2476	641 05GLADSTON	138 1	242772	05RIVERV	247641	05GLADSTON	1	138	205 2	AEP	296	413	Base Case	0	2.2	-	0.76	0	0.00%	0.00%	0.00%
3003 242621 05DARRH1	138 2426	626 05E.HUNTING2	138 1	242621	05DARRH1	242626	05E.HUNTING2	1	138	205	AEP	296	413	Base Case	0	2.1	-	0.71	0	0.01%	0.01%	0.03%
3004 243944 05GEORGE ST	138 2430	945 05LYNBROOK	138 1	243944	05GEORGE ST	243945	05LYNBROOK	1	138	205	AEP	548	590	Base Case	0	-3.9	-	0 71	0	0.01%	0.01%	0.44%
3005 242788 05SALTV1	138 2425	789 05SALTV2	138 21	242788	05SALTV1	242789	05SALTV2	21	138	205	AEP	287	337	Base Case	0	-2	_	0.69	0	0.02%	0.02%	0.13%
3006 238637 02CPP IS	138 2403	282 02188402	138 1	238637	02CPP IS	240282	0.21 KGUO2	1	139	202	ATCT	240	240	Base Case	0	1.6	_	0.69	0	-0.15%	-0.15%	-0.02%
2007 242946 05WHADTAN	120 2402	047 05WUADTZ	120 1	230037	O ENUADEN	240202		1	120	202 2	AED	240	240	Base Case	0	_1 4		0.00	0	0.15%	0.00%	0.00%
2009 242640 0500 DECADDON	130 2420	776 OFDOCKUS	130 1	242040	OSWAARIN	242047	05DOCKUC	1	130	205 2	AEF	203	204	Base Case	0	1 4		0.68	0	0.00%	0.00%	0.00%
2000 242649 USGARRSN	120 242	170 USRUCKHS	130 I	242049	OFN NEWADW1	242770	OSKOCKHS		130	205 2	AEP	219	100	Base Case	0	1.4	_	0.65	0	0.03%	0.03%	-0.10%
2010 243063 USN. NEWARKI	138 2455	964 USN.NEWARKZ	138 21	243063	05N.NEWARKI	245964	USN.NEWARKZ	21	138	205 /	AEP	164	180	Base Case	0	1.1	-	0.64	0	0.04%	0.04%	-0.12%
3010 246440 05S.OLIVE L8	138 247	799 USS.OLIVE SS	138 21	246440	USS.OLIVE L8	247799	055.OLIVE SS	21	138	205 2	AEP	296	400	Base Case	0	-1.9	-	0.64	0	0.00%	0.00%	0.00%
3011238771 02GTQ-11	138 2391	118 02SSPQ11	138 1	238771	02GTQ-11	239118	02SSPQ11	1	138	202 /	ATSI	273	332	Base Case	0	-1./	-	0.63	0	-0.06%	-0.06%	0.02%
3012 243695 05JOHNSC	138 2463	316 05STONE	138 1	243695	05JOHNSC	246316	05STONE	1	138	205 2	AEP	262	332	Base Case	0	1.6	-	0.63	0	-0.09%	-0.09%	-0.05%
3013 238586 02BRKSID	138 2391	168 O2WELNGT	138 1	238586	02BRKSID	239168	02WELNGT	1	138	202 2	ATSI	105	135	Base Case	0	-0.6	-	0.62	0	0.09%	0.09%	-0.09%
3014 250136 08HILCRT	138 2501	166 HLCRST AB114	138 1	250136	08HILCRT	250166	HLCRST AB114	1	138	212	DEO&K	9999	9999	Base Case	0	-60.7	-	0.61	0	-0.04%	-0.04%	-0.04%
3015 238764 02GRANGR	138 2391	161 02WAKRON	138 1	238764	02GRANGR	239161	02WAKRON	1	138	202	ATSI	233	282	Base Case	0	-1.4	-	0.61	0	0.13%	0.13%	0.01%
3016 247824 05NUTALL	138 2478	826 05MOLLYS CRK	138 1	247824	05NUTALL	247826	05MOLLYS CRK	1	138	205 2	AEP	316	444	Base Case	0	-1.9	-	0.6	0	-0.14%	-0.14%	0.16%
3017 247702 05AZALEA	138 2477	703 05LEESVILLE	138 1	247702	05AZALEA	247703	05LEESVILLE	1	138	205 2	AEP	521	521	Base Case	0	-3.1	-	0.59	0	0.00%	0.00%	0.00%
3018 238586 02BRKSID	138 2411	111 02ASHLAND	138 1	238586	02BRKSID	241111	02ASHLAND	1	138	202	ATSI	167	245	Base Case	0	1		0.59	0	0.21%	0.21%	0.02%
3019 242535 05ALUMRG	138 2426	640 05FLOYD	138 1	242535	05ALUMRG	242640	05FLOYD	1	138	205	AEP	180	227	Base Case	0	-1	-	0.56	0	0.05%	0.05%	0.60%
3020 242544 05AXTON	138 2426	620 05DANVL2	138 1	242544	05AXTON	242620	05DANVL2	1	138	205	AEP	296	388	Base Case	0	-1.6	-	0.52	0	0.30%	0.30%	2.94%
3021 243884 05MORISE	138 2438	885 05THORSS	138 1	243884	05MORISB	243885	05THORSS	1	138	205 2	AEP	426	426	Base Case	0	-2.2	-	0.52	0	0.00%	0.00%	0.00%
3022 250124 08WENDEA	138 2501	126 O8WENDWE	138 Z1	250124	08WENDEA	250126	08WENDWE	Z1	138	212 1	DEO&K	516	582	Base Case	0	2.7	-	0.51	0	-0.01%	-0.01%	0.00%
3023 250124 08WENDEA	138 2501	126 O8WENDWE	138 2	250124	08WENDEA	250126	08WENDWE	2	138	212	DEO&K	516	582	Base Case	0	2.7	-	0.51	0	-0.01%	-0.01%	0.00%
3024 250123 08WARRN2	138 2501	147 08COLUMB	138 1	250123	08WARRN2	250147	08COLUMB	1	138	212	DEO&K	298	298	Base Case	0	-1.5	-	0.51	0	-0.01%	-0.01%	-0.02%
3025 243233 05TANNER	345 2545	524 16HANNA	345 1	243233	05TANNER	254524	16HANNA	1	345	205/216	AEP/IPL	1132	1132	Base Case	0	-5.3	-	0.47	0	-0.26%	-0.26%	0.01%
3026 246946 05WLDCAT	138 9261	101 AC1-089 MAIN	138 1	246946	05WLDCAT	926101	AC1-089 MAIN	1	138	205 2	AEP	9999	9999	Base Case	0	-45.4	-	0.45	0	-0.03%	-0.03%	-0.03%
3027 242812 05MINERAL8	138 2442	283 05MINERAL SS	138 Z1	242812	05MINERAL8	244283	05MINERAL SS	Z1	138	205 2	AEP	223	223	Base Case	0	-1	-	0.45	0	0.00%	0.00%	0.00%
3028 243082 05ROCKHILL1	138 2455	516 05ROCKHILL2	138 Z1	243082	05ROCKHILL1	245516	05ROCKHILL2	Z1	138	205	AEP	187	240	Base Case	0	0.8	-	0.45	0	0.00%	0.00%	-0.03%
3029 243552 05PICKR8	138 2460	021 05W.LANCAST2	138 1	243552	05PICKR8	246021	05W.LANCAST2	1	138	205 2	AEP	296	413	Base Case	0	1.2	-	0.42	0	-0.09%	-0.09%	-0.02%
3030 242686 05JEHU BR SS	138 2427	730 05NBECKL	138 1	242686	05JEHU BR SS	242730	05NBECKL	1	138	205 2	AEP	205	255	Base Case	0	-0.8	-	0.4	0	0.03%	0.03%	-0.07%
3031 238889 02LEMOYN	345 2645	599 19MAJTC	345 1	238889	02LEMOYN	264599	19MAJTC	1	345	202/219	ATSI/ITCT	953	953	Base Case	0	3.6	-	0.38	0	0.50%	0.50%	0.10%
3032 238854 02KDTP03	138 2389	958 02MFLD03	138 1	238854	02KDTPO3	238958	02MFLDO3	1	138	202	ATSI	176	229	Base Case	0	-0.7	_	0.38	0	0.14%	0.14%	-0.04%
3033 243497 05DELANO	138 2435	570 05CLAYBN	138 1	243497	05DELANO	243570	05CLAYEN	1	138	205	AEP	323	449	Base Case	0	-1 2	_	0.37	0	0.00%	0.00%	0.05%
3034 246911 05HTCHLA	138 2470	035 05NMARSS	138 1	246911	05HTCHLA	247035	05NMARSS	1	138	205	AFD	223	223	Base Case	0	-0.8	-	0.37	0	0.00%	0.07%	0.05%
3035 242683 05.1 EARL	138 2440	287 05WOLF GLADE	138 1	240511	05.T EARL	244287	05WOLE GLADE	1	138	205 2	AEP	219	225	Base Case	0	0.0	_	0.35	0	-0.02%	-0.02%	-0.06%
3036 243537 05MALTS	138 2435	538 OSMALIEY	138 SP	242000	05MALTS	2/3538	05MALTEY	CD T	138	205	AFD	820	9291	Base Case	0	-2.8	_	0.34	0	0.02%	0.00%	0.00%
3037 247964 05LOCTOWN	120 2430	026 m121 mp	120 1	243337	05LOCTOWN	243330	m121 mp	1	120	205 2	AED	020	0000	Base Case	0	-21 0	_	0.34	0	-0.02%	-0.02%	-0.02%
2029 242002 05CUNN DD CC	2473	520 1131 1K	245 g1	247004	OSLOGIOWN	247920	1131 IK	71	245	205 2	AEF	99999	0000	Base Case	0	-31.0		0.32	0	-0.02%	-0.02%	-0.02%
2020 242903 03GONN RD 35	245 247	340 02-072 C	345 ZI	243903	OFDIMONIE	247540	02-072 C	1 1	343	205 2	AEP	9999	9999	Base Case	0	-31.2		0.31	0	-0.02%	-0.02%	-0.02%
2040 242200 05DOCKDE	765 2432	122 OSBOOKD NDK1	765 P7	242933	OSREMUNE	243211	OSBOCKD NDR1	77	345	2051	AEF	6220	7500	Dase Case	0	10 3	-	0.29	0	-0.95%	-0.95%	0.00%
2041 243209 05ROCKPT	100 24/1	135 USROCKP WRKI	12 601	243209	USRUCKPT 05D00WDT	24/133	OFROCKP WRKI	4/	/65	205 2	ALF	6330	7590	Base Case	0	10.3	-	0.29	0	0.00%	0.00%	0.00%
2042 243209 USROCKPT	105 2471	135 USKUCKP WRK2	120 0	243209	USKUCKPT	24/135	O SKUCKP WRK2	48	/65	205 2	ALP	0330	/590	base Case	U	18.3	-	0.29	0	0.00%	0.00%	0.00%
2042 246407 U5CABIN CRK2	138 2470	U64 U5KANAWHA2	138 2	246407	USCABIN CRK2	247064	USKANAWHA2	2	138	205 2	AEP	187	240	Base Case	0	-0.5	17	0.26	0	0.08%	0.08%	0.19%
3043 243356 050SOL01	138 2475	541 050SOL02	138 Z1	243356	USUSOL01	24/541	05050L02	21	138	205 2	AEP	329	361	Base Case	0	-0.9	-	0.26	0	0.04%	0.04%	0.02%
3044 24325 / U5CALVERTZ	138 2464	411 USCALVERT	138 21	243257	USCALVERTZ	246411	USCALVERT	Z1	138	205	AEP	158	183	Base Case	0	0.4	-	0.25	0	0.00%	0.00%	0.00%
3045 238529 02AIRPK+	138 2387	/U3 U2ESPRNG	138 1	238529	UZAIRPK+	238703	UZESPRNG	1	138	202	ATSI	200	242	Base Case	0	-0.5	-	0.25	0	0.07%	0.07%	0.02%
3046 238880 02LTFQ15	138 2402	247 02CK TP15	138 1	238880	02LTFQ15	240247	02CK TP15	1	138	202 1	ATSI	273	332	Base Case	0	0.7		0.25	0	0.01%	0.01%	-0.01%
3047 242510 05BAKER	765 2425	513 05CULLOD	765 1	242510	05BAKER	242513	05CULLOD	1	765	205 2	AEP	4047	4571	Base Case	0	-9.7	-	0.24	0	1.82%	1.82%	-0.93%
3048 243867 05FRCs34	345 2438	871 05FRCS-4	345 1	243867	05FRCS34	243871	05FRCS-4	1	345	205	AEP	9999	9999	Base Case	0	-23.2	-	0.23	0	-0.01%	-0.01%	-0.01%
3049 250063 08MHLTY1	138 2500	069 08MPLKL2	138 1	250063	08MHLTY1	250069	08MPLKL2	1	138	212	DEO&K	266	266	Base Case	0	-0.6	-	0.23	0	-0.01%	-0.01%	0.00%
3050 238913 02LRCRQ2	138 2389	914 02LRCRQ3	138 ZB	238913	02LRCRQ2	238914	02LRCRQ3	ZB	138	202 1	ATSI	2500	2500	Base Case	0	5.6		0.22	0	0.04%	0.04%	-0.01%
3051 243878 05MEADOW	345 9300	041 AB1-006 C	345 1	243878	05MEADOW	930041	AB1-006 C	1	345	205 2	AEP	9999	9999	Base Case	0	-20.8	-	0.21	0	-0.01%	-0.01%	-0.01%
3052 243792 05LOSANTVILL :	345 2475	543 V3-007 C	345 Z1	243792	05LOSANTVILL	247543	8 V3-007 C	Z1	345	205	AEP	9999	9999	Base Case	0	-20.8	-	0.21	0	-0.01%	-0.01%	-0.01%
3053 238761 02GPPR +	138 2389	970 02MRST +	138 1	238761	02GPPR +	238970	02MRST +	1	138	202	ATSI	200	242	Base Case	0	-0.4	-	0.19	0	0.00%	0.00%	0.00%
3054 242591 05CENTRR	138 2427	724 05MOSELEY	138 1	242591	05CENTRR	242724	05MOSELEY	1	138	205 2	AEP	167	245	Base Case	0	-0.3	-	0.18	0	-0.04%	-0.04%	-0.24%
3055 238720 02FMCQ13	138 2388	808 02HMLQ13	138 1	238720	02FMCQ13	238808	02HMLQ13	1	138	202	ATSI	191	245	Base Case	0	0.4	-	0.18	0	-0.10%	-0.10%	-0.01%
3056 242574 05CABIN CRK1	138 2426	689 05KANAWHA1	138 1	242574	05CABIN CRK1	242689	05KANAWHA1	1	138	205	AEP	187	240	Base Case	0	0.3	-	0.18	0	-0.08%	-0.08%	-0.19%
3057 245876 050XFORD M8	138 2474	462 05STONEPLTSS	138 Z1	245876	050XFORD M8	247462	05STONEPLTSS	Z1	138	205	AEP	205	205	Base Case	0	-0.3	22	0.14	0	0.00%	0.00%	0.00%
3058 243319 05JAY	138 9335	591 AC2-176 MAIN	138 1	243319	05JAY	933591	AC2-176 MAIN	1	138	205 2	AEP	9999	9999	Base Case	0	-13.5	-	0.13	0	-0.01%	-0.01%	-0.01%
3059 243035 05MEIG 1	138 2430	038 05MEIG1Z	138 1	243035	05MEIG 1	243038	05MEIG1Z	1	138	205 2	AEP	158	183	Base Case	0	-0.2	-	0.13	0	0.00%	0.00%	0.00%
3060 242653 05GRANDV	138 9398	800 AE1-212 TAP	138 1	242653	05grandv	939800	AE1-212 TAP	1	138	205 2	AEP	9999	9999	Base Case	0	12.3	-	0.12	0	0.04%	0.04%	0.12%

		A			В	C	D E	F	G	Н	1	J	K	Ĺ,	М	N	0	Р	Q	R	S	T U
3061 242604 05CLIFFT	138	939800 AE1-212	TAP	138 1	242604	05CLIFFT	939800 AE1-212 TAP	1	138	205 2	AEP	9999	9999	Base Case	0	-12.3		0.12	0	0.04%	0.04%	0.12%
3062 246407 05CABIN CRK2	138	246409 05CABIN	С Т8	138 ZL	246407	05CABIN CRK2	246409 05CABIN C T8	ZL	138	205 2	AEP	369	369	Base Case	0	-0.5	-	0.12	0	0.01%	0.01%	-0.01%
3063 242544 05AXTON	138	242619 05DANVL1		138 2	242544	05AXTON	242619 05DANVL1	2	1.38	205	AEP	296	398	Base Case	0	0.4	-	0.12	0	-0.20%	-0.20%	-1.95%
3064 242735 05NPOINT	138	247242 05CHAPSS		138 1	242735	05NPOINT	247242 05CHAPSS	1	138	205 2	AEP	389	559	Base Case	0	-0.5	-	0.12	0	-0.02%	-0.02%	-0.31%
3065 242570 05BUCHAN	138	242690 05KEENMT		138 1	242570	05BUCHAN	242690 05KEENMT	1	138	205	AEP	116	116	6 Base Case	0	-0.1	-	0.11	0	0.00%	0.00%	0.00%
3066 243278 05DESOTO	138	243296 05GASTON		138 1	243278	05055070	243296 05GASTON	1	138	205	AEP	223	310	Base Case	0	-0.2	-	0.11	0	-0.05%	-0.05%	-0.04%
3067 243784 055 BTLB	345	247105 05VARNER		345 72	243784	055 BTLR	247105 05VARNER	7.2	345	205	AEP	99999	99999	Base Case	0	-110	_	0.11	0	0.00%	0.00%	0.00%
3068 243784 055 BTLP	345	247105 05VARNER		345 73	243784	055 BTIR	247105 05VARNER	73	345	205 1	AFD	99999	00000	Base Case	0	-110	-	0.11	0	0.00%	0.00%	0.00%
3069 243784 058 BTLR	345	247105 05VARNER		345 21	243704	055.DTDR	247105 05VARNER	71	345	205 2	ADI	00000	00000	Base Case	0	_110		0.11	0	0.00%	0.00%	0.00%
3070 243689 0547PPFP	139	247105 05VARTER		138 1	243784	05UADBED	243975 0500FTCH	1	139	205 2	AFD	194	19/	1 Base Case	0	-0.2	_	0.11	0	0.00%	0.00%	0.00%
2071 242544 053XTON	120	243675 05307150		120 00	243003	0.5 A X TON	243545 053507131	CD	120	205 2	ADD	606	747	7 Base Case	0	-0.7		0.11	0	0.00%	0.00%	0.00%
2072 242030 05MELMOD	130	242343 UJAAIONA		130 55	242344	OFMELMOR	242545 USANIONA	SK Z1	130	205 2	AEF	090	0000	Base Case	0	-0.7		0.11	0	0.00%	0.00%	-0.02%
2072 243039 05MELMOR	1 2 0	247551 04-020 0		130 21	243039	0 SMELMOR	247551 04-028 C	21	120	205 2	AEF	9999	0000	Base Case	0	-10.4	525	0.1	0	-0.01%	-0.01%	-0.01%
2074 246252 OFUNITIAND2	120	247552 04-029 C		120 1	243039	O SMELMOR	247552 04-029 C	41	100	205 2	ALF	99999	9995	Base Case	0	-10.4	-	0.1	0	-0.01%	-0.01%	-0.01%
3074 246352 USHAVILAND2	138	247563 VI-UII		138 1	246332	05HAVILAND2	247563 VI-011	1	138	205 2	AEP	99999	9999	Base Case	0	-10.4	-	0.1	0	-0.01%	-0.01%	-0.01%
3075 243000 05EW0051	130	243138 05W0051E		130 1	243000	05EWOOST	243138 05W0051E	00	130	205 2	ALP	107	203	Base Case	0	0.2	_	0.1	0	0.19%	0.19%	-0.05%
3076 242855 05WYOMIN	138	242857 05WYOMX2		138 SR	242855	USWYOMIN	242857 05WYOMX2	SR	138	205 2	AEP	696	747	/ Base Case	0	-0.7	-	0.09	0	0.00%	0.00%	0.00%
3077 242855 05WYOMIN	138	242856 05WYOMX1		138 SR	242855	USWYOMIN	242856 05WYOMX1	SR	138	205 /	AEP	696	/4/	/ Base Case	0	-0.7	-	0.09	0	0.00%	0.00%	0.00%
3078 243689 05HARBER	138	243/00 05SPICEW		138 1	243689	05HARBER	243700 05SPICEW	1	138	205 2	AEP	219	255	Base Case	0	0.2	-	0.09	0	0.00%	0.00%	0.00%
3079 242776 05ROCKHS	138	242820 05SUNDL1		138 1	242776	05ROCKHS	242820 05SUNDL1	1	. 138	205 2	AEP	219	223	Base Case	0	-0.2	-	0.08	0	-0.03%	-0.03%	0.16%
3080 243350 05NICKER	138	243376 05SODUS		138 1	243350	05NICKER	243376 05SODUS	1	. 138	205 2	AEP	219	255	5 Base Case	0	-0.2	-	0.08	0	0.02%	0.02%	0.02%
3081 247926 T131 TR	138	926862 AC1-173	MAIN	138 1	247926	T131 TR	926862 AC1-173 MAIN	1	. 138	205 2	AEP	9999	9999	Base Case	0	-7.9	-	0.08	0	-0.01%	-0.01%	-0.01%
3082 250171 080AKBK1	138	250172 08AERO		138 1	250171	080AKBK1	250172 08AERO	1	138	212 1	DEO&K	301	301	l Base Case	0	-0.2	-	0.07	0	-0.01%	-0.01%	-0.01%
3083 238773 02GTQ-13	138	239119 02SSPQ13		138 1	238773	02GTQ-13	239119 02SSPQ13	1	. 138	202	ATSI	273	332	2 Base Case	0	-0.2	-	0.07	0	-0.05%	-0.05%	-0.01%
3084 244745 05BABBIT1-2	138	245491 05BABBIT	3-4	138 Z1	244745	05BABBIT1-2	245491 05BABBIT3-4	Z1	138	205	AEP	99999	99999	Base Case	0	53.1	-	0.05	0	0.00%	0.00%	0.00%
3085 244745 05BABBIT1-2	138	245491 05BABBIT	3-4	138 Z2	244745	05BABBIT1-2	245491 05BABBIT3-4	Z2	138	205 2	AEP	99999	99999	Base Case	0	53.1	-	0.05	0	0.00%	0.00%	0.00%
3086 238640 02CRISS	138	239073 02ROBERT		138 1	238640	02CRISS	239073 02ROBERT	1	. 138	202	ATSI	152	179	Base Case	0	-0.1	-	0.05	0	0.04%	0.04%	-0.04%
3087 242638 05FIELDALE1	138	244390 05FIELDA	LE3	138 Z1	242638	05FIELDALE1	244390 05FIELDALE3	Z1	138	205 2	AEP	99999	99999	9 Base Case	0	45	-	0.04	0	0.02%	0.02%	0.58%
3088 244390 05FIELDALE3	138	244904 05FIELDA	LE4	138 ZF	244390	05FIELDALE3	244904 05FIELDALE4	ZF	138	205 2	AEP	99999	99999	9 Base Case	0	44.9	-	0.04	0	0.02%	0.02%	0.58%
3089 243799 05FIELDALE2	138	244904 05FIELDA	LE4	138 Z2	243799	05FIELDALE2	244904 O5FIELDALE4	Z2	138	205 2	AEP	99999	99999	Base Case	0	-44.9	-	0.04	0	0.02%	0.02%	0.58%
3090 242534 05ALLOY	138	247535 R-076		138 Z1	242534	05ALLOY	247535 R-076	Z1	138	205 2	AEP	9999	9999	Base Case	0	-4.4	-	0.04	0	0.00%	0.00%	0.00%
3091 242566 05BROADF	138	242567 05BROADX		138 SR	242566	05broadf	242567 05BROADX	SR	138	205 2	AEP	348	370) Base Case	0	0.1	-	0.04	0	0.00%	0.00%	0.00%
3092 246931 05BLUECK	115	246932 05BLCKCS		115 1	246931	05BLUECK	246932 05BLCKCS	1	. 115	205	AEP	99999	99999	9 Base Case	0	-39.3	-	0.04	0	-0.03%	-0.03%	-0.03%
3093 238997 02NEQ-16	138	239014 02NSQ-16		138 1	238997	02NEQ-16	239014 02NSQ-16	1	. 138	202	ATSI	278	339	9 Base Case	0	0.1		0.04	0	-0.09%	-0.09%	0.03%
3094 243266 05COUNTR	138	247620 Y3-023		138 1	243266	05COUNTR	247620 Y3-023	1	. 138	205 2	AEP	9999	9999	9 Base Case	0	-3.6	-	0.04	0	0.00%	0.00%	0.00%
3095 249995 08CLINCO	138	250122 08WARRN1		138 1	249995	08CLINCO	250122 08WARRN1	1	138	212 1	DEO&K	198	198	Base Case	0	-0.1	-	0.04	0	-0.13%	-0.13%	-0.13%
3096 242684 05J.FERR	138	242685 05J.FERX		138 SR	242684	05J.FERR	242685 05J.FERX	SR	138	205	AEP	383	449	Base Case	0	0.1	-	0.03	0	0.00%	0.00%	0.00%
3097 238853 02KDTPQ1	138	238956 02MFLDQ1		138 1	238853	02KDTPQ1	238956 02MFLDQ1	1	. 138	202	ATSI	176	229	Base Case	0	0.1	-	0.03	0	-0.14%	-0.14%	0.05%
3098 243856 05JUG ST 1-6	138	246647 05JUG ST	Т1	138 Z1	243856	05JUG ST 1-6	246647 05JUG ST T1	Z1	138	205 2	AEP	99999	99999	Base Case	0	30	-	0.03	0	0.00%	0.00%	0.00%
3099 242955 05APPLE VLYZ	138	245566 05APPLE	VLY8	138 Z1	242955	05APPLE VLYZ	245566 05APPLE VLY8	Z1	138	205	AEP	23205	23205	5 Base Case	0	6.7	-	0.03	0	0.00%	0.00%	0.00%
3100 243786 05WILMINGTON	138	247106 05VARNER		138 Z1	243786	05WILMINGTON	247106 05VARNER	Z1	138	205 2	AEP	99999	99999	Base Case	0	-28	-	0.03	0	0.00%	0.00%	0.00%
3101 239312 02NS-YORK	138	239348 02WORTHS	т	138 1	239312	02NS-YORK	239348 02WORTHST	1	. 138	202	ATSI	278	343	Base Case	0	-0.1	122	0.03	0	-0.07%	-0.07%	0.00%
3102 242745 05PEAKCK	138	270147 AE1-018	С	138 1	242745	05PEAKCK	270147 AE1-018 C	1	. 138	205 2	AEP	9999	9999	Base Case	0	-2.2		0.02	0	0.00%	0.00%	0.00%
3103 244412 05WTRV SLR C	138	247134 05EWATRV		138 1	244412	05WTRV SLR C	247134 05EWATRV	1	138	205 2	AEP	9999	9999	Base Case	0	1.8	-	0.02	0	0.00%	0.00%	0.00%
3104 243856 05JUG ST 1-6	138	247065 05JUG ST	т2	138 Z1	243856	05JUG ST 1-6	247065 05JUG ST T2	Z1	138	205	AEP	99999	99999	Base Case	0	13.4	-	0.01	0	0.00%	0.00%	0.00%
3105 239099 02SENECA	138	239935 02MARKWE	ST	138 1	239099	02SENECA	239935 02MARKWEST	1	138	202	ATSI	312	380	Base Case	0	0	-	0.01	0	0.68%	0.68%	-0.05%
3106 243517 05CAP AV	138	247643 Z2-116 C		138 1	243517	05CAP AV	247643 Z2-116 C	1	138	205 1	AEP	9999	9999	Base Case	0	-1	-	0.01	0	0.00%	0.00%	0.00%
3107 243382 05TANNER CK1	138	245407 05TANNER	CK2	138 Z1	243382	05TANNER CK1	245407 05TANNER CK2	Z1	138	205	AEP	213	280	Base Case	0	0	-	0.01	0	0.00%	0.00%	0.00%
3108 242737 050POSSUMCK	138	247765 050POSUM	с св	138 Z1	242737	050POSSUMCK	247765 050POSUMC CF	Z1	138	205	AEP	358	421	Base Case	0	0	-	0.01	0	0.00%	0.00%	0.00%
3109 242737 050P0SSUMCK	138	246414 050POSUM	C CA	138 72	242737	050POSSUMCK	246414 050POSUMC CA	7.2	138	205	AEP	410	527	7 Base Case	0	0	120	0.01	0	0.00%	0.00%	0.00%
3110 907200 AD1-103 TAP	345	934760 AD1-103	MAIN	345 1	907200	AD1-103 TAP	934760 AD1-103 MATN	1	345	2021	ATST	100	100	Base Case	0	0	-	0.01	0	0.00%	0.00%	0.00%
3111 243518 05GROVES	138	246760 05REFUCE		138 1	243518	05GROVES	246760 05REFUGE	1	138	205 1	AEP	209	200	Base Case	0	0	_	0	0	-0.02%	-0.02%	0.00%
3112 242807 05SPORM	138	247040 05MOIINTN		138 2	242807	05SPORN	247040 05MOUNTN		130	205 2	AEP	219	251	Base Case	0	0	-	0 Ū	0	0.00%	0.00%	0.00%
3113 242807 058DODM	138	247040 05MOUNTN		138 1	242007	05SPORM	247040 05MOUNTN	1	130	205 2	AEP	210	251	Base Case	0	0	2	0	0	0.00%	0.00%	0.00%
3114 934750 AD1-102 TAD	138	934751 AD1-102	MATN	138 1	034750	AD1-102 TAP	934751 AD1=102 MATE	1	120	200 2	AEP	9000	0000	Base Case	0	0	_	0	0	0.00%	0.00%	0.00%
3115 926010 AC1_070 man	130	926015 AD1-102	MATN	138 1	026010	AC1-079 TAP	926015 AC1-079 MAIN	1	120	203 2	ATCT	2222	217	7 Base Case	0	0		0	0	0.00%	0.00%	0.00%
3116 037246 AD2-162 MATH	100	037247 AC1-078	DOT	130 1	027246	AD2-162 MATH	037247 AD2-162 DOT	1	120	202	ANGT	0000	0000	Base Case	0	0		0	0	0.00%	0.00%	0.00%
3117 938700 AD2-103 MAIN	120	038701 NE1-000	201	138 1	020700	AP2-103 MAIN	038701 AP1-002 COT	1	120	202	DAV	2229	2295	Base Case	0	0	_	0	0	0.00%	0.00%	0.00%
3118 020000 AE1 012 MAP	120	020001 AE1-092	MAIN	130 I	930700	ADI-USZ TAP	020001 AE1-092 GSU		100	2091	AFD	200	200	Page Case	0	0	-	0	U	0.00%	0.00%	0.00%
3119 247712 05000 ABI-212 TAP	700	933440 ACC 157	MAIN	1J0 1	2000	ADI-ZIZ IAP	933440 202 157 MAIN		245	2052	AEF	9999	3333	Page Case	0	0		0	0	0.00%	0.00%	0.00%
2120 247/12 USSULLIVAN	343	935440 ACZ-157	MAIN	343 L	24//12	UDSULLIVAN	933440 AC2-137 MAIN		345	205 /	AEF	9999	9999	Dase Case	0	0		0	0	0.00%	0.00%	0.00%
5120 24/300 UZ-041 C	343	323130 AB2-1/0	MAIN	JAD T	24/306	U2-041 C	JZJIJU ABZ-I/U MAIN	4	. 345	205	ALF	9999	3333	base case	0	0	-	0	0	0.00%	0.00%	0.00%

A	B C	D E	F	G	H I	J	К	L M	N O	Р	Q	R	S	T U
3121 932050 AC2-015 TAP 138 932051 AC2-015 MAIN 138 1	932050 AC2-015 TAP	932051 AC2-015 MAIN	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3122 243902 05HARDIN SS 345 247506 U2-041 C 345 1	243902 05HARDIN SS	247506 U2-041 C	1	345	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3123 247712 05SULLIVAN 345 930470 AB1-088 MAIN 345 1	247712 05SULLIVAN	930470 AB1-088 MAIN	1	345	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3124 247712 05SULLIVAN 345 930460 AB1-087 MAIN 345 1	247712 05SULLIVAN	930460 AB1-087 MAIN	1	345	205 AEP	9999	9999 B	ase Case 0	0 –	0	0	0.00%	0.00%	0.00%
3125 238704 02ET Q-1 138 240249 02CHIAQ-1 138 1	238704 02ET Q-1	240249 02CHIAQ-1	1	138	202 ATSI	273	332 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3126 243076 05CONESPREPZ 138 247725 05CONESPREP 138 1	243076 05CONESPREPZ	247725 05CONESPREP	1	138	205 AEP	145	177 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3127 247460 05NOTTINGH34 138 926250 AC1-103 GSU1 138 1	247460 05NOTTINGH34	926250 AC1-103 GSU1	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3128 247460 05NOTTINGH34 138 926251 AC1-103 GSU2 138 1	247460 05NOTTINGH34	926251 AC1-103 GSU2	1	138	205 AEP	9999	9999 B	ase Case 0	0 –	0	0	0.00%	0.00%	0.00%
3129 243682 05CONSOL 138 243683 05CONSTP 138 1	243682 05CONSOL	243683 05CONSTP	1	138	205 AEP	205	284 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3130 243902 05HARDIN SS 345 934982 AD1-130 MAIN 345 1	243902 05HARDIN SS	934982 AD1-130 MAIN	1	345	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3131 935040 AD1-140 TAP 138 935041 AD1-140 MAIN 138 1	935040 AD1-140 TAP	935041 AD1-140 MAIN	1	138	202 ATSI	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3132 244198 05LEMASTER 138 244569 05LEMAST CAP 138 Z1	244198 05LEMASTER	244569 05LEMAST CAP	Z1	138	205 AEP	822	902 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3133 243541 05METALC 138 246765 050UTERB 138 1	243541 05METALC	246765 050UTERB	1	138	205 AEP	97	97 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3134 249981 08AKSTEEL2 138 250169 08AK STL CAP 138 1	249981 08AKSTEEL2	250169 08AK STL CAP	1	138	212 DEO&K	84	89 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3135 250106 08TODHJT 138 250168 TRENTON 2 138 1	250106 08TODHJT	250168 TRENTON 2	1	138	212 DEO&K	185	198 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3136 238533 02AMSTED 138 238575 02BLUBEL 138 1	238533 02AMSTED	238575 02BLUBEL	1	138	202 ATSI	50	50 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3137 239038 02PGQ-12 138 239040 02PGTP12 138 1	239038 02PGQ-12	239040 02PGTP12	1	138	202 ATSI	115	115 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3138 247757 05HERLAN SW 138 247843 05HERLAN CAP 138 Z1	247757 05HERLAN SW	247843 05HERLAN CAP	Z1	138	205 AEP	23205	23205 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3139 939390 AE1-170 POI 138 939391 AE1-170 MAIN 138 1	939390 AE1-170 POI	939391 AE1-170 MAIN	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3140 245332 05ANG1-2_CAP 138 246177 05ANGUIN1-2 138 Z1	245332 05ANG1-2 CAP	246177 05ANGUIN1-2	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3141 247106 05VARNER 138 247107 05VARNER CAP 138 Z1	247106 05VARNER	247107 05VARNER CAP	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3142 243575 05ST.CLR 138 247716 05ST.CLR MSC 138 Z1	243575 05ST.CLR	247716 05ST.CLR MSC	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3143 243575 05ST.CLR 138 247010 05ST.CLR TSC 138 Z1	243575 05ST.CLR	247010 05ST.CLR TSC	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3144 242993 05E.LEIPSIC2 138 893021 V2-006 C 138 1	242993 05E.LEIPSIC2	893021 V2-006 C	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3145 239037 02PGQ-11 138 239038 02PGQ-12 138 ZB	239037 02PGQ-11	239038 02PGQ-12	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3146 244300 05GEMINI CAP 138 245994 05GEMINI 138 Z1	244300 05GEMINI CAP	245994 05GEMINI	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3147 242775 05ROCKCAS SS 138 245675 05WHITEHOUS8 138 Z1	242775 05ROCKCAS SS	245675 05WHITEHOUS8	Z1	138	205 AEP	109	133 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3148 242550 05BEARSK 138 314671 4BEARSKN 138 Z1	242550 05BEARSK	314671 4BEARSKN	Z1	138	205/345 AEP/DVP	238	262 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3149 250044 08HEBRN2 138 250045 08HEBRN1 138 Z1	250044 08HEBRN2	250045 08HEBRN1	Z1	138	212 DEO&K	309	349 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3150 238830 02IWQ-16 138 238831 02IWQ-17 138 ZB	238830 02IWQ-16	238831 02IWQ-17	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3151 250005 08CRNEL4 138 250115 08TP7482 138 1	250005 08CRNEL4	250115 08TP7482	1	138	212 DE0&K	266	266 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3152 249989 08BKJ246 138 250165 08BKJDB2 138 1	249989 08BKJ246	250165 08BKJDB2	1	138	212 DE0&K	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3153 249989 08BKJ246 138 250164 08BKJDB1 138 1	249989 08BKJ246	250164 08BKJDB1	1	138	212 DEO&K	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3154 238713 02FB Q-1 138 238714 02FB Q-3 138 ZB	238713 02FB Q-1	238714 02FB Q-3	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3155 244412 05WTRV SLR C 138 247966 05WTRV SLR E 138 1	244412 05WTRV SLR C	247966 05WTRV SLR E	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3156 249988 08BKJ135 138 249989 08BKJ246 138 Z1	249988 08BKJ135	249989 08BKJ246	Z1	138	212 DE0&K	309	349 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3157 238708 02EVRGRN 138 240077 AB1-015 E 138 1	238708 02EVRGRN	240077 AB1-015 E	1	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3158 242768 05RIDGWX 138 242769 05RIDGWY 138 ZB	242768 05RIDGWX	242769 05RIDGWY	ZB	138	205 AEP	287	299 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3159 238704 02ET Q-1 138 238705 02ET Q-2 138 ZB	238704 02ET Q-1	238705 02ET Q-2	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3160 242767 05RIDGWA 138 242768 05RIDGWX 138 ZB	242767 05RIDGWA	242768 05RIDGWX	ZB	138	205 AEP	287	299 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3161 239046 02PN Q-2 138 239047 02PN TP 138 1	239046 02PN Q-2	239047 02PN TP	1	138	202 ATSI	265	316 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3162 243226 05LAWBG1 345 243227 05LAWBG2 345 Z1	243226 05LAWBG1	243227 05LAWBG2	Z1	345	205 AEP	1701	1813 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3163 239049 02PV Q1 138 239051 02PV Q3 138 ZB	239049 02PV Q1	239051 02PV Q3	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3164 239053 02PVMQ15 138 239054 02PVMQ16 138 ZB	239053 02PVMQ15	239054 02PVMQ16	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3165 249981 08AKSTEEL2 138 250162 08GARVER 138 1	249981 08AKSTEEL2	250162 08GARVER	1	138	212 DEO&K	301	301 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3166 238701 02ERQ-11 138 238702 02ERQ-14 138 ZB	238701 02ERQ-11	238702 02ERQ-14	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3167 243562 05ROSS 138 243836 05ROSS T1T2 138 Z1	243562 05ROSS	243836 05ROSS T1T2	Z1	138	205 AEP	383	449 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3168 243217 05DEQUIN 345 243991 05DEQUIN_REA 345 Z1	243217 05DEQUIN	243991 05DEQUIN_REA	Z1	345	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3169 243562 05ROSS 138 243836 05ROSS T1T2 138 Z2	243562 05ROSS	243836 05ROSS T1T2	Z2	138	205 AEP	383	449 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3170 242586 05CAVE SPR2Z 138 245723 05CAVE SPR 138 Z1	242586 05CAVE SPR2Z	245723 05CAVE SPR	Z1	138	205 AEP	164	180 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3171 242589 05CENTCR 138 242590 05CENTER 138 Z1	242589 05CENTCR	242590 05CENTER	Z1	138	205 AEP	223	310 B	ase Case 0	0 –	0	0	0.00%	0.00%	0.00%
3172 238698 02ENQ-11 138 238699 02ENQ-12 138 ZB	238698 02ENQ-11	238699 02ENQ-12	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3173 243562 05ROSS 138 247357 05ROSS_CAP 138 Z1	243562 05ROSS	247357 05ROSS_CAP	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3174 238818 02ILQ-11 138 238819 02ILQ-12 138 ZB	238818 02ILQ-11	238819 02ILQ-12	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3175 238692 02ASH_EAST 138 239055 02Q15TAP 138 1	238692 02ASH_EAST	239055 02Q15TAP	1	138	202 ATSI	273	338 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3176 245476 05ROB PK34 138 245505 05ROB PK T6 138 ZH	245476 05ROB PK34	245505 05ROB PK T6	ZH	138	205 AEP	747	747 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3177 247643 Z2-116 C 138 247969 Z2-116 E 138 1	247643 Z2-116 C	247969 Z2-116 E	1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3178 239092 02SAMMIS 345 253902 15BVRVAL 345 S1	239092 02SAMMIS	253902 15BVRVAL	S1	345	202/215 ATSI/DLCO	1195	1195 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3179 247552 U4-029 C 138 247941 U4-029 E 138 1	247552 U4-029 C	247941 U4-029 E	1	138	205 AEP	99999	99999 B	ase Case 0	0 –	0	0	0.00%	0.00%	0.00%
3180 243130 05TIFFIN 138 247548 V4-010 C 138 Z1	243130 05TIFFIN	247548 V4-010 C	Z1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%

	А			В	C	D	E	F	G	Н	1	J	K	L	М	N	0	Р	Q	R	S	T U
3181 238815 02IKQ-15	138 238817	02IKQ-18	138 ZB	238815	02IKQ-15	238817	02IKQ-18	ZB	138	202 F	ATSI	999	999	Base Case	e 0	0		0	0	0.00%	0.00%	0.00%
3182 243013 05GAVIN1	138 246324	05GAVIN CAP	138 Z1	243013	05GAVIN1	246324	05GAVIN CAP	Z1	138	205 Z	AEP	329	361	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3183 243127 05TIDD 1-2	138 245389	05TIDD B X	138 ZB	243127	05TIDD 1-2	245389	05TIDD B X	ZB	138	205 7	AEP	586	598	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3184 247551 114-028 C	138 247940	114-028 E	138 1	247551	114-028 C	247940	114-028 E	1	138	205 4	AEP	99999	99999	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3185 247549 V3-028 C	345 247948	2 V3-028 E	345 1	247549	V3-028 C	247948	V3-028 E	1	345	205 7	AFP	99999	99999	Base Case		0	_	0	0	0.00%	0.00%	0.00%
3186 247548 V4-010 C	138 247940	VA-010 E	139 1	247549	V3 020 C	247940	V4-010 E	1	139	205 7	NED	99999	00000	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3187 220116 020DVP02	120 220117	02CDVEO/	120 70	297390	02002002	237337	02CDVE04	70	120	203 2	ADOT	9999	000	Base Case		0		0	0	0.00%	0.00%	0.00%
2100 247542 V2 007 C	246 247026	UZSFALQ4	245 1	239110	1025FAFQ2	239117	V2 007 F	4D 1	245	202 2	AIDI	999	00000	Dase Case	. 0	0		0	0	0.00%	0.00%	0.00%
2190 247545 V3-007 C	345 247955	0 V3-007 E	345 I	247343	W2 072 C	247555	V3-007 E	1	245	205 2	AEP	999999	00000	Dase Case	. 0	0		0	0	0.00%	0.00%	0.00%
2100 247540 02-072 C	120 247932	02-072 E	345 I	247340	OSDUUER D WE	247932	02-072 E	1	120	205 2	ALF	999999	99999	Dase Case	. 0	0	_	0	0	0.00%	0.00%	0.00%
2101 242127 0EETDD 1 2	138 247929	S-UTIE	138 I	24/530	OSBLUFF P WF	24/929	S-U/I E	1	138	205 P	AEP	99999	99999	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3191 243127 USTIDD 1-2	138 243129	OSTIDD_C_X	138 ZB	243127	05TIDD 1-2	243129	OSTIDD_C_X	ZB	138	205 4	AEP	670	/4/	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3192 243575 USST.CLR	138 247717	USST.CLR_MSR	138 21	243575	USST.CLR	24//1/	USST.CLR_MSR	21	138	205 4	AEP	999999	99999	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3193 247506 02-041 C	345 247919	0 UZ-041 E	345 1	247506	02-041 C	24/919	02-041 E	1	345	205 4	AEP	99999	99999	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3194 243484 05CITYCO	138 294740) P44	138 1	243484	05CITYCO	294740	P44	1	138	205 F	AEP	999	999	Base Case	. 0	0		0	0	0.00%	0.00%	0.00%
3195 243669 05B SAND	138 2436/8	05BSANDX	138 ZB	243669	USB SAND	243678	USBSANDX	ZB	138	205 F	AEP	287	337	Base Case		0		0	0	0.00%	0.00%	0.00%
3196 238807 02HMLQ12	138 238809	02HMLQ14	138 ZB	238807	02HMLQ12	238809	02HMLQ14	ZB	138	202 F	ATSI	999	999	Base Case	9 0	0	-	0	0	0.00%	0.00%	0.00%
319/242658 05GREENB	138 313704	4KANAWHATL	138 1	242658	USGREENB	313704	4KANAWHATL	1	138	205/3457	AEP/DVP	95	95	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3198 247506 U2-041 C	345 247549	9 V3-028 C	345 Z1	247506	U2-041 C	247549	V3-028 C	21	345	205 7	AEP	9999	9999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3199 238862 02KL Q-1	138 238863	3 02KL Q-3	138 ZB	238862	02KL Q-1	238863	02KL Q-3	ZB	138	202 7	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3200 238663 02DLQ-15	138 240248	8 02DLQ-18	138 ZB	238663	02DLQ-15	240248	02DLQ-18	ZB	138	202 2	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3201 242941 050HIOCT	345 244319	050HIOCT_REA	345 Z1	242941	050HIOCT	244319	050HIOCT_REA	Z1	345	205 F	AEP	99999	99999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3202 238859 02KIQ-11	138 238860	02KIQ-14	138 ZB	238859	02KIQ-11	238860	02KIQ-14	ZB	138	202 7	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3203 243100 05SHELGH	138 243101	05SHELNS	138 1	243100	05SHELGH	243101	05SHELNS	1	138	205 7	AEP	97	97	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3204 238556 02AYERSV	138 238659	02DEFISW	138 1	238556	02AYERSV	238659	02DEFISW	1	138	202 7	ATSI	216	264	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3205 243488 05CONESVILLE	138 243489	05CONESV_CAP	138 Z1	243488	05CONESVILLE	243489	05CONESV_CAP	Z1	138	205 F	AEP	99999	99999	Base Case	• 0	0	-	0	0	0.00%	0.00%	0.00%
3206 238867 02KPQ-12	138 238868	3 02KPQ-13	138 ZB	238867	02KPQ-12	238868	02KPQ-13	ZB	138	202 F	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3207 238661 02DKQ-16	138 238662	2 02DKQ-17	138 ZB	238661	02DKQ-16	238662	02DKQ-17	ZB	138	202 Z	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3208 238657 02DBQ-14	138 239251	02GEQUTZ	138 1	238657	02DBQ-14	239251	02GEQUTZ	1	138	202 7	ATSI	258	308	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3209 238869 02KY Q-1	138 238870	02KY Q-3	138 ZB	238869	02KY Q-1	238870	02KY Q-3	ZB	138	202 Z	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3210 238798 02HKQ-21	138 238799	02HKQ-22	138 ZB	238798	02HKQ-21	238799	02HKQ-22	ZB	138	202 7	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3211 243488 05CONESVILLE	138 246914	05CONESV AUX	138 Z5	243488	05CONESVILLE	246914	05CONESV AUX	Z5	138	205 7	AEP	548	601	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3212 243488 05CONESVILLE	138 246914	05CONESV AUX	138 ZN	243488	05CONESVILLE	246914	05CONESV AUX	ZN	138	205 Z	AEP	548	601	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3213 243488 05CONESVILLE	138 246914	05CONESV AUX	138 ZS	243488	05CONESVILLE	246914	05CONESV AUX	ZS	138	205 F	AEP	548	601	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3214 242833 05TRAILF	138 247048	05PINNCK	138 Z1	242833	05TRAILF	247048	05PINNCK	Z1	138	205 Z	AEP	185	220	Base Case	• 0	0	-	0	0	0.00%	0.00%	0.00%
3215 238856 02KH Q-3	138 238870) 02KY Q-3	138 1	238856	02KH Q-3	238870	02KY Q-3	1	138	202 Z	ATSI	347	423	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3216 238876 02LAQ-12	138 238877	02LAQ-13	138 ZB	238876	02LAQ-12	238877	02LAQ-13	ZB	138	202 7	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3217 238656 02DBQ-11	138 238657	02DBQ-14	138 ZB	238656	02DBQ-11	238657	02DBQ-14	ZB	138	202 Z	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3218 238855 02KH Q-1	138 238869	02KY Q-1	138 1	238855	02KH Q-1	238869	02KY Q-1	1	138	202 4	ATSI	355	434	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3219 242946 05TIDD	345 253965	5 15COLLIE	345 S1	242946	05TIDD	253965	15COLLIE	S1	345	205/215 7	AEP/DLCO	1195	1195	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3220 238855 02KH Q-1	138 238856	5 02KH Q-3	138 ZB	238855	02KH Q-1	238856	02KH Q-3	ZB	138	202 Z	ATSI	999	999	Base Case	. 0	0	-	Ö	0	0.00%	0.00%	0.00%
3221 242948 05WBELLA	345 244329	05W.BELL REA	345 Z1	242948	05WBELLA	244329	05W.BELL REA	Z1	345	205 F	AEP	99999	99999	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3222 239210 02I0Q-16	138 239211	02I0Q-17	138 ZB	239210	02I0Q-16	239211	02I0Q-17	ZB	138	202 4	ATSI	999	999	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3223 239212 02AUSTQ2	138 239213	02AUSTQ1	138 ZB	239212	02AUSTQ2	239213	02AUSTQ1	ZB	138	202 J	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3224 243026 05KAMMER13	138 246111	05KAMMER T5	138 Z5	243026	05KAMMER13	246111	05KAMMER T5	Z5	138	205 Z	AEP	383	449	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3225 238647 02CY Q-1	138 238648	02CY Q-2	138 ZB	238647	02CY Q-1	238648	02CY Q-2	ZB	138	202 F	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3226 242717 05MILTON	138 930192	2 AB1-055 E	138 1	242717	05MILTON	930192	AB1-055 E	1	138	205 A	AEP	9999	9999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3227 238541 02AS Q-1	138 238546	02ASQ-11	138 ZB	238541	02AS Q-1	238546	02ASQ-11	ZB	138	202 F	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3228 238540 02ARMCO+	138 239196	02ARM+BU	138 1	238540	02ARMCO+	239196	02ARM+BU	1	138	202 Z	ATSI	157	189	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3229 239225 02STYDCO	138 239226	02STYDCOO11	138 ZB	239225	02STYDCO	239226	02STYDCOO11	ZB	138	202 7	ATSI	265	287	Base Case	. 0	0		0	0	0.00%	0.00%	0.00%
3230 238790 02HCO-13	138 238791	02HCO-14	138 ZB	238790	02HCO-13	238791	02HCO-14	ZB	138	202 7	ATSI	999	999	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3231 250075 08MTGRY1	138 250111	08TP5483	138 1	250075	08MTGRY1	250111	08TP5483	1	138	212 1	DEO&K	198	198	Base Case		0	_	0	0	0.00%	0.00%	0.00%
3232 243044 05MTLLWO	138 246941	05MILL2Z	138 21	243044	05MILLWO	246941	05MILL2Z	Z1	138	205 7	AEP	187	205	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3233 246237 05THIVENER27	138 246273	05THIVENR SS	138 22	246237	05THIVENER27	246273	05THIVENR SS	7.2	138	205 7	AEP	329	361	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3234 246254 05TUNNEL BDG	138 247775	05DTXON SS	138 21	246254	05TUNNEL BDG	247775	05DTXON SS	21	138	205 2	AEP	205	284	Base Case		0	-	1 0	0	0.00%	0.00%	0.00%
3235 238643 02CW 0-1	138 238644	02CW 0-3	138 7B	2386/3	02CW 0-1	238644	02CW 0-3	ZB	130	203 7	ATST	000	000	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3236 239282 02PR0012	138 230244	02PR0013	138 7B	230343	02PR0012	239283	02PR0013	ZB	130	202 7	ATST	999	999	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3237 238882 02TE 0-1	138 239203	02LE 0-3	138 78	233202	021.E 0-1	238883	021.E 0-3	ZB	130	202 2	ATST	000	000	Base Case		0		0	0	0.00%	0.00%	0.00%
3238 238851 0225 0-1	138 220002	, 02KD 0-3	138 70	230002	02KD 0-1	2300=0	0200 0-3	78	120	202 2	TOT	000	000	Baco Con		0	-	0	0	0.00%	0.00%	0.00%
3230 238803 02TE 0-2	130 230032	0215 0-4	130 20	2300031	02TE 0-2	230032	021E 0-4	70	120	202 2	ATOT	000	999	Base Case		0	-	0	0	0.00%	0.00%	0.00%
2240 220246 02077 27	120 230894		120 1	230093	02011 200	220094	02011 024	۵D -	138	202 4	A101	229	242	Dase Case		0	-	-	0	0.00%	0.00%	0.00%
JETU 233343 UZSIL AET	10 239346	VZDILLCA+	1 OC1	239345	AR4	209040	UCSIDICA+	1	1 130	202 F	TOT	2/0	343	Dase Case	. 0	U	-	0	0	0.00%	0.00%	0.00%

	A	B C	D E F	G	н і	J	K L	M N	0	Р	Q	R	S	T U
3241	238904 02LMQ-11 138 240252 02LMQ-12 138 ZL	238904 02LMQ-11	240252 02LMQ-12 ZL	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3242	243037 05MEIGS SS 138 246310 05MEIGS SW1Z 138 Z1	243037 05MEIGS SS	246310 05MEIGS SW1Z Z1	138	205 AEP	95	95 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3243	238629 02CLVRDL 138 239237 02CLVR-S 138 ZB	238629 02CLVRDL	239237 02CLVR-S ZB	138	202 ATSI	329	413 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3244	242961 05BIGGRC 138 246940 05BIGR2Z 138 1	242961 05BIGGRC	246940 05BIGR2Z 1	138	205 AEP	205	205 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3245	238918 02SLTRQ2 138 238919 02SLTRQ4 138 ZB	238918 02SLTRQ2	238919 02SLTRQ4 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3246	238781 02HANNA 345 253902 15BVRVAL 345 S1	238781 02HANNA	253902 15BVRVAL \$1	345	202/215 ATSI/DLCO	1195	1195 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3247	238620 02CL Q12 138 238621 02CL Q13 138 ZB	238620 02CL Q12	238621 02CL Q13 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3248	243987 05SULLVN REA 345 247712 05SULLIVAN 345 Z1	243987 05SULLVN REA	247712 05SULLIVAN Z1	345	205 AEP	99999	99999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3249	923061 AB1-105 TAP 345 923062 AB1-105 OP 345 1	923061 AB1-105 TAP	923062 AB1-105 OP 1	345	202/3 ATSI/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3250	242816 05STOCKT 138 926461 AC1-117 C 138 1	242816 05STOCKT	926461 AC1-117 C 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3251	243234 05TWIN B 345 243385 05TWIN B 138 6	243234 05TWIN B	243385 05TWIN B 6	345/138	205 AEP	540	540 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3252	240258 02FUQ-13 138 240259 02FUQ-14 138 ZL	240258 02FUQ-13	240259 02FUQ-14 ZL	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3253	243497 05DELANO 138 925342 AC1-001 MAIN 138 1	243497 05DELANO	925342 AC1-001 MAIN 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3254	913030 Y1-006 TAP 138 913031 Y1-006 MAIN 138 1	913030 Y1-006 TAP	913031 Y1-006 MAIN 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3255	238933 02LYDQ14 138 238935 02LYQ-13 138 ZB	238933 02LYDQ14	238935 02LYQ-13 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3256	242965 05BRIDGEVILZ 138 245839 05BRIDGEVIL 138 Z1	242965 05BRIDGEVILZ	245839 05BRIDGEVIL Z1	138	205 AEP	150	180 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3257	240352 02PM2Q11 138 240353 02PM2Q12 138 ZB	240352 02PM2Q11	240353 02PM2Q12 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3258	238941 02MANSFD 345 253936 15CRESCN 345 S1	238941 02MANSFD	253936 15CRESCN \$1	345	202/215 ATSI/DLCO	1244	1411 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3259	238774 02GTQ-14 138 239222 02CHSTL 138 2	238774 02GTQ-14	239222 02CHSTL 2	138	202 ATSI	278	339 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3260	240359 02BENTLEYQ1 138 240360 02BENTLEYQ3 138 ZB	240359 02BENTLEYQ1	240360 02BENTLEYQ3 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3261	242937 05KAMMER 345 246108 05KAMMER24 138 31	242937 05KAMMER	246108 05KAMMER24 31	345/138	205 AEP	747	747 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3262	243510 05GAHANN 138 246095 05GAHAN T1-4 138 Z2	243510 05GAHANN	246095 05GAHAN T1-4 Z2	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3263	242937 05KAMMER 345 243026 05KAMMER13 138 30	242937 05KAMMER	243026 05KAMMER13 30	345/138	205 AEP	450	450 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3264	242529 05TRISTA 345 242835 05TRISTA 138 3	242529 05TRISTA	242835 05TRISTA 3	345/138	205 AEP	501	535 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3265	238511 02GMC-J 138 238512 02GMC-К 138 ZB	238511 02GMC-J	238512 02GMC-К ZB	138	202 ATSI	222	265 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3266	238613 02CF Q-4 138 238614 02CFQ-14 138 ZB	238613 02CF Q-4	238614 02CFQ-14 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3267	243510 05GAHANN 138 246095 05GAHAN T1-4 138 Z3	243510 05GAHANN	246095 05GAHAN T1-4 Z3	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3268	238950 02MBQ-13 138 238951 02MBQ-14 138 ZB	238950 02MBQ-13	238951 02MBQ-14 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3269	238838 02JIQ-11 138 238839 02JIQ-14 138 ZB	238838 02JIQ-11	238839 02JIQ-14 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3270	893021 V2-006 C 138 893022 V2-006 E 138 1	893021 V2-006 C	893022 V2-006 E 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3271	270163 AB2-067 MAIN 765 937371 AD2-189 765 1	270163 AB2-067 MAIN	937371 AD2-189 1	765	205/3 AEP/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3272	270147 AE1-018 C 138 270148 AE1-018 E 138 1	270147 AE1-018 C	270148 AE1-018 E 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3273	243510 05GAHANN 138 246095 05GAHAN T1-4 138 Z4	243510 05GAHANN	246095 05GAHAN T1-4 Z4	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3274	242525 05KANAWH 345 242526 05KANAWZ 345 SC	242525 05KANAWH	242526 05KANAWZ SC	345	205 AEP	1494	1595 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3275	250166 HLCRST AB114 138 930062 AB1-014 E 138 1	250166 HLCRST AB114	930062 AB1-014 E 1	138	212 DEO&K	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3276	246750 05ROCKPT 138 253586 10AEP_T 138 1	246750 05ROCKPT	253586 10AEP_T 1	138	205/210 AEP/SIGE	143	143 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3277	238972 02MX Q-2 138 238973 02MX Q-4 138 ZB	238972 02MX Q-2	238973 02MX Q-4 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3278	244195 05HOLSTN ARM 138 245222 05W.KINGS_BP 138 Z1	244195 05HOLSTN ARM	245222 05W.KINGS_BP Z1	138	205 AEP	94	105 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3279	933720 AC2-195 TAP 138 933724 AC2-195 MAIN 138 1	933720 AC2-195 TAP	933724 AC2-195 MAIN 1	138	202 ATSI	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3280	238996 02NEQ-15 138 238997 02NEQ-16 138 ZB	238996 02NEQ-15	238997 02NEQ-16 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3281	242807 05SPORN 138 247050 05CLINE 138 Z1	242807 05SPORN	247050 05CLINE Z1	138	205 AEP	167	167 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3282	246889 05BIERSR 138 247356 05BIERSR_CAP 138 Z1	246889 05BIERSR	247356 05BIERSR_CAP Z1	138	205 AEP	99999	99999 Base Case	0 0		0	0	0.00%	0.00%	0.00%
3283	250149 08TP5381 138 250161 08T758 138 1	250149 08TP5381	250161 08T758 1	138	212 DEO&K	298	298 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3284	242628 05E.LYNN 138 246320 05NEW EAGLE 138 Z1	242628 05E.LYNN	246320 05NEW EAGLE Z1	138	205 AEP	219	255 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3285	250131 08WILEY2 138 250155 08WILCAP 138 1	250131 08WILEY2	250155 08WILCAP 1	138	212 DEO&K	68	68 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3286	242789 05SALTV2 138 923771 AB2-011 C 138 1	242789 05SALTV2	923771 AB2-011 C 1	138	205 AEP	9999	9999 Base Case	0 0	~	0	0	0.00%	0.00%	0.00%
3287	930041 AB1-006 C 345 930042 AB1-006 E 345 1	930041 AB1-006 C	930042 AB1-006 E 1	345	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3288	242789 05SALTV2 138 923761 AB2-010 C 138 1	242789 05SALTV2	923761 AB2-010 C 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3289	250117 08TRMNL1 138 250118 08TRMNL2 138 Z1	250117 08TRMNL1	250118 08TRMNL2 Z1	138	212 DEO&K	504	504 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3290	238762 02GR Q-3 138 238763 02GR Q-4 138 ZB	238762 02GR Q-3	238763 02GR Q-4 ZB	138	202 ATSI	999	999 Base Case	0 0	~	0	0	0.00%	0.00%	0.00%
3291	250092 08REDBK1 138 250093 08REDBK2 138 Z1	250092 08REDBK1	250093 08REDBK2 Z1	138	212 DEO&K	455	479 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3292	926461 AC1-117 C 138 926462 AC1-117 E 138 1	926461 AC1-117 C	926462 AC1-117 E 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3293	926250 AC1-103 GSU1 138 926251 AC1-103 GSU2 138 1	926250 AC1-103 GSU1	926251 AC1-103 GSU2 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3294	239013 02NSQ-15 138 239014 02NSQ-16 138 ZB	239013 02NSQ-15	239014 02NSQ-16 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3295	239025 02NY Q11 138 239026 02NY Q12 138 ZB	239025 02NY Q11	239026 02NY Q12 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3296	250091 08RCHLE3 138 913222 Y1-054 E 138 1	250091 08RCHLE3	913222 Y1-054 E 1	138	212 DEO&K	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3297	243464 05ADAMS 138 924372 AB2-085 MAIN 138 1	243464 05ADAMS	924372 AB2-085 MAIN 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3298	924790 AB2-131 TAP 138 924791 AB2-131 C OP 138 1	924790 AB2-131 TAP	924791 AB2-131 C OP 1	138	202/3 ATSI/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3299	923771 AB2-011 C 138 923772 AB2-011 E 138 1	923771 AB2-011 C	923772 AB2-011 E 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3300	238754 02GFQ-12 138 238755 02GFQ-2 138 1	238754 02GFQ-12	238755 02GFQ-2 1	138	202 ATSI	278	287 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%

	A	В	С	D E	F	G	HI	J	К	Ĺ	М	Ν	0	P Q	R	S	Т	U
3301	243510 05GAHANN 138 246095 05GAHAN T1-4 138	Z1 24351	05GAHANN	246095 05GAHAN T1-4	Z1	138	205 AEP	131	164	Base Case	0	0	-	0	0.00%	0.00%	0.00%	
3302	2 923761 AB2-010 C 138 923762 AB2-010 E 138	1 92376	AB2-010 C	923762 AB2-010 E	1	138	205 AEP	9999	9999	Base Case	0	0	-	0	0.00%	0.00%	0.00%	
3303	3 238671 02DW Q-1 138 238672 02DW Q-3 138	ZB 23867	02DW Q-1	238672 02DW Q-3	ZB	138	202 ATSI	999	999	Base Case	0	0	-	0	0.00%	0.00%	0.00%	



APPENDIX B.

DFAX Reports and Spreadsheets provided by PJM for Barton 1 Facility and other facilities



DFAX Analysis of Wind Farms for Blue Delta

Energy, LLC

PJM Transmission Planning July 27, 2020

For Public Use



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Study of Windfarm Impact on Ohio Transmission Facilities through DFAX Analysis

PJM performed DFAX analysis in order to determine the impacts of various windfarm facilities outside of the PJM footprint on the transmission facilities inside the state of Ohio that are contained in the PJM footprint. Below is a summary of those findings.

PJM confirmed that all of the wind farms included in the study have >5% DFAX on facilities in Ohio. This was confirmed using the 2025 RTEP base case and the TARA software program. Attached is a list of all the BES facilities in AEP, Dayton, DEOK, and ATSI. DFAX values with a magnitude above 5% are highlighted in green. Some of the facilities in the list are outside of Ohio because AEP's service territory extends to other states.

The information below provides some background information on the analysis.

PJM confirmed and / or obtained the required information about the wind farms from MISO and SPP to identify or model these facilities in the 2025 RTEP PSS/E case. The information for these facilities is contained in the list below. Then a DFAX analysis on approximately 3,000 BES transmission facilities in Ohio and surrounding areas was performed using the TARA program. The buses at which the wind generators are located provided the source for the DFAX analysis, and the generation with the PJM footprint provided the sink for the DFAX analysis. Finally, it was confirmed that there were a number of EHV transmission facilities in the state of Ohio on which at least 5% of the energy from these wind resources would be expected to flow if they were to deliver their energy into PJM. Details of the analysis are in the table attached to this report.

- 1. Barton Windpower is a 160 MW wind farm in Alliant Energy (West), IA that connects between the Adams South and Lime Creek 161 kV substations. In the 2025 RTEP base case it is modeled as two 80 MW wind generators at buses 631150 and 631151.
- 2. Bluegrass Ridge Project is a 56.7 MW wind farm in Associated Electric Cooperative Inc., MO that connects to the Gentry 161 kV substation. In the 2025 RTEP base case it is modeled at bus 300008.
- 3. Butler Ridge is a 54 MW wind farm in Wisconsin Electric Power Company, WI that connects between the Hartford and Rubicon 138 kV substations. In the 2025 RTEP base case it is modeled at bus 698780.
- 4. Crosswinds is a 155.6 MW wind farm in International Transmission Company, IA that connects to the Ringle 345 kV substation. In the 2025 RTEP base case it is modeled at bus 265198.
- 5. Crow Lake Wind is a 162 MW wind farm in Basin Electric Power Cooperative, SD that connects to the Wessington 230kV substation. In the 2025 RTEP base case it is modeled at bus 659296.
- Crystal Lake Wind Energy Center is a 416 MW wind farm in Alliant Energy (West), IA that connects to the Lime Creek 161 kV substation. In the 2025 RTEP base case it is modeled as three wind generators at buses 629987 (200 MW and 66 MW) and 631152 (150 MW).



- Heartland Divide is a 200 MW wind farm in MidAmerican Energy, IA that connects to the Fallow Ave. 345 kV substation. The wind generator was not yet modeled the 2025 RTEP base case, and MISO provided the modeling at bus 85834.
- 8. Lost Lakes Wind is a 100 MW wind farm in Alliant Energy (West), IA that connects to the Cayler 161 kV substation. In the 2025 RTEP base case it is modeled at bus 629984.
- Pioneer Prairie Wind is a 300 MW wind farm in Alliant Energy (West), IA that connects to the Mitchell County 345kV substation. In the 2025 RTEP base case it is modeled as two wind generators at buses 631157 (200 MW) and 631158 (100 MW).
- 10. Pocahontas Prairie Wind is an 80 MW wind farm in MidAmerican Energy, IA that connects to the Pomeroy 161 kV substation. In the 2025 RTEP base case it is modeled at bus 636038.
- 11. Quilt Block is a 98 MW wind farm in Alliant Energy (East), WI that connects to the Falcon 138 kV substation. In the 2025 RTEP base case it is modeled at bus 693407.
- 12. Rippey is a 50.4 MW wind farm in Alliant Energy (West), IA that connects to the Karma 161 kV substation. In the 2025 RTEP base case it is modeled at bus 629081.
- 13. Story County Wind I is a 150 MW wind farm in Alliant Energy (West), IA that connects between the Timber Creek and Fernald 161 kV substations. In the 2025 RTEP base case it is modeled at bus 631153.
- 14. Story County Wind II is a 150 MW wind farm in Alliant Energy (West), IA that connects between the Timber Creek and Fernald 161 kV substations. In the 2025 RTEP base case it is modeled at bus 629993.

Attached file:

PJM DFAX Analysis for Wind Farms June 2020 Request.xlsx
	ſ	А	В	С	D E	F G	н	JK	Ĺ	M N	0 P 0	R	S	T	U
1					· · · · · · · · · · · · · · · · · · ·				7.0			<u> </u>			
2												1		I	
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6															
7															
8	-														
9	-											-			
								Rate Rate		Base	Cont Elev Final DC Sevenity				
10	Monitored Facility		Fr Bue	Fr Namo	To Bus To Name	CKT kVe	Arose Arose Namo	(MUA) (MUA)	Cont Namo	Cont ID (MW)	(MW) SLoading Park	DPT Great	DEL SOUTIVE	Macker	ve 1 SD
11	242940 05MUSKNG	345 242947 05WATERFORD 345 1	24294	0.05MUSKNG	242947 05WATERFORD	1 345	205 AFP	1025 1318	Base Case	0 -996 7	- 97.23	-1 15%	-1 15%	0.64%	0 1 01
12	242046 05H05HH6	139 246067 05NATERFORD 545 1	24204	6 05KAMMED13	246067 05NATENTONB	1 139	205 AEP	205 294	Base Case	0 103 2	- 94.23	0.09%	0.09%	-0.07%	
12	243020 03RAPPERTS	120 244020 0ENEW CADLT1 120 1	24302		244020 05NAIRIONS4	1 120	205 AEF	203 204	Base Case	0 195.2	- 79.74	0.03%	0.03%	0.11%	
14	250057 08M FORM	120 250151 OQUEDTAD 120 1	24005	7 09M FORT	250151 094PPTAD	1 120	212 DE014	207 3371	Base Case	0 177 0	- 74.72	0.15%	-0.06%	0.11/0	
15	235346 01RONCVRT	138 242777 05PONCVP 138 7B	23534	6 01 PONCUPT	242777 05PONCVP	78 138	201/205 AP/AFP	104 104 1	Base Case	0 =75.7	- 72.83	0.00%	0.00%	0.00%	
16	242835 05TRISTA	138 242842 05W HIINT 138 1	23334	5 05TRISTA	242842 05W HUNT	1 130	205 AEP	205 284	Base Case	0 148 3	- 72.33	-0.09%	-0.09%	-0.13%	
17	242935 05F LTMA	345 242989 05E LTMA 139 2	24203	5 05E LIMA	242989 05F T.TMA	2 345/139	205 AFP	285 3691	Base Case	0 205 5	- 72.1	0.02%	0.02%	0.05%	
18	242605 05CLNCHR	138 242606 05CLNLED 138 1	24293	5 05CLNCHR	242606 05CT.NLED	1 128	205 AFP	223 3101	Base Case	0 159 5	- 71.51	-0.11%	-0.11%	0.02%	
19	242701 05LEESVT	138 314667 4ALTVSTA 139 1	24200	1 05LEESVT	314667 4ALTVSTA	1 130	205/345 AEP/DVP	205 284 1	Base Case	0 105.5	- 70.9	-0.14%	-0.14%	-0.51%	
20	270140 AA2-116 POT	345 270141 AA2-116 MAIN 345 1	27014	0 AA2-116 POT	270141 AA2-116 MATN	1 345	205 AEP	1239 12301	Base Case	0 -865 3	- 69.84	-0 54%	-0.54%	-0.54%	
21	242921 05CORNU	765 242924 05HANG R 765 1	24292	1 05CORNU	242924 05HANG B	1 765	205 AEP	1540 1540	Base Case	0 1066 8	- 69.27	-0.67%	-0.67%	-0.67%	
22	242926 05MALTS	765 243538 05MALTSX 138 1	24292	6 05MALTS	243538 05MAT.TSX	1 765/138	205 AEP	820 9261	Base Case	0 567 8	- 69.24	0.24%	0.24%	0.12%	
23	243012 05G WASHGTON	1 138 243026 05KAMMER13 138 1	24301	2 05G WASHGTON	243026 05KAMMER13	1 138	205 AEP	446 621 1	Base Case	0 -308.1	- 69.08	-0.29%	-0.29%	0.29%	
24	238649 02DALE	138 245797 05W.CANTON2 138 1	23864	9 02DALE	245797 05W.CANTON2	1 138	202/205 ATSI/AEP	233 282 1	Base Case	0 -160.7	- 68.98	-0.10%	-0.10%	0.13%	
25	243537 05MALIS	138 243538 05MALISX 138 ZB	24353	7 05MALIS	243538 05MALISX	ZB 138	205 AEP	820 1054	Base Case	0 -564.9	- 68.9 (0.24%	0.24%	0.12%	
26	239154 02W.FREM	138 243009 05FRMNT 138 1	23915	4 02W.FREM	243009 05FRMNT	1 138	202/205 ATSI/AEP	296 361 1	Base Case	0 202.3	- 68.36 (0.00%	0.00%	-0.21%	
27	250145 08MELDAL	138 250154 08MELDLS 138 1	25014	5 08MELDAL	250154 08MELDLS	1 138	212 DE0&K	125 125 1	Base Case	0 -84.2	- 67.4 (-0.05%	-0.05%	-0.05%	
28	235345 01HINTON	138 242668 05HINTON 138 ZB	23534	5 01HINTON	242668 05HINTON	ZB 138	201/205 AP/AEP	23 23 1	Base Case	0 -15.5	- 67.29 (0.00%	0.00%	0.00%	
29	249581 08MELDAL	345 250145 08MELDAL 138 1	24958	1 08MELDAL	250145 08MELDAL	1 345/138	212 DE0&K	126 126 1	Base Case	0 -84	- 66.7	-0.05%	-0.05%	-0.05%	
30	250118 08TRMNL2	138 249575 08TERMNL 345 1	25011	8 08TRMNL2	249575 08TERMNL	1 138/345	212 DE0&K	504 504 1	Base Case	0 -335.6	- 66.59 (-0.04%	-0.04%	-0.07%	
31	238514 02IRONV	138 238568 02BAYSHO 138 1	23851	4 02IRONV	238568 02BAYSHO	1 138	202 ATSI	223 271	Base Case	0 -148.2	- 66.44 (0.01%	0.01%	-0.01%	
32	242987 05DEXTER	138 243619 05ROSEWOODSS 138 1	24298	7 05DEXTER	243619 05ROSEWOODSS	1 138	205 AEP	293 341	Base Case	0 194.6	- 66.41 0	0.01%	0.01%	0.20%	
33	243212 05BENTON	345 243250 05BENTON 138 1	24321	2 05BENTON	243250 05BENTON	1 345/138	205 AEP	488 521 1	Base Case	0 323.1	- 66.21 (0.13%	0.13%	0.00%	
34	243026 05KAMMER13	138 246940 05BIGR2Z 138 1	24302	6 05KAMMER13	246940 05BIGR2Z	1 138	205 AEP	205 284 1	Base Case	0 135.3	- 66.02 (-0.12%	-0.12%	0.05%	
35	243070 050HIOCT	138 246770 05DRESDN 138 1	24307	0 050HIOCT	246770 05DRESDN	1 138	205 AEP	680 7951	Base Case	0 -448.3	- 65.93 (-0.28%	-0.28%	-0.28%	
36	242668 05HINTON	138 242777 05RONCVR 138 1	24266	8 05HINTON	242777 05RONCVR	1 138	205 AEP	145 145	Base Case	0 95.3	- 65.74 0	0.00%	0.00%	0.00%	
37	243453 05BEATTY	345 245769 05ADKINS 345 1	24345	3 05BEATTY	245769 05ADKINS	1 345	205 AEP	1096 1203 1	Base Case	0 -719.3	- 65.63	-0.88%	-0.88%	-0.24%	
38	246940 05BIGR2Z	138 247128 05ASTNSS 138 1	24694	0 05BIGR2Z	247128 05ASTNSS	1 138	205 AEP	205 284 1	Base Case	0 134.2	- 65.45 0	-0.12%	-0.12%	0.05%	
39	242943 05SCANTO	345 247463 05SCANTO XFL 345 Z1	24294	3 05SCANTO	247463 05SCANTO XFL 2	Z1 345	205 AEP	1740 1868 1	Base Case	0 -1128.6	- 64.86 0	-1.42%	-1.43%	2.25%	
40	250117 08TRMNL1	138 249575 08TERMNL 345 1	25011	7 08TRMNL1	249575 08TERMNL	1 138/345	212 DEO&K	498 498 1	Base Case	0 -322.7	- 64.8	-0.03%	-0.03%	-0.06%	
41	238568 02BAYSHO	138 240854 02CLIFFS NR 138 1	23856	8 02BAYSHO	240854 02CLIFFS NR	1 138	202 ATSI	297 365 1	Base Case	0 192.1	- 64.69 0	0.07%	0.07%	-0.01%	
42	243014 05GRBLOP	138 243300 05GRABIL 138 Z1	24301	4 05GRBLOP	243300 05GRABIL	Z1 138	205 AEP	19 19	Base Case	0 12.3	- 64.69 0	0.00%	0.00%	0.00%	
43	239123 02STAR	138 239160 02WADS 138 1	23912	3 02STAR	239160 02WADS	1 138	202 ATSI	221 262 1	Base Case	0 142.8	- 64.62 (-0.04%	-0.04%	0.04%	
44	250057 08M.FORT	138 325014 4CLIFTY TAP2 138 1	25005	7 08M.FORT	325014 4CLIFTY TAP2	1 138	212/363 DEO&K/LGEE	129 129 1	Base Case	0 -83	- 64.32	0.00%	0.00%	0.06%	
45	242605 05CLNCHR	138 242644 05FREMO1 138 1	24260	5 05CLNCHR	242644 05FREM01	1 138	205 AEP	223 310 1	Base Case	0 143.2	- 64.21 (0.01%	0.01%	0.18%	
46	243537 05MALIS	138 243553 05POLARS 138 1	24353	7 05MALIS	243553 05POLARS	1 138	205 AEP	223 310 1	Base Case	0 141.5	- 63.47 (0.01%	0.01%	0.00%	
47	249570 08P.UNON	345 250082 08P.UN1 138 1	24957	0 08P.UNON	250082 08P.UN1	1 345/138	212 DE0&K	500 500 1	Base Case	0 316.7	- 63.33 (0.03%	0.03%	0.00%	
48	248013 06PIERCE	345 250143 08PRCE18 138 18	24801	3 06PIERCE	250143 08PRCE18	18 345/138	206/212 OVEC/DEO&K	480 501	Base Case	0 303.6	- 63.25 (0.14%	0.14%	0.14%	
49	242921 05CORNU	765 242934 05CORNU 345 1	24292	1 05CORNU	242934 05CORNU	1 765/345	205 AEP	1698 1698 1	Base Case	0 -1068.1	- 62.9	-0.67%	-0.67%	-0.67%	
50	242639 05FLETCH	138 242801 05SKEGGS BRZ 138 1	24263	9 05FLETCH	242801 05SKEGGS BRZ	1 138	205 AEP	196 247 1	Base Case	0 123.1	- 62.83 (-0.12%	-0.12%	-0.02%	
51	243534 05LICK	138 246738 05JACKSON 138 Z1	24353	4 05LICK	246738 05JACKSON	Z1 138	205 AEP	43 52 1	Base Case	0 26.9	- 62.46	0.00%	0.00%	0.00%	
52	243229 050LIVE	345 243353 050LIVE 138 2	24322	9 050LIVE	243353 050LIVE	2 345/138	205 AEP	766 803 1	Base Case	0 476.5	- 62.2	-0.05%	-0.05%	0.03%	
53	242835 05TRISTA	138 243904 05MARIETT 138 1	24283	5 05TRISTA	243904 05MARIETT	1 138	205 AEP	531 531	Base Case	0 -330.1	- 62.17 (-0.23%	-0.23%	-0.23%	
54	238662 02DKQ-17	138 238740 02FWLSQ2 138 1	23866	2 02DKQ-17	238740 02FWLSQ2	1 138	202 ATSI	103 133 1	Base Case	0 -63.9	- 62.01 0	-0.02%	-0.02%	0.00%	
55	249991 08BUFTN1	138 250028 08FLRNC2 138 1	24999	1 08BUFTN1	250028 08FLRNC2	1 138	212 DEO&K	266 266 1	Base Case	0 164.7	- 61.91 0	0.04%	0.04%	0.07%	
56	242691 05KENOVA	138 242835 05TRISTA 138 1	24269	1 05KENOVA	242835 05TRISTA	1 138	205 AEP	334 466 1	Base Case	0 -206.7	- 61.9 0	0.02%	0.02%	0.18%	
57	242659 05GRNGST	138 246919 05CHADWICK2 138 1	24265	9 05GRNGST	246919 05CHADWICK2	1 138	205 AEP	409 527 1	Base Case	0 252.7	- 61.78 (-0.09%	-0.09%	0.05%	
58	243250 05BENTON	138 243396 05WESTST 138 1	24325	0 05BENTON	243396 05WESTST	1 138	205 AEP	167 245 1	Base Case	0 103.1	- 61.74 (0.01%	0.01%	-0.01%	
59	242835 05TRISTA	138 243681 05CHADWICK1 138 1	24283	5 05TRISTA	243681 05CHADWICK1	1 138	205 AEP	251 335 1	Base Case	0 154.9	- 61.7 (0.05%	0.05%	0.08%	
60	250081 080AKLEY	138 250092 08REDBK1 138 1	25008	1 080AKLEY	250092 08REDBK1	1 138	212 DEO&K	324 324 1	Base Case	0 -199.8	- 61.65 0	-0.02%	-0.02%	-0.03%	

		Α		В	С	DE	F	G	НІ	J	К		М	N	0	Р	Q	R	S	T U
61 242928 05MARYSV	765	242939 05MARYSV	345 2	242928	05MARYSV	242939 05MARYSV	2	2 765/345	205 AEP	1868	1868 Base	Case	0	1150.6	-	61.6	0	0.42%	0.42%	0.85%
62 238822 02INQ-11	138	239324 02CH	138 1	238822	02INQ-11	239324 02CH	1	138	202 ATSI	273	332 Base	Case	0	167.9	-	61.51	0	-0.07%	-0.07%	0.04%
63 242987 05DEXTER	138	246310 05MEIGS SW1Z	138 1	242987	05DEXTER	246310 05MEIGS SW1	Z 1	138	205 AEP	329	361 Base	Case	0 -	-201.4	-	61.2	0	0.01%	0.01%	0.20%
64 243038 05MEIG1Z	138	243084 05RUTLAN	138 1	243038	05MEIG1Z	243084 05RUTLAN	.1	138	205 AEP	334	440 Base	Case	0 -	-203.4	-	60.9	0	0.01%	0.01%	0.20%
65 242576 05CAPITOLH	138	242593 05CHEM 2	138 1	242576	05CAPITOLH	242593 05CHEM 2	1	138	205 AEP	410	568 Base	Case	0 -	-248.7	-	60.65	0	-0.32%	-0.32%	-0.31%
66 238563 02BAY SH	345	238568 02BAYSHO	138 2	238563	02BAY SH	238568 02BAYSHO	2	2 345/138	202 ATSI	546	616 Base	Case	0	331	-	60.62	0	0.03%	0.03%	0.02%
67 238581 02BRBRTN	138	239619 02ALCOA	138 1	238581	02BRBRTN	239619 02ALCOA	1	138	202 ATSI	233	282 Base	Case	0	141.1	-	60.55	0	-0.08%	-0.08%	0.09%
68 243062 05NMUSKG	138	247374 05MUSKNG2B	138 1	243062	05NMUSKG	247374 05MUSKNG2B	t	138	205 AEP	223	310 Base	Case	0	-135	-	60.52	0	0.14%	0.14%	0.13%
69 253005 09BATH	138	253085 09URBANA	138 1	253005	09BATH	253085 09URBANA	1	138	209 DAY	163	200 Base	Case	0	98.6		60.46	0	-0.17%	-0.17%	-0.04%
70 243038 05MEIG1Z	138	246310 05MEIGS SW1Z	138 1	243038	0.5MEIG1Z	246310 05MEIGS SW1	7 1	138	205 AEP	334	480 Base	Case	0	201.4	-	60.31	0	0.01%	0.01%	0.20%
71 248013 06PTERCE	345	250086 08PTERCE	138 17	248013	06PTERCE	250086 08PTERCE	13	7 345/138	206/212 OVEC/DEO&K	515	537 Base	Case	0	309.9	-	60.17	0	0.17%	0.17%	0.15%
72 238766 02GBED D	138	238767 02GRED T	138 1	238766	02GRED D	238767 02GBED T	1	138	202 ATST	26	26 Base	ase	0	-15.6	-	60.09	0	0.00%	0.00%	0.00%
73 239093 025AMMTS	138	239369 02TORONTO	138 1	239093	02SAMMTS	239369 02TORONTO	1	138	202 1101	278	330 Base	~aeo	0.	-167 1	-	60.09	0	0.00%	0.00%	0.06%
74 243234 05TWIN P	345	243395 05THIN P	139 7	243234	OSTWIN D	243385 05TWIN P		7 3/5/139	205 AFD	670	752 Base	7250	0	401.6	-	59.03	0	-0.02%	-0.02%	-0.01%
75 242229 05MEDIDN	245	243385 051WIN B	2/5 1	243234	O SMEDIDN	243303 05TWIN B	-	245	205 AEF	106	550 Base	2000	0	200 5		59.93	0	0.02%	0.02%	0.00%
75 243228 USMERIDN	120	243763 USEWHILI	120 1	243220	05MERIDN 050mmpp	243763 UJEWHILI		120	203 AEF	400	245 Dase	Case	0	290.3		59.77	0	0.00%	0.00%	0.00%
70 242741 05011ER	130	SI4007 4ALIVSIA	130 I	242741	09DOTTER	SI4007 4ALIVSIA		130	205/345 AEP/DVP	240	245 Base	Case	0	-99.4	-	59.52	0	0.00%	0.00%	0.95%
79 242207 0525055	130	200090 UOKEDBKZ	130 L	249984	05CDODN	200093 08KEDBKZ		100	212 DEU&K	240	233 Base	Case		141.0 077 E	-	59.02	0	-0.01%	-0.01%	0.10%
70 242807 USSPORN	138	2428U8 USSPURNS	130 1	242807	OGRIMER	242808 05SPORNS	71	138	203 AEP	4/1	042 Base	Jase	U -	1052 7	-	28.91	0	0.1/%	0.1/%	0.19%
13 2495// U8ZIMER	345	249580 0821MERG	345 21	249577	UOZIMER	249580 0821MERG	21	345	ZIZ DEO&K	1/93	1/93 Base	Jase	0 -	1033./	-	58.77	0	-0.66%	-0.66%	-0.00%
00 25005/ 08M.FORT	138	24956/ U8M.FORT	345 9	250057	USM.FORT	24956/U8M.FORT		138/345	212 DEO&K	422.9	4/4.8 Base	Jase	0 -	-24/.5	-	58.51	0	-0.05%	-0.05%	-0.10%
81 243131 USTILTON	138	243143 U5WBELLA	138 1	243131	USTILTON	243143 U5WBELLA		138	205 AEP	251	335 Base	Jase	0 -	-146.8	-	58.5	0	-0.62%	-0.62%	0.01%
82 250016 08EBNZR	138	250057 08M.FORT	138 1	250016	USEBNZR	250057 08M.FORT	1	138	212 DEO&K	266	266 Base	Case	0 -	-155.6	-	58.49	0	-0.03%	-0.03%	0.00%
83 243312 05HUMMEL	138	244658 05GRNTWN	138 1	243312	USHUMMEL	244658 05GRNTWN	1	138	205 AEP	219	251 Base	Case	0 -	-127.6	-	58.26	0	-0.07%	-0.07%	-0.01%
84 242607 05CLOVRD	138	242676 05HUNTCT	138 1	242607	USCLOVRD	242676 05HUNTCT	1	138	205 AEP	251	335 Base	Case	0	145.8	-	58.09	0	0.11%	0.11%	-0.17%
85 243224 05KENZIE	345	243322 05KENZIE	138 1	243224	05KENZIE	243322 05KENZIE]	345/138	205 AEP	508	535 Base	Case	0	295.1	-	58.08	0	-0.02%	-0.02%	-0.01%
86 249573 08SGROVE	345	250097 08SGROVE	138 1	249573	08SGROVE	250097 08SGROVE	1	345/138	212 DEO&K	495	498 Base	Case	0	287.4	-	58.05	0	-0.10%	-0.10%	-0.12%
87 242687 05JOHNMT	138	242741 050TTER	138 1	242687	05JOHNMT	242741 050TTER	1	138	205 AEP	167	245 Base	Case	0	-96.2	-	57.61	0	0.00%	0.00%	0.95%
88 250046 08HINKLE	138	250117 08TRMNL1	138 1	250046	08HINKLE	250117 08TRMNL1	1	138	212 DEO&K	275	275 Base	Case	0	-158	-	57.47	0	-0.04%	-0.04%	-0.04%
89 242606 05CLNLFD	138	242639 05FLETCH	138 1	242606	05CLNLFD	242639 05FLETCH	1	138	205 AEP	223	310 Base	Case	0	128.1	-	57.45	0	-0.12%	-0.12%	-0.02%
90 243049 05NATRIUM12	138	246067 05NATRIUM34	138 Z2	243049	05NATRIUM12	246067 05NATRIUM34	Z2	138	205 AEP	187	240 Base	Case	0 -	-107.1	-	57.3	0	0.06%	0.06%	0.03%
91 243049 05NATRIUM12	138	246067 05NATRIUM34	138 Z1	243049	05NATRIUM12	246067 05NATRIUM34	Z1	138	205 AEP	187	240 Base	Case	0 -	-107.1	-	57.3	0	0.06%	0.06%	0.03%
92 249567 08M.FORT	345	250057 08M.FORT	138 10	249567	08M.FORT	250057 08M.FORT	10	345/138	212 DEO&K	442.7	487.9 Base	Case	0	253.2	-	57.2	0	-0.05%	-0.05%	-0.16%
93 243513 05GENOA	138	243591 05SPRNGR	138 1	243513	05genoa	243591 05SPRNGR	1	138	205 AEP	196	216 Base	Case	0	111.9	-	57.1	0	0.04%	0.04%	0.01%
94 243250 05BENTON	138	243365 05RIVERSIDE1	138 2	243250	05BENTON	243365 05RIVERSIDE	1 2	138	205 AEP	136	167 Base	Case	0	77.3	-	56.84	0	0.04%	0.04%	0.00%
95 243547 05MORSE	138	243577 05STELZR	138 1	243547	05MORSE	243577 05STELZR	1	138	205 AEP	187	240 Base	Case	0	105.4	-	56.34	0	0.07%	0.07%	0.00%
96 249574 08TDHNTR	345	250107 08TODM15	138 1	249574	08TDHNTR	250107 08TODM15	1	345/138	212 DEO&K	477	489 Base	Case	0	266.8	-	55.94	0	-0.03%	-0.03%	-0.04%
97 250057 08M.FORT	138	250131 08WILEY2	138 1	250057	08M.FORT	250131 08WILEY2	1	138	212 DEO&K	198	198 Base	Case	0	110.3	-	55.68	0	-0.03%	-0.03%	0.01%
98 238978 02N.STAR	138	239120 02SSPRNG	138 1	238978	02N.STAR	239120 02SSPRNG	1	138	202 ATSI	176	229 Base	Case	0	-97.8		55.54	0	0.00%	0.00%	0.00%
99 243396 05WESTST	138	247134 05EWATRV	138 1	243396	05WESTST	247134 05EWATRV	1	138	205 AEP	167	245 Base	Case	0	92.5	-	55.36	0	0.00%	0.00%	-0.01%
100 241901 02LALLENDORF	345	241902 020REGON	345 ZL	241901	02LALLENDORF	241902 020REGON	ZL	345	202 ATSI	1195	1195 Base	Case	0 -	-660.7	-	55.29	0	-0.41%	-0.41%	-0.41%
101 242948 05WBELLA	345	243143 05WBELLA	138 3	242948	05WBELLA	243143 05WBELLA	3	3 345/138	205 AEP	680	747 Base	Case	0	373.9		54.99	0	-0.29%	-0.29%	0.04%
102 238759 02GM WAR	138	239138 02TOD	138 1	238759	02GM WAR	239138 02TOD	1	138	202 ATSI	267	352 Base	Case	0 -	-146.7	-	54.93	0	0.10%	0.10%	0.00%
103 243529 0.5KENNY	138	243560 05ROBERT	138 1	243529	05KENNY	243560 05ROBERT	1	138	205 AEP	213	282 Base	Case	0	-117	-	54.91	n	-0.10%	-0,10%	-0.05%
104 249566 08FOSTER	345	250035 08FTRM11	138 1	249566	08FOSTER	250035 08FTRM11	1	345/138	212 DE0&K	492	498 Base	Case	0	269.1	-	54.69	0	0.06%	0.06%	0.01%
105 243062 05NMUSKG	138	243074 05PHTLO1	138 1	243062	05NMUSKG	243074 05PHTLO1	1	138	205 AFP	210	255 Base	Case	0	119.4		54 53	0	0 14%	0.14%	0.13%
106 238538 02APRO-1	138	238836 02,765013	138 1	238538	02APRO-1	238836 02.765013	1	130	202 ATST	205	265 Base	Case	0.	-111.7	-	54 51	n	0.01%	0.01%	0.01%
107 250092 088EDBK1	138	249571 08PEDBK1	345 1	250000	08PEDBK1	249571 08REDBK1		138/345	212 DEOSK	490	501 Base		0	-265 1		54 22	0	-0.05%	-0.05%	-0.06%
108 243469 05PEATTY	139	926010 AC1-078 TAD	138 1	243460	05BEATTY	926010 201-078 000		120	205/202 AFD/ATCT	200	242 8380		0	108 /		54.22	0	0.00%	0.00%	0.06%
100 239922 0350-14	120	220242 02401 T-2	120 1	243403	021NO-14	220210 ACT 070 TAT		120	203/202 AEF/AISI	200	242 Dase	2220	0	140		54.05	0	-0.01%	-0.01%	0.00%
110 242907 05000PM	130	200242 02HULT-A	130 1	230023	05CDODN	2420242 UZHULI-A		130	202 AIDI 205 AFD	209	202 Page	Case	0	100 2	_	52 05	0	-0.01%	-0.01%	0.02%
111 242807 055PORN	100	243084 USRUILAN	130 1	242007	055PORN	243064 USKUILAN		130	205 AEP	101	392 Base	Jase	0	100.2		53.95	0	0.03%	0.03%	0.23%
112 243409 USBEATTY	138	243380 USWHITER	130 1	243469	O SEATTY	243500 USWHITER		138	205 AEP	191	209 Base	Jase	U	103	-	53.94	0	-0.07%	-0.07%	-0.05%
112 24268/ USJOHNMT	138	242/34 USNEWLDN	138 1	242687	USJOHNMT	242/34 USNEWLDN		138	205 AEP	167	240 Base	Jase	U	89.8	-	53.76	0	0.00%	0.00%	0.95%
113 238539 UZARMCO	138	238540 UZARMCO+	138 1	238539	UZARMCO	238540 U2ARMCO+		138	202 ATS1	159	191 Base	case	U	-85.4	-	53.7	0	0.00%	0.00%	0.00%
114 242605 05CLNCHR	138	243899 U5LOCKHA	138 1	242605	USCLNCHR	243899 U5LOCKHA	1	138	205 AEP	223	310 Base	Jase	0	119.7	-	53.69	0	0.02%	0.02%	0.18%
115 247/97 05STEMPLE	345	24//98 Y2-050_STN	345 1	247797	USSTEMPLE	24//98 Y2-050 STN	1	345	205 AEP	999	999 Base	Jase	0 -	-535.4	-	53.59	0	-0.33%	-0.33%	-0.33%
116 243563 05ROZELL	138	243585 05WAVERL	138 1	243563	USROZELL	243585 05WAVERL	- 1	138	205 AEP	223	302 Base	Case	0 -	-119.4	-	53.56	0	-0.08%	-0.08%	0.07%
11/ 238504 02GM-PWR-TRN	138	241945 AB1-107 TAP	138 1	238504	02GM-PWR-TRN	241945 AB1-107 TAP	1	138	202 ATSI	278	342 Base	Case	0 -	-148.6		53.46	0	0.05%	0.05%	-0.03%
118 238540 02ARMCO+	138	238906 02LNGVEW	138 1	238540	02ARMCO+	238906 02LNGVEW	1	138	202 ATSI	160	192 Base	Case	0	-85.4	-	53.37	0	0.00%	0.00%	0.00%
119 238620 02CL Q12	138	239296 02CPPRDG	138 1	238620	02CL Q12	239296 02CPPRDG	1	138	202 ATSI	187	222 Base	Case	0	99.7	-	53.33	0	-0.22%	-0.22%	-0.01%
120 242576 05CAPITOLH	138	247794 05COCO	138 1	242576	05CAPITOLH	247794 05COCO	1	138	205 AEP	257	360 Base	Case	0	136.9	-	53.27	0	-0.33%	-0.33%	-0.22%

	Α		B C	D	E	F	G	НІ	J	К	L.	M	N	0	Р	Q	R	S	T U
121 239107 02SHNAGO	138 239934 02HEASLEY 1	138 2	239107 02SHNAGO	239934	02HEASLEY	2	138	202 ATSI	176	229	Base Case	0	93.7	-	53.24	0	-0.37%	-0.37%	0.00%
122 242946 05TIDD	345 253965 15COLLIE 3	345 1	242946 05TIDD	253965	15COLLIE	1	345	205/215 AEP/DLCO	1229	1391	Base Case	0	650.7	-	52.94	0	-1.16%	-1.16%	0.49%
123 242583 05CATAWB	138 242607 05CLOVRD 1	138 1	242583 05CATAWB	242607	05CLOVRD	1	138	205 AEP	205	205	Base Case	0	-108.5	-	52.93	0	0.12%	0.12%	0.23%
124 242701 05LEESVI	138 242802 05SMITHMTN 1	138 1	242701 05LEESVI	242802	05SMITHMTN	1	138	205 AEP	205	255	Base Case	0	-108.1	-	52.74	0	-0.12%	-0.12%	-0.48%
125 250151 08HEBTAP	138 250152 08HEBRNG 1	138 Z1	250151 08HEBTAP	250152	08HEBRNG	Z1	138	212 DEO&K	309	349	Base Case	0	163	-	52.74	0	-0.06%	-0.06%	-0.04%
126 243307 05HARTEO	138 247134 05EWATRV 1	138 1	243307 05HABTEO	247134	05EWATRV	1	138	205 AEP	167	245	Base Case	0	-87.8	-	52 54	0	0.00%	0.00%	-0.01%
127 243008 05FREMCT	138 243009 05ERMNT 1	138 1	243008 05FREMCT	243009	05FRMNT	1	138	205 AEP	251	251	Base Case	0	-131.9	_	52.54	0	0.00%	0.00%	-0.17%
128 250162 08GARVER	138 249582 08CARVER 3	345 1	250162 08CARVER	249582	OSCARVER	1	138/345	212 DEOEK	478	478	Base Case	0	-249 8	_	52.01	0	-0.02%	-0.02%	-0.03%
120 242939 05THETVE	139 243004 05MARTERT 1	120 1	242939 05 THE VE	243904	05MADIETT	1	130/343	205 AFP	695	605	Base Case	0	362 0		52.20	0	-0.23%	-0.23%	-0.23%
120 232037 02N MED	130 230107 02PUCKEY 1	120 1	2320377 02N MED	243304	OOPHCKEY		120	203 AEF	222	2035	Base Case	0	101 5		52.21	0	-0.23%	-0.23%	-0.23%
130 238377 02N MED	130 246200 05CLOPE ME Z 1	130 1	236977 02N MED	239197	OZBOCKEI		130	202 AISI	1.67	102	Dase Case	0	121.3		52.13	0	-0.13%	-0.13%	-0.01%
131 243767 USGLOBE	138 246399 USGLOBE MT Z 1	138 1	243767 USGLOBE	246399	OSGLOBE MT Z		138	205 AEP	167	167	Base Case	0	-86.8	-	51.98	0	0.00%	0.00%	0.00%
132 243049 05NATRIUMI2	138 243775 05PITTPL 1	138 1	243049 05NATRIUMI2	243775	05PITTPL		138	205 AEP	143	153	Base Case	0	/4.2	-	51.85	0	0.00%	0.00%	0.00%
133 242940 05MUSKNG	345 242941 050HIOCT 3	345 1	242940 05MUSKNG	242941	050HIOCT	1	345	205 AEP	1025	1318	Base Case	0	530.3	-	51.73	0	0.72%	0.72%	0.53%
134 249574 08TDHNTR	345 250109 08TODM17 1	138 1	249574 08TDHNTR	250109	08TODM17	1	345/138	212 DEO&K	491	503	Base Case	0	253.1	-	51.55	0	-0.03%	-0.03%	-0.04%
135 249574 08TDHNTR	345 250108 08TODM16 1	138 1	249574 08TDHNTR	250108	08TODM16	1	1 345/138	212 DEO&K	492	504	Base Case	0	253.6	-	51.55	0	-0.03%	-0.03%	-0.04%
136 242938 05MARQUI	345 246888 05BIERSR 3	345 1	242938 05MARQUI	246888	05BIERSR	1	345	205 AEP	1390	1390	Base Case	0	716.4	-	51.54	0	-0.36%	-0.37%	0.70%
137 242932 05CANTNC	345 247797 05STEMPLE 3	345 1	242932 05CANTNC	247797	05STEMPLE	1	345	205 AEP	1409	1409	Base Case	0	-725.8	-	51.51	0	0.14%	0.14%	-0.16%
138 243247 05AUBURN	138 255125 17DEKALB 1	138 1	243247 05AUBURN	255125	17DEKALB	1	138	205/217 AEP/NIPS	45	45	Base Case	0	23.2		51.48	0	0.01%	0.01%	0.01%
139 250046 08HINKLE	138 250074 08MTCHL4 1	138 1	250046 08HINKLE	250074	08MTCHL4	1	138	212 DEO&K	275	275	Base Case	0	141.1	-	51.31	0	-0.04%	-0.04%	-0.04%
140 249988 08BKJ135	138 250086 08PIERCE 1	138 1	249988 08BKJ135	250086	08PIERCE	1	138	212 DEO&K	603	603	Base Case	0	-309.3	-	51.3	0	0.17%	0.17%	0.15%
141 239161 02WAKRON	138 239619 02ALCOA 1	138 1	239161 02WAKRON	239619	02ALCOA	1	138	202 ATSI	270	332	Base Case	0	-138.5	-	51.28	0	-0.08%	-0.08%	0.09%
142 249571 08REDBK1	345 250093 08REDBK2 1	138 1	249571 08REDBK1	250093	08REDBK2	1	345/138	212 DEO&K	485	497	Base Case	0	248.2	-	51.18	0	-0.04%	-0.04%	-0.06%
143 246481 05NMUSKG BP	138 246490 05PHILO BP 1	138 1	246481 05NMUSKG BP	246490	05PHILO BP	1	138	205 AEP	187	240	Base Case	0	95.6	-	51.15	0	-0.15%	-0.15%	0.10%
144 242855 05WYOMIN	138 247004 05GUYAND 1	138 1	242855 05WYOMIN	247004	05GUYAND	1	138	205 AEP	205	284	Base Case	0	104.2	-	50.81	0	-0.08%	-0.08%	-0.01%
145 243473 05BIXBY	138 243536 05LS-II 1	138 1	243473 05BIXBY	243536	05LS-II	1	138	205 AEP	196	247	Base Case	0	99.6	-	50.81	0	0.07%	0.07%	0.00%
146 242537 05AMOS	138 242538 05AMOS 6 XFL 1	138 1	242537 05AMOS	242538	05AMOS 6 XFL	1	138	205 AEP	696	747	Base Case	0	-352.7	-	50.68	0	-0.15%	-0.15%	-0.18%
147 242689 05KANAWHA1	138 247092 05KANAWH BSZ 1	138 ZT.	242689 05KANAWHA1	247092	05KANAWH BSZ	21.	138	205 AEP	285	368	Base Case	0	-144.3	-	50.64	0	-0.12%	-0.12%	0.04%
148 243034 05MAROUT	138 243501 05E BEAV 1	138 1	243034 05MAROUT	243501	05E BEAV	1	138	205 AEP	223	310	Base Case	0	112 8	-	50 6	0	-0.08%	-0.08%	0.00%
149 242997 05F NEWCONCZ	138 246490 05PHILO BP 1	138 1	242997 05E NEWCONCZ	246490	05PHTIO BP	1	138	205 AEP	187	240	Base Case	0	-94 3	-	50.44	0	-0.15%	-0.15%	0.10%
150 247780 05KLINE	139 255163 17NOPTHEAST 1	130 1	242337 05E.NEWCONC2	255163	17NOPTHEAST	1	130	205/217 AFD/NTDC	1.95	230	Base Case	0	03.2		50.39	0	-0.07%	-0.07%	-0.07%
151 242540 05MULDBY	130 24262 06D07ELL 1	120 1	242540 05KLINE	200100	05DOZELI		120	205/21/ AEF/NIF5	202	22.5	Base Case	0	_112 4		50.33	0	-0.07%	-0.07%	0.07%
151 243349 05M0LBRI	130 2445565 USROZELL 1	130 1	243349 05M0LBR1	243303	OFCONTIN		130	205 AEF	223	310	Dase Case	0	126.4		50.35	0	-0.08%	-0.08%	0.07%
152 243302 05GRANT	138 244658 USGRNTWN 1	138 1	243302 05GRANT	244658	USGRNTWN		138	205 AEP	251	335	Base Case	0	-126.4	-	50.35	0	-0.07%	-0.07%	-0.05%
153 243224 USKENZIE	345 270139 AA2-116 TAP2 3	345 1	243224 USKENZIE	270139	AAZ-116 TAPZ		. 345	205 AEP	1409	1409	Base Case	0	-/08.5	-	50.29	0	-0.17%	-0.17%	-0.28%
154 249989 08BKJ246	138 250143 08PRCE18 1	138 1	249989 08BKJ246	250143	08PRCE18		138	212 DE0&K	603	603	Base Case	0	-303	-	50.25	0	0.14%	0.14%	0.14%
155 238568 02BAYSHO	138 239029 020REGON 1	138 1	238568 UZBAYSHO	239029	02OREGON		138	202 ATS1	287	342	Base Case	0	144.1	-	50.21	0	0.00%	0.00%	-0.03%
156 242637 05FLATWO	138 247794 05COCO 1	138 1	242637 05FLATWO	247794	05COCO]	138	205 AEP	219	255	Base Case	0	-109.9	-	50.2	0	-0.29%	-0.29%	0.03%
157 246352 05HAVILAND2	138 246950 05TIMBSS 1	138 1	246352 05HAVILAND2	246950	05TIMBSS	1	. 138	205 AEP	187	240	Base Case	0	-93.5	-	50.01	0	-0.17%	-0.17%	-0.05%
158 250091 08RCHLE3	138 250118 08TRMNL2 1	138 1	250091 08RCHLE3	250118	08TRMNL2	1	138	212 DEO&K	268	275	Base Case	0	-133.9	-	49.95	0	-0.02%	-0.02%	-0.05%
159 243855 05JUG ST	345 243856 05JUG ST 1-6 1	138 5	243855 05JUG ST	243856	05JUG ST 1-6	5	5 345/138	205 AEP	515	544	Base Case	0	257.2	-	49.94	0	0.01%	0.01%	0.01%
160 242575 05CAMDLM	138 242802 05SMITHMTN 1	138 1	242575 05CAMDLM	242802	05SMITHMTN	1	138	205 AEP	205	255	Base Case	0	-102.2	-	49.87	0	-0.06%	-0.06%	0.37%
161 250105 08TDHNTR	138 250116 08TRENTON 1 1	138 1	250105 08TDHNTR	250116	08TRENTON_1	1	138	212 DEO&K	302	302	Base Case	0	150.5	-	49.83	0	0.04%	0.04%	0.04%
162 238847 02JP	138 240854 02CLIFFS_NR 1	138 1	238847 02JP	240854	02CLIFFS_NR	1	138	202 ATSI	312	380	Base Case	0	-155.4	-	49.8	0	0.07%	0.07%	-0.01%
163 246751 05VASSEL	765 247728 05VASSEL_XFL 3	345 1	246751 05VASSEL	247728	05VASSEL_XFL	1	765/345	205 AEP	2403	2772	Base Case	0	1196.4	-	49.79	0	0.93%	0.93%	0.38%
164 240359 02BENTLEYQ1	138 241927 02AVQ1 1	138 1	240359 02BENTLEYQ1	241927	02AVQ1	1	138	202 ATSI	278	339	Base Case	0	-138.3	-	49.77	0	-0.25%	-0.25%	-0.03%
165 242685 05J.FERX	138 242745 05PEAKCK 1	138 1	242685 05J.FERX	242745	05PEAKCK	1	138	205 AEP	251	335	Base Case	0	124.8	-	49.74	0	-0.10%	-0.10%	-0.16%
166 243685 05DORTON	138 243899 05LOCKHA 1	138 1	243685 05DORTON	243899	05LOCKHA	1	138	205 AEP	223	310	Base Case	0	-110.9	-	49.73	0	0.02%	0.02%	0.18%
167 250052 08KYUNIV	138 250097 08SGROVE 1	138 1	250052 08KYUNIV	250097	08SGROVE	1	138	212 DEO&K	275	275	Base Case	0	-136.8	-	49.73	0	-0.01%	-0.01%	0.00%
168 243055 05NEGLEY	138 243092 05scanto 1	138 1	243055 05NEGLEY	243092	05SCANTO	1	138	205 AEP	251	335	Base Case	0	-124.6	-	49.64	0	-0.08%	-0.08%	0.05%
169 242728 05MULLNV	138 247004 05GUYAND 1	138 1	242728 05MULLNV	247004	05GUYAND	1	138	205 AEP	205	284	Base Case	0	-101.7	-	49.59	0	-0.08%	-0.08%	-0.01%
170 243127 05TIDD 1-2	138 247016 05GABLSS 1	138 1	243127 05TIDD 1-2	247016	05GABLSS	1	138	205 AEP	287	337	Base Case	0	141.8	-	49.39	0	0.32%	0.32%	-0.04%
171 242689 05KANAWHA1	138 247068 05KANAWH ASZ 1	138 ZU	242689 05KANAWHA1	247068	05KANAWH ASZ	ZU	138	205 AEP	285	337	Base Case	0	-140.7	_	49.37	0	-0.12%	-0.12%	0.04%
172 241930 02AV04	138 238551 02AVON 3	345 92	241930 02AV04	238551	02AVON		138/345	202 ATST	546	61.4	Base Case	0	-269 5		49 36	0	-0.43%	-0.43%	-0.07%
173 238797 02HCHIND	138 239138 02mon 1	138 1	238797 024041 ND	230130	02000	1	120	202 1101	320	/12	Base Case	0	162 3		40 30	0	0.10%	0.10%	0.00%
174 242980 05CANTING	138 243139 05WACENUATCO 1	138 2	242980 0503 MILIND	242120	05WACENUAT CO		120	202 4151	206	300	Base Case	0	145 4		40 1/	0	0.10%	0.06%	-0.04%
175 239724 02EMED.00	139 230242 02001 m 3 1	130 2	232724 02EMEACE	230213	02HOLT. 3		100	200 ADP	104	272	Page Case	0	_04 7		49.14	0	_0.00%	-0.00%	0.02%
175 230724 UZEMEAST	130 239242 UZHULT-A I	1.20 L	230724 U2FMEAST	239242	02 TOLL TA		120	202 A151	194	237	Base Case	U	-94./		40.03	0	0.07%	0.07%	0.02%
177 240570 02DIXIE	130 23884/ UZJP 1	130 I	230300 UZDIXIE	23884/	OOD INC		138	202 ATS1	242	296	Dase Case	U	-118.1		48.81	0	0.01%	0.01%	-0.01%
177 249570 08P.UNON	343 250083 08P.UNZ 1	136 1	249570 08P.UNON	250083	UOP.UNZ		345/138	ZIZ DEO&K	500	500	base Case	U	243.9	-	48.77	0	0.01%	0.01%	0.01%
178 243458 05HYATT	345 243526 05HYATT 1	138 1	243458 05HYATT	243526	USHYATT	1	1 345/138	205 AEP	321	363	Base Case	0	156.5		48.74	0	-0.04%	-0.04%	-0.05%
1/9 243088 05S.POINT1	138 245948 05MILLBR PK2 1	138 1	243088 05S.POINT1	245948	U5MILLBR PK2	1	138	205 AEP	136	167	Base Case	0	66.1	-	48.62	0	0.07%	0.07%	0.15%
180 242968 05BRUES	138 243143 05WBELLA 1	138 2	242968 05BRUES	243143	05WBELLA	2	2 138	205 AEP	205	284	Base Case	0	-99.4	-	48.49	0	-0.02%	-0.02%	0.05%

	А	B C	D E	F G	НІ	J	K L	М	N	0	Р	Q	R	S	T U
181 242980 05CANTNC	138 246267 05WAGENHALS1 138 1	242980 05CANTNC	246267 05WAGENHALS1	1 138	205 AEP	296	392 Base Case	0	143.5		48.47	0	0.06%	0.06%	-0.03%
182 243542 05MIFFIN	138 243577 05STELZR 138 1	243542 05MIFFIN	243577 05STELZR	1 138	205 AEP	209	209 Base Case	0	-101.3	-	48.45	0	0.07%	0.07%	0.00%
183 242969 05BRUES2	138 243143 05WBELLA 138 1	242969 05BRUES2	243143 05WBELLA	1 138	205 AEP	205	284 Base Case	0	-99.3	-	48.45	0	-0.02%	-0.02%	0.05%
184 239353 02HARMON	345 242943 05SCANTO 345 1	239353 02HARMON	242943 05SCANTO	1 345	202/205 ATSI/AEP	1409	1868 Base Case	0	-680.8	-	48.32	0	0.06%	0.06%	0.87%
185 249991 08BUFTN1	138 249564 08BUFTN1 345 1	249991 08BUFTN1	249564 08BUFTN1	1 138/345	212 DEO&K	485	498 Base Case	0	-233.6	-	48.17	0	0.05%	0.05%	0.02%
186 243678 05BSANDX	138 243679 05BUSSYV 138 1	243678 05BSANDX	243679 05BUSSYV	1 138	205 AEP	223	310 Base Case	0	107.4		48.15	0	0.04%	0.04%	-0.08%
187 243034 05MAROUI	138 243544 05MILPRD 138 2	243034 05MAROUI	243544 05MILPRD	2 138	205 AEP	223	310 Base Case	0	107.2	-	48.06	0	0.01%	0.01%	0.07%
188 238730 02FORTIN	138 239310 02BPHUSKY 138 1	238730 02FORTIN	239310 02BPHUSKY	1 138	202 ATSI	241	292 Base Case	0	-115.7	-	47.99	0	0.07%	0.07%	-0.01%
189 243034 05MAROUI	138 243585 05WAVERL 138 1	243034 05MAROUI	243585 05WAVERL	1 138	205 AEP	223	302 Base Case	0	107		47.97	0	0.01%	0.01%	0.07%
190 244658 05GRNTWN	138 249800 08MTER 138 1	244658 05GBNTWN	249800 08MTEB	1 138	205/208 AEP/DEI	243	243 Base Case	0	116.5	-	47.95	0	-0.02%	-0.02%	0.03%
191 250067 08MLHSB2	138 250082 08P UN1 138 1	250067 08MLHSB2	250082 08P. UN1	1 138	212 DEO&K	198	198 Base Case	0	-94.8	-	47.87	0	0.02%	0.02%	-0.01%
192 249999 08CNSTNC	138 250044 08HEBBN2 138 1	249999 08CNSTNC	250044 08HEBBN2	1 138	212 DE04K	238	238 Base Case	0	-113.8	-	47.82	0	-0.05%	-0.05%	-0.01%
193 253024 09ESTDNY	138 253068 09SHELBY 138 1	253024 09ESTDNY	253068 09SHELBY	1 138	209 DAY	163	229 Base Case	0	-77.9		47 77	0	-0.09%	-0.09%	-0.04%
194 243469 05BEATTY	138 243540 05MCCOMB 138 1	243469 05BEATTY	243540 05MCCOMB	1 138	205 AFP	216	243 Base Case	0	103	-	47 7	0	-0.08%	-0.08%	-0.02%
195 238614 02CEO-14	138 241926 023STOP014 138 1	238614 02CE0-14	241926 023STOP014	1 138	203 AET	176	229 Base Case	0	-83.9		17 68	0	-0.15%	-0.15%	-0.02%
196 242807 05SPOPN	138 243559 05PTO 7 138 1	242807 05SPOPN	243559 05PTO 7	1 138	205 AFP	185	185 Base Case	0	88 1		47.6	0	0.15%	0.15%	0.06%
197 2422007 055FORM	765 243209 05R0CKPT 765 1	242007 0551000	243309 05R10 2	1 765	205 AEF	2954	2954 Baco Caso	0	_1933 0		47.50	0	_1 70%	-1 70%	-1.25%
198 243006 05E0GTOD	138 247172 05FDEDCO 120 1	243200 0505150	247172 05F0F000	1 120	205 AEF 205 AFP	167	245 Base Case	0	70 5	_	47.59	0	0 110/	0 11%	-0.07%
199 238759 03CM MAD	138 238000 02NEATTO 120 1	238750 00F0510R	238000 00NEATTO	1 100	200 ALF 202 Amor	207	352 Page Case	0	107	-	41.58	0	0.11%	0.11/0	0.00%
200 229620 02GM WAR	130 230355 UZNEALLS 138 I	230/35 U2GM WAR	241925 0201 INDON	ZT 130	202 AISI 202 ATSI	207	200 Page Case	0	-122 6		41.57	0	0.10%	-0.22%	-0.01%
200 230020 02CL QIZ	130 241555 02011NTON 138 2L	242560 05000000	241555 02CLINTON	1 1.20	202 ATS1 205 AFD	200	201 pase CdSe	0	-123.0		41.03	U	0.22%	0.22%	-0.12%
201 242560 05BONSCK	138 242607 05CLOVRD 138 1	242560 05BONSCK	242607 05CLOVRD	1 245 (120	205 AEP	205	284 Base Case	0	-97.4	-	47.53	0	0.07%	0.07%	-0.12%
202 242936 05F0ST0R	120 250172 00WDGDNm 120 1	242936 05F0ST0R	243006 03F0STOR	1 345/138	205 AEP	204	240 Base Case	0	239.3		47.47	0	-0.05%	-0.05%	-0.05%
203 250027 08FLRNC1	138 2501/3 08WDSPNT 138 1	250027 08FLRNC1	250173 08WDSPNT	1 138	212 DE0&R	200	266 Base Case	0	126.2	-	47.44	0	0.04%	0.04%	0.07%
204 248013 06PIERCE	345 249566 08FOSTER 345 1	248013 06PIERCE	249366 08FOSTER	1 345	206/212 OVEC/DEO&K	1097	1204 Base Case	0	518.5	-	47.27	0	0.29%	0.29%	0.03%
205 238634 02COMERC	138 238797 02HGHLND 138 1	238634 02COMERC	238/9/ 02HGHLND	1 138	202 ATS1	127	158 Base Case	0	-60	-	47.26	0	0.11%	0.11%	-0.08%
206 243691 USHAYSBR	138 243698 USMORGER 138 1	243691 USHAYSBR	243698 USMORGFK	1 138	205 AEP	68	68 Base Case	0	-32.1	-	47.14	0	0.00%	0.00%	0.00%
207 249988 08BKJ135	138 249997 08CLRMT2 138 1	249988 08BKJ135	249997 08CLRMT2	1 138	212 DEO&K	318	318 Base Case	0	149.7	-	47.08	0	0.03%	0.03%	0.03%
208 243544 05MILPRD	138 243585 05WAVERL 138 2	243544 05MILPRD	243585 05WAVERL	2 138	205 AEP	223	302 Base Case	0	105	-	47.07	0	0.01%	0.01%	0.07%
209 238636 02CPPW41	138 239296 02CPPRDG 138 1	238636 02CPPW41	239296 02CPPRDG	1 138	202 ATSI	194	237 Base Case	0	-91.2	-	47	0	-0.22%	-0.22%	-0.01%
210 238976 02N MED	345 238977 02N MED 138 1	238976 02N MED	238977 02N MED	1 345/138	202 ATSI	347	415 Base Case	0	162.5	-	46.82	0	-0.18%	-0.18%	-0.05%
211 248002 06DEARB2	345 249564 08BUFTN1 345 1	248002 06DEARB2	249564 08BUFTN1	1 345	206/212 OVEC/DEO&K	971	971 Base Case	0	454.1	-	46.77	0	-0.22%	-0.22%	-0.02%
212 243089 05SBALTM	138 243150 05WMILLP 138 1	243089 05SBALTM	243150 05WMILLP	1 138	205 AEP	167	167 Base Case	0	-78.1	-	46.77	0	-0.03%	-0.03%	-0.02%
213 238574 02BELPT+	138 239134 02TANGY 138 1	238574 02BELPT+	239134 02TANGY	1 138	202 ATSI	160	192 Base Case	0	-74.8	-	46.76	0	0.09%	0.09%	0.01%
214 239197 02BUCKEY	138 239618 02LAUREL 138 1	239197 02BUCKEY	239618 02LAUREL	1 138	202 ATSI	233	282 Base Case	0	108.9	-	46.73	0	-0.13%	-0.13%	-0.01%
215 243534 05LICK	138 244540 05RHODES 138 1	243534 05LICK	244540 05RHODES	1 138	205 AEP	219	231 Base Case	0	102.2	-	46.67	0	-0.04%	-0.04%	0.08%
216 243146 05WHEBRO	138 243150 05WMILLP 138 1	243146 05WHEBRO	243150 05WMILLP	1 138	205 AEP	167	245 Base Case	0	-77.4	-	46.36	0	0.04%	0.04%	0.02%
217 238563 02BAY SH	345 238568 02BAYSHO 138 1	238563 02BAY SH	238568 02BAYSHO	1 345/138	202 ATSI	564	673 Base Case	0	261.4	-	46.35	0	0.02%	0.02%	0.02%
218 243278 05DESOTO	138 243369 05ROYERTON 138 1	243278 05DESOTO	243369 05ROYERTON	1 138	205 AEP	219	223 Base Case	0	101.3	-	46.27	0	0.02%	0.02%	0.02%
219 253068 09SHELBY	138 253071 09SIDNEY 138 1	253068 09SHELBY	253071 09SIDNEY	1 138	209 DAY	221	272 Base Case	0	102.2	-	46.24	0	0.05%	0.05%	0.00%
220 246927 05SAND H	138 247468 05CRICKET SS 138 1	246927 05SAND H	247468 05CRICKET SS	1 138	205 AEP	219	255 Base Case	0	101.2	-	46.22	0	0.00%	0.00%	0.00%
221 247006 05KENZIE	BP 345 270138 AA2-116_TAP1 345 1	247006 05KENZIE_BP	270138 AA2-116_TAP1	1 345	205 AEP	1409	1409 Base Case	0	-650.7		46.18	0	-0.48%	-0.48%	-0.41%
222 243534 05LICK	138 243559 05RIO Z 138 1	243534 05LICK	243559 05RIO Z	1 138	205 AEP	150	212 Base Case	0	-69.2	-	46.17	0	0.06%	0.06%	0.08%
223 243322 05KENZIE	138 243360 05POKAGO 138 1	243322 05KENZIE	243360 05POKAGO	1 138	205 AEP	293	341 Base Case	0	135.2	-	46.13	0	-0.01%	-0.01%	-0.03%
224 242693 05KEYWSS	138 242850 05WOLFH1 138 1	242693 05KEYWSS	242850 05WOLFH1	1 138	205 AEP	167	245 Base Case	0	-77	-	46.11	0	-0.10%	-0.10%	0.00%
225 238678 02EAKRON	138 238787 02HAYES+ 138 1	238678 02EAKRON	238787 02HAYES+	1 138	202 ATSI	233	282 Base Case	0	107.3	-	46.05	0	0.10%	0.10%	0.07%
226 243264 05CONCOR	138 243266 05COUNTR 138 1	243264 05CONCOR	243266 05COUNTR	1 138	205 AEP	167	167 Base Case	0	76.9		46.04	0	-0.09%	-0.09%	-0.06%
227 238850 02JUNIPE	345 238840 02JNPRQ1 138 5	238850 02JUNIPE	238840 02JNPRQ1	5 345/138	202 ATSI	360	414 Base Case	0	165.7	-	46.04	0	-0.02%	-0.02%	0.03%
228 243347 05TIDD 3-	4 138 243779 05WHELGS 138 1	243347 05TIDD 3-4	243779 05WHELGS	1 138	205 AEP	187	205 Base Case	0	86.1	-	46.03	0	0.00%	0.00%	0.00%
229 243063 05N.NEWAR	K1 138 243079 05REFORM 138 1	243063 05N.NEWARK1	243079 05REFORM	1 138	205 AEP	202	202 Base Case	0	-92.9		45.97	0	0.09%	0.09%	-0.03%
230 238796 02HGHLND	345 923061 AB1-105 TAP 345 1	238796 02HGHLND	923061 AB1-105 TAP	1 345	202 ATSI	1413	1743 Base Case	0	648.5	-	45.9	0	0.78%	0.78%	-0.10%
231 243220 05E.ELKHA	RT 345 247006 05KENZIE_BP 345 1	243220 05E.ELKHART	247006 05KENZIE_BP	1 345	205 AEP	1409	1409 Base Case	0	-646.4	-	45.88	0	-0.48%	-0.48%	-0.41%
232 238781 02HANNA	345 923061 AB1-105 TAP 345 1	238781 02HANNA	923061 AB1-105 TAP	1 345	202 ATSI	1413	1743 Base Case	0	-647.9	-	45.85	0	0.78%	0.78%	-0.10%
233 243055 05NEGLEY	138 243078 05REEDUR 138 1	243055 05NEGLEY	243078 05REEDUR	1 138	205 AEP	251	335 Base Case	0	115.1		45.85	0	-0.08%	-0.08%	0.05%
234 238642 02CRSLND	138 238944 02MASURY 138 1	238642 02CRSLND	238944 02MASURY	1 138	202 ATSI	200	242 Base Case	0	91.6		45.78	0	0.14%	0.14%	-0.04%
235 242523 05BAKER	345 247229 05RIVRSD GEN 345 1	242523 05BAKER	247229 05RIVRSD GEN	1 345	205 AEP	896	896 Base Case	0	-410.2	-	45.78	0	-0.26%	-0.26%	-0.26%
236 238741 02FWLSQ3	138 240365 02LRN Q3 138 1	238741 02FWLSQ3	240365 02LRN Q3	1 138	202 ATSI	176	229 Base Case	0	-80.4	-	45.7	0	-0.26%	-0.26%	-0.03%
237 242648 05GARDEC	138 242801 05SKEGGS BRZ 138 1	242648 05GARDEC	242801 05SKEGGS BRZ	1 138	205 AEP	223	310 Base Case	0	-101.9		45.68	0	-0.12%	-0.12%	-0.02%
238 253024 09ESIDNY	138 253065 09QUINCY 138 1	253024 09ESIDNY	253065 09QUINCY	1 138	209 DAY	163	229 Base Case	0	74.4	-	45.62	0	-0.09%	-0.09%	-0.04%
239 238850 02JUNIPE	345 238842 02JNPRQ3 138 3	238850 02JUNIPE	238842 02JNPRQ3	3 345/138	202 ATSI	374	471 Base Case	0	170.5	-	45.58	0	0.00%	0.00%	0.04%
240 243006 05FOSTOR	138 247172 05EBERSO 138 2	243006 05FOSTOR	247172 05EBERSO	2 138	205 AEP	150	204 Base Case	0	68.3	-	45.57	0	0.09%	0.09%	-0.06%

	А		B C	D	E	F	G	н і	J	К	L	М	N	0	Р	Q	R	S	T U
241 243385 05TWIN B	138 243517 05CAP AV	138 1	243385 05TWIN B	243517	05CAP AV		1 138	205 AEP	205	284	Base Case	0	93	-	45.38	0	-0.04%	-0.04%	-0.02%
242 238832 02JACKMA	138 239219 02SMUCKER 1	138 1	238832 02JACKMA	239219	02SMUCKER 1		1 138	202 ATSI	241	292	Base Case	0	-109	-	45.23	0	0.05%	0.05%	-0.03%
243 243547 05MORSE	138 243591 05SPRNGR	138 1	243547 05MORSE	243591	05SPRNGR	3	1 138	205 AEP	195	223	Base Case	0	-88.1	-	45.18	0	0.04%	0.04%	0.01%
244 238750 02GDYR +	138 238787 02HAYES+	138 ZL	238750 02GDYR +	238787	02HAYES+	ZL	138	202 ATSI	233	282	Base Case	0	-105.1	-	45.1	0	0.10%	0.10%	0.07%
245 242943 05SCANTO	345 243092 05SCANTO	138 4	242943 05SCANTO	243092	05SCANTO		4 345/138	205 AEP	695	695	Base Case	0	313.4	-	45.09	0	0.31%	0.31%	0.03%
246 253026 09GBEENE	138 253040 09KNOLLW	138 1	253026 09GBEENE	253040	09KNOLTW		1 138	209 DAY	306	380	Base Case	0	137.6	-	44 97	0	0.07%	0.07%	0.07%
247 239092 02SAMMIS	345 253902 15BVBVAL	345 1	239092 02SAMMIS	253902	15BVBVAL		1 345	202/215 ATST/DLCO	1413	1743	Base Case	0	635 4	_	44 97	0	0.71%	0.71%	0.77%
248 243473 05BTYBY	138 243480 05BUCKEY	138 1	243473 05BTYBY	243480	05BUCKEY		1 138	205 AFP	184	184	Base Case	0	82 7	-	44 95	0	0.04%	0.04%	0.02%
249 253027 09CPEENE	345 253026 00CDEENE	130 2	253027 09CPFFNF	253026	OGCOFFNE		2 2/5/120	200 DAY	104	103	Base Case	0	201 2		44.95	0	0.04%	0.07%	0.05%
250 246027 OFCAND H	129 246029 0EWADWON H1	120 1	246027 05GREENE	233020	OFWARTON UI		1 120	205 DAT	210	995	Base Case	0	201.2		44.51	0	0.02%	0.02%	0.00%
250 240327 033AND H	130 240320 USWARTON HI	130 1	240927 055AND n	240920	OSWARION HI		1 130	205 AEF	107	205	Base Case	0	90.3		44.5	0	0.00%	0.00%	0.00%
251 243347 05TIDD 3-4	138 243779 USWHELGS	138 2	243347 05TIDD 3-4	243779	OSWHELGS		2 138	205 AEP	187	205	Base Case	0	83.9	-	44.88	0	0.00%	0.00%	0.00%
252 249991 08BUFTN1	138 249564 08BUFTNI	345 46	249991 08B0FTN1	249564	08B0F.LNT	4	6 138/345	212 DEO&K	545	559	Base Case	0	-244	-	44.78	0	0.05%	0.05%	0.02%
253 243092 05SCANTO	138 243134 05W.CANTON1	138 1	243092 05SCANTO	243134	05W.CANTON1		1 138	205 AEP	219	255	Base Case	0	97.9	-	44.71	0	-0.07%	-0.07%	0.05%
254 242728 05MULLNV	138 242754 05PINNAC	138 1	242728 05MULLNV	242754	05PINNAC		1 138	205 AEP	205	255	Base Case	0	91.6		44.7	0	-0.08%	-0.08%	-0.01%
255 242522 05AMOS	345 242525 05KANAWH	345 1	242522 05AMOS	242525	05KANAWH		1 345	205 AEP	897	897	Base Case	0	400.7	-	44.67	0	-0.51%	-0.51%	-1.09%
256 242691 05KENOVA	138 243088 05S.POINT1	138 1	242691 05KENOVA	243088	05S.POINT1		1 138	205 AEP	302	366	Base Case	0	134.9	-	44.66	0	0.00%	0.00%	0.19%
257 244672 05ROB PK_XFL	138 245476 05ROB PK34	138 Z1	244672 05ROB PK_XFL	245476	05ROB PK34	Z1	138	205 AEP	766	898	Base Case	0	340.9	-	44.51	0	-0.07%	-0.07%	0.00%
258 238580 02BRADY	138 238782 02HANNA	138 1	238580 02BRADY	238782	02HANNA	1	1 138	202 ATSI	200	242	Base Case	0	-89	-	44.49	0	0.03%	0.03%	0.02%
259 238834 02JGSQ11	138 239226 02STYDCOQ11	138 ZL	238834 02JGSQ11	239226	02STYDCOQ11	ZL	138	202 ATSI	265	349	Base Case	0	-117.6	-	44.39	0	0.01%	0.01%	0.02%
260 243501 05E.BEAV	138 243534 05LICK	138 1	243501 05E.BEAV	243534	05LICK		1 138	205 AEP	219	255	Base Case	0	97.2	-	44.39	0	-0.09%	-0.09%	0.02%
261 238535 02APQ-2	138 238834 02JGSQ11	138 1	238535 02APQ-2	238834	02JGSQ11		1 138	202 ATSI	265	287	Base Case	0	-117.6	-	44.38	0	0.01%	0.01%	0.02%
262 243377 05SORENS	138 247132 05ELLISN	138 1	243377 05SORENS	247132	05ELLISN		1 138	205 AEP	293	341	Base Case	0	129.9	-	44.33	0	-0.04%	-0.04%	0.02%
263 238568 02BAYSHO	138 239310 02BPHUSKY	138 2	238568 02BAYSHO	239310	02BPHUSKY		2 138	202 ATSI	241	292	Base Case	0	106.7	-	44.26	0	0.02%	0.02%	-0.02%
264 243516 05GREIF	138 243525 05HUNTLEY1	138 1	243516 05GREIF	243525	05HUNTLEY1	1	1 138	205 AEP	196	247	Base Case	0	86.8	-	44.26	0	0.01%	0.01%	-0.01%
265 243453 05BEATTY	345 243469 05BEATTY	138 4	243453 05BEATTY	243469	05BEATTY		4 345/138	205 AEP	675	675	Base Case	0	298	-	44.14	0	-0.13%	-0.13%	-0.06%
266 242567 05BROADX	138 242803 05SMYTH	138 1	242567 05BROADX	242803	05smyth		1 138	205 AEP	251	334	Base Case	0	110.4	-	43.97	0	-0.19%	-0.19%	-0.33%
267 243526 05HYATT	138 243537 05MALIS	138 2	243526 05HYATT	243537	05MALTS		2 1.38	205 AEP	338	407	Base Case	0	-148.5	-	43.94	0	0.13%	0.13%	0.07%
268 246928 05WARTON H1	138 247251 05CALISS	138 1	246928 05WARTON H1	247251	05CALTSS		1 138	205 AEP	173	173	Base Case	0	76	-	43 94	0	0.00%	0.00%	0.00%
269 243266 05COUNTR	138 247433 05CHARGER	138 1	243266 05COUNTR	247433	05CHARGER		1 138	205 AFR	167	167	Base Case	0	73 4	-	13.91	0	-0.09%	-0.09%	-0.06%
270 243526 05000NIK	130 247435 0500ARKGER	130 1	243526 05000011	247455	05MALTS		1 130	205 AEL 205 AED	223	210	Base Case	0	-97.9	-	13.02	0	0.09%	0.09%	0.05%
271 242052 05NECANT	130 243337 05MALIS	120 1	243520 05HTATT	243337	OFMACENUAL CO		1 120	205 AEF	225	255	Base Case	0	_97.9		43.5	0	0.03%	0.03%	0.03%
271 243052 USNECANT	130 243135 USWAGENHALS2	130 1	243032 USNECANI	243133	O SWAGENHALSZ		1 130	205 AEF	203	200	Base Case	0	-09.0		43.02	0	0.03%	0.03%	0.01%
272 242580 USCARBND	138 242689 USKANAWHAI	138 1	242580 USCARBND	242689	05KANAWHA1		1 138	205 AEP	251	335	Base Case	0	-109.9	-	43.77	0	-0.31%	-0.31%	0.02%
273 249567 08M.FORT	345 253090 09WMILTN	345 1	249567 08M.FORT	253090	09WMILTN		1 345	212/209 DEO&K/DAY	1195	1195	Base Case	0	522.1	-	43.69	0	-0.47%	-0.47%	-0.04%
274 242663 USHANCKI	138 242708 05M FUNK	138 1	242663 USHANCKI	242708	USM FUNK		1 138	205 AEP	205	284	Base Case	0	-89.5	-	43.68	0	-0.05%	-0.05%	-0.28%
275 238950 02MBQ-13	138 241924 02ELQ4	138 1	238950 02MBQ-13	241924	02ELQ4		1 138	202 ATS1	278	287	Base Case	0	-120.8	-	43.46	0	0.01%	0.01%	0.00%
276 243233 05TANNER	345 249567 08M.FORT	345 1	243233 05TANNER	249567	08M.FORT		1 345	205/212 AEP/DEO&K	2151	2151	Base Case	0	934.7	-	43.46	0	-0.53%	-0.53%	-0.14%
277 242938 05MARQUI	345 243034 05MARQUI	138 3	242938 05MARQUI	243034	05MARQUI		3 345/138	205 AEP	463	463	Base Case	0	200.8	-	43.37	0	-0.03%	-0.03%	0.04%
278 239341 02LEGEND	138 245697 05TORREY2	138 1	239341 02LEGEND	245697	05TORREY2	1	1 138	202/205 ATSI/AEP	187	240	Base Case	0	-81.1	-	43.36	0	0.25%	0.25%	0.04%
279 243264 05CONCOR	138 243385 05TWIN B	138 1	243264 05CONCOR	243385	05TWIN B		1 138	205 AEP	187	231	Base Case	0	-81.1	-	43.35	0	-0.06%	-0.06%	-0.04%
280 253027 09GREENE	345 253026 09GREENE	138 1	253027 09GREENE	253026	09GREENE		1 345/138	209 DAY	448	493	Base Case	0	193.9	-	43.27	0	0.02%	0.02%	0.05%
281 242534 05ALLOY	138 242689 05KANAWHA1	138 1	242534 05ALLOY	242689	05KANAWHA1		1 138	205 AEP	223	223	Base Case	0	-96.5	-	43.27	0	0.00%	0.00%	0.00%
282 238615 02CHAMBR	345 238781 02HANNA	345 1	238615 02CHAMBR	238781	02HANNA	1	1 345	202 ATSI	1380	1646	Base Case	0	-596.3	~	43.21	0	0.28%	0.28%	0.31%
283 243553 05POLARS	138 243590 05WESTAR	138 1	243553 05POLARS	243590	05WESTAR		1 138	205 AEP	223	310	Base Case	0	96.2	-	43.16	0	0.01%	0.01%	0.00%
284 243469 05BEATTY	138 247896 05BOLTON	138 1	243469 05BEATTY	247896	05BOLTON		1 138	205 AEP	223	223	Base Case	0	96	-	43.05	0	-0.07%	-0.07%	0.00%
285 238568 02BAYSHO	138 239310 02BPHUSKY	138 1	238568 02BAYSHO	239310	02BPHUSKY		1 138	202 ATSI	241	292	Base Case	0	103.7	-	43.04	0	0.02%	0.02%	-0.02%
286 243516 05GREIF	138 243526 05HYATT	138 1	243516 05GREIF	243526	05HYATT		1 138	205 AEP	223	223	Base Case	0	-96	-	43.04	0	0.01%	0.01%	-0.01%
287 238597 02CADQ17	138 238662 02DKQ-17	138 1	238597 02CADQ17	238662	02DKQ-17		1 138	202 ATSI	148	151	Base Case	0	-63.7	-	43.03	0	-0.02%	-0.02%	0.00%
288 246481 05NMUSKG BP	138 247374 05MUSKNG2B	138 1	246481 05NMUSKG BP	247374	05MUSKNG2B		1 138	205 AEP	223	310	Base Case	0	-96	-	43.03	0	-0.15%	-0.15%	0.10%
289 238643 02CW 0-1	138 240359 02BENTLEY01	138 1	238643 02CW 0-1	240359	02BENTLEY01		1 138	202 ATSI	273	332	Base Case	0	-117.4	-	43.01	0	-0.25%	-0.25%	-0.03%
290 242943 05SCANTO	345 243092 05SCANTO	138 1	242943 05SCANTO	243092	05SCANTO		1 345/138	205 AEP	680	747	Base Case	0	292.4	-	42.99	0	0.28%	0.28%	0.02%
291 238916 02LRN 04	138 238919 02SLTRO4	138 1	238916 02LRN 04	238919	02SLTR04		1 138	202 ATST	176	229	Base Case	0	75.6	_	42.96	0	-0.25%	-0.25%	-0.03%
292 253047 09MTAMT	345 253046 09MTAMT	138 1	253047 09MTAMT	253046	09MTAMT		1 345/138	209 DAY	450	495	Base Case	0	193.3	_	42.96	0	0.02%	0.02%	0.01%
293 243453 OSBEATEV	345 243469 05BEATTY	138 3	243453 05853077	243460	05BEATTV		3 345/138	205 AFP	605	405 605	Base Case	0	208 5		42.00	0	-0 12%	-0 13%	-0.06%
294 242695 05KTNCAT	138 247064 05¥2M2MUA2	138 1	242695 05KTNCAT	243409	OSKANAMUA 2		1 120	205 AEP	205	255	Base Case	0	_97 0		12.33	0	-0.10%	-0.10%	-0.22%
295 242055 USKINCAL	130 247156 050000000000000000000000000000000000	130 I	242055 USAINCAL	24/004	0.5 CTE AM		1 1 20	200 AEP	203	200	Page Case	0	-01.0		42.02	0	-0.10%	-0.10%	0.05%
295 243091 035.CALDWELL	100 24/100 USSTEAMT	100 1	243031 035.CALDWELL	24/100	00001EAMT		1 1 20	200 AEP	205	284	Dase Case	0	01.1		42.8	0	-0.1/%	-0.11%	0.00%
290 230133 USWLDEK2	130 230133 USKIUTB2	130 1	230133 08WLDEKZ	230133	UGRIUIBZ		1 138	212 DEO&K	264	264	Dase Case	0	-113		42.8	0	-0.01%	-0.01%	0.00%
237 238833 UZJACKSN	130 239281 UZCRNBRY	138 1	238833 U2JACKSN	239281	02CKNBRY		1 138	202 ATS1	278	339	base Case	0	-118.9	-	42.78	0	0.04%	0.04%	0.12%
290 239237 U2CLVR-S	138 243000 05EWOOST	138 1	239237 U2CLVR-S	243000	USEWOOST		138	ZUZ/ZUS ATSI/AEP	161	194	Base Case	0	68.7		42.69	0	0.11%	0.11%	-0.03%
299 243474 05BLACKL	138 243510 05GAHANN	138 1	243474 05BLACKL	243510	05GAHANN	-	138	205 AEP	150	212	Base Case	0	-64	-	42.66	0	0.02%	0.02%	0.00%
300 253068 09SHELBY	138 253150 09HNDAAT	138 1	253068 09SHELBY	253150	09HNDAAT		1 138	209 DAY	221	272	Base Case	0	94.1	-	42.59	0	0.03%	0.03%	0.02%

A	B C	D E	F G	H I	J	K L M	N O	Р	Q R	S	T U
301 238936 02MACLEA 138 239029 02OREGON 138 1	238936 02MACLEA	239029 020REGON	1 138	202 ATSI	287	342 Base Case (-122.2 -	42.57	0 0.00%	6 0.00%	-0.03%
302 243349 05NEW CARLI2 138 247489 05BOSSERMAN 138 2	243349 05NEW CARLI2	247489 05BOSSERMAN	2 138	205 AEP	136	167 Base Case (57.9 -	42.54	0 0.129	6 0.12%	0.08%
303 238796 02HGHLND 345 240069 02LORDSTOWN 345 1	238796 02HGHLND	240069 02LORDSTOWN	1 345	202 ATSI	1413	1743 Base Case (-600.8 -	42.52	0 -0.029	-0.02%	-0.06%
304 238549 02AVERY 138 239290 02HAYES 138 1	238549 02AVERY	239290 02HAYES	1 138	202 ATSI	233	282 Base Case () -99 -	42.49	0 -0.249	-0.24%	-0.04%
305 243049 05NATRIUM12 138 247058 05DOMIN 138 1	243049 05NATRIUM12	247058 05DOMIN	1 138	205 AEP	257	349 Base Case () 109.1 -	42.44	0 0.00%	6 0.00%	0.00%
306 243250 05BENTON 138 245846 05RIVERSIDE2 138 1	243250 05BENTON	245846 05RIVERSIDE2	1 138	205 AEP	167	240 Base Case (70.8 -	42.41	0 0.039	6 0.03%	0.00%
307 242836 05TURNE1 138 247091 05LAKEVI 138 1	242836 05TURNE1	247091 05LAKEVI	1 138	205 AEP	296	296 Base Case (-125.3 -	42.32	0 -0.109	-0.10%	-0.13%
308 242537 05AMOS 138 247091 05LAKEVI 138 1	242537 05AMOS	247091 05LAKEVI	1 138	205 AEP	296	296 Base Case (125.3 -	42.32	0 -0.109	-0.10%	-0.13%
309 249566 08FOSTER 345 253079 09SUGRCK 345 1	249566 08FOSTER	253079 09SUGRCK	1 345	212/209 DEO&K/DAY	1263	1455 Base Case (532.2 -	42.13	0 -0.539	-0.53%	0.00%
310 243315 05TLLINO 138 243377 05SORENS 138 1	243315 05TLLINO	243377 05SOBENS	1 1.38	205 AEP	335	392 Base Case () -141 -	42.08	0 -0.029	-0.02%	0.04%
311 243091 05S.CALDWELL 138 247372 05MUSKNG1C 138 2	243091 055.CALDWELL	247372 05MUSKNG1C	2 138	205 AEP	205	284 Base Case	-86.2 -	42.05	0 -0.289	-0.28%	-0.01%
312 242841 05W GLOW 138 242853 05WURNO 138 1	242841 05W GLOW	242853 05WUBNO	1 138	205 AEP	219	255 Base Case	92.1 -	42.03	0 -0.119	-0.11%	-0.16%
313 242708 05M FUNK 138 242756 05POAGES 138 1	242708 05M FUNK	242756 05POAGES	1 138	205 AEP	167	240 Base Case	70 1 -	41.96	0 -0.039	-0.03%	-0.18%
314 253042 09LOGAN 138 253065 090UINCY 138 1	253042 09LOGAN	253065 090UINCY	1 138	209 DAY	160	224 Base Case (-67.1 -	41 96	0 -0.09%	-0.09%	-0.04%
315 243089 05SBALTM 138 243149 05W LANCAST1 138 1	243089 05SBALTM	243149 05W LANCAST1	1 138	205 AEP	167	167 Base Case (70 -	41.93	0 -0.03%	-0.03%	-0.02%
316 243217 05DEOUTN 345 243221 05EUCENE 345 1	243217 05DEOUIN	243221 05EUGENE	1 345	205 AEP	1409	1959 Base Case	-590 6 -	41 92	0 0.089	6 0.08%	0.53%
317 253077 0957112PT 345 250167 080F0 STHEPT 138 1	253077 09STUART	250167 08DE0 STUART	1 345/138	209/212 DAY/DEOLK	250	275 Base Case	104.8 -	41 92	0 0.00%	6 0.00%	0.01%
318 246752 05VASSEL 345 247728 05VASSEL XEL 345 71	246752 05VASSEL	247728 05VASSEL XEL	71 345	205 AFP	2855	2897 Base Case (-1196.4 -	41.92	0 0.939	6 0.00%	0.38%
319 238570 02BEAVER 138 230318 02UENDWA 120 1	238570 02000100	239318 02UENDEA	1 120	202 202	161	194 Base Case	67.4 -	A1 90	0 0.537	0.02%	-0.09%
320 250057 02057 138 250060 08MDWay1 120 1	250057 08M FOR	250060 08MDWAV1	1 120	212 DEOSK	275	275 Base Case	1151 -	41.00	0 0.067	-0.02%	0.05%
321 243511 05GAV 138 243594 05WINE 130 1	243511 05CAV	243584 0517NE	1 100	212 DEDAN	17/	233 Base Case	72.8 -	41.00	0 -0.037	-0.03%	0.00%
327 243511 030A1 130 243504 05VINE 138 1 329 242690 05VINE 138 1	243511 03GAI	243304 UJVINE	1 1.20	205 AEP 205 AEP	205	294 Paso Caso (95.7	41.03	0 -0.047	-0.04%	_0.23%
222 242009 USRANAWHAI 150 247555 USPAR BRANCH 150 1	242009 05KANAWHAT	247333 05PAX BRANCH	1 130	205 AEP	205	204 Base Case (1120.2	41.0	0 -0.037	1 4 29/	-0.25%
224 242930 USSCANTO 765 247463 USSCANTO AFL 345 3	242930 055CANTO	247463 055CANTO_XFL	3 /05/345	205 AEP	2703	105 Base Case	77.0	41.76	0 -1.427	0 -1.45%	0.02%
324 242698 USLAKIN 138 242807 USSPORN 138 1	242698 USLAKIN	242807 055PORN	1 138	205 AEP	185	185 Base Case	-77.2 -	41.75	0 0.079	0.07%	-0.02%
325 238/6/ 02GRFD T 138 238/68 02GRNFLD 138 2L	238767 02GRFD T	238768 02GRNFLD	ZL 138	202 ATS1	00	66 Base Case	-27.6 -	41.74	0 0.007	0.00%	0.00%
320 2495/3 085GROVE 345 2495// 082IMER 345 1	249573 085GROVE	249577 0821MER	1 345	212 DE0&R	1004	1664 Base Case	-694.2 -	41.72	0 -0.127	0.12%	-0.05%
327 243091 05S.CALDWELL 138 247371 05M0SKNGIB 138 1	243091 USS.CALDWELL	24/3/1 USMUSKNGIB	1 138	205 AEP	205	284 Base Case	-85.5 -	41.72	0 -0.28%	0.00%	-0.01%
320 238783 02HARDIN 345 238792 02HDGQ11 138 1	238783 02HARDIN	238792 02HDGQ11	1 345/138	202 ATS1	347	454 Base Case	104.7 -	41.7	0 0.06%	0.06%	0.00%
529 249991 08B0FTN1 138 250148 08EKPWEB 138 1 220 220146 0200106 0200106 020026 020026 1	249991 08B0FTN1	250148 USEKPWEB	1 138	ZIZ DEO&K	298	298 Base Case	124.2 -	41.69	0 0.037	0.03%	0.00%
330 239106 02SHNAGO 345 239936 02MCCLELLAND 345 1	239106 02SHNAGO	239936 UZMCCLELLAND	1 345	202 ATS1	1380	1646 Base Case	-575 -	41.66	0 0.089	0.08%	-0.23%
331 242935 USE LIMA 345 242989 USE LIMA 138 1	242935 USE LIMA	242989 USE LIMA	1 345/138	205 AEP	513	576 Base Case	213.7 -	41.66	0 0.02%	0.02%	0.05%
332 243227 USLAWBG2 345 243233 USTANNER 345 2	243227 05LAWBG2	243233 05TANNER	2 345	205 AEP	1188	1409 Base Case	494.6 -	41.63	0 -0.31%	-0.31%	-0.31%
333 238588 02BRNSWK 138 239618 02LAUREL 138 1	238588 02BRNSWK	239618 UZLAUREL	1 138	202 ATS1	233	282 Base Case	-96.9 -	41.6	0 -0.13%	0.05%	-0.01%
334 243675 USBELLET 138 243968 USIRONWOODSS 138 1	243675 USBELLF1	243968 USIRONWOODSS	1 138	205 AEP	136	167 Base Case	56.5 -	41.54	0 0.05%	0.05%	0.12%
335 253046 09MIAMI 138 253056 09NORTHR 138 1	253046 09MIAMI	253056 09NORTHR	1 138	209 DAY	191	234 Base Case (/9.3 -	41.54	0.00%	0.00%	-0.01%
336 243491 05CORRID 138 243547 05MORSE 138 1	243491 05CORRID	24354 / 05MORSE	1 138	205 AEP	293	338 Base Case) 121.7 -	41.52	0 0.06%	0.06%	0.01%
337 238745 02GALION 345 238746 02GALION 138 4	238745 02GALION	238746 02GALION	4 345/138	202 ATSI	400	478 Base Case (165.9 -	41.48	0 -0.229	-0.22%	-0.05%
338 247489 05BOSSERMAN 138 255184 17TRAIL CRK 138 1	247489 U5BOSSERMAN	255184 17TRAIL_CRK	1 138	205/217 AEP/NIPS	156	156 Base Case () 64.5 -	41.36	0 0.179	0.17%	0.11%
339 243070 050HIOCT 138 243145 05WCOSHC 138 1	243070 050HIOCT	243145 05WCOSHC	1 138	205 AEP	185	254 Base Case (76.4 -	41.32	0 -0.269	6 -0.26%	0.03%
340 253014 09CLINTO 345 253310 AC1-085 POI 345 1	253014 09CLINTO	253310 AC1-085 POI	1 345	209 DAY	1255	1374 Base Case () -518.5 -	41.31	0 -0.159	-0.15%	0.17%
341 238944 02MASURY 138 239107 02SHNAGO 138 1	238944 02MASURY	239107 02SHNAGO	1 138	202 ATSI	157	196 Base Case (-64.8 -	41.3	0 0.049	6 0.04%	-0.02%
342 243513 05GENOA 138 243537 05MALIS 138 2	243513 U5GENOA	243537 U5MALIS	2 138	205 AEP	338	407 Base Case (-139.5 -	41.26	0 0.019	0.01%	0.01%
343 235428 01WINDSR 138 243131 05TILTON 138 1	235428 01WINDSR	243131 05TILTON	1 138	201/205 AP/AEP	329	361 Base Case (-135.7 -	41.25	0 -0.759	-0.75%	0.00%
544 244/45 05BABBIT1-2 138 246385 05JUGST 7-11 138 1	244745 05BABBIT1-2	246385 05JUGST 7-11	1 138	205 AEP	564	747 Base Case (-232.5 -	41.23	0 0.009	0.00%	0.00%
345 243526 05HYATT 138 243566 05SAWMIL 138 1	243526 05HYATT	243566 05SAWMIL	1 138	205 AEP	340	434 Base Case (140.1 -	41.21	0 0.039	6 0.03%	0.00%
346 249999 08CNSTNC 138 250007 08CRSNT1 138 1	249999 08CNSTNC	250007 08CRSNT1	1 138	212 DEO&K	238	238 Base Case (97.9 -	41.15	0 -0.059	-0.05%	-0.01%
347 242984 05CHATFL 138 243039 05MELMOR 138 1	242984 05CHATFL	243039 05MELMOR	1 138	205 AEP	167	167 Base Case (-68.7 -	41.13	0 -0.129	6 -0.12%	-0.10%
348 242745 05PEAKCK 138 242841 05W GLOW 138 1	242745 05PEAKCK	242841 05W GLOW	1 138	205 AEP	251	309 Base Case (103.2 -	41.1	0 -0.119	6 -0.11%	-0.16%
349 238652 02DARROW 138 239136 02TEREX 138 1	238652 02DARROW	239136 02TEREX	1 138	202 ATSI	50	50 Base Case (20.5 -	41.03	0 0.00%	6 0.00%	0.00%
350 243262 05COLLEGE C 138 250001 08COLINV 138 1	243262 05COLLEGE C	250001 08COLINV	1 138	205/212 AEP/DEO&K	167	167 Base Case (68.4 -	40.98	0 -0.069	-0.06%	-0.06%
351 243619 05ROSEWOODSS 138 244198 05LEMASTER 138 1	243619 05ROSEWOODSS	244198 05LEMASTER	1 138	205 AEP	338	483 Base Case (138.4 -	40.96	0 0.019	6 0.01%	0.19%
352 250044 08HEBRN2 138 250152 08HEBRNG 138 Z1	250044 08HEBRN2	250152 08HEBRNG	Z1 138	212 DEO&K	309	349 Base Case () -126.5 -	40.94	0 -0.05%	-0.05%	-0.01%
353 242522 05AMOS 345 242537 05AMOS 138 7	242522 05AMOS	242537 05AMOS	7 345/138	205 AEP	680	696 Base Case (278.2 -	40.91	0 -0.109	-0.10%	-0.18%
354 238782 02HANNA 138 239615 020LDFRG 138 1	238782 02HANNA	239615 020LDFRG	1 138	202 ATSI	233	282 Base Case (95.3 -	40.91	0 0.069	6 0.06%	-0.02%
355 253026 09GREENE 138 935040 AD1-140 TAP 138 1	253026 09GREENE	935040 AD1-140 TAP	1 138	209/202 DAY/ATSI	233	282 Base Case (95.1 -	40.84	0 -0.179	-0.17%	-0.04%
356 238623 02CLARK 138 935040 AD1-140 TAP 138 1	238623 02CLARK	935040 AD1-140 TAP	1 138	202 ATSI	233	282 Base Case (-95.1 -	40.84	0 -0.179	-0.17%	-0.04%
357 242788 05SALTV1 138 242827 05TAZEWE 138 1	242788 05SALTV1	242827 05TAZEWE	1 138	205 AEP	296	398 Base Case (120.8 -	40.83	0 -0.169	-0.16%	0.07%
358 243560 05ROBERT 138 246907 05W.CAMPUS 138 1	243560 05ROBERT	246907 05W.CAMPUS	1 138	205 AEP	324	434 Base Case (131.4 -	40.57	0 -0.019	-0.01%	-0.02%
359 242931 05BEVERL 345 242940 05MUSKNG 345 1	242931 05BEVERL	242940 05MUSKNG	1 345	205 AEP	971	971 Base Case (393.8 -	40.56	0 1.269	<u>ا1.26%</u>	-0.79%
360 238796 02HGHLND 345 240069 02LORDSTOWN 345 2	238796 02HGHLND	240069 02LORDSTOWN	2 345	202 ATSI	1413	1743 Base Case (-572.1 -	40.49	0 -0.02%	-0.02%	-0.06%

	А	B C	D	E	F	G	НІ	J	K L	M N	0	P Q	R	S	T U
361 239198 02CONGRS 13	38 239369 02TORONTO 138 1	239198 02CONGRS	239369	02TORONTO	1	138	202 ATSI	185	189 Base Case	0 -74.7	-	40.4 0	0.12%	0.12%	0.01%
362 242525 05KANAWH 34	45 247068 05KANAWH ASZ 138 A	242525 05KANAWH	247068	05KANAWH ASZ	A	345/138	205 AEP	492	556 Base Case	0 198.7	-	40.39 0	-0.11%	-0.11%	-0.05%
363 249569 08MADISN 34	45 249576 08WODSDL 345 1	249569 08MADISN	249576	08WODSDL	1	. 345	208/212 DEI/DEO&K	1139	1195 Base Case	0 459.4	-	40.33 0	-0.29%	-0.29%	-0.29%
364 238707 02EVANS 13	38 238750 02GDYR + 138 1	238707 02EVANS	238750	02GDYR +	1	. 138	202 ATSI	233	282 Base Case	0 -93.8	-	40.28 0	0.10%	0.10%	0.07%
365 242933 05RPMONE 34	45 246929 05MADDOX 345 1	242933 05RPMONE	246929	05MADDOX	1	. 345	205 AEP	897	1301 Base Case	0 361.3	-	40.27 0	-1.18%	-1.18%	-0.47%
366 245983 05GRISTMILL 13	38 245994 05GEMINI 138 1	245983 05GRISTMILL	245994	05GEMINI	1	138	205 AEP	257	360 Base Case	0 103.5	-	40.27 0	0.01%	0.01%	0.04%
367 238781 02HANNA 34	45 238850 02JUNIPE 345 1	238781 02HANNA	238850	02JUNIPE	1	. 345	202 ATSI	1555	1892 Base Case	0 626.1	-	40.26 0	0.50%	0.50%	0.50%
368 242537 05AMOS 13	38 242740 05ORTIN 138 2	242537 05AMOS	242740	05ORTIN	2	138	205 AEP	696	729 Base Case	0 280.2	-	40.26 0	-0.23%	-0.23%	-0.27%
369 243278 05DESOTO 13	38 243337 05MAYFIE 138 1	243278 05DESOTO	243337	05MAYFIE	1	138	205 AEP	205	205 Base Case	0 82.5		40.24 0	0.01%	0.01%	0.00%
370 242566 05BROADF 13	38 242693 05KEYWSS 138 1	242566 05BROADF	242693	05KEYWSS	1	138	205 AEP	167	245 Base Case	0 -67.2	-	40.23 0	-0.10%	-0.10%	0.00%
371 238832 02JACKMA 13	38 239236 02TOLHOS 138 1	238832 02JACKMA	239236	02TOLHOS	1	. 138	202 ATSI	216	264 Base Case	0 86.8	-	40.19 0	0.04%	0.04%	-0.01%
372 243231 05ROB PK 34	45 243232 05SORENS 345 1	243231 05ROB PK	243232	05SORENS	1	. 345	205 AEP	1025	1203 Base Case	0 -411.7	-	40.17 0	0.13%	0.13%	0.45%
373 238504 02GM-PWR-TRN 13	38 239219 02SMUCKER 1 138 1	238504 02GM-PWR-TRN	239219	02SMUCKER 1	1	. 138	202 ATSI	278	343 Base Case	0 111.5	-	40.12 0	0.05%	0.05%	-0.03%
374 242938 05MARQUI 34	45 243034 05MARQUI 138 2	242938 05MARQUI	243034	05MARQUI	2	345/138	205 AEP	501	564 Base Case	0 200.8	-	40.08 0	-0.03%	-0.03%	0.04%
375 243454 05BIXBY 34	45 243473 05BIXBY 138 2	243454 05BIXBY	243473	05BIXBY	2	345/138	205 AEP	720	815 Base Case	0 288.6	-	40.08 0	0.01%	0.01%	0.01%
376 242729 05NAGEL 13	38 242762 05REEDCR 138 1	242729 05NAGEL	242762	05REEDCR	1	. 138	205 AEP	205	205 Base Case	0 82.1	-	40.04 0	-0.01%	-0.01%	-0.04%
377 238706 02EU TAP 13	38 238991 02NCASTL 138 1	238706 02EU TAP	238991	02NCASTL	1	. 138	202 ATSI	329	413 Base Case	0 -131.6	-	40.01 0	0.20%	0.20%	-0.01%
378 243679 05BUSSYV 13	38 243702 05THELMA 138 1	243679 05BUSSYV	243702	05THELMA	1	138	205 AEP	223	310 Base Case	0 89.1	-	39.97 0	0.04%	0.04%	-0.08%
379 242688 05JOSHUA 13	38 247670 05JOSHUA XFL 138 1	242688 05JOSHUA	247670	05JOSHUA XFL	1	. 138	205 AEP	747	747 Base Case	0 -298.4	-	39.95 0	-0.19%	-0.19%	-1.79%
380 243226 05LAWBG1 34	45 243233 05TANNER 345 1	243226 05LAWBG1	243233	05TANNER	1	. 345	205 AEP	1239	1409 Base Case	0 494.6	-	39.92 0	-0.31%	-0.31%	-0.31%
381 242675 05HUFFMN 13	38 242684 05J.FERR 138 1	242675 05HUFFMN	242684	05J.FERR	1	. 138	205 AEP	282	348 Base Case	0 -112.3	-	39.82 0	0.03%	0.03%	0.07%
382 243086 055 HICK 13	38 247108 05SOWERS 138 1	243086 055 HICK	247108	05SOWERS	1	138	205 AEP	223	310 Base Case	0 -88.8	-	39.81 0	-0.22%	-0.22%	0.04%
383 239082 0258-ATT 34	45 238544 02ASH_3 138 8	239082 0258-ATT	238544	02ASH_3	8	345/138	202 ATSI	620	701 Base Case	0 246.8	-	39.81 0	0.65%	0.65%	-0.12%
384 249988 08BKJ135 13	38 250103 08TBSC01 138 1	249988 08BKJ135	250103	08TBSCO1	1	. 138	212 DEO&K	332	332 Base Case	0 132.1	-	39.8 0	0.05%	0.05%	0.06%
385 242940 05MUSKNG 34	45 242949 05WMILLP 345 1	242940 05MUSKNG	242949	05WMILLP	1	. 345	205 AEP	897	897 Base Case	0 355.5		39.63 0	0.62%	0.62%	0.19%
386 242977 05CALDWE 13	38 243091 05s.CALDWELL 138 1	242977 05CALDWE	243091	05S.CALDWELL	1	138	205 AEP	205	284 Base Case	0 -81.2	-	39.61 0	-0.18%	-0.18%	0.06%
387 242748 05PENHOK 13	38 242802 05SMITHMTN 138 1	242748 05PENHOK	242802	05SMITHMTN	1	138	205 AEP	296	392 Base Case	0 -116.8	-	39.47 0	0.00%	0.00%	0.39%
388 242522 05AMOS 34	45 242537 05AMOS 138 8	242522 05AMOS	242537	05AMOS	8	345/138	205 AEP	696	696 Base Case	0 274.3	-	39.41 0	-0.10%	-0.10%	-0.17%
389 242592 05CHEM 1 13	38 242593 05CHEM 2 138 Z1	242592 05CHEM 1	242593	05CHEM 2	Z1	138	205 AEP	498	498 Base Case	0 196.2		39.41 0	-0.24%	-0.24%	-0.24%
390 238575 02BLUBEL 13	38 239306 02REPUBLICSM 138 1	238575 02BLUBEL	239306	02REPUBLICSM	1	138	202 ATSI	117	147 Base Case	0 -46.1	-	39.39 0	0.11%	0.11%	-0.08%
391 253026 09GREENE 13	38 253062 090VERL1 138 1	253026 09GREENE	253062	090VERL1	1	138	209 DAY	306	380 Base Case	0 120.5	-	39.38 0	0.05%	0.05%	0.05%
392 250057 08M.FORT 13	38 250070 08MRGAN1 138 1	250057 08M.FORT	250070	08MRGAN1	1	. 138	212 DEO&K	268	268 Base Case	0 105.3	-	39.28 0	-0.03%	-0.03%	0.01%
393 242925 05KAMMER 76	65 242930 05SCANTO 765 1	242925 05KAMMER	242930	05SCANTO	t	. 765	205 AEP	2890	2890 Base Case	0 1132.8	-	39.2 0	-1.42%	-1.43%	2.25%
394 242621 05DARRH1 13	38 242835 05TRISTA 138 1	242621 05DARRH1	242835	05TRISTA	1	. 138	205 AEP	167	240 Base Case	0 -65.4	-	39.19 0	-0.04%	-0.04%	0.02%
395 243475 05BLENDO 13	38 243491 05CORRID 138 1	243475 05BLENDO	243491	05CORRID	1	. 138	205 AEP	285	338 Base Case	0 -111.5	-	39.14 0	0.05%	0.05%	0.01%
396 242592 05CHEM 1 13	38 242740 050RTIN 138 2	242592 05CHEM 1	242740	05ORTIN	2	138	205 AEP	685	729 Base Case	0 -267.9	-	39.11 0	-0.23%	-0.23%	-0.27%
397 238850 02JUNIPE 34	45 238843 02JNPRQ4 138 6	238850 02JUNIPE	238843	02JNPRQ4	6	345/138	202 ATSI	486	579 Base Case	0 190.1	-	39.11 0	-0.01%	-0.01%	0.03%
398 242807 05SPORN 13	38 243013 05GAVIN1 138 1	242807 05SPORN	243013	05GAVIN1	1	. 138	205 AEP	158	183 Base Case	0 61.8	-	39.11 0	0.06%	0.06%	-0.02%
399 250052 08KYUNIV 13	38 250153 08KYUTB2 138 Z1	250052 08KYUNIV	250153	08KYUTB2	Z1	138	212 DEO&K	309	349 Base Case	0 120.7	-	39.07 0	-0.01%	-0.01%	0.00%
400 242637 05FLATWO 13	38 247558 05JARRETT 138 1	242637 05FLATWO	247558	05JARRETT	1	138	205 AEP	219	255 Base Case	0 85.5	-	39.05 0	-0.29%	-0.29%	0.03%
401 242989 05E LIMA 13	38 243155 05W.NEWTONSS 138 1	242989 05E LIMA	243155	05W.NEWTONSS	1	138	205 AEP	158	183 Base Case	0 61.7	-	39.03 0	-0.10%	-0.10%	-0.03%
402 243498 05DLAWAR2 13	38 246753 05VASSEL 138 1	243498 05DLAWAR2	246753	05VASSEL	1	138	205 AEP	338	456 Base Case	0 -131.9	-	39.01 0	0.07%	0.07%	0.04%
403 238532 02ALLNJB 13	38 239110 02SIL_AV+ 138 1	238532 02ALLNJB	239110	02SIL_AV+	1	138	202 ATSI	278	343 Base Case	0 108.5	-	39.01 0	-0.06%	-0.06%	0.01%
404 238730 02FORTIN 13	38 239315 02STER-P 138 1	238730 02FORTIN	239315	02STER-P	1	138	202 ATSI	241	292 Base Case	0 94	-	38.99 0	0.07%	0.07%	-0.01%
405 242940 05MUSKNG 34	45 242949 05WMILLP 345 2	242940 05MUSKNG	242949	05WMILLP	2	345	205 AEP	915	1132 Base Case	0 356.4		38.95 0	0.62%	0.62%	0.19%
406 243492 05CORWIN 13	38 243545 05MILTON SS 138 1	243492 05CORWIN	243545	05MILTON SS	1	. 138	205 AEP	219	255 Base Case	0 -85.3	-	38.95 0	-0.06%	-0.06%	0.07%
407 238878 02LB Q12 13	38 241923 02ELQ3 138 1	238878 02LB Q12	241923	02ELQ3	1	138	202 ATSI	273	287 Base Case	0 -106.3	-	38.95 0	0.01%	0.01%	0.00%
408 242605 05CLNCHR 13	38 242700 05LEBANO 138 1	242605 05CLNCHR	242700	05LEBANO	1	138	205 AEP	446	446 Base Case	0 173.4	-	38.87 0	-0.34%	-0.34%	-0.33%
409 238908 02LONDON 13	38 926010 AC1-078 TAP 138 1	238908 02LONDON	926010	AC1-078 TAP	1	. 138	202 ATSI	277	277 Base Case	0 -107.6		38.86 0	0.09%	0.09%	0.06%
410 242575 05CAMDLM 13	38 242737 050POSSUMCK 138 1	242575 05CAMDLM	242737	050POSSUMCK	1	. 138	205 AEP	205	284 Base Case	0 79.5	~	38.8 0	-0.06%	-0.06%	0.37%
411 239070 02RICHLD 13	38 239269 02RICHLJ 138 ZB	239070 02RICHLD	239269	02RICHLJ	ZB	138	202 ATSI	329	413 Base Case	0 127.6	-	38.79 0	-0.11%	-0.11%	-0.11%
412 242680 05ITMANN 13	38 242754 05PINNAC 138 1	242680 05ITMANN	242754	05PINNAC	t	138	205 AEP	205	255 Base Case	0 -79.4	-	38.73 0	-0.08%	-0.08%	-0.01%
413 250072 08MTCHL1 13	38 250074 08MTCHL4 138 Z1	250072 08MTCHL1	250074	08MTCHL4	Z1	138	212 DEO&K	267	267 Base Case	0 -103.4		38.71 0	-0.04%	-0.04%	-0.04%
414 238644 02CW Q-3 13	38 240360 02BENTLEYQ3 138 1	238644 02CW Q-3	240360	02BENTLEYQ3	1	. 138	202 ATSI	273	332 Base Case	0 -105.5	-	38.65 0	-0.19%	-0.19%	-0.02%
415 243385 05TWIN B 13	38 247780 05KLINE 138 1	243385 05TWIN B	247780	05KLINE	1	138	205 AEP	329	334 Base Case	0 126.9	-	38.59 0	-0.07%	-0.07%	-0.07%
416 243456 05CORRID 34	45 243491 05CORRID 138 1	243456 05CORRID	243491	05CORRID	1	345/138	205 AEP	680	847 Base Case	0 262.4	-	38.58 0	0.08%	0.08%	0.01%
417 238551 02AVON 34	45 241928 02AVQ2 138 91	238551 02AVON	241928	02AVQ2	91	345/138	202 ATSI	753	849 Base Case	0 290.3	~	38.55 0	-0.48%	-0.48%	-0.07%
418 243231 05ROB PK 34	45 244672 05ROB PK_XFL 138 5	243231 05ROB PK	244672	05ROB PK_XFL	5	345/138	205 AEP	887	982 Base Case	0 341.1	-	38.46 0	-0.07%	-0.07%	0.00%
419 239036 02PERRY 34	45 239334 02L.CENTER 345 1	239036 02PERRY	239334	02L.CENTER	1	. 345	202 ATSI	1396	1667 Base Case	0 536.7	-	38.45 0	0.82%	0.82%	-0.38%
420 239060 02RDGVL 13	38 239070 02RICHLD 138 1	239060 02RDGVL	239070	02RICHLD	1	138	202 ATSI	161	194 Base Case	0 -61.8	-	38.4 0	-0.13%	-0.13%	0.00%

A	B C D	E	F	G	НІ	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
421 243349 05NEW CARLI2 138 244930 05NEW CARLI1 138 Z1	243349 05NEW CARLI2 2449	0 05NEW CARLI1	Z1	138	205 AEP	335	392	Base Case	0	-128.6		38.39	0	-0.05%	-0.05%	-0.01%
422 243012 05G WASHGTON 138 246945 05BIGB1Z 138 1	243012 05G WASHGTON 2469	5 05BIGB1Z		1 1.38	205 AEP	205	205	Base Case	0	78.6	-	38.37	0	-0.18%	-0.18%	0.05%
423 238649 02DALE 138 238968 02MODEE 138 1	238649 02DALE 2389	8 02MOORE		1 138	202 ATST	233	282	Base Case	0	89.4	-	38 37	0	-0.10%	-0.10%	0.10%
424 243461 05PORPT1 345 243560 05PORFT 138 1	243461 05P0BPT1 2435	0 05POBERT	-	1 345/138	205 AFP	671	766	Base Case	0	257 1	_	38 31	0	-0.06%	-0.06%	-0.04%
425 243337 05MAVETE 139 246625 05MEDEORD RD 139 1	243337 05MAVETE 2466	5 05MEDEORD PR		1 139	205 AEP	190	205	Base Case	0	60		20 21	0	0.00%	0.01%	0.00%
425 2245557 05MATTE 156 240025 05MEDFORD BF 156 1	245557 05HATFIE 2400	0 0 0 MEDCO	-	1 120	203 AEF	104	203	Base Case	0	74.2		20.31	0	0.01%	0.09%	0.00%
420 238724 02FMEASI 130 239239 02MEDCO 130 1	230724 02FMEASI 2332	DECRANE		1 130	202 AISI	251	237	Dase Case	0	14.5		30.31	0	-0.08%	-0.08%	0.02%
427 243293 03F1SHER 138 243302 03GRANT 138 1	243293 03FISHER 2433	JZ USGRANT	-	1 130	205 AEP	201	333	Base Case	0	-96	-	30.20	0	-0.07%	-0.07%	-0.05%
420 250065 08MILLIKN 138 250105 08TDHNTR 138 1	250065 08MILIKN 2501	DS USTDHNTR		1 138	212 DEO&K	299	299	Base Case	0	-114.4	-	38.25	0	-0.03%	-0.03%	-0.05%
429 238626 02CLAYBN 138 239083 02SAKRON 138 1	238626 UZCLAYBN 2390	33 UZSAKRON		1 138	202 ATS1	157	196	Base Case	0	-60	-	38.24	0	-0.04%	-0.04%	0.05%
430 242525 05KANAWH 345 247092 05KANAWH BSZ 138 B	242525 05KANAWH 2470	2 USKANAWH_BSZ	В	345/138	205 AEP	539	574	Base Case	0	206	-	38.22	0	-0.11%	-0.11%	-0.05%
431 238751 02SMUCKER 2 138 239315 02STER-P 138 1	238751 02SMUCKER 2 2393	5 02STER-P	_	1 138	202 ATSI	241	292	Base Case	0	-92.1	-	38.22	0	0.07%	0.07%	-0.01%
432 253074 09STATAP 138 253098 09STAUNT 138 1	253074 09STATAP 2530	09STAUNT		1 138	209 DAY	196	198	Base Case	0	74.9	-	38.2	0	0.00%	0.00%	0.00%
433 242940 05MUSKNG 345 247501 05MUSK_E_XFL 138 E	242940 05MUSKNG 2475	01 05MUSK_E_XFL	E	345/138	205 AEP	713	765	Base Case	0	272.3	-	38.19	0	-0.50%	-0.50%	-0.01%
434 238783 02HARDIN 345 238850 02JUNIPE 345 1	238783 02HARDIN 2388	50 02JUNIPE		1 345	202 ATSI	1555	1793	Base Case	0	-593.5		38.17	0	-0.44%	-0.44%	0.19%
435 242940 05MUSKNG 345 247500 05MUSK_D_XFL 138 D	242940 05MUSKNG 2475	0 05MUSK_D_XFL	D	345/138	205 AEP	713	765	Base Case	0	271.9	-	38.14	0	-0.50%	-0.50%	-0.01%
436 238783 02HARDIN 345 238794 02HDGQ13 138 3	238783 02HARDIN 2387	4 02HDGQ13		3 345/138	202 ATSI	397	488	Base Case	0	151.4	-	38.13	0	0.07%	0.07%	0.01%
437 243318 05JACKSON RD 138 243371 05S SIDE 138 1	243318 05JACKSON RD 2433	1 05S SIDE		1 138	205 AEP	251	335	Base Case	0	95.6	-	38.09	0	0.06%	0.06%	0.04%
438 242614 05COLLINV SS 138 242711 05MARTN1 138 1	242614 05COLLINV SS 2427	1 05MARTN1	1	1 138	205 AEP	219	255	Base Case	0	-83.4	-	38.07	0	-0.04%	-0.04%	0.30%
439 240360 02BENTLEYQ3 138 241929 02AVQ3 138 1	240360 02BENTLEYQ3 2419	9 02AVQ3		1 138	202 ATSI	278	339	Base Case	0	-105.7	-	38.01	0	-0.19%	-0.19%	-0.02%
440 250152 08HEBRNG 138 342595 4HEBRON 138 1	250152 08HEBRNG 3425	5 4HEBRON		1 138	212/320 DE0&K/EKPC	96	117	Base Case	0	36.5	-	38	0	-0.01%	-0.01%	-0.02%
441 243218 05DESOTO 345 243278 05DESOTO 138 1	243218 05DESOTO 2432	8 05DESOTO		1 345/138	205 AEP	584	692	Base Case	0	221.8	-	37.98	0	-0.01%	-0.01%	0.00%
442 243789 05FACEBOOK 138 244745 05BABBIT1-2 138 Z3	243789 05FACEBOOK 2447	5 05BABBIT1-2	Z3	138	205 AEP	158	183	Base Case	0	-60	-	37.97	0	0.00%	0.00%	0.00%
443 243789 05FACEBOOK 138 244745 05BABBIT1-2 138 Z2	243789 05FACEBOOK 2447	5 05BABBIT1-2	Z2	138	205 AEP	158	183	Base Case	0	-60	-	37.97	0	0.00%	0.00%	0.00%
444 243789 05FACEBOOK 138 244745 05BABBIT1-2 138 Z1	243789 05FACEBOOK 2447	5 05BABBIT1-2	Z1	138	205 AEP	158	183	Base Case	0	-60	-	37.97	0	0.00%	0.00%	0.00%
445 243145 05WCOSHC 138 247253 05BUCKSS 138 1	243145 05WCOSHC 2472	3 05BUCKSS		1 138	205 AEP	185	257	Base Case	0	70.1	-	37.9	0	-0.26%	-0.26%	0.04%
446 242729 05NAGEL 138 245220 05W.KINGSPT2 138 1	242729 05NAGEL 2452	0 05W.KINGSPT2		1 1.38	205 AEP	205	205	Base Case	0	77.7	-	37.89	0	0.01%	0.01%	0.06%
447 243278 05DESOTO 138 247837 05PERCH 138 1	243278 05DESOTO 2478	T 05PERCH		1 138	205 AEP	409	409	Base Case	0	154.9	_	37.88	0	-0.05%	-0.05%	0.03%
448 243460 0.5808872 345 243560 0.5808877 138 2	243460 0580BBT2 2435	0 05BOBERT		2 345/138	205 AEP	671	766	Base Case	0	254	-	37.85	0	-0.06%	-0.06%	-0.04%
Adg 253007 0.08ELLED 138 253078 0.09ELLED 138 1	253007 09BELLBR 2530	18 09SUGPCK		1 138	209 DAV	301	419	Base Case	0	-113.8	-	37.82	0	-0.07%	-0.07%	0.00%
450 238678 02FAKRON 138 239615 020LDERG 138 1	238678 02E1KPON 2396	5 020LDERC		1 138	202 bmst	221	262	Base Case	0	-83.4	-	37.02	0	0.06%	0.06%	-0.02%
450 233078 02EARKON 136 235015 020EDFRG 136 1	242222 0EMD DIGON1 2474	O OECDORE CT 7		1 120	205 AFD	107	202	Base Case	0	70.6		27.72	0	0.00%	0.00%	0.06%
451 243535 05MADISONI 130 247420 05CK055 51 2 130 1	243335 05MADISONI 2474	E OEDIVEDOIDE1	-	1 130	205 AEF	210	200	Base Case	0	00.0		37.73	0	-0.01%	-0.01%	0.00%
452 243335 05MAIN 5 138 243365 05RIVERSIDEI 138 1	243335 05MAIN 5 2433	O OF ONT THINK THE	-	1 130	205 AEP	219	223	Base Case	0	-02.5	_	37.69	0	0.07%	0.07%	0.02%
455 242775 USROCKCAS SS 138 242802 USSMITHMIN 138 1	242775 USROCKCAS SS 2428	JZ USSMITHMIN		1 138	205 AEP	308	409	Base Case	0	-134.5	-	37.57	0	-0.06%	-0.06%	0.94%
454 242855 05WYOMIN 138 242857 05WYOMX2 138 2B	242855 USWYOMIN 2428	57 USWYOMX2	ZB	138	205 AEP	696	747	Base Case	0	-261.5	-	37.57	0	0.05%	0.05%	0.07%
455 242855 05WYOMIN 138 242856 05WYOMX1 138 ZB	242855 05WYOMIN 2428	06 U5WYOMX1	ZB	138	205 AEP	696	747	Base Case	0	-261.5	-	37.57	0	0.05%	0.05%	0.07%
456 238543 02ASH 2 138 240366 02PETMIN 138 1	238543 02ASH_2 2403	6 02PETMIN		1 138	202 ATSI	200	242	Base Case	0	75.1	-	37.56	0	0.00%	0.00%	0.00%
457 249994 08CHRLES 138 250091 08RCHLE3 138 1	249994 08CHRLES 2500	08RCHLE3		1 138	212 DEO&K	268	282	Base Case	0	-100.4	-	37.48	0	-0.03%	-0.03%	-0.08%
458 242680 05ITMANN 138 242727 05MULLEN 138 1	242680 05ITMANN 2427	27 05MULLEN	-	1 138	205 AEP	205	255	Base Case	0	76.8	-	37.46	0	-0.08%	-0.08%	-0.01%
459 250161 08T758 138 250162 08GARVER 138 1	250161 08T758 2501	2 08GARVER		1 138	212 DEO&K	298	298	Base Case	0	-111.2	-	37.33	0	0.00%	0.00%	0.00%
460 253002 09AIRWAY 138 253026 09GREENE 138 1	253002 09AIRWAY 2530	6 09GREENE	-	1 138	209 DAY	191	234	Base Case	0	-71.2	-	37.3	0	0.02%	0.02%	0.02%
461 235102 01BELMNT 500 242920 05BELMON 765 5	235102 01BELMNT 2429	20 05BELMON		5 500/765	201/205 AP/AEP	1986	2385	Base Case	0	-740.6	-	37.29	0	-5.39%	-5.39%	-1.25%
462 238678 02EAKRON 138 239178 02WRAVNA 138 1	238678 02EAKRON 2391	8 02WRAVNA		1 138	202 ATSI	200	242	Base Case	0	-74.6		37.29	0	0.07%	0.07%	-0.02%
463 249566 08FOSTER 345 253006 09BATH 345 1	249566 08FOSTER 2530	06 09BATH		1 345	212/209 DEO&K/DAY	1263	1455	Base Case	0	470.6	-	37.26	0	-0.50%	-0.50%	0.02%
464 250121 08UNION 138 250161 08T758 138 1	250121 08UNION 2501	51 08T758		1 138	212 DE0&K	298	298	Base Case	0	-111	-	37.25	0	0.00%	0.00%	0.00%
465 249565 08EBEND 345 249575 08TERMNL 345 1	249565 08EBEND 2495	5 08TERMNL		1 345	212 DEO&K	1290	1457	Base Case	0	477.9	-	37.05	0	-0.28%	-0.28%	-0.24%
466 235299 01BELMNT 138 243557 05RENO Z 138 1	235299 01BELMNT 2435	7 05RENO Z		1 138	201/205 AP/AEP	282	282	Base Case	0	104.4	-	37.03	0	0.27%	0.27%	0.20%
467 238642 02CRSLND 138 238669 02DUFERC 138 1	238642 02CRSLND 2386	9 02DUFERC		1 138	202 ATSI	96	96	Base Case	0	35.5	-	37.01	0	0.00%	0.00%	0.00%
468 243214 05COLNGW 345 247105 05VARNER 345 1	243214 05COLNGW 2471	5 05VARNER		1 345	205 AEP	1409	1829	Base Case	0	521.3	-	37	0	-0.13%	-0.13%	0.00%
469 238751 02SMUCKER 2 138 238832 02JACKMA 138 1	238751 02SMUCKER 2 2388	2 02JACKMA		1 138	202 ATSI	241	292	Base Case	0	89.1	-	36.98	0	0.07%	0.07%	-0.01%
470 250048 08KLEMN1 138 250060 08MDWAY1 138 1	250048 08KLEMN1 2500	08MDWAY1		1 138	212 DEO&K	275	275	Base Case	0	-101.7	-	36.98	0	-0.03%	-0.03%	0.01%
471 243456 05CORRID 345 243491 05CORRID 138 2	243456 05CORRID 2434	1 05CORRID		2 345/138	205 AEP	696	747	Base Case	0	257.3	-	36.97	0	0.08%	0.08%	0.01%
472 243018 05HEATH 138 243150 05WMILLP 138 1	243018 05HEATH 2431	0 05WMILLP		1 138	205 AEP	205	205	Base Case	0	-75.7	-	36.94	0	-0.05%	-0.05%	0.06%
473 242560 05BONSCK 138 242840 05VINTON 138 1	242560 05BONSCK 2428	0 05VINTON		1 138	205 AEP	205	252	Base Case	0	75.7	-	36.92	0	0.07%	0.07%	-0.12%
474 238781 02HANNA 345 238782 02HANNA 138 1	238781 02HANNA 2387	2 02HANNA		1 345/138	202 ATSI	599	684	Base Case	0	221.1	-	36.91	0	0.06%	0.06%	0.00%
475 243007 05FRAZEY 138 243070 050HIOCT 138 1	243007 05FRAZEY 2430	0 050HIOCT		1 138	205 AEP	287	337	Base Case	0	-105.7	_	36.83	0	0.09%	0.09%	-0.03%
476 243513 05GENOA 138 243590 05WESTAR 138 1	243513 05GENOA 2435	0 05WESTAR		1 138	205 AEP	223	274	Base Case	0	-82.1	-	36.82	0	0.01%	0.01%	0.00%
477 242932 05CANTNC 345 242980 05CANTNC 138 1	242932 05CANTNC 2429	0 05CANTNC		1 345/138	205 AEP	500	563	Base Case	0	184.1	-	36.82	0	0.05%	0.05%	0.01%
478 243235 0523RD 138 246625 05MEDEORD BP 138 1	243235 0523RD 2466	5 05MEDFORD BP		1 138	205 AEP	187	240	Base Case	0	-68.8		36.78	0	0.01%	0.01%	0.00%
479 246887 05RAMEY 138 246919 05CHADWICK2 138 1	246887 05BAMEY 2469	9 05CHADWICK?		1 139	205 AEP	409	527	Base Case	0	-150.4	_	36 77	0	0.01%	0.01%	0.08%
480 243377 0550RENS 138 244193 0517ERV C CC 139 1	243377 0500RENG 2441	3 OSLAFAY C CC		1 120	205 AFP	251	335	Base Case	0	92.2		36 73	0	-0.02%	-0.02%	0.01%
100 2100 / DODOLENS 100 244100 UDLAFAI C 55 138 1	2441	O DURINI C 22		-1 T20	200 000	ZJI	333	Lase case	U	26.2		50.13	U	0.0270	0.0270	0.01/0

	А	B C	D	E	F	G	Н	L	J	К	L	М	N	0	Р	Q	R	S	Т	U
481 238665 02DS Q-1	138 238671 02DW Q-1 138 1	238665 02DS Q-1	238671	02DW Q-1	1	138	202 AT	ISI	273	332	2 Base Case	0	-100.2	-	36.72	0	-0.25%	-0.25%	-0.03%	
482 238643 02CW Q-1	138 238671 02DW Q-1 138 1	238643 02CW Q-1	238671	02DW Q-1	1	138	202 AT	TSI	273	332	2 Base Case	0	100.2	-	36.72	0	-0.25%	-0.25%	-0.03%	
483 250053 08LAFARG	138 250097 08SGROVE 138 1	250053 08LAFARG	250097	08SGROVE	1	138	212 DE	EO&K	298	298	8 Base Case	0	-109.4	-	36.71	0	-0.01%	-0.01%	0.00%	
484 238821 02INLAND	345 238823 02INO-14 138 4	238821 02INLAND	238823	02INO-14	4	345/138	202 AT	rsi	620	739	9 Base Case	0	227.5	-	36.69	0	0.01%	0.01%	0.03%	
485 239303 02NILES	345 239008 02NILES 138 1	239303 02NILES	239008	02NILES	1	345/138	202 AT	ISI	581	693	3 Base Case	0	213.2		36.69	0	-0.04%	-0.04%	-0.05%	
486 242922 05FLTLCK	765 242928 05MARYSV 765 1	242922 05FLTLCK	242928	05MARYSV	1	765	205 AE	P	4047	4142	2 Base Case	0	1483 1	-	36 65	0	1.46%	1 46%	3 73%	
487 249981 08AKSTEEL2	138 250010 08D CBK2 138 1	249981 08AKSTEEL2	250010	08D.CBK2	1	138	212 DE	COAK	299	299	9 Base Case	0	-109.5	-	36.63	0	-0.01%	-0.01%	-0.01%	
488 243017 05HAVILAND1	138 246352 05HaVIIAND2 138 71	243017 05Haviland1	246352	05HAVTLAND2	71	138	205 AF	D	187	240	Base Case	0	-68 5	-	36.63	0	-0.18%	-0.18%	-0.06%	
489 243217 05DEOUIN	345 247712 05SULLIVAN 345 1	243217 05DEOUTN	247712	05SULLTVAN	1	345	205 AE	P	971	1318	Base Case	0	-355 3	-	36.59	0	0.11%	0.11%	0.34%	
400 240001 000Egoin	139 250105 09TDUNTD 139 1	240217 0505201N	250105	0970HILIVAN	1	139	212 DE	OCK.	273	297	7 Baso Caso	0	-99.9	-	36.59	0	0.01%	0.01%	0.01%	
491 220122 02TANCY	245 242020 05MARVEV 245 1	220122 0000000	242020	OEMADVOU	1	245	202/205 20	TOT /APD	007	1201	1 Base Case	0	-227 4		36.50	0	0.01%	0.01%	0.01%	
497 250136 08HTLCPT	129 250141 0000 129 1	250136 021ANG1	250141	OPPOPAGE	1	120	202/203 AI	OCK COL	201	201	1 Base Case	0	100 9		26 10	0	0.00%	0.00%	-0.01%	
492 230130 08HILCKI	130 230127 02000VVE 120 1	230130 00HILCKI	230141	003CEASI	1	120	212 DE	SOAR	152	101	1 Base Case	0	109.0		36.46	0	0.00%	0.00%	-0.01%	
493 233000 02RDGVI	245 242270 0EDECOTO 120 2	243218 05DESOTO	2/2270	025IRIRE	-	245/120	202 AI	20	E04	101	2 Base Case	0	212.0		26.43	0	-0.13%	0.13%	0.00%	
494 243218 05DE3010	120 242276 05DE3010 120 1	243218 05055010	243270	05DESOTO	1	120	205 AE	SF ID	205	092	2 Base Case	0	212.0		36.43	0	-0.01%	-0.01%	0.00%	
495 243070 030HIOCT	138 243075 05POWELS 138 1	243070 050HIOCT	243075	05POWELS	1	130	205 AE	SP	205	204	Base Case	0	74.7	-	36.43	0	-0.06%	-0.06%	-0.06%	
496 243207 05GRNTWN	765 244658 05GRNTWN 138 1	243207 05GRNTWN	244658	05GRNTWN	1	/65/138	205 AE	SP	/50	/50	Base Case	0	2/3.1	-	36.41	0	-0.06%	-0.06%	-0.06%	
457 242756 USPOAGES	130 242813 USSTARKE 138 1	242/36 USPOAGES	242815	OODARU		138	205 AE	SF	167	240	Base Case	0	100.7	-	30.33	0	-0.03%	-0.03%	-0.18%	
490 253006 09BATH	345 253005 09BATH 138 2	253006 09BATH	253005	UJBATH	2	345/138	209 DA	11	450	495	Base Case	0	163.5	-	36.33	0	-0.04%	-0.04%	0.02%	
499 253006 09BATH	345 253005 09BATH 138 1	253006 09BATH	253005	U9BATH	1	345/138	209 DA	AY	450	495	Base Case	0	163.5	-	36.33	0	-0.04%	-0.04%	0.02%	
500 243508 05ITALNV	138 243575 05ST.CLR 138 1	243508 05ITALNV	243575	U5ST.CLR		138	205 AE	SP	248	313	3 Base Case	0	-90.1	-	36.32	0	0.09%	0.09%	0.03%	
501 243353 050LIVE	138 246075 05EDISON1 138 1	243353 050LIVE	246075	U5EDISON1	1	138	205 AE	SP	251	251	I Base Case	0	91.1	-	36.28	0	-0.08%	-0.08%	-0.05%	
502 243031 05LYNN Z	138 243155 05W.NEWTONSS 138 1	243031 05LYNN Z	243155	USW.NEWTONSS	1	138	205 AE	1P	158	183	3 Base Case	0	-57.3	-	36.27	0	-0.10%	-0.10%	-0.03%	
503 243105 05SMILLB	138 247253 05BUCKSS 138 1	243105 05SMILLB	247253	05BUCKSS	1	138	205 AE	EP	185	257	7 Base Case	0	-67.1	-	36.27	0	-0.26%	-0.26%	0.04%	
504 238745 02GALION	345 238746 02GALION 138 3	238745 02GALION	238746	02GALION	3	345/138	202 AT	TSI	458	478	8 Base Case	0	165.7	-	36.19	0	-0.21%	-0.21%	-0.05%	
505 243526 05HYATT	138 243566 05SAWMIL 138 2	243526 05HYATT	243566	05SAWMIL	2	138	205 AE	IP	388	526	6 Base Case	0	140.2	-	36.14	0	0.03%	0.03%	0.00%	
506 242700 05LEBANO	138 246766 05ELKGAZ 138 1	242700 05LEBANO	246766	05ELKGAZ	1	138	205 AE	IP	446	446	6 Base Case	0	161	-	36.11	0	-0.34%	-0.34%	-0.33%	
507 242698 05LAKIN	138 243013 05GAVIN1 138 1	242698 05LAKIN	243013	05GAVIN1	1	138	205 AE	IP	185	185	5 Base Case	0	66.8	-	36.08	0	0.06%	0.06%	-0.02%	
508 238781 02HANNA	345 238782 02HANNA 138 2	238781 02HANNA	238782	02HANNA	2	345/138	202 AT	rsi	616	696	6 Base Case	0	222.2	-	36.07	0	0.06%	0.06%	0.00%	
509 247002 05WAYMSS	138 247128 05ASTNSS 138 1	247002 05WAYMSS	247128	05ASTNSS	1	138	205 AE	2P	205	255	5 Base Case	0	-73.9	-	36.05	0	-0.12%	-0.12%	0.05%	
510 243454 05BIXBY	345 243473 05BIXBY 138 1	243454 05BIXBY	243473	05BIXBY	1	345/138	205 AE	IP	789	879	9 Base Case	0	284.4		36.05	0	0.01%	0.01%	0.01%	
511 238782 02HANNA	138 239178 02WRAVNA 138 1	238782 02HANNA	239178	02WRAVNA	1	138	202 AT	rsi	295	369	9 Base Case	0	106.3	-	36.04	0	0.05%	0.05%	-0.01%	
512 242528 05SPORN	345 242808 05SPORNS 138 3	242528 05SPORN	242808	05SPORNS	3	345/138	205 AE	2P	475	544	4 Base Case	0	171.1	-	36.03	0	0.07%	0.07%	0.00%	
513 250105 08TDHNTR	138 250138 08NICKEL 138 1	250105 08TDHNTR	250138	08NICKEL	1	138	212 DE	EO&K	300	300) Base Case	0	108		36.01	0	-0.10%	-0.10%	-0.10%	
514 242605 05CLNCHR	138 246894 05VACITY 138 1	242605 05CLNCHR	246894	05VACITY	1	138	205 AE	P	670	675	5 Base Case	0	-240.9	-	35.95	0	-0.15%	-0.15%	-0.15%	
515 242605 05CLNCHR	138 246894 05VACITY 138 2	242605 05CLNCHR	246894	05VACITY	2	138	205 AE	IP	670	675	5 Base Case	0	-240.9	-	35.95	0	-0.15%	-0.15%	-0.15%	
516 243473 05BIXBY	138 243518 05GROVES 138 2	243473 05BIXBY	243518	05GROVES	2	138	205 AE	IP	335	392	2 Base Case	0	120.4	-	35.93	0	0.01%	0.01%	0.01%	
517 243070 050HIOCT	138 243160 05WTRNWY 138 1	243070 050HIOCT	243160	05WTRNWY	1	138	205 AE	P	205	255	5 Base Case	0	73.6		35.91	0	0.05%	0.05%	0.05%	
518 242999 05EPROCT	138 243064 05NPROCT 138 1	242999 05EPROCT	243064	05NPROCT	1	138	205 AE	IP	296	296	6 Base Case	0	-106.1	-	35.86	0	-0.02%	-0.02%	-0.06%	
519 242966 05BROADA	138 242994 05EAMSTD 138 1	242966 05BROADA	242994	05EAMSTD	1	138	205 AE	2P	336	393	3 Base Case	0	120.3	-	35.81	0	0.08%	0.08%	0.01%	
520 238678 02EAKRON	138 238864 02KNOX 138 1	238678 02EAKRON	238864	02KNOX	1	138	202 AT	ISI	185	189	9 Base Case	0	-66.2	-	35.78	0	0.03%	0.03%	0.05%	
521 249567 08M.FORT	345 249575 08TERMNL 345 1	249567 08M.FORT	249575	08TERMNL	1	345	212 DE	EO&K	1509	1509	9 Base Case	0	539.6	-	35.76	0	-0.32%	-0.32%	-0.28%	
522 242732 05NBRSTL	138 360490 4NBRISTOL VA 138 Z1	242732 05NBRSTL	360490	4NBRISTOL VA	Z1	138	205/347 AE	EP/TVA	242	248	8 Base Case	0	86.5	-	35.73	0	-0.05%	-0.05%	-0.15%	
523 238821 02INLAND	345 238822 02INQ-11 138 3	238821 02INLAND	238822	02INQ-11	3	345/138	202 AT	ISI	548	604	4 Base Case	0	195.6	-	35.69	0	-0.01%	-0.01%	0.02%	
524 242954 05APPLEC	138 243092 05SCANTO 138 1	242954 05APPLEC	243092	05SCANTO	1	138	205 AE	IP	205	205	5 Base Case	0	-73.2	-	35.69	0	0.12%	0.12%	-0.01%	
525 242508 05AMOS	765 242538 05AMOS_6_XFL 138 6	242508 05AMOS	242538	05AMOS_6_XFL	6	765/138	205 AE	IP	990	1119	9 Base Case	0	353	12	35.66	0	-0.15%	-0.15%	-0.18%	
526 242824 05TAMSM1	138 247113 05PIERSS 138 1	242824 05TAMSM1	247113	05PIERSS	1	138	205 AE	EP	164	180) Base Case	0	-58.5	-	35.65	0	-0.07%	-0.07%	-0.01%	
527 253079 09SUGRCK	345 253078 09SUGRCK 138 2	253079 09SUGRCK	253078	09SUGRCK	2	345/138	209 DA	AΥ	448	493	3 Base Case	0	159.7	-	35.65	0	0.02%	0.02%	0.05%	
528 247435 05MUSKNG ES2	Z 138 247501 05MUSK E XFL 138 ZE	247435 05MUSKNG ESZ	247501	05MUSK E XFL	ZE	138	205 AE	IP	766	800	D Base Case	0	-272.1	-	35.52	0	-0.50%	-0.50%	-0.01%	
529 250014 08DNLSN1	138 250173 08WDSPNT 138 1	250014 08DNLSN1	250173	08WDSPNT	1	138	212 DE	EO&K	266	266	6 Base Case	0	-94.5	12	35.52	0	0.05%	0.05%	0.08%	
530 238581 02BRBRTN	138 239123 02STAR 138 1	238581 02BRBRTN	239123	02STAR	1	138	202 AT	rsi	196	242	2 Base Case	0	-69.5	-	35.48	0	-0.04%	-0.04%	0.00%	
531 247434 05MUSKNG DS2	138 247500 05MUSK D XFL 138 ZD	247434 05MUSKNG DSZ	247500	05MUSK D XFL	ZD	138	205 AE	P	766	800) Base Case	0	-271.7	-	35.47	0	-0.50%	-0.50%	-0.01%	
532 243499 05DUBLIN	138 243566 05sawmil 138 1	243499 05DUBLIN	243566	05SAWMIL	1	138	205 AE	IP	184	184	4 Base Case	0	-65.3	-	35.46	0	0.04%	0.04%	0.00%	
533 243480 05BUCKEY	138 243511 05GAY 138 1	243480 05BUCKEY	243511	05GAY	1	138	205 AE	IP	170	209	9 Base Case	0	60.3		35.46	0	0.04%	0.04%	0.02%	
534 239092 02SAMMIS	345 239122 02STAR 345 1	239092 02SAMMIS	239122	02STAR	1	345	202 AT	SI	1435	1742	2 Base Case	0	508.6	-	35.45	0	0.94%	0.94%	0.16%	
535 238832 02JACKMA	138 239149 02VULCAN 138 1	238832 02JACKMA	239149	02VULCAN	1	138	202 AT	ISI	216	264	4 Base Case	0	76.4	-	35.36	0	0.04%	0.04%	-0.01%	
536 242528 05SPORN	345 242807 05SPORN 138 B	242528 05SPORN	242807	05SPORN	в	345/138	205 AE	IP	501	564	4 Base Case	0	176.8	-	35.29	0	0.07%	0.07%	0.00%	
537 238731 02FOX	345 238735 02F0X014 138 4	238731 02FOX	238735	02F0X014	4	345/138	202 AT	ISI	248	288	8 Base Case	0	87.5	22	35.28	0	0.14%	0.14%	0.02%	
538 242932 05CANTNC	345 242980 05CANTNC 138 3	242932 05CANTNC	242980	05CANTNC	3	345/138	205 AF	2P	524	605	5 Base Case	0	184.8	-	35.27	0	0.05%	0.05%	0.01%	
539 242966 05BBOADA	138 243127 05TTDD 1-2 138 1	242966 05BROADA	243127	05TIDD 1-2	1	138	205 AE		358	409	9 Base Case	0	-126	-	35.21	0	0.08%	0.08%	0.01%	
540 242516 05MOINTN	765 242920 05BELMON 765 1	242516 05MOUNTN	242920	05BELMON	1	765	205 AE		4047	4571	1 Base Case	0	1423 4	-	35 17	0	-7.66%	-7 66%	1.84%	
and allot a concount		212010 001000011	212920			,05	200 110		1011	10/1		0			00.11	U	1.0070	1.0070	210 170	

	А		B C	D	E	F	G	НІ	Ĵ	К	L	М	N	0	Р	Q	R	S	T U
541 243371 05S SIDE	138 243380 05STDBKR	138 1	243371 05S SIDE	243380	05STDBKR	1	138	205 AEP	251	335	Base Case	0	88.3		35.16	0	0.06%	0.06%	0.04%
542 239043 02PINE	138 239160 02WADS	138 1	239043 02PINE	239160	02WADS	1	138	202 ATSI	233	282	Base Case	0	-81.9	-	35.15	0	-0.04%	-0.04%	0.04%
543 246407 05CABIN CRK	138 246423 05CABNC9 XFL	138 Z2	246407 05CABIN CRK2	246423	05CABNC9 XFL	Z2	138	205 AEP	113	136	Base Case	0	39.7	-	35.13	0	0.00%	0.00%	0.01%
544 242566 05BROADF	138 242600 05CLAYPL	138 1	242566 05BROADF	242600	05CLAYPL	1	138	205 AEP	296	296	Base Case	0	103.9	-	35.09	0	0.06%	0.06%	0.19%
545 249996 08CLRMT1	138 250100 08SMRSD1	138 1	249996 08CLRMT1	250100	08SMRSD1	1	138	212 DEO&K	302	302	Base Case	0	105.9	-	35.06	0	0.03%	0.03%	0.03%
546 243293 05FTSHER	138 246051 05DEEB CBK2	138 1	243293 05FTSHER	246051	05DEEB CBK2	1	138	205 AEP	251	335	Base Case	0	88	-	35.06	0	-0.07%	-0.07%	-0.05%
547 243519 05HALLED	138 247896 05BOLTON	138 1	243519 05HALLED	247896	05BOLTON	1	138	205 AEP	223	223	Base Case	0	-78 1	_	35.04	0	-0.07%	-0.07%	0.00%
548 243319 05.TAX	138 247837 05PEPCH	138 1	243319 05 TAY	247837	05PERCH	1	138	205 AEP	409	409	Base Case	0	=143.2	_	35 01	0	-0.05%	-0.05%	0.03%
540 239590 030RT	130 239652 02DARRON	130 1	239590 0200AT	239652	02DARROW	1	130	202 ADD	200	242	Base Case	0	70		35.01	0	0.03%	0.03%	0.03%
550 238823 02 TACKEN	130 230032 02DARROW	120 1	230300 02BRADI	230032	02DARROW	1	120	202 AISI	200	292	Base Case	0	07.3		35.01	0	0.64%	0.64%	0.12%
550 2388855 025ACKSN	130 230342 UZMAFLE	130 1	230633 020ACKSN	230342	02MAPLE	1	130	202 AISI	140	151	Base Case	0	51.3		34 00	0	0.04%	0.04%	0.12%
551 238358 02CADQ18	130 253062 000WEDIQ4	130 1	258556 02CADQ18	230742	02FWLSQ4	1	130	202 AISI	140	131	base case	0	-31.0		34.99	0	-0.01%	-0.01%	0.00%
552 253030 09MONOM2	136 253065 090VERL2	130 1	253030 09MON0M2	233063	OSD DIKUDDE	1	130	209 DAI	221	EAA	Base Case	0	-77.5	_	34.97	0	0.00%	0.00%	0.01%
555 243220 USE.ELKHART	345 243287 05E.ELKHART	138 2	243220 05E.ELKHART	243287	USE.ELKHART	2	345/138	205 AEP	495	544	Base Case	0	1/3.1	-	34.97	0	0.08%	0.08%	0.05%
554 238541 UZAS Q-1	138 238645 02CW TP1	138 1	238541 02AS Q-1	238645	02CW TPI	1	138	202 ATS1	265	316	Base Case	0	-92.5	-	34.92	0	-0.26%	-0.26%	-0.03%
555 238648 02CY Q-2	138 238740 02FWLSQ2	138 1	238648 02CY Q-2	238740	02FWLSQ2	1	138	202 ATSI	176	229	Base Case	0	61.4	-	34.91	0	-0.28%	-0.28%	-0.03%
556 243092 05SCANTO	138 243132 05TORREY1	138 1	243092 05SCANTO	243132	05TORREY1	1	138	205 AEP	366	416	Base Case	0	127.7	-	34.89	0	-0.05%	-0.05%	0.09%
557 242684 05J.FERR	138 242685 05J.FERX	138 ZB	242684 05J.FERR	242685	05J.FERX	ZB	138	205 AEP	358	421	Base Case	0	124.7	-	34.84	0	-0.10%	-0.10%	-0.16%
558 242605 05CLNCHR	138 324316 4VIRGINIA CI	138 1	242605 05CLNCHR	324316	4VIRGINIA CI	1	138	205/363 AEP/LGEE	187	237	Base Case	0	65.1	-	34.82	0	0.04%	0.04%	0.05%
559 238573 02BELEVU	138 239236 02TOLHOS	138 1	238573 02BELEVU	239236	02TOLHOS	1	138	202 ATSI	216	264	Base Case	0	-75.2	-	34.8	0	0.04%	0.04%	-0.01%
560 243469 05BEATTY	138 243593 05ZUBER	138 1	243469 05BEATTY	243593	05ZUBER	1	138	205 AEP	150	212	Base Case	0	52.2	-	34.8	0	-0.05%	-0.05%	-0.13%
561 242956 05BALLHL	138 242977 05CALDWE	138 1	242956 05BALLHL	242977	05CALDWE	1	138	205 AEP	205	284	Base Case	0	-71.3	-	34.8	0	-0.18%	-0.18%	0.05%
562 250032 08FRFLD1	138 250070 08MRGAN1	138 1	250032 08FRFLD1	250070	08MRGAN1	1	138	212 DEO&K	194	194	Base Case	0	-67.3	-	34.68	0	-0.03%	-0.03%	0.01%
563 238642 02CRSLND	138 239107 02SHNAGO	138 2	238642 02CRSLND	239107	02SHNAGO	2	138	202 ATSI	215	215	Base Case	0	-74.6	-	34.68	0	0.03%	0.03%	-0.02%
564 249985 08BECKET	138 250105 08TDHNTR	138 1	249985 08BECKET	250105	08TDHNTR	1	138	212 DEO&K	299	299	Base Case	0	-103.4	-	34.6	0	-0.02%	-0.02%	-0.06%
565 242989 05E LIMA	138 245516 05ROCKHILL2	138 1	242989 05E LIMA	245516	05ROCKHILL2	1	138	205 AEP	150	204	Base Case	0	51.9	-	34.58	0	0.01%	0.01%	-0.04%
566 239106 02SHNAGO	345 239107 02SHNAGO	138 1	239106 02SHNAGO	239107	02SHNAGO	1	345/138	202 ATSI	548	688	Base Case	0	189.4	-	34.55	0	-0.32%	-0.32%	-0.04%
567 243007 05FRAZEY	138 243079 05REFORM	138 1	243007 05FRAZEY	243079	05REFORM	1	138	205 AEP	287	337	Base Case	0	99.2	-	34.55	0	0.09%	0.09%	-0.03%
568 250020 08ESTWD1	138 250141 08SCEAST	138 1	250020 08ESTWD1	250141	08SCEAST	1	138	212 DEO&K	301	301	Base Case	0	-103.9	-	34.53	0	0.00%	0.00%	-0.01%
569 243024 05HOWARD	138 243039 05MELMOR	138 1	243024 05HOWARD	243039	05MELMOR	1	138	205 AEP	136	167	Base Case	0	-46.9	-	34.5	0	-0.12%	-0.12%	-0.09%
570 243287 05E.ELKHART	138 243290 05ELCONZ	138 1	243287 05E.ELKHART	243290	0.5ELCONZ	1	138	205 AEP	251	251	Base Case	0	86.4	-	34.42	0	-0.02%	-0.02%	-0.01%
571 239122 02STAR	345 239123 02STAR	138 1	239122 02STAR	239123	02STAR	1	345/138	202 ATST	458	552	Base Case	0	157.5	-	34 4	0	0.00%	0.00%	-0.02%
572 239237 02CLVR-S	138 242980 05CANTNC	138 1	239237 02CLVR-S	242980	05CANTNC	1	138	202/205 ATST/AEP	161	194	Base Case	0	-55 3	_	34 38	0	0.22%	0.22%	0.00%
573 243097 05SECANT	138 243120 0551INNYSTDE1	138 1	243097 05SECANT	243120	05SUNNYSTDE1	1	138	205 AFP	296	392	Base Case	0	101 7	-	34 36	0	0.04%	0.04%	0.00%
574 242814 050T ATP	130 246392 0550001515E1	130 1	242014 0500 ATP	216303	OSTUDNED DD	1	130	205 AEF	271	361	Base Case	0	_02 1	-	34.30	0	-0.01%	-0.01%	-0.19%
575 242614 0351.ALB	130 240502 USTURNER_BP	120 1	242014 0351.ALB	240302	OFFORC	1	120	205 AEP	271	210	Base Case	0	-93.1		24.24	0	-0.01%	-0.01%	-0.19%
575 243549 05MULBRI	138 243562 05R055	138 1	243549 05M0LBR1	243362	OSRUSS	1	138	205 AEP	223	310	Base Case	0	76.5		34.32	0	-0.08%	-0.08%	0.07%
576 238695 02ELW+	138 238706 02E0 TAP	138 1	238695 02ELW+	238706	UZEU TAP	1	138	202 ATS1	160	192	Base Case	0	-54.9	-	34.3	0	0.00%	0.00%	0.00%
577 238753 02GFQ-11	138 238792 02HDGQ11	138 1	238753 02GFQ-11	238792	OZHDGQII	1	138	202 ATS1	399	488	Base Case	0	-136.8	-	34.3	0	0.01%	0.01%	0.02%
578 239106 02SHNAGO	345 239107 02SHNAGO	138 2	239106 02SHNAGO	239107	02SHNAGO	2	345/138	202 ATSI	548	659	Base Case	0	187.8	-	34.27	0	-0.32%	-0.32%	-0.04%
579 239093 02SAMMIS	138 239372 02HAGAN	138 1	239093 02SAMMIS	239372	U2HAGAN	1	138	202 ATSI	185	189	Base Case	0	63.4	-	34.26	0	0.13%	0.13%	0.00%
580 238961 02MIDWAY	345 238962 02MIDWAY	138 3	238961 02MIDWAY	238962	02MIDWAY	3	345/138	202 ATSI	417	504	Base Case	0	142.7	-	34.22	0	0.03%	0.03%	0.01%
581 238956 02MFLDQ1	138 239045 02PN Q-1	138 1	238956 02MFLDQ1	239045	02PN Q-1	1	138	202 ATSI	115	115	Base Case	0	-39.3	-	34.22	0	0.13%	0.13%	-0.04%
582 253079 09SUGRCK	345 253078 09SUGRCK	138 1	253079 09SUGRCK	253078	09SUGRCK	1	345/138	209 DAY	450	498	Base Case	0	153.9	-	34.2	0	0.02%	0.02%	0.05%
583 242544 05AXTON	138 242816 05STOCKT	138 1	242544 05AXTON	242816	05STOCKT	1	138	205 AEP	283	396	Base Case	0	96.7	-	34.19	0	-0.03%	-0.03%	0.25%
584 243317 05IRELAN	138 243318 05JACKSON RD	138 1	243317 05IRELAN	243318	05JACKSON RD	1	138	205 AEP	219	251	Base Case	0	-74.9	-	34.19	0	-0.05%	-0.05%	-0.03%
585 249980 08AGSTNE	138 250133 08WLDER2	138 1	249980 08AGSTNE	250133	08WLDER2	1	138	212 DEO&K	291	291	Base Case	0	-99.5	-	34.18	0	0.04%	0.04%	0.04%
586 242748 05PENHOK	138 243951 05REDWOOD	138 1	242748 05PENHOK	243951	05REDWOOD	1	138	205 AEP	296	392	Base Case	0	101.2	-	34.18	0	0.00%	0.00%	0.39%
587 242858 05WYTHE1	138 242859 05WYTHE2	138 Z1	242858 05WYTHE1	242859	05WYTHE2	Z1	138	205 AEP	285	337	Base Case	0	-97.3	-	34.13	0	-0.11%	-0.11%	-0.06%
588 246927 05SAND H	138 246945 05BIGR1Z	138 1	246927 05SAND H	246945	05BIGR1Z	1	138	205 AEP	205	205	Base Case	0	-69.8	-	34.04	0	-0.18%	-0.18%	0.05%
589 250012 08DERPK2	138 250114 08TP7481	138 1	250012 08DERPK2	250114	08TP7481	1	138	212 DEO&K	266	266	Base Case	0	-90.5		34.03	0	0.00%	0.00%	0.00%
590 243070 050HIOCT	138 243094 05SCOSHC	138 1	243070 050HIOCT	243094	05SCOSHC	1	138	205 AEP	185	240	Base Case	0	62.9	-	34.01	0	-0.34%	-0.34%	0.01%
591 243498 05DLAWAR2	138 253021 09DARBY	138 1	243498 05DLAWAR2	253021	09DARBY	1	138	205/209 AEP/DAY	196	220	Base Case	0	66.6	-	34	0	0.12%	0.12%	0.04%
592 249574 08TDHNTR	345 249576 08WODSDL	345 1	249574 08TDHNTR	249576	08WODSDL	1	345	212 DE0&K	1509	1509	Base Case	0	-513	-	33.99	0	-0.33%	-0.33%	-0.27%
593 249574 08TDHNTR	345 249576 08WODSDL	345 2	249574 08TDHNTR	249576	08WODSDL	2	345	212 DE0&K	1509	1509	Base Case	0	-513		33.99	0	-0.33%	-0.33%	-0.27%
594 239370 02DOWLING	345 239371 02DOWLING	138 1	239370 02DOWLING	239371	02DOWLING	1	345/138	202 ATST	386	436	Base Case	0	131.1	_	33.96	0	0.01%	0.01%	0.02%
595 243160 05WTRNWY	138 246941 05MTLL2Z	138 1	243160 05WTRNWY	246941	05MTLL2Z	1	138	205 AEP	205	205	Base Case	0	69.6	_	33.95	0	0.05%	0.05%	0.05%
596 242768 05RTDCWY	138 242769 05RTDGWY	138 58	242768 05RTDGWY	242760	05BIDGWY	SR	130	205 AEP	121	121	Base Case	0	-41 1	_	32 92	0	0.00%	0.00%	0.32%
597 242944 05SECANT	345 243097 059ECANT	138 1	242944 058FCANT	242007	05SECANT	1	345/139	205 AEP	606	747	Base Case	0	236 1		33 00	0	0.12%	0.13%	0.00%
598 238563 02DAV CT	345 241001 021ATTENDORE	345 2	238563 0287V CH	241001	02LALLENDORE	1	313/130 315/130	202 202	1/20	177/	Base Case	0	=497 0		33.33	0	-0.20%	-0.80%	-0.07%
500 230303 UZBAI SH	139 246027 0503ND U	120 1	242995 050MUT N	241901	050AND U	1	120	202 AIDI	210	21/4	Page Case	0	-401.0		22.9	0	-0.00%	0.01%	0.09%
500 040767 05575005	130 240927 USSAND H	120 25	242985 USUNTILN	240927	OSAND H		138	205 AEP	219	200	Dase case	0	14.2		33.9	0	0.01%	0.01%	0.09%
000 242/6/ 05RIDGWA	138 242768 05RIDGWX	138 SR	242/6/U5RIDGWA	242768	USRIDGŴX	SR	138	205 AEP	121	121	Base Case	0	-41	-	33.89	0	0.00%	0.00%	0.32%

			A		B C	D	E	F	G	Н	L	J	K L	М	N	0	Р	Q	R	S	T U	
601	1 239726 02LAKEAVE	138	239728 02BLKRVR	138 1	239726 02LAKEAVE	239728	02BLKRVR	1	138	8 202	ATSI	328	396 Base Case	0	111.1		33.87	0	-0.17%	-0.17%	-0.02%	
602	2 242524 05CLOVRD	345	242607 05CLOVRD	138 1B	242524 05CLOVRD	242607	05CLOVRD	1B	345/138	205	AEP	410	527 Base Case	0	138.8	-	33.86	0	0.14%	0.14%	-0.27%	
603	238879 02LB 013	138	238935 02LYO-13	138 1	238879 02LB 013	238935	02T.YO-13	1	13	8 202	ATST	148	151 Base Case	0	50.1	-	33.86	0	0.01%	0.01%	0.00%	
604	1 243531 05KIMBBY	138	244198 05LEMASTER	138 1	243531 05KTMBBY	244198	05LEMASTER	1	13	8 205	AEP	223	223 Base Case	0	-75 5	-	33 84	0	-0.03%	-0.03%	0.09%	-
60	242954 05APPLEC	138	242978 05CANALR	138 1	242954 053PPLEC	242978	05CANALR	1	139	8 205	AFP	205	205 Base Case	0	69 3	-	33.83	0	0.12%	0.12%	-0.01%	\neg
606	242334 05ATT LLC	139	245949 05MTTIPD DK2	138 1	242554 05ATTELC	242570	05MTLIED DK2	1	13	8 205	AFD	195	185 Base Case	0	-62 5	-	33.05	0	0.12%	0.22%	0.25%	-
607	7 250052 091AFARC	120	250140 08DAVTON	120 1	243102 0331NR 31033	240040	OSPITEBON PRZ		120	0 203	DEOCK	200	209 Page Case	0	100 6		22.76	0	-0.01%	-0.01%	0.00%	-
600	230033 08LAFARG	130	242827 050ATTON	130 1	230033 08LAFARG	230140	OFFREE		1.00	0 212	DEDAN	2.30	250 Base Case	0	100.0		33.70	0	-0.01%	-0.01/0	0.00%	-
600	242571 05B0CKH0	100	242827 USTALEWE	130 1	242571 03B0CKH0	242027	031AZEWE		. 100	0 205	AEP	120	201 Base Case	0	-04.7	_	22.75	0	-0.13%	-0.13%	-0.20%	-
003	238578 02BORDMN	100	239107 025HNAGO	100 1	238378 02BORDMIN	259107	025HNAGO		100	0 202	AISI	150	100 Base Case	0	-43.9	_	33.75	0	0.08%	0.06%	-0.04%	-
610	J 242950 USACADEM	138	246941 USMILL2Z	138 1	242950 USACADEM	246941	USMILLZZ		130	8 205	AEP	205	205 Base Case	0	-69.2	-	33.73	0	0.05%	0.05%	0.05%	
01	243557 USRENO Z	138	247809 USLEVEE	138 1	243557 USRENU 2	24/809	USLEVEE		. 130	8 205	AEP	282	282 Base Case	U	95.1	-	33.72	0	0.27%	0.27%	0.20%	_
614	2 242565 05BRADL2	138	242695 05KINCAI	138 1	242565 05BRADL2	242695	05KINCAI	1	. 138	8 205	AEP	205	255 Base Case	0	-69.1	-	33.7	0	-0.08%	-0.08%	-0.24%	
61:	3 242732 05NBRSTL	138	242851 05WOLFH2	138 1	242732 05NBRSTL	242851	05WOLFH2	1	. 138	8 205	AEP	251	330 Base Case	0	-84.6	-	33.7	0	-0.05%	-0.05%	-0.19%	
614	4 243459 05KIRK	345	243532 05KIRK	138 5	243459 05KIRK	243532	05KIRK	e,	345/138	205	AEP	675	675 Base Case	0	227.5		33.7	0	-0.09%	-0.09%	0.04%	
615	238547 02AT	345	239082 02S8-ATT	345 1	238547 02AT	239082	02S8-ATT	1	. 34	5 202	ATSI	733	828 Base Case	0	246.8	-	33.67	0	0.65%	0.65%	-0.12%	
616	5 238879 02LB Q13	138	238950 02MBQ-13	138 1	238879 02LB Q13	238950	02MBQ-13	1	. 138	8 202	ATSI	324	395 Base Case	0	-109	-	33.64	0	0.01%	0.01%	0.00%	
617	7 242929 05NPROCT	765	243064 05NPROCT	138 2	242929 05NPROCT	243064	05NPROCT	2	2 765/138	205	AEP	917	996 Base Case	0	308.2	-	33.61	0	0.07%	0.07%	0.08%	
618	3 250055 08LTERL7	138	250093 08REDBK2	138 1	250055 08LTERL7	250093	08REDBK2	1	138	8 212	DEO&K	264	264 Base Case	0	-88.7	-	33.6	0	0.02%	0.02%	0.01%	
619	238913 02LRCRQ2	138	240352 02PM2Q11	138 1	238913 02LRCRQ2	240352	02PM2Q11	1	. 138	8 202	ATSI	273	332 Base Case	0	91.7	-	33.58	0	0.08%	0.08%	-0.02%	
620	243063 05N.NEWARK1	138	243098 05SHARPR	138 1	243063 05N.NEWARK1	243098	05SHARPR	1	138	8 205	AEP	158	183 Base Case	0	53	-	33.57	0	0.04%	0.04%	0.09%	
621	1 238634 02COMERC	138	239306 02REPUBLICSM	138 1	238634 02COMERC	239306	02REPUBLICSM	1	138	8 202	ATSI	152	185 Base Case	0	51	-	33.57	0	0.11%	0.11%	-0.08%	
622	2 239045 02PN Q-1	138	239112 02LRCRQ1	138 1	239045 02PN Q-1	239112	02LRCRQ1	1	138	8 202	ATSI	160	192 Base Case	0	-53.7	-	33.57	0	0.13%	0.13%	-0.04%	
623	3 238782 02HANNA	138	239101 02SHALER	138 1	238782 02HANNA	239101	02SHALER	1	138	8 202	ATSI	260	309 Base Case	0	87.1	-	33.51	0	0.02%	0.02%	0.01%	
624	4 243551 050SU	138	246907 05W.CAMPUS	138 1	243551 050SU	246907	05W.CAMPUS	1	. 138	8 205	AEP	323	397 Base Case	0	-108.2	-	33.51	0	-0.01%	-0.01%	-0.02%	
625	243220 05E.ELKHART	345	255105 17HIPLE	345 1	243220 05E.ELKHART	255105	17HIPLE	1	. 345	5 205/217	AEP/NIPS	1409	1409 Base Case	0	471.7	22	33.48	0	-0.56%	-0.56%	-0.47%	
626	5 242644 05FREM01	138	242645 05FREMO2	138 Z1	242644 05FREM01	242645	05FREMO2	Z1	138	8 205	AEP	335	392 Base Case	0	112.1		33.46	0	0.02%	0.02%	0.18%	
627	7 242927 05MARQUI	765	242938 05MARQUI	345 1	242927 05MARQUI	242938	05MARQUI	1	765/345	205	AEP	2742	3097 Base Case	0	917.4	-	33.46	0	0.80%	0.80%	2.40%	
628	3 238772 02GTO-12	138	239222 02CHSTL	138 1	238772 02GTO-12	239222	02CHSTL	J	138	8 202	ATSI	278	339 Base Case	0	93	-	33.45	0	0.00%	0.00%	0.00%	_
629	239008 02NTLES	138	239120 02SSPBNG	138 2	239008 02NTLES	239120	02SSPRNG		13	8 202	ATST	225	295 Base Case	0	75.2		33.42	0	-0.13%	-0.13%	-0.01%	-
630	242937 05KAMMER	345	243026 05KAMMER13	138 32	242937 05KAMMEB	243026	05KAMMER13	32	345/138	205	AEP	747	747 Base Case	0	249.5	-	33.4	0	-0.19%	-0.19%	0.30%	-
631	1 238797 02HGHLND	138	238939 02MAHNGS	138 1	238797 02HCHLND	238939	02MAHNGS	1	13	8 202	ATST	200	223 Base Case	0	66.8	-	33 39	0	-0.02%	-0.02%	0.00%	-
632	239269 02RTCHL	138	242993 05E LEIPSTC2	138 1	239269 02BTCHLT	242993	05E LEIPSIC2	1	130	8 202/205	ATST/AEP	223	223 Base Case	0	74 4	_	33 37	0	-0.07%	-0.07%	-0.11%	
633	239289 02HICHES	345	239290 02HAVES	138 1	239289 02HAVES	239290	02HAVES	1	345/138	202/203	ATST	393	A93 Base Case	0	131 1	-	33.36	0	0.13%	0.13%	0.01%	-
63/	1 242774 05BOANO2	130	246991 050UNCCA	130 1	242774 05POANO2	216091	05clineca	1	120	202	ATOI	167	245 Page Case	0	55.6	_	33.30	0	0.15%	0.15%	0.36%	-
625	242774 USROANO2	120	240901 UJSUNSCA	120 1	242774 05ROANO2	240901	0550NSCA		120	0 205	AEP	251	245 Base Case	0	02 6		22.21	0	0.03%	0.03%	0.01%	-
620	244185 USLAFAI C 55	130	244465 05F0GWELL	130 1	244165 USLAFAI C 55	244403	OFFRERE		1.00	0 205	AEF	1.67	335 Base Case	0	03.0 EE C		33.3	0	-0.02%	-0.02/0	0.01%	-
630	243039 USNFINDL	130	247172 USEBERSU	130 1	243039 05NFINDL	24/1/2	OSEBERSO		245/120	0 205	AEP	107	245 Base Case	0	-33.0	_	33.29	0	0.11%	0.11%	-0.07%	-
620	242949 USWMILLP	345	243150 USWMILLP	138 1	242949 05WMILLP	243150	05WMILLP	1	. 345/138	205	AEP	495	051 Base Case	0	164.7	-	33.28	0	0.01%	0.01%	0.04%	_
038	243064 USNPROCT	138	243004 USE.HUNTING1	138 1	243064 USNPROCT	245664	USE.HUNTINGI		138	8 205	AEP	219	201 Base Case	0	12.8		33.25	0	-0.01%	-0.01%	-0.03%	_
635	238941 02MANSFD	345	253902 15BVRVAL	345 2	238941 U2MANSFD	253902	15BVRVAL	2	34	5 202/215	ATSI/DLCO	1486	1/39 Base Case	0	-493.8	-	33.23	0	-0.1/%	-0.1/%	0.1/%	_
640	J 238841 02JNPRQ2	138	239002 02NFLDQ2	138 1	238841 02JNPRQ2	239002	U2NFLDQ2	1	. 138	8 202	ATSI	273	332 Base Case	0	90.7	-	33.23	0	-0.15%	-0.15%	0.04%	
64	239018 02FULTON	345	238738 02FULTON	138 1	239018 02FULTON	238738	UZFULTON	1	. 345/138	202	ATSI	346	392 Base Case	0	114.9	-	33.21	0	0.03%	0.03%	0.01%	
642	2 243078 05REEDUR	138	246471 O5MILES AVE	138 1	243078 05REEDUR	246471	USMILES AVE		. 138	8 205	AEP	251	335 Base Case	0	83.3		33.18	0	-0.08%	-0.08%	0.05%	
643	243034 05MARQUI	138	243140 05WAKEFL	138 1	243034 05MARQUI	243140	05WAKEFL	1	. 138	8 205	AEP	219	223 Base Case	0	72.7	-	33.18	0	0.00%	0.00%	-0.07%	
644	4 242989 05E LIMA	138	246155 05FORD LIMA2	138 1	242989 05E LIMA	246155	05FORD LIMA2	1	138	8 205	AEP	167	240 Base Case	0	55.4	-	33.17	0	0.01%	0.01%	-0.03%	
645	250082 08P.UN1	138	250157 08CORNTP	138 1	250082 08P.UN1	250157	08CORNTP	1	. 138	8 212	DEO&K	198	198 Base Case	0	65.6	-	33.13	0	-0.02%	-0.02%	-0.03%	
646	5 242517 05WYOMIN	765	242857 05WYOMX2	138 2	242517 05WYOMIN	242857	05WYOMX2	2	2 765/138	205	AEP	792	855 Base Case	0	262.3	-	33.12	0	0.05%	0.05%	0.07%	
647	7 242517 05WYOMIN	765	242856 05WYOMX1	138 1	242517 05WYOMIN	242856	05WYOMX1	1	765/138	205	AEP	792	855 Base Case	0	262.3	-	33.12	0	0.05%	0.05%	0.07%	
648	3 243491 05CORRID	138	243510 05GAHANN	138 1	243491 05CORRID	243510	05GAHANN	1	138	8 205	AEP	335	392 Base Case	0	110.9	-	33.1	0	0.02%	0.02%	0.00%	
649	243132 05TORREY1	138	245697 05TORREY2	138 Z1	243132 05TORREY1	245697	05TORREY2	Z1	138	8 205	AEP	219	255 Base Case	0	72.4	-	33.05	0	-0.03%	-0.03%	0.08%	
650	0 253090 09WMILTN	345	253089 09WMILTN	138 1	253090 09WMILTN	253089	09WMILTN	1	345/138	209	DAY	450	495 Base Case	0	148.6	-	33.02	0	0.00%	0.00%	0.03%	
651	1 253090 09WMILTN	345	253089 09WMILTN	138 2	253090 09WMILTN	253089	09WMILTN	2	345/138	209	DAY	450	495 Base Case	0	148.6	-	33.02	0	0.00%	0.00%	0.03%	
652	2 242937 05KAMMER	345	246108 05KAMMER24	138 33	242937 05KAMMER	246108	05KAMMER24	33	345/138	205	AEP	747	747 Base Case	0	246.5	-	33	0	-0.19%	-0.19%	0.30%	
653	3 238915 02LRN Q2	138	238918 02SLTRQ2	138 1	238915 02LRN Q2	238918	02SLTRQ2	1	138	8 202	ATSI	265	316 Base Case	0	87.3		32.93	0	-0.28%	-0.28%	-0.03%	
654	4 250082 08P.UN1	138	250096 08SEWARD	138 1	250082 08P.UN1	250096	08SEWARD	1	138	8 212	DEO&K	291	291 Base Case	0	95.6	-	32.86	0	0.01%	0.01%	0.00%	
655	5 238782 02HANNA	138	239178 02WRAVNA	138 2	238782 02HANNA	239178	02WRAVNA	2	138	8 202	ATSI	324	395 Base Case	0	106.3	-	32.82	0	0.05%	0.05%	-0.01%	
656	5 238952 02MCD +	138	239008 02NILES	138 1	238952 02MCD +	239008	02NILES	1	138	8 202	ATSI	196	228 Base Case	0	-64.3	-	32.79	0	0.04%	0.04%	0.00%	
657	7 243456 05CORRID	345	246752 05VASSEL	345 1	243456 05CORRID	246752	05VASSEL	1	. 34!	5 205	AEP	1245	1245 Base Case	0	-407.1	12	32.7	0	0.16%	0.16%	0.04%	
658	3 243315 05ILLINO	138	243316 05INDUST PK1	138 1	243315 05ILLINO	243316	05INDUST PK1	1	. 138	8 205	AEP	251	335 Base Case	0	82.1	-	32.7	0	-0.02%	-0.02%	0.03%	
659	242960 05BETHLM	138	242969 05BRUES2	138 1	242960 05BETHLM	242969	05BRUES2	1	. 138	8 205	AEP	329	361 Base Case	0	-107.5	-	32.67	0	0.01%	0.01%	0.09%	
660	242956 05BALLHL	138	244095 05SUMMRFD BP	138 1	242956 05BALLHL	244095	05SUMMRFD BP	1	. 138	8 205	AEP	205	284 Base Case	0	67	-	32.67	0	-0.18%	-0.18%	0.05%	
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661 238914 02LRCRQ3	138 239039 02PGTP11	138 1	238914 02LRCRQ3	239039	02PGTP11		1 138	202 ATSI	148	151	Base Case	0	48.3	2	32.64	0	0.12%	0.12%	-0.03%
662 238878 02LB Q12	138 240252 02LMQ-12	138 1	238878 02LB 012	240252	02LMQ-12		1 138	202 ATSI	148	151	Base Case	0	48.3	-	32.63	0	0.01%	0.01%	0.00%
663 242949 05WMILLP	345 243150 05WMILLP	138 2	242949 05WMILLP	243150	05WMILLP		2 345/138	205 AEP	500	540	Base Case	0	163.1	-	32,63	0	0.01%	0.01%	0.04%
664 243105 05SMTLLB	138 243151 05WMTLLS	138 1	243105 05SMTLLB	243151	05WMTLLS		1 138	205 AEP	185	243	Base Case	0	60.3	-	32.62	0	-0.27%	-0.27%	0.04%
665 249996 08CLBMT1	138 249997 08CLBMT2	138 21	249996 08CLBMT1	249997	08CLBMT2	21	138	212 DEO&K	394	394	Base Case	0	-128 4	-	32 6	0	0.03%	0.03%	0.03%
666 238581 02PPPPTN	138 239123 020TAD	138 2	239591 02808000	230123	020010112		2 139	202 ATET	208	256	Base Case	0	-67.7	-	32.56	0	-0.04%	-0.04%	0.00%
667 238581 02BRBRIN	130 239123 UZSTAR	130 2	230301 02BRBRIN	239123	OODTUTON		1 130	202 A151	170	200	Dase Case	0	-07.7		32.30	0	-0.04%	-0.04%	0.00%
667 238636 02CPPW41	138 238660 02DIVISN	130 1	238636 02CPPW41	230000	OZDIVISN		1 130	202 AISI	170	193	Base Case	0	55.5	-	32.55	0	-0.22%	-0.22%	-0.01%
666 243064 USNPROCT	138 243675 USBELLFI	138 1	243064 05NPROCT	243675	ODRETTLI		1 138	205 AEP	136	107	Base Case	0	44.2	-	32.53	0	0.05%	0.05%	0.03%
669 238563 02BAY SH	345 241901 02LALLENDORF	345 1	238563 02BAY SH	241901	02LALLENDORF		1 345	202 ATSI	1486	1824	Base Case	0	-483	-	32.5	0	-0.79%	-0.79%	-0.06%
670 242528 05SPORN	345 242940 05MUSKNG	345 1	242528 05SPORN	242940	05MUSKNG		1 345	205 AEP	1188	1539	Base Case	0	386.1	-	32.5	0	-0.81%	-0.81%	1.11%
6/1 244095 05SUMMRFD_BP	138 247757 05HERLAN SW	138 1	244095 05SUMMRFD_BP	247757	05HERLAN SW		1 138	205 AEP	205	284	Base Case	0	66.6	-	32.49	0	-0.18%	-0.18%	0.05%
672 242843 05WLAKE	138 243951 05REDWOOD	138 1	242843 05WLAKE	243951	05REDWOOD		1 138	205 AEP	296	392	Base Case	0	-96.1	-	32.48	0	0.00%	0.00%	0.39%
673 247130 05HOLLOW	345 247849 05HOLLOW_XFL	138 1	247130 05HOLLOW	247849	05HOLLOW_XFL		1 345/138	205 AEP	680	881	Base Case	0	220.7	-	32.46	0	0.04%	0.04%	-0.06%
674 250029 08FOSTER	138 250119 08TWYMI1	138 1	250029 08FOSTER	250119	08TWYMI1		1 138	212 DEO&K	298	298	Base Case	0	96.7	-	32.45	0	0.05%	0.05%	0.03%
675 243068 05NZANEV	138 243075 05POWELS	138 1	243068 05NZANEV	243075	05POWELS		1 138	205 AEP	205	284	Base Case	0	-66.5	-	32.42	0	-0.06%	-0.06%	-0.06%
676 242528 05SPORN	345 242808 05SPORNS	138 4	242528 05SPORN	242808	05SPORNS		4 345/138	205 AEP	545	611	Base Case	0	176.3	-	32.35	0	0.07%	0.07%	0.00%
677 243856 05JUG ST 1-6	138 246385 05JUGST 7-11	138 Z1	243856 05JUG ST 1-6	246385	05JUGST 7-11	Z1	138	205 AEP	548	601	Base Case	0	177.3	-	32.35	0	0.00%	0.00%	0.00%
678 239237 02CLVR-S	138 239341 02LEGEND	138 1	239237 02CLVR-S	239341	02LEGEND		1 138	202 ATSI	200	242	Base Case	0	-64.6	-	32.3	0	0.25%	0.25%	0.04%
679 243774 050RMET	138 246108 05KAMMER24	138 1	243774 050RMET	246108	05KAMMER24		1 138	205 AEP	296	398	Base Case	0	95.5	-	32.28	0	-0.06%	-0.06%	-0.06%
680 243774 050RMET	138 246108 05KAMMER24	138 4	243774 050RMET	246108	05KAMMER24		4 138	205 AEP	296	296	Base Case	0	95.5	-	32.28	0	-0.06%	-0.06%	-0.06%
681 243774 050RMET	138 246108 05KAMMER24	138 3	243774 050RMET	246108	05KAMMER24		3 138	205 AEP	296	296	Base Case	0	95.5	-	32.28	0	-0.06%	-0.06%	-0.06%
682 243774 050RMET	138 246108 05KAMMER24	138 2	243774 050RMET	246108	05KAMMER24		2 138	205 AEP	296	398	Base Case	0	95.5	-	32.28	0	-0.06%	-0.06%	-0.06%
683 238934 02LYQ-12	138 240252 02LMQ-12	138 1	238934 02LYQ-12	240252	02LMQ-12	3	1 138	202 ATSI	103	132	Base Case	0	-33.2	-	32.25	0	0.01%	0.01%	0.00%
684 239726 02LAKEAVE	138 239728 02BLKRVR	138 2	239726 02LAKEAVE	239728	02BLKRVR		2 138	202 ATSI	312	380	Base Case	0	100.6	-	32.24	0	-0.15%	-0.15%	-0.02%
685 238796 02HGHLND	345 238797 02HGHLND	138 3	238796 02HGHLND	238797	02HGHLND		3 345/138	202 ATSI	532	597	Base Case	0	171.5		32.23	0	-0.02%	-0.02%	-0.04%
686 238794 02HDG013	138 238923 02LTE013	138 1	238794 02HDG013	238923	02LTE013		1 138	202 ATST	425	522	Base Case	0	136.9	-	32.21	0	0.01%	0.01%	0.00%
687 242564 05BBADL1	138 247333 05PAX BRANCH	138 1	242564 05BBADL1	247333	05PAX BRANCH		1 138	205 AEP	205	284	Base Case	0	-66	-	32.2	0	-0.09%	-0.09%	-0.24%
688 238797 02HGHLND	138 239120 0255PRNG	138 1	238797 02HGHLND	239120	02SSPRNG		1 138	202 105	277	337	Base Case	0	89.1	-	32 17	0	-0.15%	-0.15%	-0.01%
689 242762 05REEDCR	138 242798 05SHOPT	138 1	242762 05PEEDCP	242798	05SHOPT		1 138	205 AFP	205	205	Base Case	0	65.9	-	32.15	0	-0.01%	-0.01%	-0.05%
600 243031 051 VNN 7	139 242102 050K0K1	130 1	243031 051 XNN 7	2/3103	05 SKENTO		1 130	205 AFR	164	190	Base Case	0	52.7	_	32.15	0	-0.10%	-0.10%	-0.03%
691 250027 OPELDNO1	130 245105 055KENTO	120 71	243031 0311NN 2	243103	OPEL DNC2	77.1	1 120	212 DEOCK	104	100	Base Case	0	-120.2		32.13	0	-0.10%	0.04%	0.07%
691 230027 08FLANCI	130 242711 0EMADEMN1	130 1	230027 00F LRNCI	230020	OF LRIVC2	41	1 120	212 DEO&R	400	404	Base Case	0	-130.2		32.07	0	0.04%	0.04%	0.07%
692 242544 USAKION	138 242/11 USMARINI	130 1	242344 USAXION	242/11	OSMARINI	an	1 130	205 AEP	203	390	Base Case	0	90.7	_	32.06	0	-0.04%	-0.04%	0.50%
693 243669 USB SAND	138 243678 USBSANDX	138 SR	243669 05B SAND	243678	05BSANDX	SR	1 245	205 AEP	335	370	Base Case	0	107.4	-	32.05	0	0.04%	0.04%	-0.08%
694 239122 UZSTAR	345 239353 UZHARMON	345 1	239122 U2STAR	239353	02HARMON	-	1 345	202 ATS1	1366	1693	Base Case	0	-437.6		32.03	0	-0.03%	-0.03%	0.80%
695 243469 05BEATTY	138 243588 05WILSON	138 1	243469 05BEATTY	243588	05WILSON		1 138	205 AEP	223	223	Base Case	0	/1.3	-	31.99	0	-0.07%	-0.07%	0.00%
696 243522 05HARRISON	138 243550 050BETZ	138 1	243522 05HARRISON	243550	050BETZ		1 138	205 AEP	164	180	Base Case	0	52.5	-	31.99	0	-0.05%	-0.05%	0.06%
697 239008 02NILES	138 239299 02BRLAKE	138 1	239008 02NILES	239299	02BRLAKE	. S	1 138	202 ATSI	117	147	Base Case	0	37.4	-	31.98	0	0.10%	0.10%	-0.06%
698 253077 09STUART	345 253310 AC1-085 POI	345 1	253077 09STUART	253310	AC1-085 POI		1 345	209 DAY	1255	1374	Base Case	0	401.3		31.97	0	-0.07%	-0.07%	0.24%
699 239107 02SHNAGO	138 239934 02HEASLEY	138 1	239107 02SHNAGO	239934	02HEASLEY		1 138	202 ATSI	176	229	Base Case	0	56.2	-	31.95	0	-0.22%	-0.22%	0.00%
700 238574 02BELPT+	138 238964 02MLCRK+	138 1	238574 02BELPT+	238964	02MLCRK+		1 138	202 ATSI	160	192	Base Case	0	51.1	-	31.94	0	0.09%	0.09%	0.01%
701 238941 02MANSFD	345 253902 15BVRVAL	345 1	238941 02MANSFD	253902	15BVRVAL		1 345	202/215 ATSI/DLCO	1486	1739	Base Case	0	-474.4	-	31.92	0	-0.16%	-0.16%	0.16%
702 242665 05HANSON	138 242714 05MEADWV	138 1	242665 05HANSON	242714	05MEADWV		1 138	205 AEP	167	240	Base Case	0	53.3	-	31.92	0	-0.10%	-0.10%	-0.10%
703 239986 02NEWSTACY	138 246327 05NOTTINGH78	138 1	239986 02NEWSTACY	246327	05NOTTINGH78		1 138	202/205 ATSI/AEP	200	242	Base Case	0	-63.7	-	31.87	0	-0.13%	-0.13%	0.07%
704 238944 02MASURY	138 238948 02MAYSVL	138 1	238944 02MASURY	238948	02MAYSVL		1 138	202 ATSI	124	124	Base Case	0	39.5	-	31.86	0	-0.04%	-0.04%	0.00%
705 243019 05HILLSB	138 243102 05SINK SP8SS	138 1	243019 05HILLSB	243102	05SINK SP8SS		1 138	205 AEP	185	185	Base Case	0	-58.9	-	31.82	0	0.22%	0.22%	0.25%
706 243454 05BIXBY	345 246888 05BIERSR	345 1	243454 05BIXBY	246888	05BIERSR	3	1 345	205 AEP	1370	1503	Base Case	0	-435.7	-	31.8	0	-0.36%	-0.36%	0.63%
707 246606 05WETZEL SS	138 247002 05WAYMSS	138 1	246606 05WETZEL SS	247002	05WAYMSS		1 138	205 AEP	219	255	Base Case	0	-69.6	-	31.78	0	0.00%	0.00%	0.00%
708 238850 02JUNIPE	345 238841 02JNPRQ2	138 2	238850 02JUNIPE	238841	02JNPRQ2		2 345/138	202 ATSI	548	661	Base Case	0	174.1	-	31.77	0	0.02%	0.02%	0.05%
709 242697 05KUMIS	138 242708 05M FUNK	138 1	242697 05KUMIS	242708	05M FUNK		1 138	205 AEP	223	223	Base Case	0	-70.8	-	31.74	0	0.12%	0.12%	0.22%
710 239103 02SHARON	138 239934 02HEASLEY	138 1	239103 02SHARON	239934	02HEASLEY		1 138	202 ATSI	176	229	Base Case	0	-55.8	-	31.71	0	-0.01%	-0.01%	-0.01%
711 243232 05SORENS	345 243377 05SORENS	138 1	243232 05SORENS	243377	05SORENS		1 345/138	205 AEP	711	807	Base Case	0	225.3	_	31.69	0	0.04%	0.04%	0.02%
712 243518 05GROVES	138 246761 05THREEC	138 1	243518 05GROVES	246761	05THREEC		1 138	205 AEP	287	337	Base Case	0	-90.9	-	31.67	0	0.00%	0.00%	0.01%
713 242566 05BROADE	138 242567 05BROADX	138 ZB	242566 05BROADE	242567	05BROADX	ZB	138	205 AEP	348	407	Base Case	0	110.2	-	31.67	0	-0.19%	-0.19%	-0.33%
714 249988 088K.T135	138 250133 08WLDER2	138 1	249988 08BK.TI 35	250133	08WLDER2		1 138	212 DEOAK	186	186	Base Case	0	58 0	_	31 64	0	0.02%	0.02%	0.02%
715 242788 05SALTV1	138 246766 05FLKCAZ	138 1	242788 055at.TV1	246766	05ELKGAZ		1 130	205 AFP	446	100	Base Case	0	-141 1	_	31 62	0	-0 34%	-0 34%	-0.33%
716 238849 02.JRD014	138 239324 02CH	138 1	238849 02.TRD014	239304	0204	-	1 130	202 205	265	316	Base Case	0	-83 7		31 50	0	-0.13%	-0.13%	0.04%
717 238543 02549 2	138 239097 02000	138 1	238543 02384 2	239524	02CH		1 1 20	202 ATST	1.40	151	Baco Case	0	16 7		31 54	0	0.10%	0.10%	-0.02%
718 243228 05MEDIDM	345 243234 05mbith b	345 1	243228 05MEDIDN	20303/	OSTWIN P		1 3/1	202 AIGI	007	101	Base Case	0	-282 0		31 50	0	-0.50%	-0 50%	-0.42%
719 242527 053MOC	139 246392 0EMUDIED DD	120 1	243220 USMERTDN	243234	OSTIUDNED DE		1 120	205 AEP	206	200	Dase Case	0	-202.0		31 53	0	-0.50%	-0.01%	-0.19%
730 242337 USAMUS	150 240302 USTUKNEK BP	130 L	242337 USAMUS	240382	ANT 102 DOT		1 245	200 AEP	1412	1740	Dase case	0	93.3		21.53	0	-0.01%	0.01%	0.15%
120 240069 UZLORDSTOWN	345 241936 AA1-123_POI	345 L	24006902LORDSTOWN	241936	AAI-123_POI		1 345	202 ATSI	1413	1743	Base Case	0	-445.3	-	31.51	0	0.23%	0.23%	0.21%

A	B C D	E	F	G	н	J	К	L	М	N	0 P	Q	R	S	T U
721 238654 02DAV-BE 345 239289 02HAYES 345 1	238654 02DAV-BE 239	289 02HAYES		1 345	202 ATSI	1542	1878	Base Case	0	485.9	- 31	51	0 -1.79	6 -1.79%	-0.27%
722 235379 01NVIENA 138 243564 05RIVERV N. 138 1	235379 01NVIENA 243	564 05RIVERV N.		1 1.38	201/205 AP/AEP	240	277	Base Case	0	75.6	- 3	.5	0 0.12	6 0.12%	0.07%
723 238968 02MOORE 138 239083 02SAKRON 138 1	238968 02MOORE 230	183 02SAKBON		1 138	202 ATST	225	282	Base Case	0	70.8	- 31	47	0 -0.10	6 -0.10%	0.10%
724 245407 05TANNER CK2 138 246963 05WESISS 138 1	245407 05TANNER CK2 244	963 05WESLSS		1 138	205 AFR	213	255	Base Case	0	67	- 31	45	0 0.00	6 0.00%	0.02%
725 243047 05N DOPT 139 243097 056 THCA 139 1	243047 05N POPT 243	197 058 THCA	-	1 130	205 AFR	195	195	Base Case	0	_59 1	- 31	12	0 0.00	4 0.00%	-0.07%
725 243047 05N FORT 150 245007 055 LOCA 150 1	243047 05N FOR1 24	109 OFFAMMED24	77	120	205 AEF	747	747	Base Case	0	-224 5	- 51	20	0.00	0.00%	-0.01%
720 243026 05KAMMERIS 136 246106 05KAMMER24 136 21	243026 05KAMMER15 246	LOO OSKAMMERZA	21	130	203 AEF	747	747.	Base Case	0	-234.5	- 51	39	0 -0.08	-0.08%	-0.01%
727 243026 05KAMMERIS 138 246108 05KAMMER24 138 2K	243026 05RAMMERIS 246	LUO USKAMMERZ4	2K	130	205 AEP	/4/	747	Base Case	0	-234.5	- 31	39	0 -0.08	-0.08%	-0.01%
720 243485 05CLINTO 138 243529 05KENNY 138 1	243485 05CLINTO 24	DZ9 USKENNY		1 138	205 AEP	217	310	Base Case	0	-08.1	- 31	38	0 -0.10	6 -0.10%	-0.05%
729 250003 08CRLISL 138 250121 08UNION 138 1	250003 08CRLISL 250	121 08UNION	-	1 138	212 DEO&K	291	298	Base Case	0	-91.3	- 31	38	0 0.00	6 0.00%	0.00%
/30 244658 05GRNTWN 138 249796 08MAPLE 138 1	244658 05GRNTWN 249	796 08MAPLE		1 138	205/208 AEP/DEI	178	178	Base Case	0	55.8	- 31	34	0 0.01	6 0.01%	-0.05%
/31 238893 02LF Q-2 138 239002 02NFLDQ2 138 1	238893 02LF Q-2 239	002 02NFLDQ2	1	1 138	202 ATSI	176	229	Base Case	0	-55.1	- 31	32	0 -0.15	6 -0.15%	0.04%
732 239008 02NILES 138 239120 02SSPRNG 138 1	239008 02NILES 239	120 02SSPRNG		1 138	202 ATSI	240	310	Base Case	0	75.1	- 31	28	0 -0.13	6 -0.13%	-0.01%
733 243484 05CITYCO 138 243584 05VINE 138 1	243484 05CITYCO 243	584 05VINE	1	1 138	205 AEP	251	274	Base Case	0	-78.4	- 31	25	0 0.00	6 0.00%	0.00%
734 246889 05BIERSR 138 246890 05HOPETN 138 1	246889 05BIERSR 246	890 05HOPETN	1	1 138	205 AEP	389	5591	Base Case	0	121.5	- 31	23	0 -0.01	6 -0.01%	0.00%
735 243263 05COLUMBIA 138 243361 05RABER 138 1	243263 05COLUMBIA 243	361 05RABER	1	1 138	205 AEP	136	167	Base Case	0	-42.5	- 31	22	0 0.07	6 0.07%	0.06%
736 242622 05DARRH2 138 242866 05MERRIT 138 1	242622 05DARRH2 242	866 05MERRIT		1 138	205 AEP	167	167	Base Case	0	52.1	- 31	22	0 -0.07	6 -0.07%	-0.05%
737 239334 02L.CENTER 345 239112 02LRCRQ1 138 1	239334 02L.CENTER 239	112 02LRCRQ1	1	1 345/138	202 ATSI	688	849	Base Case	0	214.7	- 31	21	0 0.00	6 0.00%	-0.03%
738 243282 05DREWER 138 243382 05TANNER CK1 138 1	243282 05DREWER 243	382 05TANNER CK1	1	1 138	205 AEP	213	280	Base Case	0	-66.4	- 31	18	0.00	6 0.00%	0.02%
739 238532 02ALLNJB 138 240978 02AJ-MOD 138 ZL	238532 02ALLNJB 240	978 02AJ-MOD	ZL	138	202 ATSI	160	192	Base Case	0	49.9	- 31	16	0 -0.07	-0.07%	0.01%
740 253012 09CENTER 138 253112 09TAP822 138 1	253012 09CENTER 253	112 09TAP822	1	1 138	209 DAY	301	374	Base Case	0	-93.8	- 31	16	0 0.02	6 0.02%	0.03%
741 253078 09SUGRCK 138 253112 09TAP822 138 1	253078 09SUGRCK 253	112 09TAP822		1 138	209 DAY	301	374	Base Case	0	93.8	- 31	16	0 0.02	6 0.02%	0.03%
742 250043 08HANDS2 138 250148 08EKPWEB 138 1	250043 08HANDS2 250	148 OSEKPWEB	1	1 138	212 DEO&K	301	301	Base Case	0	-93.5	- 31	08	0 0.03	6 0.03%	0.08%
743 242663 05HANCK1 138 242764 05RES 138 1	242663 05HANCK1 242	764 05RES	1	1 138	205 AEP	219	231	Base Case	0	68	- 31	07	0 0.00	6 0.00%	0.00%
744 244930 05NEW CARLI1 138 247489 05BOSSERMAN 138 1	244930 05NEW CARLI1 24	489 05BOSSERMAN		1 138	205 AEP	187	240	Base Case	0	58.1	- 31	05	0 0.12	6 0.12%	0.08%
745 243092 05SCANTO 138 243776 05S.TIMK 138 1	243092 05SCANTO 243	776 05S.TIMK	1	1 138	205 AEP	287	337	Base Case	0	89	- 31	01	0 -0.07	6 -0.07%	0.02%
746 243211 05ALLEN 345 243242 05ALLEN 138 2	243211 05ALLEN 243	242 05ALLEN		2 345/138	205 AEP	712	764	Base Case	0	220.7	-	31	0 -0.03	6 -0.03%	-0.03%
747 238631 02CNTRAL 138 238952 02MCD + 138 1	238631 02CNTRAL 238	952 02MCD +	-	1 138	202 ATST	200	242	Base Case	0	-62	- 30	98	0 0.04	6 0.04%	0.00%
748 243313 05HINT T 138 249759 08HNTNGT 138 1	243313 05HUNT T 249	759 08HNTNGT		1 138	205/208 AEP/DET	178	178	Base Case	0	55 1	- 30	96	0 0.06	6 0.06%	0.00%
740 243313 05M0N1 0 130 249739 00MN1N31 130 1	243313 05M0N1 0 24	159 05HVATT		1 245	205/200 AEF/DET	1166	1225	Dase Case	0	360 9	- 30	94	0 -0.46	6 0.00%	-0.24%
749 242339 05MARISV 545 246900 05MIAII 545 1	242959 05MARISV 24	ADD OFFICE		1 245/120	205 AEF	1100	1006	Base Case	0	274 4	- 50	0.2	0 -0.40	0.40%	-0.24%
750 240000 USBIERSK 545 240009 USBIERSK 150 1	240000 UJBIERSK 240	DOG OFWIDODE	-	1 343/130	205 AEP	105	105	Base Case	0	57.0	- 30	93	0 0.00	0.00%	0.07%
751 243019 05HILLSB 138 246946 05WLDCAT 138 1	243019 05HILLSB 240	946 USWLDCAT		1 138	205 AEP	185	105	Base Case	0	-37.2	- 30	91	0 -0.09	0.17%	-0.02%
752 242523 05BARER 345 247226 05F00THL 345 1	242523 USBAKER 24	226 USFOOTHL		1 345	205 AEP	896	896	Base Case	0	-2//	- 30	91	0 -0.17	6 -0.17%	-0.17%
753 243064 05NPROCT 138 247277 05WNDSR2 138 1	243064 05NPROCT 24	277 USWNDSRZ		1 138	205 AEP	167	167	Base Case	0	51.6	- 3	.9	0 -0.02	6 -0.02%	0.10%
754 242645 05FREMO2 138 243671 05BEAVER CR1 138 1	242645 05FREMO2 24	671 05BEAVER CRI	-	1 138	205 AEP	223	310	Base Case	0	68.9	- 30	89	0 0.03	6 0.03%	0.18%
755 243280 05DRAGN 138 243281 05DRAGNZ 138 1	243280 05DRAGN 243	281 05DRAGNZ	-	1 138	205 AEP	164	180	Base Case	0	-50.5	- 30	82	0 0.00	6 0.00%	0.00%
756 243457 05HAYDEN 345 243458 05HYATT 345 1	243457 05HAYDEN 243	458 05HYATT		1 345	205 AEP	1239	14291	Base Case	0	-381.6	- 3	0.8	0 0.37	6 0.37%	-0.07%
757 253014 09CLINTO 345 253027 09GREENE 345 1	253014 09CLINTO 253	027 09GREENE	1	1 345	209 DAY	1255	1374	Base Case	0	386.4	- 30	79	0 -0.11	6 -0.11%	0.19%
758 243143 05WBELLA 138 246108 05KAMMER24 138 1	243143 05WBELLA 246	108 05KAMMER24	3	1 138	205 AEP	296	398	Base Case	0	-91.1	- 30	.77	0 -0.27	6 -0.27%	0.07%
759 238731 02FOX 345 238733 02FOXQ12 138 5	238731 02FOX 238	733 02FOXQ12	5	5 345/138	202 ATSI	397	488	Base Case	0	122.1	- 30	.77	0 0.19	6 0.19%	0.02%
760 243232 05SORENS 345 243377 05SORENS 138 2	243232 05SORENS 243	377 05SORENS	1	2 345/138	205 AEP	713	765	Base Case	0	219.4	- 30	76	0 0.04	6 0.04%	0.02%
761 239093 02SAMMIS 138 240218 02GUILFORD 138 1	239093 02SAMMIS 240	218 02GUILFORD	1	1 138	202 ATSI	217	274	Base Case	0	66.7	- 30	74	0 0.09	6 0.09%	0.01%
762 253069 09SHELBY 345 253068 09SHELBY 138 1	253069 09SHELBY 253	068 09SHELBY	0	1 345/138	209 DAY	448	493	Base Case	0	137.2	- 30	62	0.00	6 0.00%	-0.01%
763 253069 09SHELBY 345 253068 09SHELBY 138 2	253069 09SHELBY 253	068 09SHELBY	1	2 345/138	209 DAY	448	493	Base Case	0	137.2	- 30	62	0 0.00	6 0.00%	-0.01%
764 239092 02SAMMIS 345 241936 AA1-123_POI 345 1	239092 02SAMMIS 241	936 AA1-123_POI	1	1 345	202 ATSI	1413	1743	Base Case	0	-432.2	- 30	58	0 -0.78	-0.78%	-0.76%
765 242524 05CLOVRD 345 242607 05CLOVRD 138 3	242524 05CLOVRD 242	607 05CLOVRD	1	3 345/138	205 AEP	696	747	Base Case	0	212.7	- 30	55	0 0.21	6 0.21%	-0.41%
766 239134 02TANGY 138 239218 02SSCIOT 138 1	239134 02TANGY 239	218 02SSCIOT	1	1 138	202 ATSI	278	339	Base Case	0	84.9	- 30	55	0 -0.02	6 -0.02%	0.08%
767 249989 08BKJ246 138 250158 088MIRDJ 138 1	249989 08BKJ246 250	158 088MIRDJ	1	1 138	212 DE0&K	309	332	Base Case	0	94.3	- 30	53	0 0.04	6 0.04%	0.04%
768 247527 05COVERT 345 247803 05SEGRETO 345 1	247527 05COVERT 24	303 05SEGRETO		1 345	205 AEP	1820	2457	Base Case	0	555.1	- 3	0.5	0 0.03	6 0.03%	-0.26%
769 241901 02LALLENDORE 345 242936 05FOSTOR 345 1	241901 02LALLENDORE 242	936 05FOSTOR		1 345	202/205 ATST/AEP	1409	1409	Base Case	0	428.9	- 30	44	0 -0.09	6 -0.09%	-0.64%
770 238644 02CW 0-3 138 238672 02DW 0-3 138 1	238644 02CW 0-3 239	672 02DW 0-3		1 138	202 ATST	273	332	Base Case	0	82.9	- 30	36	0 -0.19	6 -0.19%	-0.02%
771 243087 055 LUCA 138 243140 05WAKEFI. 138 1	243087 055 LUCA 243	140 05WAKEFL	-	1 130	205 AEP	219	223	Base Case	0	-66 5	- 30	36	0 0.00	6 0.00%	-0.07%
772 242989 05E LIMA 138 243083 05CAMPSS 139 1	242989 05E LIMA 24	183 05CAMPSS		1 129	205 AFP	219	223	Base Case	0	66 5	- 30	35	0 0.00	6 0.06%	0.10%
773 243127 05TIDD 1-2 138 243780 05TCDDT 129 71	243127 05TTDD 1-2 24	780 05FGDCDT	21	120	205 AEP	1.80	223	Base Case	0	54 5		1 3	0 0.00	6 0.00%	0.00%
774 243279 05555000 139 24370 05765551MAD 139 1	243279 0505000 243	272 OSCETMAD	<u>ل</u> انها	1 120	205 AEF	167	167	Page Case	0	50 C		20	0 -0.00	4 _0.02%	-0.03%
775 242514 OFT FERR 766 242575 USSELFIAP 138 1	243270 UDDESUTU 24:	COA OFT FEDD	-	1 138	205 AEP	10/	10/	Dase Case	0	210.0		20	0 -0.03	0.03%	0.10%
776 250120 00D00KTP 120 250162 00C3DWDD 120 1	242514 USJ.FERK 242	DO4 USU.FERR	+ 2	2 /05/138	203 AEP	696 E1C	500	Dase Case	0	210.8	- 30	28	0 0.02	0.02%	0.19%
777 050004 00000000 138 250162 08GARVER 138 1	250139 U8ROCKIE 250	LOZ USGARVER	-	138	212 DEO&K	516	582	Base Case	0	-136.1	- 30	23	0.06	· -U.Ub%	-0.00%
770 041007 00000 138 250117 08TRMNL1 138 1	250024 USFINTWN 250	LI/USTRMNL1	1	138	212 DE0&K	266	266	base Case	0	-80.4	- 30	23	0 0.01	0.01%	0.00%
1/8 241927 02AVQ1 138 241928 02AVQ2 138 1	241927 02AVQ1 241	928 UZAVQ2		138	202 ATSI	999	9991	Base Case	0	-301.7	- 3	.2	0 -0.68	6 -0.68%	-0.08%
//9 245797 05W.CANTON2 138 246471 05MILES AVE 138 1	245797 05W.CANTON2 246	471 05MILES AVE	-	1 138	205 AEP	251	335	Base Case	0	-75.7	- 30	17	0 -0.08	6 -0.08%	0.05%
780 243675 05BELLF1 138 243676 05BELLF2 138 Z1	243675 05BELLF1 243	676 05BELLF2	Z1	138	205 AEP	285	368	Base Case	0	-85.9	- 30	13	0 0.01	6 0.01%	0.12%

A	ВС	D E	F	G	НІ	J	K L	М	N	0 P	Q	R	S	T U
781 243211 05ALLEN 345 243242 05ALLEN 138 1	243211 05ALLEN :	243242 05ALLEN	1	345/138	205 AEP	504	572 Base Case	0	151.7	- 30.11	C	-0.02%	-0.02%	-0.02%
782 243500 05DUCKCR 138 247809 05LEVEE 138 1	243500 05DUCKCB	247809 05LEVEE	1	138	205 AEP	282	282 Base Case	0	-84.7	- 30.04	0	0.27%	0.27%	0.20%
783 238957 02MELDO2 138 239046 02PN 0-2 138 1	238957 02MELDO2	239046 02PN 0-2	1	138	202 ATST	103	115 Base Case	0	-30.9	- 30.01	0	0.12%	0.12%	-0.04%
784 230133 02TANCY 345 230134 02TANCY 138 4	239133 02TANGY	239134 02TANCY	4	345/138	202 ATSI	383	473 Base Case	0	114 8	- 29.99	0	0.02%	0.02%	0.07%
785 243262 05COLLECE C 139 250106 08TODULTE 139 1	243262 05COLLECE C	250106 0870DU TT	1	139	205/212 AFB/DEOCK	195	257 Base Case	0	55 5	- 29.99		-0.02%	-0.09%	-0.04%
785 243262 05COLLEGE C 136 250100 0610DH01 130 1	243202 OSCOLLEGE C	247222 05400000	1	120	205/212 AEF/ DEGR	164	190 Base Case	0	10.2	- 29.90		0.00%	0.00%	0.00%
700 243522 05HARRISON 156 247255 05HARIS6 156 1	243522 05HARRISON	247233 UJHARI30	1	130	203 AEF	204	100 Base Case	0	49.2	- 29.97		0.00%	0.00%	0.00%
767 238684 UZEASTLK 345 238685 UZEASTLK 138 62	238684 02EASTLK	236665 UZEASTLK	02	345/130	202 A151	/04	900 Base Case	0	233	- 29.97		0.11%	0.11%	-0.04%
760 239133 UZTANGI 345 239134 UZTANGI 138 3	239133 02TANGI	239134 UZTANGI	3	345/138	202 ATS1	383	4/4 Base Case	0	114.5	- 29.9		0.02%	0.02%	0.07%
789 242997 05E.NEWCONCZ 138 243144 05WCAMBR 138 1	242997 USE.NEWCONCZ	243144 USWCAMBR	1	138	205 AEP	296	378 Base Case	0	88.2	- 29.81	U	-0.15%	-0.15%	0.10%
790 238753 02GFQ-11 138 238921 02LTEQ11 138 1	238753 02GFQ-11	238921 02LTEQ11	1	138	202 ATSI	425	522 Base Case	0	126.7	- 29.81	C	0.01%	0.01%	0.02%
/91 243012 05G WASHGTON 138 243049 05NATRIUM12 138 1	243012 05G WASHGTON 2	243049 05NATRIUM12	1	138	205 AEP	187	205 Base Case	0	55.7	- 29.79	C	0.13%	0.13%	-0.11%
792 238546 02ASQ-11 138 241927 02AVQ1 138 1	238546 02ASQ-11 :	241927 02AVQ1	1	138	202 ATSI	265	316 Base Case	0	-78.9	- 29.78	C	-0.19%	-0.19%	-0.02%
793 242600 05CLAYPL 138 242766 05RICHLA 138 1	242600 05CLAYPL :	242766 05RICHLA	1	138	205 AEP	296	366 Base Case	0	88.1	- 29.78	C	0.06%	0.06%	0.19%
794 243479 05BROOKS 138 243566 05SAWMIL 138 1	243479 05BROOKS	243566 05SAWMIL	1	138	205 AEP	389	559 Base Case	0	-115.7	- 29.75	C	0.04%	0.04%	0.00%
795 243456 05CORRID 345 246752 05VASSEL 345 2	243456 05CORRID :	246752 O5VASSEL	2	345	205 AEP	1370	1503 Base Case	0	-407.1	- 29.72	C	0.16%	0.16%	0.04%
796 242712 05MARTN2 138 242816 05STOCKT 138 1	242712 05MARTN2	242816 05STOCKT	1	138	205 AEP	283	366 Base Case	0	-84.1	- 29.71	C	-0.03%	-0.03%	0.25%
797 243212 05BENTON 345 247803 05SEGRETO 345 1	243212 05BENTON	247803 05SEGRETO	1	345	205 AEP	1409	1868 Base Case	0	-418.3	- 29.68	C	0.59%	0.59%	-0.02%
798 242832 05TOLER 138 242855 05WYOMIN 138 1	242832 05TOLER :	242855 05WYOMIN	1	138	205 AEP	329	361 Base Case	0	-97.4	- 29.6	C	0.13%	0.13%	0.31%
799 246409 05CABIN C T8 138 246421 05CABNC8_XFL 138 Z1	246409 05CABIN C T8	246421 05CABNC8_XFL	Z1	138	205 AEP	113	136 Base Case	0	33.4	- 29.6	C	0.00%	0.00%	0.01%
800 238646 02CW TP3 138 240365 02LRN Q3 138 1	238646 02CW TP3	240365 02LRN Q3	1	138	202 ATSI	273	332 Base Case	0	80.8	- 29.59	C	-0.26%	-0.26%	-0.03%
801 242960 05BETHLM 138 242985 05CNTYLN 138 1	242960 05BETHLM	242985 05CNTYLN	1	138	205 AEP	329	361 Base Case	0	97.3	- 29.58	C	0.01%	0.01%	0.09%
802 245539 05H0LLOWAY56 138 247849 05H0LLOW XFL 138 1	245539 05HOLLOWAY56	247849 05HOLLOW XFL	1	138	205 AEP	747	747 Base Case	0	-220.6	- 29.53	C	0.04%	0.04%	-0.06%
803 242650 05GLENL1 138 242760 05PROGPK 138 1	242650 05GLENL1 :	242760 05PROGPK	1	138	205 AEP	285	337 Base Case	0	-84.1	- 29.51	C	-0.09%	-0.09%	0.00%
804 243481 05CANAL 138 243539 05MARION 138 1	243481 05CANAL	243539 05MARION	1	138	205 AEP	124	167 Base Case	0	-36.6	- 29.51	C	0.02%	0.02%	0.06%
805 238654 02DAV-BE 345 907200 AD1-103 TAP 345 1	238654 02DAV-BE	907200 AD1-103 TAP	1	345	202 ATSI	1435	1742 Base Case	0	422.7	- 29.46	C	-1.85%	-1.85%	-0.27%
806 243283 05DUNLAP 138 243290 05ELCONZ 138 1	243283 05DUNLAP	243290 05ELCONZ	1	138	205 AEP	243	243 Base Case	0	-71.5	- 29.42	c	-0.02%	-0.02%	-0.01%
807 238840 02JNPR01 138 239001 02NFLD01 138 1	238840 02JNPR01	239001 02NFLD01	1	1.38	202 ATSI	273	332 Base Case	0	80.2	- 29.38	0	-0.14%	-0.14%	0.05%
808 253049 09MONUM1 138 253062 090VEBL1 138 1	253049 09MONUM1	253062 090VEBL1	1	138	209 DAY	301	374 Base Case	0	-88.4	- 29.37	0	0.05%	0.05%	0.05%
809 243500 05DUCKCR 138 243543 05MTLLCR 138 1	243500 05DUCKCB	243543 05MTLLCB	1	138	205 AEP	240	282 Base Case	0	70.4	- 29.34	0	0.27%	0.27%	0.20%
810 243311 05ARN HOGAN 138 247420 05CROSS ST Z 138 1	243311 05ARN HOGAN	247420 05CROSS ST Z	1	138	205 AEP	205	278 Base Case	0	-60.1	- 29.34	0	-0.01%	-0.01%	0.06%
811 239083 0252KRON 138 239198 02CONGRS 138 1	239083 0252KRON	239198 02CONGRS	1	138	202 ATST	200	242 Base Case	0	-58.7	- 29.33	0	0.12%	0.12%	0.01%
812 243224 O5KENZTE 345 243234 O5TWIN B 345 1	243224 05KENZIE	243234 05TWIN B	1	345	205 AEP	1409	1409 Base Case	0	413 3	- 29.33	0	-0.15%	-0.15%	-0.27%
813 238608 02Capiti 138 239314 02NaTEDN7 138 1	238608 02CAPLTL	239314 02NATERN7	1	138	202 ATST	233	282 Base Case	0	68 3	- 29.33	0	-0.22%	-0.22%	0.00%
814 238025 02NV 011 139 240352 02DM2011 139 1	239025 02NX 011	240352 020M2011	1	130	202 ATST	233	202 Dase case	0	_00.5	- 20.32		0.08%	0.08%	-0.02%
915 240005 00DECVET 130 240332 02FM2Q11 130 1	239023 02NI QII .	240332 02PM2Q11	1	120	202 AISI 212 DEOCK	273	332 Base Case	0	-00	- 29.32		0.08%	0.08%	-0.02%
015 249985 08BECKET 138 250082 08P.UNI 138 1	249985 08BECKET	250082 08P.UNI	1	138	212 DEO&K	302	302 Base Case	0	88.5	- 29.32		-0.02%	-0.02%	-0.06%
818 253017 09CROWN 138 253057 090HH 138 1	253017 09CROWN	253057 090HH	1	138	209 DAY	191	234 Base Case	0	- 36	- 29.31	L L	0.01%	0.01%	0.05%
817 238941 02MANSFD 345 253936 15CRESCN 345 1	238941 UZMANSFD	253936 ISCRESCN	1	345	202/215 ATS1/DLCO	1244	1411 Base Case	0	364.5	- 29.3	L	-0.21%	-0.21%	-0.23%
818 238861 02KIRBY 138 239218 02SSCIOT 138 1	238861 02KIRBY :	239218 02SSCIOT	1	138	202 ATSI	278	339 Base Case	0	-81.4	- 29.3	C	-0.02%	-0.02%	0.08%
819 238569 02BEAVER 345 907200 AD1-103 TAP 345 1	238569 02BEAVER !	90/200 AD1-103 TAP	1	345	202 ATSI	1435	1742 Base Case	0	-420.4	- 29.3	C	-1.85%	-1.85%	-0.27%
82U 242962 05BLDBGZ 138 243070 05OHIOCT 138 1	242962 05BLDBGZ :	243070 050HIOCT	1	138	205 AEP	205	255 Base Case	0	-60	- 29.26	0	0.02%	0.02%	0.09%
821 243233 05TANNER 345 245409 05TAN CK_5SZ 138 5	243233 05TANNER :	245409 05TAN CK_5SZ	5	345/138	205 AEP	570	579 Base Case	0	166.7	- 29.24	0	0.05%	0.05%	0.07%
822 243382 05TANNER CK1 138 245409 05TAN CK_5SZ 138 ZK	243382 05TANNER CK1 :	245409 05TAN CK_5SZ	ZK	138	205 AEP	285	368 Base Case	0	-83.3	- 29.23	C	0.03%	0.03%	0.04%
823 245407 05TANNER CK2 138 245409 05TAN CK_5SZ 138 ZJ	245407 05TANNER CK2 :	245409 05TAN CK_5SZ	ZJ	138	205 AEP	285	368 Base Case	0	-83.3	- 29.23	C	0.03%	0.03%	0.04%
824 243472 05BEXLEY 138 243518 05GROVES 138 1	243472 05BEXLEY :	243518 05GROVES	1	138	205 AEP	335	392 Base Case	0	-97.8	- 29.19	C	0.03%	0.03%	0.03%
825 238731 02FOX 345 238734 02FOXQ13 138 3	238731 02FOX	238734 02FOXQ13	3	345/138	202 ATSI	423	478 Base Case	0	123.4	- 29.17	C	0.19%	0.19%	0.02%
826 242508 05AMOS 765 247504 05AMOS 5 XFL 345 5	242508 05AMOS :	247504 05AMOS_5_XFL	5	765/345	205 AEP	1587	1752 Base Case	0	462.7	- 29.16	C	-0.24%	-0.24%	-0.17%
827 239122 02STAR 345 239123 02STAR 138 2	239122 02STAR 2	239123 02STAR	2	345/138	202 ATSI	559	660 Base Case	0	162.9	- 29.14	C	0.00%	0.00%	-0.02%
828 243080 05RILEYC 138 243083 05CAMPSS 138 1	243080 05RILEYC :	243083 05CAMPSS	1	138	205 AEP	223	223 Base Case	0	-64.9	- 29.11	C	0.06%	0.06%	0.10%
829 239368 02TORONTO 345 239369 02TORONTO 138 2	239368 02TORONTO :	239369 02TORONTO	2	345/138	202 ATSI	618	731 Base Case	0	179.8	- 29.09	C	0.16%	0.16%	0.08%
830 238738 02FULTON 138 239128 02SWANTN 138 1	238738 02FULTON	239128 02SWANTN	1	138	202 ATSI	288	346 Base Case	0	83.7	- 29.06	C	-0.04%	-0.04%	0.01%
831 242551 05BELVA 138 242580 05CARBND 138 1	242551 05BELVA	242580 05CARBND	1	138	205 AEP	282	361 Base Case	0	-81.9	- 29.06	C	-0.31%	-0.31%	0.05%
832 242542 05ATKINS 138 242780 05RURALR 138 1	242542 05ATKINS	242780 05RURALR	1	138	205 AEP	251	330 Base Case	0	72.9	- 29.05	C	-0.19%	-0.19%	-0.33%
833 239042 02PIDGON 138 240218 02GUILFORD 138 1	239042 02PIDGON	240218 02GUILFORD	1	138	202 ATSI	217	274 Base Case	0	-63	- 29.04	C	0.09%	0.09%	0.01%
834 250029 08FOSTER 138 250150 08ENYART 138 1	250029 08FOSTER :	250150 08ENYART	1	138	212 DEO&K	298	298 Base Case	0	86.5	- 29.04	C	-0.01%	-0.01%	-0.03%
835 238916 02LRN Q4 138 239314 02NATBRNZ 138 1	238916 02LRN Q4	239314 02NATBRNZ	1	138	202 ATSI	225	295 Base Case	0	-65.3	- 29.04	C	-0.22%	-0.22%	0.00%
836 242674 05HUFFCK 138 242832 05TOLER 138 1	242674 05HUFFCK :	242832 05TOLER	1	138	205 AEP	329	361 Base Case	0	-95.5	- 29.03	C	0.13%	0.13%	0.31%
837 242508 05AMOS 765 242513 05CULLOD 765 1	242508 05AMOS	242513 05CULLOD	1	765	205 AEP	2312	2312 Base Case	0	671.1	- 29.03	C	-1.05%	-1.05%	-5.34%
838 238842 02JNPRQ3 138 239003 02NFLDQ3 138 1	238842 02JNPRQ3	239003 02NFLDQ3	1	138	202 ATSI	273	332 Base Case	0	79.1	- 28.98	C	-0.14%	-0.14%	0.04%
839 249570 08P.UNON 345 249577 08ZIMER 345 1	249570 08P.UNON	249577 08ZIMER	1	345	212 DE0&K	1492	1492 Base Case	0	-432.1	- 28.96	r.	-0.13%	-0.13%	-0.01%
840 243508 05ITALNV 138 243584 05VINE 138 1	243508 05TTALNV	243584 05VINE	1	138	205 AEP	261	376 Base Case	0	75 6	- 28.95	r	0.09%	0.09%	0.03%
				100		201		0		20.50		5.0570	2.0070	

			A		В	C	D	E	F	G	н	1	J	К	L	М	N	0	Р	Q	R	S	T U
841 238843 02J1	NPRQ4	138	239004 02NFLDQ4	138 1	238843	02JNPRQ4	239004	02NFLDQ4	1	138	202 ATS	I	273	332	Base Case	0	79	-	28.92	0	-0.14%	-0.14%	0.05%
842 243271 05CH	RYSTA	138	243308 05HICKRY CK1	138 1	243271	05CRYSTA	243308	05HICKRY CK1	1	138	205 AEP		187	240	Base Case	0	54	-	28.9	0	0.05%	0.05%	0.00%
843 244930 05NH	EW CARLI1	138	255152 17MAPLE	138 1	244930	05NEW CARLI1	255152	17MAPLE	1	138	205/217 AEP	/NIPS	136	138	Base Case	0	39.3	-	28.89	0	0.07%	0.07%	0.03%
844 246187 05W2	ARTON H2	138	247468 05CRICKET SS	138 1	246187	05WARTON H2	247468	05CRICKET SS	1	138	205 AEP		257	341	Base Case	0	-74.2	-	28.88	0	0.00%	0.00%	0.00%
845 239368 02TC	ORONTO	345	239369 02TORONTO	138 1	239368	02TORONTO	239369	02TORONTO	1	345/138	202 ATS	I	618	730	Base Case	0	178.5	-	28.88	0	0.16%	0.16%	0.08%
846 249986 08B	ELVIE	138	250140 08DAYTON	138 1	249986	08BELVUE	250140	08DAYTON	1	138	212 DEO/	¢K	298	298	Base Case	0	-86	-	28.86	0	-0.01%	-0.01%	0.00%
847 243215 05CC	00K	345	243223 05.14CKSON BD	345 1	243215	050008	243223	05.TACKSON RD	1	345	205 AEP		971	971	Base Case	0	279 9	_	28.83	0	-0.04%	-0.04%	-0.09%
848 239070 028	TCHLD	138	239165 02WAUSEO	138 1	239070	02RTCHID	239165	02WAUSEO	1	138	202 205	т	158	190	Base Case	0	45.5	-	28.79	0	-0 14%	-0 14%	-0.01%
849 239334 02T	CENTER	245	239057 021 PCPO4	130 1	239334	021 CENTER	239103	02180804	2	345/129	202 ATS	T	747	910	Base Case	0	214 7		20.75	0	0.00%	0.00%	-0.03%
950 250122 00W	ADDN1	120	250120 00NTCKET	120 1	259554	OQUADDN1	259057	ORNICKEI	1	120	212 PEO	с. Г.	201	201	Base Case	0	-06 5	_	20.74	0	0.00%	0.00%	-0.03%
951 246225 05W	ARRIVE	130	247131 OFNOLLOWAV12	130 1	230122	0.5NORRINGUE C	230130	OFNICKEL OFNOLLONAVI 2	1	130	212 DE00	αΓ.	200	242	Base Case	0	-00.3		20.73	0	-0.10%	-0.10%	-0.10%
051 246325 USNO	OTTINGH56	138	247131 USHOLLOWAY12	138 3	246325	05NOTTINGH56	24/131	05HOLLOWAY12	3	138	205 AEP		200	242	Base Case	0	-57.4	-	28.72	0	-0.03%	-0.03%	0.05%
052 246325 USNO	UTTINGH56	138	24/131 USHOLLOWAY12	138 4	246325	05NOTTINGH56	24/131	05HOLLOWAY12	4	138	205 AEP		200	242	Base Case	0	-57.4	-	28.71	0	-0.03%	-0.03%	0.05%
853 242537 05AI	MOS	138	242616 U5CURRY	138 1	242537	05AMOS	242616	OSCURRY	1	138	205 AEP		167	167	Base Case	0	47.9	-	28.69	0	0.06%	0.06%	0.05%
854 242516 05M0	OUNTN	765	24/183 05MOUNTN	345 2	242516	05MOUNTN	247183	05MOUNTN	2	765/345	205 AEP		2742	3097	Base Case	0	786.1		28.67	0	1.00%	1.00%	1.08%
855 243528 05K2	ARL ROAD	138	243547 05MORSE	138 2	243528	05KARL ROAD	243547	05MORSE	2	138	205 AEP		240	277	Base Case	0	-68.8	-	28.67	0	0.07%	0.07%	0.02%
856 243507 05F	IFTH	138	243588 05WILSON	138 1	243507	05FIFTH	243588	05WILSON	1	138	205 AEP		219	223	Base Case	0	-62.8	-	28.66	0	-0.07%	-0.07%	-0.01%
857 253046 09M	IAMI	138	253074 09STATAP	138 1	253046	09MIAMI	253074	09STATAP	1	138	209 DAY		306	380	Base Case	0	87.7	-	28.64	0	-0.01%	-0.01%	0.02%
858 238969 02MI	RGP +	138	238970 02MRST +	138 1	238969	02MRGP +	238970	02MRST +	1	138	202 ATS1	I	200	242	Base Case	0	57.3	-	28.63	0	0.00%	0.00%	0.00%
859 242542 05A	TKINS	138	242803 05SMYTH	138 1	242542	05ATKINS	242803	05SMYTH	1	138	205 AEP		292	330	Base Case	0	-83.6	-	28.63	0	-0.19%	-0.19%	-0.33%
860 238890 02L1	EMOYN	138	238936 02MACLEA	138 1	238890	02LEMOYN	238936	02MACLEA	1	138	202 ATS:	I	329	413	Base Case	0	94.1	-	28.61	0	0.04%	0.04%	0.03%
861 242727 05M	ULLEN	138	247113 05PIERSS	138 1	242727	05MULLEN	247113	05PIERSS	1	138	205 AEP		205	255	Base Case	0	58.6	-	28.6	0	-0.07%	-0.07%	-0.01%
862 243669 05B	SAND	138	243694 05INEZ	138 1	243669	05B SAND	243694	05INEZ	1	138	205 AEP		670	741	Base Case	0	191.5	-	28.59	0	-0.08%	-0.08%	-0.36%
863 242514 05J	.FERR	765	242684 05J.FERR	138 3	242514	05J.FERR	242684	05J.FERR	3	765/138	205 AEP		696	696	Base Case	0	198.8	-	28.56	0	0.02%	0.02%	0.18%
864 238836 02J0	GSQ13	138	238923 02LTEQ13	138 1	238836	02JGSQ13	238923	02LTEQ13	1	138	202 ATS	I	425	522	Base Case	0	-121.2	-	28.51	0	0.01%	0.01%	0.01%
865 253007 09BI	ELLBR	138	253107 09ALPHA	138 1	253007	09BELLBR	253107	09ALPHA	1	138	209 DAY		301	374	Base Case	0	85.7	-	28.48	0	-0.07%	-0.07%	0.00%
866 242989 05E	LIMA	138	247513 05BOUTWELL	138 1	242989	05E LIMA	247513	05BOUTWELL	1	138	205 AEP		150	212	Base Case	0	42.7	-	28.45	0	-0.08%	-0.08%	0.06%
867 243046 05N	CROW	138	247277 05WNDSRZ	138 1	243046	05N CROW	247277	05WNDSRZ	1	138	205 AEP		167	245	Base Case	0	-47.5	-	28.44	0	-0.02%	-0.02%	0.10%
868 250004 08CH	RNEL1	138	250157 08CORNTP	138 1	250004	08CRNEL1	250157	08CORNTP	1	138	212 DE08	&K	266	266	Base Case	0	-75.6	-	28.41	0	0.00%	0.00%	0.00%
869 243578 05st	TRODZ	138	244198 05LEMASTER	138 1	243578	05STRODZ	244198	05LEMASTER	1	138	205 AEP		223	223	Base Case	0	-63.4	-	28.41	0	-0.13%	-0.13%	0.14%
870 243497 050	ELANO	138	246890 05HOPETN	138 1	243497	05DELANO	246890	05HOPETN	1	138	205 AEP		383	448	Base Case	0	-108.8	-	28.4	0	-0.01%	-0.01%	0.00%
871 242652 0560	OMING	138	242688 05.TOSHUA	138 1	242652	05GOMING	242688	05.TOSHUA	1	138	205 AEP		388	484	Base Case	0	-110.2	-	28.39	0	-0.06%	-0.06%	-0.50%
872 243333 05M	ADISON1	138	245946 05MADISON2	138 21	243333	05MADISON1	245946	05MADISON2	21	138	205 AEP		187	240	Base Case	0	-53.1	-	28.39	0	0.03%	0.03%	0.02%
873 243540 05M	COMB	138	243854 05PEAVED	138 1	243540	05MCCOMB	243854	OSPEAVED	1	138	205 AEP		223	267	Base Case	0	63.3	-	28.38	0	-0.08%	-0.08%	-0.02%
874 242946 05m	TDD	345	242014 05REAVER	130 1	243540	057700	243034	05REAVER	C	345/139	205 AEP		503	547	Base Case	0	142.7	_	20.30	0	0.03%	0.03%	-0.01%
875 239731 0250	02	345	238732 02F0V011	138 2	239731	02FOX	232732	02F0V011	2	345/139	202 702	т.	41.9	173	Base Case	0	119 0	-	29.37	0	0.03%	0.03%	0.03%
876 242400 05D		120	247972 05PDT##ON	120 1	242400	OSDURI IN	230132	05PDTTTON	1	120	202 AID.	-	260	245	Base Case	0	76.2		20.37	0	0.02%	0.21%	0.03%
977 239746 0300	UBLIN	130	247673 USBRITTON	130 1	243499	OSDUBLIN	24/0/3	03BRITION	1	130	205 AEP	T.	209	343	Base Case	0	/0.3	-	20.35	0	0.02%	0.02%	-0.01%
077 238746 02G	ALION	138	239028 UZUNTARU	138 1	238746	02GALION	239028	020NTARO	1	138	202 ATS.		317	365	Base Case	0	89.8	-	28.34	0	-0.20%	-0.20%	0.03%
878 242819 0550	ULVN	138	304740 4WALTERS138	138 1	242819	05SULVN	304740	4WALTERS138	1	138	205/341 AEP/	/CPLW	100	100	Base Case	0	-28.3		28.33	0	0.03%	0.03%	0.27%
8/9 243472 05BI	EXLEY	138	2435/5 U5ST.CLR	138 1	243472	USBEXLEY	243575	USST.CLR	1	138	205 AEP		187	240	Base Case	0	52.9	-	28.31	0	0.08%	0.08%	0.02%
880 250020 08ES	STWD1	138	250031 08FRDBT2	138 1	250020	USESTWD1	250031	USFRDBT2	1	138	212 DE08	δK	298	298	Base Case	0	84.1	-	28.24	0	0.03%	0.03%	0.03%
881 238874 02L2	AKVEW	138	239030 020TTAWA	138 1	238874	02LAKVEW	239030	020TTAWA	1	138	202 ATS:	I	448	516	Base Case	0	-126.4	-	28.22	0	-0.44%	-0.44%	-0.07%
882 245769 05A1	DKINS	345	253100 09ATLNTA	345 1	245769	USADKINS	253100	U9ATLNTA	1	345	205/209 AEP,	/DAY	1195	1195	Base Case	0	-337	-	28.21	0	-0.64%	-0.64%	0.00%
883 242622 05D2	ARRH2	138	242999 05EPROCT	138 1	242622	05DARRH2	242999	05EPROCT	1	138	205 AEP		292	296	Base Case	0	-82.3	-	28.19	0	-0.02%	-0.02%	-0.06%
884 238642 02CH	RSLND	138	239107 02SHNAGO	138 1	238642	02CRSLND	239107	02SHNAGO	1	138	202 ATS	I	265	287	Base Case	0	-74.6	-	28.14	0	0.03%	0.03%	-0.02%
885 243287 05E	.ELKHART	138	243346 05MOTTV	138 1	243287	05E.ELKHART	243346	05MOTTV	1	138	205 AEP		185	185	Base Case	0	52.1		28.14	0	0.02%	0.02%	0.02%
886 250075 08M	TGRY1	138	250150 08ENYART	138 1	250075	08MTGRY1	250150	08ENYART	1	138	212 DEO8	&K	298	298	Base Case	0	-83.8	-	28.13	0	-0.01%	-0.01%	-0.03%
887 238648 02C	Y Q-2	138	238918 02SLTRQ2	138 1	238648	02CY Q-2	238918	02SLTRQ2	1	138	202 ATS	I	273	332	Base Case	0	-76.8	-	28.12	0	-0.28%	-0.28%	-0.03%
888 243242 05A1	LLEN	138	243383 05TILLMA	138 1	243242	05ALLEN	243383	05TILLMA	1	138	205 AEP		293	341	Base Case	0	82.3	-	28.08	0	-0.15%	-0.15%	-0.04%
889 244489 05F0	OGWELL	138	244967 05ELLISON_BP	138 1	244489	05FOGWELL	244967	05ELLISON_BP	1	138	205 AEP		205	284	Base Case	0	57.5	-	28.06	0	-0.02%	-0.02%	0.01%
890 243233 05TA	ANNER	345	248001 06DEARB1	345 Z1	243233	05TANNER	248001	06DEARB1	Z1	345	205/206 AEP,	/OVEC	1097	1204	Base Case	0	-307.6		28.04	0	0.76%	0.76%	1.08%
891 243281 05D	RAGNZ	138	243317 05IRELAN	138 1	243281	05DRAGNZ	243317	05IRELAN	1	138	205 AEP		219	251	Base Case	0	-61.4	-	28.03	0	-0.05%	-0.05%	-0.03%
892 238796 02H	GHLND	345	238797 02HGHLND	138 2	238796	02HGHLND	238797	02HGHLND	2	345/138	202 ATS	I	596	690	Base Case	0	166.9	-	28	0	-0.02%	-0.02%	-0.04%
893 249984 08A	SHLD8	138	250146 08WHITTR	138 1	249984	08ASHLD8	250146	08WHITTR	1	138	212 DE08	δK	268	268	Base Case	0	75	12	28	0	0.00%	0.00%	-0.03%
894 238914 02L	RCRQ3	138	240353 02PM2Q12	138 1	238914	02LRCRQ3	240353	02PM2Q12	1	138	202 ATS1	I	273	332	Base Case	0	76.4		28	0	0.08%	0.08%	-0.02%
895 243276 05D	ELCOR	138	243292 05FALL C	138 1	243276	05DELCOR	243292	05FALL C	1	138	205 AEP		223	223	Base Case	0	-62.4	-	27.97	0	-0.01%	-0.01%	0.04%
896 243681 05CF	HADWICK1	138	243696 05KYELEC	138 1	243681	05CHADWICK1	243696	05KYELEC	1	138	205 AEP		219	251	Base Case	0	61.3	-	27.97	0	0.02%	0.02%	0.03%
897 239026 02N	Y 012	138	240353 02PM2012	138 1	239026	02NY 012	240353	02PM2012	1	138	202 2791	T	273	332	Base Case	0	-76.2		27.91	0	0.08%	0.08%	-0.02%
898 244936 05M	CKINLEY2	138	244967 05ELLISON PD	138 1	244936	05MCKINLEY2	244967	OSELLISON PD	1	138	205 AFD		205	284	Base Case	0	-57 2	-	27 9	0	-0.02%	-0.02%	0.01%
899 238684 0251	ASTLK	345	239036 02PERRY	345 1	238684	02EASTLK	239036	02PERRY	1	345	202 202	T	1396	1667	Base Case	0	-389 4	-	27.9	0	0.89%	0.89%	-0.38%
900 239535 020	PO-2	139	239911 0200 0_2	120 1	230535	02380-2	239030	0240 0-2	1	120	202 413		205	265	Page Case	0	57.2		27.0	0	0.01%	0.01%	0.02%
200 200000 UZA	- 2 - 2	100	200011 02HU Q-2	T 0CT	200000	VERTY Z	200011	V2110 2-2	1 ×	130	ZUZ ATS.	±	200	203	Lase Case	U	51.2		21.09	U	0.01/0	0.01/0	0.0270

			A		В	С	D	E	F	G	НІ	J	К	L.	М	N	0	Р	Q	R	S	T U
901	243262 05COLLEGE C	138	246963 05WESLSS	138 1	243262	05COLLEGE C	246963	05WESLSS	1	138	205 AEP	223	283	Base Case	0	-62.2	-	27.87	0	0.00%	0.00%	0.02%
902	242962 05BLDBGZ	138	247278 05MILL1Z	138 1	242962	05BLDBGZ	247278	05MILL1Z	1	138	205 AEP	205	205	Base Case	0	57.1	-	27.87	0	0.02%	0.02%	0.09%
903	243262 05COLLEGE C	138	243282 05DREWER	138 1	243262	05COLLEGE C	243282	05DREWER	1	138	205 AEP	223	310	Base Case	0	-62.1	-	27.87	0	0.00%	0.00%	0.02%
904	238663 02DLO-15	138	238982 02NAS015	138 1	238663	02DL0-15	238982	02NAS015	1	138	202 ATST	137	174	Base Case	0	38.2	-	27.86	0	0.02%	0.02%	0.00%
905	243276 05DELCOR	138	245946 05MADISON2	138 1	243276	05DELCOR	245946	05MADISON2	1	138	205 AFP	223	223	Base Case	0	62	_	27 78	0	-0.01%	-0.01%	0.04%
906	250007 08CPSNT1	139	250124 08WENDEA	138 1	250007	09CDEBCOIL	250124	0.9WENDEA	1	130	212 DEOLK	269	225	Base Case	0	74.4	-	27.70	0	0.01%	0.00%	0.06%
907	242080 05E 1TMA	120	242067 05NWOODC	120 1	2/20007	OFF ITMA	242067	05NHOODC	1	120	205 AFD	167	200	Base Case	0	14.4		27.70	0	0.00%	-0.08%	0.07%
000	242303 USE LIMA	1 3 0	243367 05NW00DC	130 1	242303	OSE LIMA	243007	05NWOODC	1	130	205 AEF	107	105	Base Case	0	40.4 E1 0		27.70	0	-0.08%	-0.08%	0.07%
900	243372 035ATURN	120	243377 0550RENS	130 1	243372	OFDIDOWN	243377	ADDIL DIV	1	130	205 AEP	140	140	Base Case	0	-51.5	-	27.75	0	0.07%	0.07%	0.00%
010	242769 03R1DGW1	120	220226 020500011	130 1	242709	03KIDGWI	300711	4DAN KIV	1	130	203/342 AEF/DOK	149	149	Base Case	0	-41.5	-	27.74	0	0.00%	0.00%	0.02%
011	238921 02LIEQI1	120	239226 02311000011	130 1	230521	02DIEQII	239220	02511DCOQ11	1	130	202 AISI	425	322	Base Case	0	75.4		27.00	0	0.01%	0.01%	0.02%
012	238813 02CF Q-4	130	236919 025LIRQ4	130 1	230013	OZCE Q-4	236919	12SLIRQ4	1	130	202 ATS1	273	332	Base Case	0	-/3.4	-	27.62	0	-0.25%	-0.25%	-0.03%
912	247489 USBUSSERMAN	138	255153 1/MICH_CITY	138 1	247489	05BOSSERMAN	255153	I/MICH_CITY	1	138	205/21/AEP/NIPS	100	156	Base Case	0	43.1	-	27.61	0	0.1/%	0.17%	0.11%
915	253089 09WMILIN	138	253139 U9ELDEAN	138 1	253089	OSODOGOWICH	253139	OGEDDEAN	1	138	209 DAY	307	382	Base Case	0	84.8	-	27.61	0	-0.04%	-0.04%	0.00%
914	242737 USOPOSSUMCK	138	242746 USPEAKVI	138 1	242/3/	050POSSUMCK	242746	USPEAKV1	1	138	205 AEP	164	180	Base Case	U	45.3		27.61	0	-0.01%	-0.01%	-0.07%
915	239141 02TRACO	138	239281 U2CRNBRY	138 1	239141	02TRACO	239281	UZCRNBRY	1	138	202 ATS1	278	339	Base Case	0	-/6./	-	27.6	0	0.03%	0.03%	0.00%
916	243545 USMILTON SS	138	244540 05RHODES	138 1	243545	05MILTON SS	244540	USRHODES	1	138	205 AEP	323	451	Base Case	0	-89.1	-	27.59	0	-0.06%	-0.06%	0.07%
91/	243506 USELLIOT	138	243619 USKOSEWOODSS	138 1	243506	USELLIOT	243619	USRUSEWOODSS	1	138	2U5 AEP	184	184	Base Case	0	-50.6	-	27.52	0	-0.01%	-0.01%	0.01%
918	242684 05J.FERR	138	242/6U USPROGPK	138 1	242684	USJ.FERR	242760	USPROGPK	1	138	205 AEP	383	449	Base Case	0	105.2	-	27.48	0	0.06%	0.06%	0.25%
919	242524 USCLOVRD	345	24260/ USCLOVRD	138 1A	242524	USCLOVRD	242607	USCLOVRD	LA	345/138	205 AEP	500	564	Base Case	0	137.3	-	27.47	0	0.13%	0.13%	-0.27%
920	238581 U2BRBRTN	138	238629 02CLVRDL	138 1	238581	UZBRBRTN	238629	UZCLVRDL	1	138	202 ATSI	233	282	Base Case	0	-64	-	27.45	0	-0.02%	-0.02%	0.09%
921	242605 05CLNCHR	138	Z4Z665 U5HANSON	138 1	242605	USCLNCHR	242665	USHANSON	1	138	205 AEP	219	255	Base Case	0	60.1	-	27.45	0	-0.10%	-0.10%	-0.10%
922	238694 02ELW.QS	138	238695 02ELW+	138 1	238694	U2ELW.QS	238695	UZELW+	1	138	202 ATSI	160	192	Base Case	0	-43.9	-	27.42	0	0.00%	0.00%	0.00%
923	242946 05TIDD	345	243604 05TIDD_B_XFL	138 B	242946	USTIDD	243604	USTIDD_B_XFL	В	345/138	205 AEP	521	556	Base Case	0	142.8	-	27.41	0	0.03%	0.03%	-0.01%
924	235626 01JONESB	138	242551 05BELVA	138 1	235626	UIJONESB	242551	U5BELVA	1	138	201/205 AP/AEP	282	367	Base Case	0	-77.3	-	27.4	0	-0.31%	-0.31%	0.04%
925	243122 05SW LIM	138	243152 05WMOULT	138 1	243122	05SW LIM	243152	05WMOULT	1	138	205 AEP	223	223	Base Case	0	61.1	-	27.4	0	0.04%	0.04%	-0.02%
926	238541 02AS Q-1	138	238647 02CY Q-1	138 1	238541	02AS Q-1	238647	02CY Q-1	1	138	202 ATSI	265	316	Base Case	0	72.6	-	27.39	0	-0.26%	-0.26%	-0.03%
927	239123 02STAR	138	239142 02TUSC	138 1	239123	02STAR	239142	02TUSC	1	138	202 ATSI	233	282	Base Case	0	63.8	-	27.38	0	-0.06%	-0.06%	-0.05%
928	242737 050POSSUMCK	138	242785 05S.LYNC	138 1	242737	050POSSUMCK	242785	05S.LYNC	1	138	205 AEP	335	392	Base Case	0	91.7	-	27.37	0	-0.04%	-0.04%	-0.38%
929	242708 05M FUNK	138	242796 05SHAWSV	138 1	242708	05M FUNK	242796	05shawsv	1	138	205 AEP	167	240	Base Case	0	45.6	-	27.33	0	0.10%	0.10%	0.09%
930	238796 02HGHLND	345	238797 02HGHLND	138 1	238796	02HGHLND	238797	02HGHLND	1	345/138	202 ATSI	614	701	Base Case	0	167.8	-	27.32	0	-0.02%	-0.02%	-0.03%
931	238647 02CY Q-1	138	238739 02FWLSQ1	138 1	238647	02CY Q-1	238739	02FWLSQ1	1	138	202 ATSI	265	332	Base Case	0	72.3	-	27.29	0	-0.26%	-0.26%	-0.03%
932	243676 05BELLF2	138	246887 05RAMEY	138 1	243676	05BELLF2	246887	05RAMEY	1	138	205 AEP	409	527	Base Case	0	-111.6	-	27.29	0	0.01%	0.01%	0.09%
933	245533 05HOLLOWAY34	138	246327 05NOTTINGH78	138 1	245533	05HOLLOWAY34	246327	05NOTTINGH78	1	138	205 AEP	200	242	Base Case	0	54.5	-	27.27	0	-0.03%	-0.03%	0.05%
934	245533 05HOLLOWAY34	138	246325 05NOTTINGH56	138 2	245533	05HOLLOWAY34	246325	05NOTTINGH56	2	138	205 AEP	200	242	Base Case	0	54.5	-	27.26	0	-0.03%	-0.03%	0.05%
935	243257 05CALVERTZ	138	245857 05KANKAKEE1	138 1	243257	05CALVERTZ	245857	05KANKAKEE1	1	138	205 AEP	187	205	Base Case	0	50.9	-	27.24	0	0.06%	0.06%	0.03%
936	238861 02KIRBY	138	938700 AE1-092 TAP	138 1	238861	02KIRBY	938700	AE1-092 TAP	1	138	202/209 ATSI/DAY	218	269	Base Case	0	59.4	-	27.24	0	0.08%	0.08%	0.00%
937	239122 02STAR	345	239123 02STAR	138 3	239122	02STAR	239123	02STAR	3	345/138	202 ATSI	601	765	Base Case	0	163.4	-	27.19	0	0.00%	0.00%	-0.02%
938	243685 05DORTON	138	244688 05BEAVER CR2	138 1	243685	05DORTON	244688	05BEAVER CR2	1	138	205 AEP	223	310	Base Case	0	60.6	-	27.18	0	0.02%	0.02%	0.16%
939	243159 05WPHILO	138	246010 05PHILO2	138 1	243159	05WPHILO	246010	05PHILO2	1	138	205 AEP	136	167	Base Case	0	-36.9	-	27.17	0	0.13%	0.13%	0.02%
940	238964 02MLCRK+	138	937247 AD2-163_POI	138 1	238964	02MLCRK+	937247	AD2-163_POI	1	138	202 ATSI	152	179	Base Case	0	41.3	-	27.16	0	0.09%	0.09%	0.01%
941	253101 09BLUJK	138	938700 AE1-092 TAP	138 1	253101	09BLUJK	938700	AE1-092 TAP	1	138	209 DAY	218	269	Base Case	0	-59.1	-	27.11	0	0.08%	0.08%	0.00%
942	238617 02CHMBER	138	239137 02THEIS	138 1	238617	02CHMBER	239137	02THEIS	1	138	202 ATSI	200	242	Base Case	0	54.2		27.11	0	0.04%	0.04%	-0.03%
943	243458 05HYATT	345	243526 05HYATT	138 7	243458	05HYATT	243526	05HYATT	7	345/138	205 AEP	576	583	Base Case	0	156.1	-	27.11	0	-0.04%	-0.04%	-0.05%
944	243249 05BEECH	138	243385 05TWIN B	138 1	243249	05BEECH	243385	05TWIN B	1	138	205 AEP	205	284	Base Case	0	-55.5	-	27.1	0	-0.04%	-0.04%	-0.02%
945	235406 01WEIRJT	138	243113 05STORON	138 1	235406	OlWEIRJT	243113	05STORON	1	138	201/205 AP/AEP	136	167	Base Case	0	36.8	-	27.09	0	0.05%	0.05%	0.00%
946	239134 02TANGY	138	239264 02DBP	138 1	239134	02TANGY	239264	02DBP	1	138	202 ATSI	272	339	Base Case	0	73.6		27.07	0	-0.03%	-0.03%	0.08%
947	242720 05MONETA	138	242775 05ROCKCAS SS	138 1	242720	05MONETA	242775	05ROCKCAS SS	1	138	205 AEP	409	409	Base Case	0	-110.7	-	27.06	0	-0.06%	-0.06%	0.94%
948	249566 08FOSTER	345	249582 08GARVER	345 1	249566	08FOSTER	249582	08GARVER	1	345	212 DEO&K	1509	1509	Base Case	0	-408.2	-	27.05	0	-0.82%	-0.82%	-0.63%
949	242620 05DANVL2	138	242631 05EDAN 1	138 1	242620	05DANVL2	242631	05EDAN 1	1	138	205 AEP	275	402	Base Case	0	-74.4	-	27.04	0	0.46%	0.46%	4.58%
950	253012 09CENTER	138	253034 09HEMPST	138 1	253012	09CENTER	253034	09HEMPST	1	138	209 DAY	191	234	Base Case	0	51.6	-	27.03	0	0.02%	0.02%	0.03%
951	238913 02LRCRQ2	138	239046 02PN Q-2	138 1	238913	02LRCRQ2	239046	02PN Q-2	1	138	202 ATSI	115	115	Base Case	0	31.1	-	27.01	0	0.12%	0.12%	-0.04%
952	243046 05N CROW	138	243126 05THIVENER1Z	138 1	243046	05N CROW	243126	05THIVENER1Z	1	138	205 AEP	167	245	Base Case	0	45.1	-	26.99	0	-0.02%	-0.02%	0.10%
953	253040 09KNOLLW	138	253063 090VERL2	138 1	253040	09KNOLLW	253063	090VERL2	1	138	209 DAY	306	373	Base Case	0	82.6	-	26.99	0	0.07%	0.07%	0.07%
954	243885 05THORSS	138	247558 05JARRETT	138 1	243885	05THORSS	247558	05JARRETT	1	138	205 AEP	257	330	Base Case	0	-69.3	-	26.98	0	-0.30%	-0.30%	0.05%
955	253046 09MIAMI	138	253089 09WMILTN	138 1	253046	09MIAMI	253089	09WMILTN	1	138	209 DAY	301	330	Base Case	0	-81.2	-	26.97	0	-0.06%	-0.06%	-0.05%
956	242533 05ABINGD	138	242605 05CLNCHR	138 1	242533	05ABINGD	242605	05CLNCHR	1	138	205 AEP	201	201	Base Case	0	-54.1	-	26.93	0	-0.03%	-0.03%	-0.15%
957	253005 09BATH	138	253083 09TREBEI	138 1	253005	09BATH	253083	09TREBEI	1	138	209 DAY	301	375	Base Case	0	81	-	26.92	0	0.03%	0.03%	0.01%
958	250065 08MILIKN	138	250083 08P.UN2	138 1	250065	08MILIKN	250083	08P.UN2	1	138	212 DEO&K	299	299	Base Case	0	80.5	~	26.91	0	-0.03%	-0.03%	-0.05%
959	242773 05ROANO1	138	242774 05ROANO2	138 Z1	242773	05ROANO1	242774	05ROANO2	Z1	138	205 AEP	240	309	Base Case	0	64.6	-	26.9	0	0.03%	0.03%	0.45%
960	239278 02BRDVIE	138	937247 AD2-163_POI	138 1	239278	02BRDVIE	937247	AD2-163_POI	1	138	202 ATSI	152	179	Base Case	0	-40.9	-	26.9	0	0.09%	0.09%	0.01%

	А		В	C	D	E	F	G	НІ	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
961 238732 02FOXQ11	138 241935 02CLINTON	138 1	238732	02FOXQ11	241935	02CLINTON	1	138	202 ATSI	347	423	Base Case	0	93.3		26.89	0	0.02%	0.02%	0.00%
962 249993 08CDRVL2	138 250030 08FRDBT1	138 1	249993	08CDRVL2	250030	08FRDBT1	1	138	212 DE0&K	298	298	Base Case	0	-80.1	-	26.88	0	0.03%	0.03%	0.03%
963 242571 05BUCKHO	138 242707 05LOWESM	138 1	242571	05BUCKHO	242707	05LOWESM	1	138	205 AEP	251	251	Base Case	0	67.4	-	26.86	0	-0.13%	-0.13%	-0.26%
964 243669 05B SAND	138 243670 05BAKER	138 1	243669	05B SAND	243670	05BAKER	1	138	205 AEP	670	747	Base Case	0	-179.9	-	26.85	0	0.19%	0.19%	0.11%
965 243369 05ROYERTON	138 243393 05WESDEL	138 1	243369	05ROYERTON	243393	05WESDEL	1	138	205 AEP	219	223	Base Case	0	58.8	-	26.84	0	0.02%	0.02%	0.01%
966 238825 02IVANHO	138 238939 02MAHNGS	138 1	238825	02IVANHO	238939	02MAHNGS	1	138	202 ATSI	200	242	Base Case	0	-53.7		26.84	0	-0.03%	-0.03%	0.00%
967 243539 05MARION	138 243550 05OBETZ	138 1	243539	05MARION	243550	050BETZ	1	138	205 AEP	149	180	Base Case	0	-40	-	26.84	0	-0.05%	-0.05%	0.06%
968 242528 05SPORN	345 247183 05MOUNTN	345 1	242528	05SPORN	247183	05MOUNTN	1	345	205 AEP	2928	3113	Base Case	0	-785.7	-	26.84	0	1.00%	1.00%	1.08%
969 243484 05CITYCO	138 243584 05VINE	138 2	243484	05017700	243584	05VINE	2	138	205 AEP	251	274	Base Case	0	-67.3		26.81	0	0.00%	0.00%	0.00%
970 243221 05EUGENE	345 247712 05SULLIVAN	345 1	243221	0.5EUGENE	247712	05SULLIVAN	1	345	205 AEP	971	1335	Base Case	0	-260.1	-	26.78	0	0.16%	0.16%	0.28%
971 246325 05NOTTINGE	56 138 247700 05YAGER	138 1	246325	05NOTTINGH56	247700	05YAGER	1	138	205 AEP	200	241	Base Case	0	53.5	-	26.76	0	-0.03%	-0.03%	0.04%
972 249571 08PEDBK1	345 249573 08SCROVE	345 1	249571	08REDBK1	249573	OSCROVE	1	345	212 DEOSK	1509	1509	Base Case	0	=403.5	-	26.70	0	-0.02%	-0.02%	0.07%
973 243473 05BTXBY	138 246761 05THREEC	138 1	243473	05BTYBY	246761	05THREEC	1	138	205 AFP	427	481	Base Case	0	114 1	-	26.73	0	0.00%	0.00%	0.01%
974 239092 0285MMTS	345 242943 05SCDNTO	345 1	239092	02SDMMTS	240701	05SCANTO	1	345	203 ALL 202/205 ATST/AFP	1409	1/00	Base Case	0	376.2	-	26.75	0	1 37%	1 37%	-0.35%
975 242527 053MOC	129 242549 05DANCDO	120 1	239092	053MOR	242545	055CANTO	1	120	205 APD	224	224	Base Case	0	90.1		20.7	0	0.04%	0.04%	0.30%
975 242557 05AMOS	130 242340 USBANCRU	120 1	242337	02RIVRVR	242340	03CHARTERTON	1	120	203 AEF	125	500	Base Case	0	116		20.07	0	0.04%	-0.28%	-0.03%
977 243221 05EUCENE	245 240504 08CAVOUD	130 I 245 1	239720	OFFICENE	239734	OPCINCUID	1	246	202 AISI	1274	1 274	Base Case	0	266.3		20.07	0	-0.38%	0.50%	-0.03%
978 242544 DEAVION	130 242545 053VmONV	130 75	243221	05AVTON	249004	05AVTONV	70	120	200/200 AEF/DEL 205 AEP	1374	13/4	Base Case	-	-105 6	_	20.00	0	-0 55%	-0 55%	_1 32%
970 242344 USAATON	120 242343 USAXTUNA	120 1	242344	0 SMEATON	242345	O SHATUNA	4D 1	138	200 AEP	030	747	Dase Case	0	-T03.0		20.00	0	-0.33%	-0.35%	-4.32/0
919 242725 USMTALRY	130 242039 USWITHEZ	130 I	242725	OOPEVNOD	242039	ODWITHEZ	1	138	203 AEF	205	204	Dase Case	0	34.0	_	20.04	0	-0.19%	-0.19%	0.01%
001 239003 UZREINOD	130 239110 UZSIL AV+	130 I	239003	OFFICINOD	239110	OFETTADOO		138	202 ATSI	278	343	Dase Case	0	-/4	-	20.0	U	-0.00%	-0.00%	0.01%
901 243383 USTILLMA	100 240900 UDTIMESS	700 T	243383	OFINOS	240950	UDITMESS	75	138	205 AEP	283	300	Dase Case	-	15.3	-	20.59	0	-0.10%	-0.10%	-0.04%
982 242522 USAMOS	345 247504 USAMOS_5_XFL	345 25	242522	05AMOS	247504	USAMOS 5 XFL	25	345	205 AEP	1/40	2034	Base Case	0	-462.5		26.58	0	-0.24%	-0.24%	-0.17%
983 242537 USAMOS	138 242823 05TACKCR	138 1	242537	USAMOS	242823	USTACKCR	1	138	205 AEP	296	296	Base Case	0	/8./	-	26.57	0	-0.06%	-0.06%	-0.07%
984 242669 05H0LST1	138 242829 05TENNEL	138 1	242669	05HOLSTI	242829	05TENNE1	1	138	205 AEP	68	68	Base Case	0	18	-	26.54	0	0.00%	0.00%	-0.02%
985 250139 08ROCKIE	138 250149 08TP5381	138 Z1	250139	08ROCKIE	250149	08TP5381	Z1	138	212 DEO&K	486	502	Base Case	0	128.9	-	26.52	0	-0.06%	-0.06%	-0.06%
986 242688 05JOSHUA	138 242772 05RIVERV	138 1	242688	05JOSHUA	242772	05RIVERV	1	138	205 AEP	296	413	Base Case	0	78.5	-	26.5	0	-0.14%	-0.14%	-0.40%
987 253078 09SUGRCK	138 253255 09GEBHRT	138 1	253078	09SUGRCK	253255	09GEBHRT	1	138	209 DAY	196	241	Base Case	0	51.9	-	26.47	0	0.07%	0.07%	0.04%
988 242952 05SHEPLER	SS 138 243097 05SECANT	138 1	242952	05SHEPLER SS	243097	05SECANT	1	138	205 AEP	296	296	Base Case	0	-78.3	-	26.46	0	0.07%	0.07%	-0.02%
989 238544 02ASH_3	138 238548 02ATCQ31	138 1	238544	02ASH_3	238548	02ATCQ31	1	138	202 ATSI	72	135	Base Case	0	19	-	26.45	0	0.00%	0.00%	0.00%
990 250098 08SHAKER	138 250149 08TP5381	138 1	250098	08SHAKER	250149	08TP5381	1	138	212 DEO&K	486	502	Base Case	0	-128.6	-	26.45	0	-0.06%	-0.06%	-0.06%
991 238889 02LEMOYN	345 238890 02LEMOYN	138 2	238889	02LEMOYN	238890	02LEMOYN	2	2 345/138	202 ATSI	361	412	Base Case	0	95.5	-	26.44	0	-0.02%	-0.02%	0.02%
992 242949 05WMILLP	345 243459 05KIRK	345 1	242949	05WMILLP	243459	05KIRK	1	L 345	205 AEP	1132	1132	Base Case	0	299.1	-	26.42	0	0.87%	0.87%	0.12%
993 238958 02MFLDQ3	138 239039 02PGTP11	138 1	238958	02MFLDQ3	239039	02PGTP11	1	138	202 ATSI	103	133	Base Case	0	-27.2	· · · · · ·	26.42	0	0.12%	0.12%	-0.03%
994 238615 02CHAMBR	345 238617 02CHMBER	138 3	238615	02CHAMBR	238617	02CHMBER	3	3 345/138	202 ATSI	516	574	Base Case	0	135.9	-	26.34	0	0.06%	0.06%	-0.04%
995 238906 02LNGVEW	138 239217 02REEDSB	138 1	238906	02LNGVEW	239217	02REEDSB	1	138	202 ATSI	141	182	Base Case	0	-37.1	-	26.32	0	0.14%	0.14%	0.04%
996 242992 05E WHEE	138 243124 05TEXEAS	138 1	242992	05E WHEE	243124	05TEXEAS	1	138	205 AEP	97	97	Base Case	0	25.5	-	26.32	0	0.00%	0.00%	0.00%
997 243277 05DERBY	138 243335 05MAIN S	138 1	243277	05DERBY	243335	05MAIN S	1	138	205 AEP	205	205	Base Case	0	-53.9		26.3	0	0.07%	0.07%	0.02%
998 242652 05GOMING	138 242719 05MONEL	138 1	242652	05GOMING	242719	05MONEL	1	138	205 AEP	388	409	Base Case	0	101.9	-	26.28	0	-0.06%	-0.06%	-0.50%
999 238614 02CFQ-14	138 238702 02ERQ-14	138 1	238614	02CFQ-14	238702	02ERQ-14	1	138	202 ATSI	273	332	Base Case	0	71.7	-	26.26	0	-0.15%	-0.15%	-0.02%
1000 250092 08REDBK1	138 250114 08TP7481	138 1	250092	08REDBK1	250114	08TP7481	1	138	212 DE0&K	370	370	Base Case	0	97.2	-	26.26	0	0.03%	0.03%	0.03%
1001 249989 08BKJ246	138 250025 08FLDMN1	138 1	249989	08BKJ246	250025	08FLDMN1	1	138	212 DEO&K	299	299	Base Case	0	78.5	-	26.25	0	0.01%	0.01%	0.03%
1002 238889 02LEMOYN	345 238890 02LEMOYN	138 1	238889	02LEMOYN	238890	02LEMOYN	1	345/138	202 ATSI	362	415	Base Case	0	95	-	26.23	0	-0.02%	-0.02%	0.02%
1003 238717 02-5POINT+	138 239371 02DOWLING	138 1	238717	02-5POINT+	239371	02DOWLING	1	138	202 ATSI	288	353	Base Case	0	-75.5	-	26.2	0	0.05%	0.05%	0.01%
1004 238549 02AVERY	138 239108 02SHNROK	138 1	238549	02AVERY	239108	02SHNROK	1	138	202 ATSI	233	282	Base Case	0	61.1	-	26.2	0	-0.25%	-0.25%	-0.04%
1005 242992 05E WHEE	138 243968 05IRONWOODSS	138 1	242992	05E WHEE	243968	05IRONWOODSS	1	138	205 AEP	167	167	Base Case	0	-43.7	222	26.19	0	0.05%	0.05%	0.13%
1006 243505 05ELKEM	138 243564 05RIVERV N.	138 1	243505	05ELKEM	243564	05RIVERV N.	1	138	205 AEP	240	282	Base Case	0	-62.9	-	26.19	0	0.00%	0.00%	0.00%
1007 238702 02ERQ-14	138 238711 02EYTP14	138 1	238702	02ERQ-14	238711	02EYTP14	1	138	202 ATSI	273	332	Base Case	0	71.5	-	26.19	0	-0.15%	-0.15%	-0.02%
1008 243052 05NECANT	138 243072 05PACKARD	138 1	243052	05NECANT	243072	05PACKARD	1	138	205 AEP	205	205	Base Case	0	53.7	-	26.18	0	0.03%	0.03%	0.01%
1009 238700 02EPWRTH	138 239141 02TRACO	138 1	238700	02EPWRTH	239141	02TRACO	1	138	202 ATSI	278	339	Base Case	0	-72.8	220	26.17	0	0.03%	0.03%	0.00%
1010 246102 05CARROLL1	N2 138 247016 05GABLSS	138 1	246102	05CARROLLTN2	247016	05GABLSS	1	138	205 AEP	358	421	Base Case	0	-93.5		26.11	0	0.10%	0.10%	0.01%
1011 243483 05CRCLVS	138 246889 05BIERSR	138 1	243483	05CRCLVS	246889	05BIERSR	1	138	205 AEP	389	559	Base Case	0	-101.5	-	26.09	0	-0.02%	-0.02%	0.07%
1012 243319 05JAY	138 253250 09FTRECV	138 1	243319	05JAY	253250	09FTRECV	1	138	205/209 AEP/DAY	301	375	Base Case	0	78.5	-	26.08	0	-0.08%	-0.08%	-0.03%
1013 243242 05ALLEN	138 243334 05MAGLEY	138 1	243242	05ALLEN	243334	05MAGLEY	1	138	205 AEP	257	341	Base Case	0	67	222	26.08	0	0.00%	0.00%	-0.06%
1014 242671 05HOPKIN	138 242672 05HOPKINSX	138 SR	242671	05HOPKIN	242672	05HOPKINSX	SR	138	205 AEP	248	248	Base Case	0	-64.7	-	26.08	0	-0.01%	-0.01%	-0.19%
1015 242609 05CLYTR2	138 242634 05EDGEMO	138 1	242609	05CLYTR2	242634	05EDGEMO	1	138	205 AEP	167	240	Base Case	0	43.5	-	26.06	0	-0.11%	-0.11%	-0.07%
1016 243206 05DUMONT	765 246999 05SORENS	765 1	243206	0.5 DUMONT	246999	05SORENS	1	765	205 AEP	4142	4142	Base Case	0	1077 6	-	26.02	0	-4.38%	-4.38%	-2.90%
1017 238578 02BORDMM	138 239369 02TORONTO	138 1	238578	02BORDMN	239369	02TORONTO	1	138	202 203	187	191	Base Case	0	-48 5	22	25.02	0	0.02%	0.02%	0.04%
1018 242697 05KUMTS	138 242731 05NBLACK	138 1	242697	OSKUMIS	242731	05NBLACK	1 1	130	205 AEP	205	205	Base Case	0	53.2	_	25.90	0	0.12%	0.12%	0.22%
1019 238842 02 TNDD02	138 230051 02BU 03	138 1	230010	02.TNPPO3	230051	02PV 03	1	120	200 755	200	220	Base Case	0	70 0	_	25.50	0	0.12%	0.12/0	0.00%
1070 243322 0EVENUTE	130 235031 UZEV Q3	130 L	2/2222	OSKENZTE	233031	OSEDIONE	1 1	120	202 AIDI 205 AFD	213	202	Base Case	0	70.0		23.33	0	_0.12/0	-0.02%	-0.02%
IVED 240022 UDRENALE	TOO SAOSOO NORDAOME	1001	243322	O JINDING I D	273239	00EDDOME	1	1 138	200 ABF	293	241	Lase case	U	10		23.72	U	0.0270	0.0270	0.0270

			A		В	C	D	E	F	G	H I	J	К	L	М	N	0	Р	Q	R	S	T U
102	1 238708 02EVRGRN	138	239321 02RSYSOH	138 1	238708	02EVRGRN	239321	02RSYSOH	1	138	202 ATSI	200	242 Base	e Case	0	51.8	-	25.9	0	-0.01%	-0.01%	0.00%
102	2 238621 02CL Q13	138	240348 02GROVWDQ13	138 ZB	238621	02CL Q13	240348	02GROVWDQ13	ZB	138	202 ATSI	110	138 Base	e Case	0	-28.5	-	25.87	0	0.00%	0.00%	0.00%
102	3 242630 05E.RIVE	138	242784 05S.BLUE	138 1	242630	05E.RIVE	242784	05S.BLUE	1	138	205 AEP	205	205 Base	e Case	0	-53	-	25.85	0	-0.08%	-0.08%	-0.08%
102	4 235363 01MAHNSL	138	243347 05TIDD 3-4	138 1	235363	01MAHNSL	243347	05TIDD 3-4	1	138	201/205 AP/AEP	187	205 Base	e Case	0	-48.3	-	25.84	0	-0.53%	-0.53%	-0.02%
102	5238502 02BRIM	138	238890 02LEMOYN	138 1	238502	02BRIM	238890	02LEMOYN	1	138	202 ATSI	252	291 Base	e Case	0	-65.1	-	25.84	0	0.05%	0.05%	0.01%
102	6242607 05CLOVRD	138	243892 05MEADS8	138 1	242607	05CLOVRD	243892	05MEADS8	1	138	205 AEP	348	407 Base	e Case	0	-89.9	-	25.83	0	-0.06%	-0.06%	0.94%
102	7 239154 02W.FREM	138	240813 02GROTON	138 1	239154	02W.FREM	240813	02GROTON	1	138	202 ATSI	278	339 Base	Case	0	71.8	-	25.83	0	-0.24%	-0.24%	-0.04%
102	8 238617 02CHMBER	138	239010 02NORDON	138 1	238617	02CHMBER	239010	02NORDON	1	138	202 ATST	200	242 Base	Case	0	51.6	-	25.81	0	0.08%	0.08%	-0.02%
102	9 238823 02TNO-14	138	240284 02LKSH04	138 1	238823	02TNO-14	240284	021.KSH04	1	138	202 ATSI	267	352 Base	Case	0	68.9		25.8	0	0.13%	0.13%	-0.01%
103	0 242675 05HUFFMN	138	242755 05PTPERS	138 1	242675	05HUFFMN	242755	05PIPERS	1	138	205 AEP	277	277 Base	Case	0	71.4	-	25.77	0	0.03%	0.03%	0.07%
103	1 243292 05FALL C	138	243333 05MADISON1	138 1	243292	OSFALL C	242733	05MADISON1	1	138	205 AEP	251	251 Base	Case	0	64 6	_	25.74	0	-0.01%	-0.01%	0.04%
103	2 243080 05PTLEVC	138	247000 05XELLOW CK1	138 1	243080	05RTLEVC	243555	05VELLOW CK1	1	130	205 AEP	201	231 Dase		0	57.4	-	25.74	0	0.06%	0.06%	0.10%
103	2 243666 05KIDDIC	120	242661 05HALES1	130 1	243000	05CARDEC	247000	OSTELEON CRI	1	130	205 AEP	22.5	223 Dase	Case	0	56.3		25.75	0	-0.10%	-0.10%	-0.01%
103	1 242100 050MRDEC	120	242001 05HALESI	120 1	242040	0.5 CERTIDA	242001	OSTALESI	1	120	205 AEF	164	120 Base	Case	0	-42.2		25.72	0	-0.10%	0.10%	-0.01%
103	4 243109 0331E0BN	100	243127 031100 1-2	130 1	243109	03SILUBN	243127	OSTIDD 1-2	1	130	203 AEP	200	100 Base	Case	0	-42.2		25.72	0	0.01%	0.01%	-0.01%
103	C 242512 0500 100	130	238700 02E0 TAF	765 1	230010	OZCOR SI	230700	OZEO TAP	1	130	202 AISI	233	1142 Dase	Case	0	1020 1		25.67	0	2 1 20/0	0.20%	10.11%
103	7 242774 05D0AN02	120	247621 OSPENNITNOMON	100 I	242313	05POANO2	24231/	05PENNINGTON	1	120	205 AEP	404/	300 Da	Case	0	-61 6	-	23.03	0	-2.12%	0 100/	-0.22%
103	232774 USKUANUZ	120	24/051 USBENNINGTON	100 L	242//4	02DCVCOU	24/031	OBENNINGTON	1	138	200 AEP	240	242 D	Case	0	-01.0 E1 0	-	23.03	0	0.10%	0.10%	0.00%
103	0 253521 UZKSISUH	130	252100 002TAK_FURGE	100 I	239321	000muanm	240068	025TAK_FORGE	1	138	202 ATS1	1105	1105 D-	case	0	205 7	-	25.59	0	-0.01%	-0.01%	0.00%
103	2330// U9STUART	345	233100 USATLNTA	343 L	253077	03STUART	253100	OBATLINTA		345	209 DA1	1195	TTAD Rase	case	0	305.7	-	25.58	0	-0.50%	-0.50%	0.06%
104	U 238015 UZCHAMBR	345	23861/ UZCHMBER	138 4	238615	UZCHAMBR	238617	UZCHMBER	4	345/138	202 ATS1	516	5/4 Base	e Case	0	132	-	25.58	0	0.06%	0.06%	-0.04%
104	238/46 UZGALION	138	238891 UZLESIDE	138 1	238746	UZGALION	238891	UZLESIDE	1	138	ZUZ ATSI	251	290 Base	e Case	0	64.1	-	25.55	0	-0.24%	-0.24%	0.04%
104	Z 243050 05NBELVL	138	24/2/8 05MILL1Z	138 1	243050	USNBELVL	247278	USMILL1Z	1	138	205 AEP	187	240 Base	e Case	0	-47.8	-	25.54	0	0.02%	0.02%	0.09%
104	3238684 02EASTLK	345	238685 02EASTLK	138 61	238684	UZEASTLK	238685	UZEASTLK	61	345/138	202 ATSI	906	1006 Base	e Case	0	231.3	-	25.53	0	0.10%	0.10%	-0.04%
104	4242699 05LAVALT	138	244462 05SHOALS	138 1	242699	USLAVALT	244462	USSHOALS	1	138	205 AEP	251	309 Base	e Case	0	-64	-	25.51	0	-0.05%	-0.05%	-0.14%
104	5242994 05EAMSTD	138	247704 05PANDA RDSS	138 1	242994	05EAMSTD	247704	05PANDA RDSS	1	138	205 AEP	336	393 Base	e Case	0	85.6	-	25.49	0	0.10%	0.10%	0.02%
104	6243024 05HOWARD	138	243100 05SHELGH	138 1	243024	05HOWARD	243100	05SHELGH	1	138	205 AEP	72	76 Base	e Case	0	18.3	-	25.46	0	0.00%	0.00%	0.00%
104	7242539 05ANGLBR	138	242814 05ST.ALB	138 1	242539	05ANGLBR	242814	05ST.ALB	1	138	205 AEP	287	337 Base	e Case	0	-72.8	-	25.37	0	-0.01%	-0.01%	-0.19%
104	8 242619 05DANVL1	138	242620 05DANVL2	138 Z1	242619	05DANVL1	242620	05DANVL2	Z1	138	205 AEP	287	337 Base	e Case	0	-72.8	-	25.37	0	0.16%	0.16%	1.65%
104	9242555 05BLAINE	138	242843 05WLAKE	138 1	242555	05BLAINE	242843	05WLAKE	1	138	205 AEP	287	337 Base	e Case	0	-72.8	-	25.36	0	0.00%	0.00%	0.39%
105	0 242512 05CLOVRD	765	242515 05JOSHUA	765 1	242512	05CLOVRD	242515	05JOSHUA	1	765	205 AEP	1180	1180 Base	e Case	0	298.9	-	25.33	0	-0.19%	-0.19%	-1.79%
105	1246751 05VASSEL	765	270162 AB2-067 TAP	765 1	246751	05VASSEL	270162	AB2-067 TAP	1	765	205 AEP	4047	4571 Base	e Case	0	-1023.8	-	25.3	0	5.48%	5.48%	1.12%
105	2238951 02MBQ-14	138	241925 02ELQ5	138 1	238951	02MBQ-14	241925	02ELQ5	1	138	202 ATSI	324	382 Base	e Case	0	-82	-	25.29	0	0.12%	0.12%	-0.04%
105	3238715 02FERNWY	138	239281 02CRNBRY	138 1	238715	02FERNWY	239281	02CRNBRY	1	138	202 ATSI	278	339 Base	e Case	0	-70.3	-	25.28	0	0.03%	0.03%	0.00%
105	4242937 05KAMMER	345	242948 05WBELLA	345 1	242937	05KAMMER	242948	05WBELLA	1	345	205 AEP	1740	1868 Base	e Case	0	439.7	-	25.27	0	-1.74%	-1.74%	1.00%
105	5243229 050LIVE	345	243918 05ELDERBERRY	345 1	243229	050LIVE	243918	05ELDERBERRY	1	345	205 AEP	1188	1539 Base	e Case	0	-299.9	-	25.25	0	0.52%	0.52%	0.29%
105	6243473 05BIXBY	138	244232 05SHANONRSS8	138 1	243473	05BIXBY	244232	05SHANONRSS8	1	138	205 AEP	329	350 Base	e Case	0	83	-	25.22	0	-0.01%	-0.01%	0.01%
105	7243453 05BEATTY	345	244022 05COLE	345 1	243453	05BEATTY	244022	05COLE	1	345	205 AEP	1096	1203 Base	e Case	0	276.4	-	25.22	0	-0.55%	-0.55%	-0.03%
105	8 243560 05ROBERT	138	243582 05TRABUE	138 1	243560	05ROBERT	243582	05TRABUE	1	138	205 AEP	223	310 Base	e Case	0	56.1	-	25.15	0	0.04%	0.04%	0.00%
105	9250023 08EVNDL2	138	250118 08TRMNL2	138 1	250023	08EVNDL2	250118	08TRMNL2	1	138	212 DEO&K	408	408 Base	e Case	0	-102.4	-	25.11	0	-0.01%	-0.01%	0.03%
106	0243257 05CALVERTZ	138	243318 05JACKSON RD	138 1	243257	05CALVERTZ	243318	05JACKSON RD	1	138	205 AEP	205	205 Base	e Case	0	-51.4	-	25.1	0	0.06%	0.06%	0.03%
106	1238783 02HARDIN	345	238793 02HDGQ12	138 2	238783	02HARDIN	238793	02HDGQ12	2	345/138	202 ATSI	429	484 Base	e Case	0	107.6	-	25.08	0	0.07%	0.07%	0.01%
106	2 243457 05HAYDEN	345	243461 05ROBRT1	345 1	243457	05HAYDEN	243461	05ROBRT1	1	345	205 AEP	1025	1318 Base	e Case	0	257.1	-	25.08	0	-0.06%	-0.06%	-0.04%
106	3 242725 05MTAIRY	138	242780 05RURALR	138 1	242725	05MTAIRY	242780	05RURALR	1	138	205 AEP	251	335 Base	e Case	0	-62.8	-	25.03	0	-0.19%	-0.19%	-0.33%
106	4 249578 08HILCRT	345	253077 09STUART	345 1	249578	08HILCRT	253077	09STUART	1	345	212/209 DEO&K/DAY	1255	1374 Base	e Case	0	-314	-	25.02	0	0.23%	0.23%	0.30%
106	5243150 05WMILLP	138	243510 05GAHANN	138 1	243150	05WMILLP	243510	05GAHANN	1	138	205 AEP	219	255 Base	e Case	0	54.8	-	25.01	0	0.05%	0.05%	0.01%
106	6243554 05PORTER	138	243573 05SHELL	138 1	243554	05PORTER	243573	05SHELL	1	138	205 AEP	109	133 Base	e Case	0	27.3	-	25.01	0	0.00%	0.00%	0.00%
106	7 242608 05CLYTR1	138	247869 05CLAYTR HY1	138 1	242608	05CLYTR1	247869	05CLAYTR HY1	1	138	205 AEP	120	151 Base	e Case	0	-30	-	25.01	0	-0.02%	-0.02%	-0.02%
106	8 243214 05COLNGW	345	255105 17HIPLE	345 1	243214	05COLNGW	255105	17HIPLE	1	345	205/217 AEP/NIPS	1409	1409 Base	e Case	0	-352	-	24.98	0	-0.59%	-0.59%	-0.41%
106	9243247 05AUBURN	138	247106 05VARNER	138 1	243247	05AUBURN	247106	05VARNER	1	138	205 AEP	257	360 Base	e Case	0	-64.2	22	24.97	0	0.01%	0.01%	0.00%
107	0242516 05MOUNTN	765	242923 05GAVIN	765 1	242516	05MOUNTN	242923	05GAVIN	1	765	205 AEP	4047	4571 Base	e Case	0	-1009.3	-	24.94	0	-4.01%	-4.01%	0.18%
107	1242964 05BOLIVA	138	243092 05SCANTO	138 1	242964	05BOLIVA	243092	05scanto	1	138	205 AEP	291	291 Base	e Case	0	-72.6	-	24.93	0	0.42%	0.42%	-0.10%
107	2 243361 05RABER	138	243372 05SATURN	138 1	243361	05RABER	243372	05SATURN	1	138	205 AEP	185	185 Base	e Case	0	-46	-	24.86	0	0.07%	0.07%	0.06%
107	3 242865 05JEFRSO	345	248000 06CLIFTY	345 Z1	242865	05JEFRSO	248000	06CLIFTY	Z1	345	205/206 AEP/OVEC	1868	1868 Base	e Case	0	464.2	-	24.85	0	-0.08%	-0.08%	-0.15%
107	4 243353 050LIVE	138	244173 05SILVER LAK	138 1	243353	050LIVE	244173	05SILVER LAK	1	138	205 AEP	223	310 Base	e Case	0	55.4	-	24.85	0	0.08%	0.08%	0.05%
107	5 238568 02BAYSHO	138	241945 AB1-107 TAP	138 1	238568	02BAYSHO	241945	AB1-107 TAP	1	138	202 ATSI	278	342 Base	e Case	0	-69	-	24.83	0	-0.18%	-0.18%	-0.11%
107	6 243205 05COOK	765	243206 05DUMONT	765 1	243205	05COOK	243206	05DUMONT	1	765	205 AEP	4047	4571 Base	e Case	0	1004.7	-	24.83	0	-0.62%	-0.62%	-1.05%
107	7243507 05FIFTH	138	245853 05HESS SOUTH	138 1	243507	05FIFTH	245853	05HESS SOUTH	1	138	205 AEP	187	207 Base	e Case	0	46.4		24.82	0	-0.07%	-0.07%	-0.01%
107	8 238831 02TWO-17	138	238843 02JNPR04	138 1	238831	02IWO-17	238843	02JNPR04	1	138	202 ATST	273	332 Base	a Case	0	-67.7	-	24.8	0	-0.05%	-0.05%	0.02%
107	9 250081 080AKLEY	138	250110 08CENTRI	138 1	250081	080AKLEY	250110	08CENTRL	1	138	212 DEO&K	205	205 Base	Case	0	50.8	_	24 79	0	0.03%	0.03%	0.01%
109	243457 054AVDEN	315	243460 050000TT	345 2	2/3/57	05HAVDEN	2/3/50	050000000	2	310	205 AFD	1025	1319 Pase	Case	0	254		24.79	0	-0.06%	-0.06%	-0.01%
100	LIGID, CONALDEN	515	210100 00N0DN12	212 2	21313/	S STILL PERM	210100	S STODICE	4	1 243	200 1781	1023	TOTO Dase	JOUDE	U	2.34		27.70	U	0.00%	0.0070	0.0470

		А			B C	D	E	F	G	H I	J	K L	М	N	0	Р	Q	R	S	T	U
1081	1 243265 05COREY	138 245259	05EDLOWE	138 1	243265 05COREY	245259	05EDLOWE	1	138	205 AEP	296	398 Base Case	0	-73.2	-	24.73	0	-0.02%	-0.02%	-0.02%	
1082	2 242979 05CANNELV SS	138 242986	5 05CROOKS	138 1	242979 05CANNELV SS	242986	05CROOKS	1	138	205 AEP	187	240 Base Case	0	46.2	-	24.72	0	0.23%	0.23%	-0.10%	
1083	3 242636 05FALLBR	138 242796	5 05SHAWSV	138 1	242636 05FALLBR	242796	05SHAWSV	1	138	205 AEP	167	240 Base Case	0	-41.2	-	24.7	0	0.10%	0.10%	0.09%	
1084	4238850 02JUNIPE	345 239122	2 02STAR	345 1	238850 02JUNIPE	239122	02STAR	1	345	202 ATSI	1534	1891 Base Case	0	-378.7	-	24.69	0	-0.50%	-0.50%	0.52%	
1085	5238781 02HANNA	345 238941	02MANSFD	345 1	238781 02HANNA	238941	02MANSFD	1	345	202 ATSI	1380	1646 Base Case	0	-340.3	-	24.66	0	0.46%	0.46%	0.04%	
1086	5 243023 05HOCKNG	138 243531	05KIMBRY	138 1	243023 05HOCKNG	243531	05KIMBRY	1	138	205 AEP	223	310 Base Case	0	-55	-	24.65	0	-0.03%	-0.03%	0.09%	
1087	7238884 02LEMO K	138 240990	02HOMEDEPOT	138 1	238884 02LEMO K	240990	02HOMEDEPOT	1	138	202 ATSI	160	192 Base Case	0	39.4	-	24.64	0	0.08%	0.08%	0.01%	
1088	8 242528 05SPORN	345 242947	05WATERFORD	345 1	242528 05SPORN	242947	05WATERFORD	1	345	205 AEP	1239	1566 Base Case	0	305.2	-	24.64	0	-0.72%	-0.72%	1.08%	
1089	9 242547 05BAILS2	138 242855	5 05WYOMIN	138 2	242547 05BAILS2	242855	05WYOMIN	2	138	205 AEP	388	484 Base Case	0	-95.5	-	24.61	0	0.01%	0.01%	-0.04%	
1090	0 242708 05M FUNK	138 247470) 05MFUNK2 XFL	138 Z2	242708 05M FUNK	247470	05MFUNK2 XFL	Z2	138	205 AEP	696	747 Base Case	0	-171.2	-	24.6	0	0.05%	0.05%	-0.38%	
1091	1243127 05TIDD 1-2	138 245389	05TIDD B X	138 SR	243127 05TIDD 1-2	245389	05TIDD B X	SR	138	205 AEP	580	580 Base Case	0	-142.6	-	24.59	0	0.03%	0.03%	-0.01%	
1092	2 243127 05TIDD 1-2	138 243129	05TIDD C X	138 SR	243127 05TIDD 1-2	243129	05TIDD C X	SR	138	205 AEP	580	580 Base Case	0	-142.6	-	24.59	0	0.03%	0.03%	-0.01%	
1093	3 242614 05COLLINV SS	138 242638	05FIELDALE1	138 1	242614 05COLLINV SS	242638	05FIELDALE1	1	138	205 AEP	296	398 Base Case	0	72.7		24.57	0	-0.04%	-0.04%	0.30%	
1094	4 242537 05AMOS	138 242836	5 05TURNE1	138 1	242537 05AMOS	242836	05TURNE1	1	138	205 AEP	296	296 Base Case	0	72.7	-	24.57	0	-0.06%	-0.06%	-0.07%	
1095	5238848 02JRD011	138 239324	1 02CH	138 1	238848 02JRD011	239324	02CH	1	138	202 ATSI	265	316 Base Case	0	-65.1	-	24.56	0	-0.08%	-0.08%	0.03%	
1096	6 238563 02BAY SH	345 238654	02DAV-BE	345 1	238563 02BAY SH	238654	02DAV-BE	1	345	202 ATSI	1542	1878 Base Case	0	378.4	-	24.54	0	-1.64%	-1.64%	-0.17%	
1097	7 242682 05JIM BRANCH	138 247152	05GARY	138 1	242682 05JIM BRANCH	247152	05GARY	1	138	205 AEP	296	398 Base Case	0	72.5		24.5	0	-0.11%	-0.11%	-0.29%	
1098	8 238708 02EVRGRN	138 238797	02HGHLND	138 2	238708 02EVRGRN	238797	02HGHLND	2	138	202 ATSI	200	242 Base Case	0	-49	-	24.49	0	-0.04%	-0.04%	0.00%	
1099	9238708 02EVRGRN	138 238797	02HGHLND	138 1	238708 02EVRGRN	238797	02HGHLND	1	138	202 ATSI	200	242 Base Case	0	-49	-	24.49	0	-0.04%	-0.04%	0.00%	
1100	0243219 05DUMONT	345 246955	5 050LIVE BP	345 1	243219 05DUMONT	246955	050LIVE BP	1	345	205 AEP	897	897 Base Case	0	219.6	-	24.48	0	-0.44%	-0.44%	-0.33%	
110	1243222 05FALL C	345 249515	5 08NOBLSV	345 1	243222 05FALL C	249515	08NOBLSV	1	345	205/208 AEP/DEI	911	956 Base Case	0	-223		24.48	0	-0.20%	-0.20%	0.12%	
1102	2239725 02LAKEAVE	345 239726	5 02LAKEAVE	138 2	239725 02LAKEAVE	239726	02LAKEAVE	2	345/138	202 ATSI	620	740 Base Case	0	151.7	-	24.46	0	-0.10%	-0.10%	-0.04%	
1103	3 243232 05SORENS	345 246955	5 050LIVE BP	345 1	243232 05SORENS	246955	050LIVE BP	1	345	205 AEP	897	897 Base Case	0	-219.3	-	24.45	0	-0.44%	-0.44%	-0.33%	
1104	4 249990 08BROWN	138 250167	7 08DEO STUART	138 1	249990 08BROWN	250167	08DEO STUART	1	138	212 DE0&K	275	275 Base Case	0	-67.2	-	24.45	0	0.04%	0.04%	0.04%	
1105	5 239725 02LAKEAVE	345 239726	5 02LAKEAVE	138 1	239725 02LAKEAVE	239726	02LAKEAVE	1	345/138	202 ATSI	621	740 Base Case	0	151.7		24.42	0	-0.10%	-0.10%	-0.04%	
1106	6 242983 05CHANDLERVZ	138 243074	0.5PHTLO1	138 1	242983 05CHANDLERVZ	243074	05PHTLO1	1	138	205 AEP	187	240 Base Case	0	-45.7	-	24.42	0	-0.47%	-0.47%	0.10%	
1107	7 250106 08TODHJT	138 253057	7 090нн	138 1	250106 08TODHJT	253057	090нн	1	138	212/209 DEO&K/DAY	221	272 Base Case	0	54	-	24.42	0	-0.09%	-0.09%	-0.04%	
1108	8 238508 02EBER	138 239128	02SWANTN	138 1	238508 02EBER	239128	02SWANTN	1	138	202 ATSI	278	343 Base Case	0	-67.7	-	24.35	0	-0.04%	-0.04%	0.01%	
1109	9 238640 02CBISS	138 239264	1 02DBP	138 1	238640 02CBISS	239264	02DBP	1	138	202 ATST	278	339 Base Case	0	-67.7		24.34	0	-0.03%	-0.03%	0.08%	
1110	0 243024 05HOWARD	138 243050	05NBELVL	138 1	243024 05H0WARD	243050	05NBELVL	1	138	205 AEP	136	167 Base Case	0	-33.1	-	24.34	0	0.02%	0.02%	0.09%	
1111	1 243604 05TTDD B XEL	138 245389	05TTDD B X	138 B	243604 05TIDD B XEL	245389	05TTDD B X	B	138	205 AEP	586	598 Base Case	0	142.6	-	24 34	0	0.03%	0.03%	-0.01%	
1112	2 238546 02ASO-11	138 238743	3 02ER-DNB+011	138 1	238546 02ASO-11	238743	02ER-DNB+011	1	138	202 ATSI	260	309 Base Case	0	63.3	-	24.34	0	-0.19%	-0.19%	-0.02%	
1113	3 243122 05SW LTM	138 243136	5 05W LIMA	138 1	243122 05SW LTM	243136	05W LIMA	1	138	205 AEP	348	388 Base Case	0	84.6		24.31	0	-0.02%	-0.02%	0.12%	
1114	4 243349 05NEW CARLT2	138 243359	05PINERD	138 1	243349 05NEW CABLT2	243359	05PINERD	1	138	205 AEP	187	233 Base Case	0	45.5	-	24.31	0	-0.10%	-0.10%	-0.06%	
1111	5 249736 08GBDALE	138 250057	7 08M FORT	138 1	249736 08GRDALE	250057	08M FORT	1	138	208/212 DET/DEO&K	486	486 Base Case	0	117.9	-	24.26	0	-0.05%	-0.05%	0.27%	
1116	5243667 05STINNE	161 360452	SPINEVILL KY	161 1	243667 05STINNE	360452	SPINEVILL KY	1	161	205/347 AEP/TVA	208	208 Base Case	0	-50.4	_	24.25	0	-0.03%	-0.03%	0.05%	
1117	7 242629 05E MONU	138 242632	2 05EDAN 2	138 1	242629 05E. MONU	242632	05EDAN 2	1	138	205 AEP	251	335 Base Case	0	-60.8		24.23	0	0.03%	0.03%	0.33%	
1118	8 243118 05SUMMER	138 247757	7 OSHERLAN SW	138 1	243118 05SUMMER	247757	OSHERLAN SW	1	138	205 AEP	205	284 Base Case	0	-49.6	-	24.2	0	0.11%	0.11%	-0.02%	
1110	9 242520 05.1 FEBR	500 242514	1 05.T FERR	765 1	242520 05.1 FERR	242514	05.T FERR	1	500/765	205 AEP	1635	1845 Base Case	0	395.6	_	24.19	0	0.47%	0.47%	9.26%	
1120	238586 02BRKSID	138 238938	02MADISN	138 1	238586 02BBKSID	238938	02MADISN	1	138	202 ATSI	153	192 Base Case	0	37	-	24.18	0	0.11%	0.11%	-0.04%	
112	1238906 021.NGVEW	138 239196	5 02ARM+BU	138 1	238906 021.NGVEW	239196	02ARM+BU	1	138	202 ATST	225	295 Base Case	0	-54.4	-	24.16	0	-0.26%	-0.26%	0.03%	
1122	243322 05KENZIE	138 939390) AE1-170 POT	138 1	243322 05KENZTE	939390	AE1-170 POT	1	138	205 AEP	296	361 Base Case	0	71.5	-	24.15	0	-0.01%	-0.01%	0.00%	
112	3 243261 05COLBYTAPSS	138 939390) AE1-170 POT	138 1	243261 05COLBYTAPSS	939390	AE1-170 POT	1	138	205 AEP	296	361 Base Case	0	-71.5	_	24.15	0	-0.01%	-0.01%	0.00%	
1124	4 243542 05MIFFIN	138 243575	05ST.CLR	138 1	243542 05MIFFIN	243575	05ST.CLR	1	138	205 AEP	209	209 Base Case	0	50.4	-	24.14	0	0.07%	0.07%	0.00%	
112	5 243250 05BENTON	138 243271	05CRYSTA	138 1	243250 05BENTON	243271	05CRYSTA	1	138	205 AEP	296	361 Base Case	0	71.3	-	24.1	0	0.05%	0.05%	0.00%	
1126	6 249998 08CMMSVI	138 250072	08MTCHL1	138 1	249998 08CMMSVI	250072	08MTCHL1	1	138	212 DE0&K	267	267 Base Case	0	-64.3	-	24.07	0	-0.01%	-0.01%	-0.02%	
112	7 238832 02.TACKMA	138 240978	02AJ-MOD	138 1	238832 02.TACKMA	240978	02AJ-MOD	1	138	202 ATST	158	190 Base Case	0	-38	-	24 07	0	-0.07%	-0.07%	0.01%	
1128	8 246999 05SORENS	765 243232	05SORENS	345 3	246999 05SOBENS	243232	05SOBENS	3	765/345	205 AEP	2742	3097 Base Case	0	658	-	24	0	0.96%	0.96%	0.60%	
1120	9238914 021.8CR03	138 238917	02STACY	138 1	238914 021.RCR03	238917	02STACY	1	138	202 2097	200	242 Base Case	0	48	~	23 99	0	-0.09%	-0.09%	0.02%	
1130	242704 05LOGAN1	138 242752	05PINCKZ	138 1	242704 05LOGAN1	242752	05PINCKZ	1	130	205 AEP	167	167 Base Case	0	40.1	-	23.99	0	0.06%	0.06%	0.04%	
1121	1238607 02CARLTL	345 238600	02CARLTI	138 1	238607 02CARLTL	238609	02CARLTL	1	345/139	200 AEF 202 ATGT	577	686 Base Case	0	128 3		23.99	0	0.14%	0.14%	0.07%	
1123	238781 02HANNA	345 242032	05CANTNC	345 1	238781 02HANNA	242932	05CANTNC	1	315/100	202/205 ATST /AFP	1409	1409 Base Case	0	-337 3		23.90	0	-0.80%	-0.80%	0.82%	
1123	2 246399 05CTORE ME 7	138 242332	05MUSKNC1A	138 77	246399 05CTORE MT 7	242332	05MUSKNC1A	ZT	120	205 AFD	197	240 Base Case	0	-41 8		23.04	0	0.00%	0.00%	0.06%	
113	4 243490 05CORNER	138 243554	1 05PORTER	138 1	243490 05CORNER	243554	05PORTER	1	130	205 AEP	131	143 Base Care	0	31 3	-	23.93	0	0.10%	0.00%	0.00%	
1120	5 243243 053NDCT	138 243334	ASWERSTD	138 1	243243 05ANDOT	243334	05WEBSTD	1	130	205 AEF	102	183 Base Case	0	43 0	_	23.95	0	-0.01%	-0.01%	0.00%	
1120	242709 05M FUNK	139 243392	1 OSTECUDE	139 1	242708 05M FUNK	243392	05TECUDE	1	120	205 AEP	167	167 Page Case	0	30 0		23.92	0	0.13%	0.13%	0.00%	
112	7 242568 05PD00VV	138 243874	S 058 IVNO	138 1	242568 0500011	2430/4	059 LVNC	1	120	205 AEF	1 67	245 Base Case	0	_ 20 0	-	23.00	0	-0.03%	-0.02%	0.11%	
1120	242546 0500TT 01	130 242/83	S OSBILING	120 1	242546 05PATE 01	242/00	05WYOMTN	1	130	205 AEP	70/	ANA Page Case	0	-39.0	_	23.00	U	0.02%	-0.02%	-0.04%	
1120	238530 02011EM	345 230344	1 O2DILEN-2	138 3	238530 02ATTEM	230314	02ALLEN-2	2	345/120	200 AEF 202 Amer	576	651 Baco Case	0	127 2	_	23.03	0	-0.07%	-0.07%	0.04%	
11.40	220000 UZALLEN	120 242000	OFCANENC	120 1	230530 UZALLEN	239344	OFCAMENC	1	120	202 AIDI	257	220 Page Case	0	-61 2		23.00	0	0.07%	-0.07%	0.01%	
1140	COOLD NERTORET	10 242980	U U U U U U U U U U U U U U U U U U U	1001	230313 NZBTOBET	242980	UJCANINC	1	138	LUZ/ ZUJ ATSI/ AEP	237	JJO DASE CASE	0	-01.3	-	23.04	U	-0.30%	-0.30%	0.1370	

	А		В	С	D	E	F	G	H I	J	К	L	М	N	0	Р	Q	R	S	T U
1141 238891 02LESIDE	138 239195 02MILIRN	138 1	238891	02LESIDE	239195	02MILIRN	1	1 138	202 ATSI	161	194	Base Case	0	38.4		23.83	0	-0.23%	-0.23%	0.04%
1142 243495 05DAVIDS	138 243560 05ROBERT	138 1	243495	05DAVIDS	243560	05ROBERT	1	1 138	205 AEP	335	366	Base Case	0	-79.8	-	23.82	0	-0.04%	-0.04%	0.00%
1143 238896 02LIMECT	138 239371 02DOWLING	138 1	238896	02LIMECT	239371	02DOWLING	1	1 138	202 ATSI	288	353	Base Case	0	-68.6	-	23.82	0	-0.03%	-0.03%	0.01%
1144 242539 05ANGLBR	138 242672 05HOPKINSX	138 1	242539	05ANGLBR	242672	05HOPKINSX	1	1 138	205 AEP	272	335	Base Case	0	64.7	-	23.78	0	-0.01%	-0.01%	-0.19%
1145 242951 05ADDISONZ	138 243126 05THIVENER1Z	138 1	242951	05ADDISONZ	243126	05THIVENER1Z	1	1 138	205 AEP	167	245	Base Case	0	-39.7	-	23.77	0	-0.02%	-0.02%	0.10%
1146 238941 02MANSFD	345 239358 02GLENWILLOW	345 1	238941	02MANSFD	239358	02GLENWILLOW	1	1 345	202 ATSI	1380	1646	Base Case	0	327.9		23.76	0	0.26%	0.26%	0.17%
1147 244070 05JUNE ROAD	138 247704 05PANDA RDSS	138 1	244070	05JUNE ROAD	247704	05PANDA RDSS	1	1 138	205 AEP	296	409	Base Case	0	-70.3	-	23.75	0	0.10%	0.10%	0.02%
1148 243856 05JUG ST 1-6	138 246385 05JUGST 7-11	138 Z2	243856	05JUG ST 1-6	246385	05JUGST 7-11	22	138	205 AEP	747	747	Base Case	0	177.3	-	23.73	0	0.00%	0.00%	0.00%
1149 238575 02BLUBEL	138 238864 02KNOX	138 1	238575	02BLUBEL	238864	02KNOX	1	1 138	202 ATST	153	199	Base Case	0	36.3		23.73	0	0.03%	0.03%	-0.02%
1150 242708 05M FUNK	138 245845 05MFUNK1 XFL	138 21	242708	0.5M FUNK	245845	05MFUNK1 XFL	21	138	205 AEP	696	747	Base Case	0	-165.1	-	23.72	0	0.04%	0.04%	-0.36%
1151 235311 01CABNEG	138 243347 05TTDD 3-4	138 1	235311	01CABNEG	243347	05TIDD 3-4	1	1 138	201/205 AP/AEP	187	240	Base Case	0	-44.4	-	23.72	0	-0.40%	-0.40%	-0.02%
1152 243246 05AUBUNC	138 243247 05AUBURN	138 1	243246	05AUBUNC	243247	05AUBURN	1	1 138	205 AEP	251	335	Base Case	0	-59 5	_	23.72	0	0.40%	0.05%	0.03%
1153 242853 05WURNO	138 934750 AD1-102 TAP	138 1	243240	0 5WURNO	934750	AD1-102 TAP	1	1 138	205 AEP	251	251	Base Case	0	59.4	-	23.68	0	-0 11%	-0.11%	-0.16%
1154 242600 05CI VED2	130 934750 AD1-102 TAF	120 1	242000	0.0 FCT VED2	024750	AD1-102 TAP		1 120	205 AEF	251	201	Base Case	0	-50.2	_	23.00	0	-0.11%	0.11%	-0.10%
1154 242803 03CLITK2	130 354750 ADI-102 IAP	130 1	242009	O O U D MI TINI	250000	ADI-IUZ IAP		1 130	205 AEF	201	201	Base Case	0	-39.3		23.63	0	-0.11%	-0.11%	-0.10%
1155 230041 08HAMLIN	138 250096 085EWARD	136 1	250041	OOHAMLIN	250096	15DUDUDI		1 130	212 DE0&K	1400	1720	Base Case	0	-66.7	-	23.61	0	0.01%	0.01%	0.00%
1150 238 /81 U2HANNA	345 253902 15BVRVAL	345 I	238781	02HANNA	253902	ISBVRVAL		1 345	202/215 ATS1/DLCO	1486	1/39	Base Case	0	-350.5	-	23.58	0	0.45%	0.45%	0.04%
1157 239369 02TORONTO	138 240214 02PENNANTTAP	138 1	239369	02TORONTO	240214	02PENNANTTAP		1 138	202 ATSI	278	339	Base Case	0	65.5	-	23.57	0	-0.01%	-0.01%	0.06%
1158 243211 05ALLEN	345 243232 05SORENS	345 1	243211	USALLEN	243232	U5SORENS		1 345	205 AEP	897	897	Base Case	0	-211.3	-	23.56	0	-0.19%	-0.19%	0.07%
1159 243773 05LTV1	138 246267 05WAGENHALS1	138 1	243773	3 05LTV1	246267	05WAGENHALS1	1	1 138	205 AEP	296	296	Base Case	0	-69.7	-	23.55	0	0.00%	0.00%	0.00%
1160 238661 02DKQ-16	138 238741 02FWLSQ3	138 1	238661	02DKQ-16	238741	02FWLSQ3		1 138	202 ATSI	237	287	Base Case	0	-55.8	-	23.54	0	0.02%	0.02%	0.00%
1161 242523 05BAKER	345 242529 05TRISTA	345 1	242523	05BAKER	242529	05TRISTA]	1 345	205 AEP	1409	1409	Base Case	0	331.6	-	23.53	0	0.07%	0.07%	0.81%
1162 243143 05WBELLA	138 247756 05GLENCOE	138 1	243143	3 O5WBELLA	247756	05GLENCOE	1	1 138	205 AEP	296	413	Base Case	0	69.7		23.53	0	0.07%	0.07%	0.00%
1163 253077 09STUART	345 342838 7SPURLOCK	345 1	253077	09STUART	342838	7SPURLOCK	1	1 345	209/320 DAY/EKPC	1240	1532	Base Case	0	-291.6	-	23.52	0	-1.04%	-1.04%	0.03%
1164 242630 05E.RIVE	138 242786 05S.PRINCETN	138 1	242630	05E.RIVE	242786	05S.PRINCETN	1	1 138	205 AEP	205	205	Base Case	0	48.2	-	23.51	0	-0.08%	-0.08%	-0.08%
1165 250099 08SIMPSN	138 250120 08TWYMI2	138 1	250099	08SIMPSN	250120	08TWYMI2	1	1 138	212 DEO&K	298	298	Base Case	0	-69.9	-	23.47	0	0.05%	0.05%	0.03%
1166 243304 05GUARDN	138 243385 05TWIN B	138 1	243304	05GUARDN	243385	05TWIN B	1	1 138	205 AEP	251	330	Base Case	0	-58.9	-	23.47	0	-0.09%	-0.09%	-0.06%
1167 242854 05W.WELCH SS	138 242855 05WYOMIN	138 1	242854	05W.WELCH SS	242855	05WYOMIN	1	1 138	205 AEP	335	392	Base Case	0	-78.6	-	23.47	0	-0.05%	-0.05%	-0.30%
1168 238768 02GRNFLD	138 239290 02HAYES	138 2	238768	02GRNFLD	239290	02HAYES	2	2 138	202 ATSI	233	282	Base Case	0	-54.7	-	23.46	0	-0.02%	-0.02%	-0.01%
1169 242818 05STOTES	138 242824 05TAMSM1	138 1	242818	05STOTES	242824	05TAMSM1	1	1 138	205 AEP	150	180	Base Case	0	-35.2	-	23.44	0	-0.04%	-0.04%	-0.10%
1170 242787 05MIDDLEB SS	138 253111 09MIDDLE	138 Z1	242787	05MIDDLEB SS	253111	09MIDDLE	Z1	138	205/209 AEP/DAY	196	224	Base Case	0	45.9	-	23.42	0	0.07%	0.07%	0.12%
1171 238588 02BRNSWK	138 239125 02STONEY	138 1	238588	02BRNSWK	239125	02STONEY	1	1 138	202 ATSI	233	282	Base Case	0	54.5	-	23.41	0	-0.13%	-0.13%	-0.01%
1172 242527 05M FUNK	345 247470 05MFUNK2 XFL	138 2	242527	05M FUNK	247470	05MFUNK2 XFL	2	2 345/138	205 AEP	732	828	Base Case	0	171.3	-	23.41	0	0.05%	0.05%	-0.38%
1173 238629 02CLVRDL	138 239354 02HARMON	138 2	238629	02CLVRDL	239354	02HARMON	2	2 138	202 ATSI	448	516	Base Case	0	-104.8		23.4	0	0.00%	0.00%	0.07%
1174 238629 02CLVRDL	138 239354 02HARMON	138 1	238629	02CLVRDL	239354	02HARMON	1	1 138	202 ATSI	448	516	Base Case	0	-104.8		23.39	0	0.00%	0.00%	0.07%
1175 238530 02ALLEN	345 238500 02ALLEN-1	138 1	238530	02ALLEN	238500	02ALLEN-1	1	1 345/138	202 ATSI	492	632	Base Case	0	114.9	-	23.35	0	-0.06%	-0.06%	0.01%
1176 244868 05BRICE	138 246760 05REFUGE	138 1	244868	05BRICE	246760	05REFUGE	3	1 138	205 AEP	191	222	Base Case	0	-44.6	-	23.35	0	-0.03%	-0.03%	0.01%
1177 242684 05J.FERR	138 242859 05WYTHE2	138 1	242684	05J.FERR	242859	05WYTHE2	1	1 138	205 AEP	287	337	Base Case	0	67	22	23.33	0	0.06%	0.06%	0.20%
1178 238569 02BEAVER	345 239289 02HAYES	345 1	238569	02BEAVER	239289	02HAYES	1	1 345	202 ATST	1508	1844	Base Case	0	-351.6	-	23.32	0	-1.92%	-1.92%	-0.27%
1179 242959 05BELDVL	138 244943 05PACKARD BP	138 1	242959	05BELDVL	244943	05PACKARD BP	1	1 138	205 AEP	251	327	Base Case	0	-58.5	-	23.3	0	0.02%	0.02%	0.01%
1180 242509 05AXTON	765 242545 05AXTONX	138 1	242509	05AXTON	242545	05AXTONX		1 765/138	205 AEP	801	906	Base Case	0	186.5	-	23 28	0	-0.56%	-0.55%	-4 33%
1181 239079 025 FAST	138 239242 02HOLT-A	138 1	239079	029 FAST	230242	02HOLT-A	1	1 138	202 ATST	194	237	Base Case	0	=45.1	-	23.20	0	0.07%	0.07%	0.00%
1182 243222 05ENTL C	345 243202 05FALL C	130 2	233073	OSENIL C	2/3202	OSFALL C		2 2/5/120	202 AISI 205 AFP	712	765	Base Case	0	165.9	_	23.27	0	-0.03%	-0.03%	0.03%
1192 253005 00DATH	129 252106 00NCADIT	120 1	243222	ODDATU	243292	OOMCADI T		1 120	200 ALF	201	274	Base Case	0	60.0		23.20	0	-0.03%	0.03%	0.03%
1184 246187 05WADTON 42	138 246101 05WADTON MEN	139 71	246107	OSWARTON US	200100	OSWARTON MVW	71	120	205 205	202	3/4	Base Case	0	69		23.21	0	0.04%	0.04%	0.04%
1185 242084 05 CUARTI	138 932050 202-015 MAR	138 1	240107		740131	AC2_015 TAP	101	1 1 20	205 AFP	136	167	Base Case	0	31 5	_	23.21	0	-0 1 2%	-0 12%	-0.09%
1186 242024 05U0MADD	130 932050 ACZ-015 TAP	130 1	242984	05UOWARD	932030	AC2-015 TAP		1 100	205 AEP	100	167	Page Case	0	_21 /	_	23.13	U	-0.12%	-0.12%	-0.09%
1107 041000 000WARD	138 932050 AC2-015 TAP	138 1	243024	I USHOWARD	932050	ACZ-015 TAP		1 138	205 AEP	130	167	Base Case	0	-31.4		23.11	0	-0.12%	-0.12%	-0.09%
1187 241929 02AVQ3	138 241930 02AVQ4	138 1	241929	02AVQ3	241930	UZAVQ4	-	1 138	202 ATS1	999	999	Base Case	U	-230.8	-	23.11	0	-0.56%	-0.56%	-0.07%
1188 242720 05MONETA	138 243892 05MEADS8	138 1	242720	0 5MONETA	243892	U5MEADS8		1 138	205 AEP	409	409	Base Case	0	94.5	-	23.1	0	-0.06%	-0.06%	0.94%
1189 240348 02GROVWDQ13	138 241935 02CLINTON	138 ZL	240348	02GROVWDQ13	241935	02CLINTON	ZL	138	202 ATSI	347	423	Base Case	0	-80.1	-	23.09	0	0.00%	0.00%	0.00%
1190 245977 05GRISTMILL	345 245983 05GRISTMILL	138 1	245977	05GRISTMILL	245983	05GRISTMILL	1 3	1 345/138	205 AEP	450	450	Base Case	0	103.9		23.08	0	0.01%	0.01%	0.04%
1191 238746 02GALION	138 239308 02MR-ETH	138 1	238746	02GALION	239308	02MR-ETH	1	1 138	202 ATSI	161	194	Base Case	0	37.1	-	23.03	0	0.07%	0.07%	-0.08%
1192 242719 05MONEL	138 242765 05REUSENS1	138 1	242719	05MONEL	242765	05REUSENS1	1	1 138	205 AEP	388	409	Base Case	0	89.3	-	23.02	0	-0.06%	-0.06%	-0.50%
1193 243674 05BELHAV	138 243681 05CHADWICK1	138 1	243674	05BELHAV	243681	05CHADWICK1	1	1 138	205 AEP	251	251	. Base Case	0	-57.7		23	0	0.02%	0.02%	0.05%
1194 243139 05WAGENHALS2	138 246267 05WAGENHALS1	138 Z1	243139	05WAGENHALS2	246267	05WAGENHALS1	Z1	138	205 AEP	329	361	Base Case	0	-75.6		22.99	0	-0.13%	-0.13%	0.03%
1195 242641 05FOREST	138 242734 05NEWLDN	138 1	242641	05FOREST	242734	05NEWLDN	1	1 138	205 AEP	167	240	Base Case	0	-38.4	-	22.98	0	-0.01%	-0.01%	0.51%
1196 243532 05KIRK	138 244020 05MINK	138 1	243532	05KIRK	244020	05MINK	1	1 138	205 AEP	338	338	Base Case	0	77.7	-	22.98	0	0.03%	0.03%	0.00%
1197 242537 05AMOS	138 242617 05DALEWD	138 1	242537	05AMOS	242617	05DALEWD	1	1 138	205 AEP	296	398	Base Case	0	68	-	22.97	0	-0.05%	-0.05%	-0.06%
1198 244866 05THORPE SS	138 247152 05GARY	138 1	244866	05THORPE SS	247152	05GARY	1	1 138	205 AEP	296	398	Base Case	0	-67.8	-	22.89	0	-0.11%	-0.11%	-0.29%
1199 238772 02GTQ-12	138 238793 02HDGQ12	138 1	238772	2 02GTQ-12	238793	02HDGQ12	1	1 138	202 ATSI	273	332	Base Case	0	-62.5	-	22.88	0	0.09%	0.09%	0.01%
1200 250050 08KMPER1	138 250082 08P.UN1	138 1	250050	08KMPER1	250082	08P.UN1	1	1 138	212 DEO&K	299	299	Base Case	0	-68.4	-	22.87	0	0.01%	0.01%	-0.02%

		A		В	С	D	E	F	G	H I	J	K	Ľ.	М	N	0	Р	Q	R	S	T U
1201 242512 05CLOVRD	765	242514 05J.FERR	765 1	242512	05CLOVRD	242514	05J.FERR	1	765	205 AEP	3859	3859	Base Case	0	-881.3	-	22.84	0	-4.53%	-4.53%	-5.49%
1202 238570 02BEAVER	138	241932 02AMH.MUN2	138 1	238570	02BEAVER	241932	02AMH.MUN2	1	138	202 ATSI	498	573	Base Case	0	113.6	-	22.81	0	-0.29%	-0.29%	-0.02%
1203 247106 05VARNER	138	247108 05SOWERS	138 1	247106	0.5VARNER	247108	05SOWERS	1	138	205 AEP	257	360	Base Case	0	58.6	-	22.8	0	-0.14%	-0.14%	0.01%
1204 253057 090HH	138	253111 09MIDDLE	138 1	253057	09000	253111	09MTDDLE	1	138	209 DAY	185	185	Base Case	0	-42 2	-	22.8	0	0.07%	0.07%	0.12%
1205 242556 05BLUEFLD AV	138	242707 05LOWESM	138 1	242556	05BLUEFLD AV	242707	05LOWESM	1	138	205 AEP	251	251	Base Case	0	-57.2		22 78	0	-0.13%	-0.13%	-0.26%
1205 243134 05W CANTON1	139	245797 05W CANTON2	138 71	2/313/	05W CANTONI	245707	0.5W CANTON2	71	139	205 755	424	197	Base Case	0	96.5	-	22.76	0	-0.03%	-0.03%	0.08%
1200 243134 05W.CANTONI	120	246010 05041002	120 1	243134	OSCANNELV CC	245757	05W.CANTONZ	1	120	205 AEF	222	210	Base Case	0	-50.9		22.70	0	0.03%	0.03%	-0.10%
1207 242375 03CANNELV 33	130	238006 031 NOVEN	130 1	242979	OCCANNELV 55	220010	0 JFHILOZ	1	130	203 AEF	150	100	Base Case	0	-30.8		22.70	0	0.23/0	0.23/0	-0.10%
1200 238388 02BRRSTD	120	247064 OFLOGWOWN	130 1	230300	OZBRASID	230900	OZLINGVEW	1	130	202 AISI	100	192	Base Case	0	54.0	-	22.75	0	0.11%	0.11%	-0.04%
1209 243031 05NDELPH	138	247864 USLOGTOWN	138 1	243051	OSNDELPH	24/864	OSLOGIOWN	1	138	205 AEP	296	413	Base Case	0	-67.2	-	22.7	0	-0.10%	-0.10%	-0.07%
1210 242924 USHANG R	/65	242927 05MARQUI	765 1	242924	USHANG R	242927	USMARQU1	1	765	205 AEP	4047	45/1	Base Case	U	917.4	-	22.67	0	0.80%	0.80%	2.40%
1211 242/38 05OREBANK BP	138	242850 05WOLFH1	138 1	242738	USOREBANK_BP	242850	05WOLFH1	1	138	205 AEP	167	167	Base Case	0	-37.9	-	22.66	0	0.03%	0.03%	-0.07%
1212 243481 05CANAL	138	243586 05WHITER	138 1	243481	05CANAL	243586	05WHITER	1	138	205 AEP	209	209	Base Case	0	-47.4	-	22.66	0	-0.07%	-0.07%	-0.03%
1213 243085 05S CAD	138	247016 05GABLSS	138 1	243085	05S CAD	247016	05GABLSS	1	138	205 AEP	185	185	Base Case	0	-41.9	-	22.65	0	0.21%	0.21%	-0.05%
1214 243138 05W.LIBERTYZ	138	243347 05TIDD 3-4	138 2	243138	05W.LIBERTYZ	243347	05TIDD 3-4	2	138	205 AEP	187	205	Base Case	0	-42.4	-	22.65	0	0.15%	0.15%	-0.10%
1215 243497 05DELANO	138	247862 05TUSCANY	138 1	243497	05DELANO	247862	05TUSCANY	1	138	205 AEP	383	449	Base Case	0	86.8	-	22.65	0	-0.02%	-0.02%	0.09%
1216 238819 02ILQ-12	138	239050 02PV Q2	138 1	238819	02ILQ-12	239050	02PV Q2	1	138	202 ATSI	225	295	Base Case	0	-51	-	22.64	0	-0.09%	-0.09%	-0.01%
1217 238871 02KY-HS	138	239154 02W.FREM	138 1	238871	02KY-HS	239154	02W.FREM	1	138	202 ATSI	251	290	Base Case	0	-56.7	-	22.59	0	-0.04%	-0.04%	-0.01%
1218 238985 02NASQ18	138	240248 02DLQ-18	138 1	238985	02NASQ18	240248	02DLQ-18	1	138	202 ATSI	137	174	Base Case	0	-30.9	-	22.58	0	-0.01%	-0.01%	0.00%
1219 238557 02B.M.F.	138	238715 02FERNWY	138 1	238557	02B.M.F.	238715	02FERNWY	1	138	202 ATSI	212	239	Base Case	0	-47.7	-	22.51	0	0.03%	0.03%	0.00%
1220 238597 02CADQ17	138	238984 02NASQ17	138 1	238597	02CADQ17	238984	02NASQ17	1	138	202 ATSI	137	174	Base Case	0	30.8	-	22.49	0	-0.02%	-0.02%	0.00%
1221 242945 05SW LIM	345	243122 05SW LIM	138 2	242945	05SW LIM	243122	05SW LIM	2	345/138	205 AEP	495	544	Base Case	0	111.3	-	22.48	0	0.06%	0.06%	0.11%
1222 238853 02KDTPQ1	138	239001 02NFLDQ1	138 1	238853	02KDTPQ1	239001	02NFLDQ1	1	138	202 ATSI	273	332	Base Case	0	-61.3	-	22.47	0	-0.14%	-0.14%	0.05%
1223 239030 020TTAWA	138	239154 02W.FREM	138 1	239030	020TTAWA	239154	02W.FREM	1	138	202 ATSI	251	290	Base Case	0	-56.4	-	22.47	0	-0.04%	-0.04%	-0.01%
1224 243099 05SHAWNR	138	243122 05SW LIM	138 1	243099	05SHAWNR	243122	05SW LIM	1	138	205 AEP	335	388	Base Case	0	-75.2	-	22.44	0	0.10%	0.10%	0.12%
1225 243217 05DEQUIN	345	243878 05MEADOW	345 1	243217	05DEQUIN	243878	05MEADOW	1	345	205 AEP	1409	1959	Base Case	0	316.2	-	22.44	0	0.09%	0.09%	0.45%
1226 238853 02KDTPQ1	138	238882 02LE Q-1	138 1	238853	02KDTPQ1	238882	02LE Q-1	1	138	202 ATSI	273	332	Base Case	0	61.2	-	22.42	0	0.00%	0.00%	0.00%
1227 238570 02BEAVER	138	238845 02JONSON	138 1	238570	02BEAVER	238845	02JONSON	1	138	202 ATSI	233	282	Base Case	0	52.1	-	22.37	0	-0.20%	-0.20%	-0.02%
1228 242607 05CLOVED	138	244746 05MT.UNION	138 1	242607	05CLOVRD	244746	05MT.UNION	1	138	205 AEP	251	335	Base Case	0	56.1	-	22.37	0	0.01%	0.01%	0.00%
1229 242585 05CAVE SPB1Z	138	246981 05SUNSCA	138 1	242585	05CAVE SPR17	246981	05SUNSCA	1	138	205 AEP	187	240	Base Case	0	-41.8		22.36	0	0.05%	0.05%	0.36%
1230 242849 05W.KINGSPT1	138	245220 05W.KINGSPT2	138 21	242849	05W.KINGSPT1	245220	0.5W.KINGSPT	2 7.1	138	205 AEP	307	307	Base Case	0	-68.6	-	22.36	0	-0.01%	-0.01%	0.04%
1231 242523 05BAKER	345	243670 05BAKEB	138 2	242523	05BAKER	243670	05BAKER	2	345/138	205 AEP	805	861	Base Case	0	179.9	-	22.35	0	0.19%	0.19%	0.11%
1232 246606 05WETZEL SS	138	247165 05SRUNSS	138 1	246606	05WETZEL SS	247165	05SBUNSS	1	138	205 AEP	226	286	Base Case	0	50.5	-	22.34	0	0.00%	0.00%	0.00%
1233 238629 02CLVBDL	138	239123 02STAR	138 1	238629	02CLVBDL	239123	02STAR	1	138	202 ATST	233	282	Base Case	0	51 9		22.29	0	-0.02%	-0.02%	0.09%
1234 238871 02KY-HS	138	239030 020772002	138 1	238871	02KV-HS	239030	0200773WA	1	138	202 ATST	251	290	Base Case	0	55.9	-	22.29	0	-0.04%	-0.04%	-0.01%
1235 238569 02PEAVED	345	239725 021 AKEAVE	345 1	239569	02DEAVED	230725	O2IAKEAVE	1	345	202 ATOT	1390	1646	Base Case	0	307.3	_	22.20	0	-1 20%	-1 29%	-0.09%
1236 238854 02KDTDO2	120	239992 021E 0-2	120 1	220005/	02BERVER	239723	OZIAREAVE	1	120	202 ATSI	272	2010	Base Case	0	60.7		22.20	0	0.00%	0.00%	0.00%
1230 230034 02KDIFQ5	130	240709 05 CHODE	130 1	230034	02KDIFQ5	230003	OZLE Q-3	1	130	202 A131	107	332	Base Case	0	41 6	074	22.23	0	0.00%	0.00%	0.00%
1237 242739 030REBANK	120	242796 055h0K1	130 1	242733	050KEBANK	242790	OFNDUTCC	1	130	205 AEF	150	200	Base Case	0	-41.0		22.23	0	-0.01/0	0.12%	-0.03%
1230 243161 032ANESV	120	247065 USNPHIS5	120 2	243101	OSZANESV	247003	OSNPHISS	1	130	205 AEP	105	212	Base Case	0	-33.3		22.2	0	0.15%	0.15%	0.02%
1243318 USJACKSUN RD	130	243305 USTWIN B	130 2	243318	ODDDKGTD	243385	OOMIT TON	2	138	203 AEP	185	255	Dase Case	U	41.1	-	22.2	0	-0.05%	-0.05%	-0.04%
1240 238586 UZBRKSID	138	239195 UZMILIRN	138 1	238586	UZBRKSID	239195	UZMILIRN	1	138	ZUZ ATSI	153	192	base Case	U	-33.9	-	22.15	0	-0.23%	-0.23%	0.04%
1241 238528 UZAETNA	138	238/U/ UZEVANS	138 1	238528	UZAETNA	238707	UZEVANS	1	138	202 ATS1	233	282	Base Case	0	-51.6	-	22.15	0	0.10%	0.10%	0.07%
1242 238845 02JONSON	138	239726 UZLAKEAVE	138 2	238845	UZJONSÓN	239726	U2LAKEAVE	2	138	202 ATSI	160	192	Base Case	0	-35.4	-	22.14	0	0.05%	0.05%	-0.02%
1243 250013 08DIMICK	138	250083 08P.UN2	138 1	250013	USDIMICK	250083	082.UN2	1	138	212 DEO&K	198	198	Base Case	0	-43.8	-	22.13	0	-0.05%	-0.05%	-0.03%
1244 238821 02INLAND	345	239358 02GLENWILLOW	345 1	238821	UZINLAND	239358	U2GLENWILLOW	N 1	345	202 ATSI	1542	1878	Base Case	0	-340.8	-	22.1	0	0.47%	0.47%	-0.11%
1245 239280 02CRNBRY	500	239281 U2CRNBRY	138 2	239280	UZCRNBRY	239281	U2CRNBRY	2	500/138	202 ATSI	751	902	Base Case	0	165.7	-	22.06	0	0.76%	0.76%	0.10%
1246 239280 02CRNBRY	500	239281 02CRNBRY	138 1	239280	02CRNBRY	239281	02CRNBRY	1	500/138	202 ATSI	751	902	Base Case	0	165.7	-	22.06	0	0.76%	0.76%	0.10%
1247 243068 05NZANEV	138	243161 05ZANESV	138 1	243068	05NZANEV	243161	05ZANESV	1	138	205 AEP	205	284	Base Case	0	45.2	-	22.04	0	-0.06%	-0.06%	-0.06%
1248 243572 05SHANON	138	244232 05SHANONRSS8	138 Z1	243572	05SHANON	244232	05SHANONRSS	8 Z1	138	205 AEP	329	350	Base Case	0	-72.5	-	22.03	0	-0.01%	-0.01%	0.01%
1249 238854 02KDTPQ3	138	239003 02NFLDQ3	138 1	238854	02KDTPQ3	239003	02NFLDQ3	1	138	202 ATSI	273	332	Base Case	0	-60.1	· · · · ·	22.03	0	-0.14%	-0.14%	0.04%
1250 242619 05DANVL1	138	242771 05RIVERS	138 1	242619	05DANVL1	242771	05RIVERS	1	138	205 AEP	251	251	Base Case	0	55.3		22.01	0	-0.03%	-0.03%	-0.27%
1251 239134 02TANGY	138	240706 02NATIONAL	138 1	239134	02TANGY	240706	02NATIONAL	1	138	202 ATSI	233	282	Base Case	0	51.3	-	22	0	0.05%	0.05%	-0.01%
1252 243674 05BELHAV	138	243676 05BELLF2	138 1	243674	05BELHAV	243676	05BELLF2	1	138	205 AEP	219	251	Base Case	0	48	-	21.92	0	0.02%	0.02%	0.05%
1253 238733 02FOXQ12	138	241935 02CLINTON	138 1	238733	02FOXQ12	241935	02CLINTON	1	138	202 ATSI	347	423	Base Case	0	75.8	-	21.83	0	0.10%	0.10%	0.02%
1254 242573 05CABELL	138	242866 05MERRIT	138 1	242573	05CABELL	242866	05MERRIT	1	138	205 AEP	167	167	Base Case	0	-36.5	-	21.83	0	-0.07%	-0.07%	-0.05%
1255 242842 05W HUNT	138	244462 05SHOALS	138 1	242842	05W HUNT	244462	05SHOALS	1	138	205 AEP	335	392	Base Case	0	73.1	-	21.83	0	-0.05%	-0.05%	-0.14%
1256 238531 02ALLNJ	138	239129 02SYLVNA	138 1	238531	02ALLNJ	239129	02SYLVNA	1	138	202 ATSI	308	376	Base Case	0	67.2	-	21.8	0	-0.05%	-0.05%	0.01%
1257 243254 05BURNWO	138	247433 05CHARGER	138 1	243254	05BURNWO	247433	05CHARGER	1	138	205 AEP	251	335	Base Case	0	-54.7		21.79	0	-0.09%	-0.09%	-0.06%
1258 238530 02ALLEN	345	256583 18MOROCCO	345 1	238530	02ALLEN	256583	18MOROCCO	1	345	202/218 ATSI/METC	1517	1793	Base Case	0	-330.1	-	21.76	0	-0.86%	-0.86%	-0.15%
1259 249989 08BKJ246	138	250000 08COLDSP	138 1	249989	08BKJ246	250000	08COLDSP	1	138	212 DEO&K	264	264	Base Case	0	57.4	-	21.74	0	0.03%	0.03%	0.01%
1260 242823 05TACKCR	138	242836 05TURNE1	138 1	242823	05TACKCR	242836	05TURNE1	1	138	205 AEP	296	296	Base Case	0	64.3	-	21.73	0	-0.06%	-0.06%	-0.07%

A	B C D	E	F	G	НІ	J	К	Ľ.	М	N	0 P	Q	R	S	T U
1261 243297 05GERMAN 138 243353 050LIVE 138 1	243297 05GERMAN 243353	050LIVE		L 138	205 AEP	257	330) Base Case	0	-55.8	- 21.7	3	0 - 0.09%	-0.09%	-0.06%
1262 242646 05FT.ROB SS 138 245802 05FT.ROBINSN 138 Z1	242646 05FT.ROB SS 245802	05FT.ROBINSN	Z1	138	205 AEP	164	180	Base Case	0	35.6	- 21.	7	0.00%	0.00%	0.01%
1263 243688 055. PORT MTR 138 244686 05VANCEBURG 138 Z1	243688 055. PORT MTR 244686	05VANCEBURG	Z1	138	205 AEP	29	29	Base Case	0	6.3	- 21.6	7	0.00%	0.00%	0.00%
1264 242765 05REUSENS1 138 246229 05REUSENS2 138 71	242765 05BEUSENS1 246229	05REUSENS2	71	138	205 AEP	136	167	Base Case	0	29.5	- 21.6	7	0 -0.10%	-0.10%	-0.11%
1265 243312 05HUMMET. 138 243367 05BOCKCB 138 1	243312 05HUMMEL 243367	05BOCKCB		138	205 AEP	251	273	Base Case	0	54 3	- 21.6	4	-0.03%	-0.03%	0.04%
1266 243217 05DEOUTN 345 243878 05MEDOW 345 2	243312 05060000 243879	05MEADOW		2 345	205 AED	1409	1050	Base Case	0	304.9	- 21.6	3	0.09%	0.09%	0.04%
1267 242227 05E201N 545 243070 05MEADOW 545 2	243217 05DEQ01N 243070	OSMEADOW		1 765/245	205 AEF	1679	1060	Base Case	0	262 0	- 21.0	2	0.03%	0.03%	1 79%
1260 242525 05RAMMER 705 242557 05RAMMER 545 4	242925 05RAMMER 242957	OSKAMMER		1 100/040	205 AEF	167	1000	Base Case	0	36 1	- 21.0	2	0 0.22%	-0.2278	0.27%
1260 242609 05CLITR2 136 242721 05MORGAN 136 1	242609 03CLI1R2 242721	05MORGAN		120	205 AEP	107	107	Base Case	0	17.2	- 21.6	2	0 0.07%	0.07%	0.27%
1209 242572 05B0RLHT 138 242607 05CLOVRD 138 1	242572 05BORLHT 242607	05CLOVRD		138	205 AEP	219	223	Base Case	0	-47.3	- 21.6	1	0 0.11%	0.11%	0.29%
1270 243292 USFALL C 138 246656 USPENDLETON2 138 1	243292 USFALL C 246656	USPENDLETON2		138	205 AEP	219	251	Base Case	U	47.3	- 21.6	1	0.00%	0.00%	0.03%
12/1 250043 08HANDS2 138 250047 08KENTN1 138 1	250043 08HANDS2 250047	08KENTN1		L 138	212 DEO&K	301	301	Base Case	0	65	- 21.	6	0.01%	0.01%	0.01%
1272 242529 05TRISTA 345 242835 05TRISTA 138 2	242529 05TRISTA 242835	05TRISTA		2 345/138	205 AEP	504	540) Base Case	0	108.9	- 21.	6	0 0.13%	0.13%	0.13%
12/3 243049 05NATRIUM12 138 243123 05SWITZE 138 1	243049 05NATRIUM12 243123	05SWITZE		138	205 AEP	187	240) Base Case	0	40.4	- 21.5	9	0 0.14%	0.14%	-0.03%
1274 238626 02CLAYBN 138 238873 02LAKMOR 138 1	238626 02CLAYBN 238873	02LAKMOR		1 138	202 ATSI	157	196	Base Case	0	33.9	- 21.5	9	0 -0.04%	-0.04%	0.05%
1275 242674 05HUFFCK 138 242779 05RUMCKZ 138 1	242674 05HUFFCK 242779	05RUMCKZ		L 138	205 AEP	296	413	Base Case	0	63.9	- 21.5	8	0 0.12%	0.12%	0.30%
1276 242964 05BOLIVA 138 243060 05NINTIE 138 1	242964 05BOLIVA 243060	05NINTIE		L 138	205 AEP	291	291	Base Case	0	62.8	- 21.5	7	0 0.42%	0.42%	-0.10%
1277 239318 02HENRTA 138 239319 02CAMDEN 138 1	239318 02HENRTA 239319	02CAMDEN		L 138	202 ATSI	158	190) Base Case	0	33.9	- 21.4	3	0.08%	0.08%	-0.11%
1278 242791 05SCHRIS 138 243874 05TECHDR 138 1	242791 05SCHRIS 243874	05TECHDR	1	L 138	205 AEP	158	167	Base Case	0	-33.8	- 21.4	2	0 0.13%	0.13%	0.11%
1279 243242 05ALLEN 138 243877 05DAWKNS 138 1	243242 05ALLEN 243877	05DAWKNS		L 138	205 AEP	167	245	Base Case	0	35.7	- 21.4	1	0.03%	0.03%	0.02%
1280 243207 05GRNTWN 765 243208 05JEFRSO 765 1	243207 05GRNTWN 243208	05JEFRSO		L 765	205 AEP	4047	4571	Base Case	0	-864.2	- 21.3	5	0 1.97%	1.97%	2.80%
1281 243572 05SHANON 138 246760 05REFUGE 138 1	243572 05SHANON 246760	05REFUGE		L 138	205 AEP	209	209	Base Case	0	44.6	- 21.3	5	0 -0.01%	-0.01%	0.01%
1282 242951 05ADDISONZ 138 243013 05GAVIN1 138 1	242951 05ADDISONZ 243013	05GAVIN1		1 138	205 AEP	167	167	Base Case	0	35.6	- 21.3	4	0 - 0.02%	-0.02%	0.10%
1283 246325 05NOTTINGH56 138 247131 05HOLLOWAY12 138 5	246325 05NOTTINGH56 247131	05HOLLOWAY12	1	5 138	205 AEP	278	339	Base Case	0	-59.3	- 21.3	3	0 - 0.03%	-0.03%	0.05%
1284 247131 05H0LLOWAY12 138 247460 05NOTTINGH34 138 6	247131 05HOLLOWAY12 247460	05NOTTINGH34		5 138	205 AEP	278	339	Base Case	0	59.3	- 21.3	2	- 0.03%	-0.03%	0.05%
1285 243242 05ALLEN 138 243391 05WAYNET 138 1	243242 05ALLEN 243391	05WAYNET		L 138	205 AEP	260	260) Base Case	0	55.4	- 21.	3	0.08%	0.08%	0.01%
1286 242935 05E LIMA 345 246929 05MADDOX 345 1	242935 05E LIMA 246929	05MADDOX		L 345	205 AEP	1868	1868	Base Case	0	-397.9	- 21.	3	0 -1.20%	-1.20%	-0.50%
1287 244658 05GRNTWN 138 249719 08DELCO 138 1	244658 05GRNTWN 249719	08DELCO		L 138	205/208 AEP/DEI	178	178	Base Case	0	37.9	- 21.2	9	0 0.01%	0.01%	-0.05%
1288 242914 05TIDD C XFL 138 243129 05TIDD C X 138 ZC	242914 05TIDD C XFL 243129	05TIDD C X	ZC	138	205 AEP	670	783	Base Case	0	142.6	- 21.2	8	0.03%	0.03%	-0.01%
1289 238664 02DOBINS 138 240214 02PENNANTTAP 138 1	238664 02DOBINS 240214	02PENNANTTAP		L 138	202 ATSI	278	339	Base Case	0	-59.1	- 21.2	4	0 -0.01%	-0.01%	0.06%
1290 239133 02TANGY 345 239134 02TANGY 138 5	239133 02TANGY 239134	02TANGY	1	5 345/138	202 ATSI	516	655	Base Case	0	109.5	- 21.2	2	0 0.02%	0.02%	0.07%
1291 240246 02CK 015 138 240247 02CK TP15 138 1	240246 02CK 015 240247	02CK TP15	3	138	202 ATSI	100	129	Base Case	0	-21.2	- 21.2	1	0.00%	0.00%	0.00%
1292 239056 02R.M. + 138 239062 02REACMT 138 1	239056 02R.M. + 239062	02REACMT		L 138	202 ATSI	57	57	Base Case	0	12.1	- 21.2	1	0.00%	0.00%	0.00%
1293 243585 05WAVERL 138 246942 05WARERD 138 1	243585 05WAVERL 246942	05WARERD		138	205 AEP	223	310) Base Case	0	47.3	- 21.	2	0 0.10%	0.10%	0.07%
1294 243471 05BETHEL 138 243560 05BOBERT 138 2	243471 05BETHEL 243560	05ROBERT		2 138	205 AEP	223	226	Base Case	0	-47.2	- 21.1	8	-0.04%	-0.04%	0.00%
1295 243536 05LS-TT 138 243539 05MARTON 138 1	243536 05LS-TT 243539	05MARION		138	205 AEP	426	426	Base Case	0	90.1	- 21.1	5	0.07%	0.07%	0.00%
1296 242712 05MARTN2 138 242744 05PATCTR 138 1	242712 05MARTN2 242744	05PATCTR		138	205 AEP	293	341	Base Case	0	62	- 21.1	4	-0.03%	-0.03%	0.24%
1297 243003 05EXVETTE 7 138 245615 058 DOINT2 138 1	243003 05FAVETTE 7 245615	055 POINT2		138	205 AFP	167	167	Base Case	0	= 35 3	- 21.1	2	-0.03%	-0.03%	0.07%
1298 238551 02aVON 345 238850 02.1UNTEE 345 1	238551 022VON 238850	02.TUNT PE		345	202 ATST	1228	1424	Base Case	0	259.2	- 21.1	1	-1.82%	-1.82%	-0.27%
1200 238645 02CW TP1 138 241827 025001 138 1	238645 02CW TP1 241927	020001		1 120	202 AISI	1220	516	Base Case	0	-92.6	- 21.1	1	-1.82%	-0.26%	-0.03%
1200 246752 05VACCET 245 246752 05VACCET 120 2	236043 02CW IFI 241327	OEWARGET		2 245/120	205 APD	435	017	Base Case	0	142 5	- 21.	1	0.20%	0.07%	0.04%
1201 2205 CO 020000 120 120 220140 02001 120 1	240732 UJVASSEL 240733	OOVASSEL		120	203 AEF	200	047	Base Case	0	42.0	- 21.	0	0.01%	0.07%	0.04%
1302 242241 0531 PTON 139 242254 0500000 120 1	243241 0551 PTON 242254	05 PUPNING		1 130	202 AIDI	200	223	Page Case	0	-16 1		5	-0.04%	-0.04%	-0.06%
1202 23241 UJALBIUN 130 243234 UJBURNWU 138 1	243241 USALBIUN 243234	0.2 ONTRA DO		130	200 AEP	219	200	Base Case	0	-40.1	- 21.0	2	0.09%	-0.05%	0.00%
1204 245005 020HTMB ITER 120 239028 020NTAKU 138 1	245005 05NEW 17552 042512	05 DOUTINE		130	202 AISI	31/	202	Dase Case	U	-00./	- 21.0	2	0.20%	-0.20%	0.05%
1305 242505 0501MCMD 128 242703 05001WELL 138 1	243505 USNEW LIBR2 24/513	058EVTON		1 130	205 AEP	210	212	Dase Case	0	-31.5	21.0	2	0.00%	-0.00%	0.00%
1305 242005 USULNUHK 138 242/93 USSEXTON 138 1	242605 USCLINCHR 242793	USSEXTON		138	ZUS AEP	219	223	base Case	0	46	- 21.0	2	0.02%	-0.02%	-0.19%
1300 259154 UZW.FKEM 138 Z3929U UZHAYES 138 1	239134 UZW.FREM 239290	02HAIES		138	202 ATSI	278	339	base Case	0	38.4	- 21.0	2	0.120	-0.23%	-0.04%
130/ 242529 USTRISTA 345 242835 USTRISTA 138 1	242529 USTRISTA 242835	USTRISTA	-	1 345/138	205 AEP	504	540	Base Case	0	105.9	- 21.0	2	0.12%	0.12%	0.13%
1300 242552 USBENT M 138 242708 05M FUNK 138 1	242552 USBENT M 242708	UOM FUNK		138	205 AEP	167	224	Base Case	0	-35.1	- 21.0	2	0.07%	-0.0/%	-0.42%
1309 243543 05MILLCR 138 247804 05DEVOLA 138 1	243543 05MILLCR 247804	USDEVOLA		L 138	205 AEP	244	282	Base Case	0	51.2	- 2		0.27%	0.27%	0.20%
1310 250030 08FRDBT1 138 250031 08FRDBT2 138 Z1	250030 08FRDBT1 250031	U8FRDBT2	21	138	212 DEO&K	382	382	Base Case	0	-80.2	- 20.9	9	0.03%	0.03%	0.03%
1311 243471 05BETHEL 138 243479 05BROOKS 138 1	243471 05BETHEL 243479	05BROOKS		L 138	205 AEP	389	559	Base Case	0	-81.7	- 20.9	9	0.04%	0.04%	0.00%
1312 235404 01S CHST 138 242990 05E LIVR 138 1	235404 01S CHST 242990	05E LIVR		L 138	201/205 AP/AEP	187	205	Base Case	0	39.2	- 20.9	8	0.06%	0.06%	0.00%
1313 238845 02JONSON 138 239726 02LAKEAVE 138 1	238845 02JONSON 239726	02LAKEAVE		L 138	202 ATSI	265	339	Base Case	0	-55.6	- 20.9	7	0 0.07%	0.07%	-0.03%
1314 247374 05MUSKNG2B 138 247435 05MUSKNG_ESZ 138 ZJ	247374 05MUSKNG2B 247435	05MUSKNG_ESZ	ZJ	138	205 AEP	766	784	Base Case	0	-160.6	- 20.9	7	0 -0.18%	-0.18%	0.05%
1315 243665 05LESLIE 161 243667 05STINNE 161 1	243665 05LESLIE 243667	05STINNE		L 161	205 AEP	208	208	Base Case	0	-43.6	- 20.9	5	0 -0.03%	-0.03%	0.05%
1316 243249 05BEECH 138 243260 05CNTYRD 138 1	243249 05BEECH 243260	05CNTYRD		L 138	205 AEP	205	284	Base Case	0	43	- 20.9	5	-0.04%	-0.04%	-0.02%
1317 250119 08TWYMI1 138 250120 08TWYMI2 138 Z1	250119 08TWYMI1 250120	08TWYMI2	Z1	138	212 DEO&K	394	394	Base Case	0	82.4	- 20.	9	0.05%	0.05%	0.03%
1318 238783 02HARDIN 345 238795 02HDGQ14 138 4	238783 02HARDIN 238795	02HDGQ14		4 345/138	202 ATSI	397	488	Base Case	0	82.9	- 20.8	8	0 0.07%	0.07%	0.00%
1319 239986 02NEWSTACY 138 239988 02FE-POLO 138 1	239986 02NEWSTACY 239988	02FE-POLO		L 138	202 ATSI	275	333	Base Case	0	57.4	- 20.8	6	0 -0.13%	-0.13%	0.07%
1320 243484 05CITYCO 138 243494 05CTYPLN 138 1	243484 05CITYCO 243494	05CTYPLN		l 138	205 AEP	262	266	Base Case	0	54.6	- 20.8	6	0.00%	0.00%	0.00%

A	B C	D E	F G	H I	J	K L M	N O	Р	Q R	S	T U
1321 246325 05NOTTINGH56 138 247700 05YAGER 138 2	246325 05NOTTINGH56	247700 05YAGER	2 138	205 AEP	278	339 Base Case 0	57.9 -	20.84	0 -0.03%	-0.03%	0.04%
1322 238613 02CF Q-4 138 238742 02FWLSQ4 138 1	238613 02CF Q-4	238742 02FWLSQ4	1 138	202 ATSI	265	332 Base Case 0	55.1 -	20.81	0 -0.25%	-0.25%	-0.03%
1323 238615 02CHAMBR 345 238783 02HARDIN 345 1	238615 02CHAMBR	238783 02HARDIN	1 345	202 ATSI	1555	1892 Base Case 0	323.2 -	20.78	0 0.16%	0.16%	0.39%
1324 242822 05SWITCHBACK 138 244866 05THORPE SS 138 1	242822 05SWITCHBACK	244866 05THORPE SS	1 138	205 AEP	287	337 Base Case 0	-59.6 -	20.78	0 -0.11%	-0.11%	-0.29%
1325 238768 02GRNFLD 138 239290 02HAYES 138 1	238768 02GRNFLD	239290 02HAYES	1 138	202 ATSI	278	339 Base Case 0	-57.7 -	20.77	0 -0.02%	-0.02%	-0.01%
1326 239073 02ROBERT 138 239308 02MR-ETH 138 1	239073 02ROBERT	239308 02MR-ETH	1 138	202 ATSI	160	192 Base Case 0	-33.2 -	20.77	0 0.07%	0.07%	-0.08%
1327 238915 02LRN 02 138 239734 02CHARLESTON 138 1	238915 02LRN 02	239734 02CHARLESTON	1 138	202 ATSI	435	500 Base Case 0	-89.9 -	20.66	0 -0.38%	-0.38%	-0.03%
1328 238569 02BEAVER 345 239725 02LAKEAVE 345 2	238569 02BEAVER	239725 02LAKEAVE	2 345	202 ATSI	1534	1878 Base Case 0	316.6 -	20.64	0 -1.33%	-1.33%	-0.09%
1329 243217 05DEOUIN 345 249524 08WESTW2 345 2	243217 05DEOUTN	249524 08WESTW2	2 345	205/208 AEP/DET	1025	1217 Base Case 0	210.9 -	20.57	0 -0.02%	-0.02%	-0.04%
1330 238737 02FRNKLN 138 240068 02STAR FORGE 138 1	238737 02FRNKLN	240068 02STAR FORGE	1 138	202 ATST	200	242 Base Case 0	-41 -	20.52	0 -0.01%	-0.01%	0.00%
1331 238570 02BEAVER 138 239168 02WEINGT 138 1	238570 02BEAVER	239168 02WELNGT	1 138	202 ATST	278	339 Base Case 0	57 -	20.52	0 0.03%	0.01%	-0.08%
1337 230370 020EAVER 130 233100 02WEEKGI 130 1 1327 230746 0201 TON 130 233100 02WEEKGI 130 1	238376 0201 TON	239100 02WELINGI	1 130	202 ATSI	196	229 Page Case 0	40.2 -	20.51	0 0.03%	0.03%	-0.08%
1332 236740 02GALION 130 524750 AB2-151 TAF 130 1	238746 02GALION	224750 AB2-151 IAF	1 120	202 ATSI	200	220 Base Case 0	40.2 -	20.51	0 0.01%	0.01%	-0.08%
1333 236363 UZBRIDGE 136 236757 UZFRNALN 136 1	230303 02BRIDGE	238737 UZERNALN	1 100	202 A151	200	242 base case 0	-41 -	20.31	0 -0.01%	-0.01%	0.00%
1334 238/// UZHAMIL+ 138 924/90 ABZ-131 TAP 138 1	238777 02HAMIL+	924790 AB2-131 TAP	1 138	202 ATSI	196	228 Base case 0	-40.2 -	20.49	0 0.07%	0.07%	-0.08%
1335 243127 05TIDD 1-2 138 243347 05TIDD 3-4 138 22	243127 05TIDD 1-2	243347 05TIDD 3-4	22 138	205 AEP	946	996 Base Case 0	193.6 -	20.47	0 -0.31%	-0.31%	-0.13%
1336 243127 05TIDD 1-2 138 243347 05TIDD 3-4 138 Z1	243127 05TIDD 1-2	243347 05TIDD 3-4	Z1 138	205 AEP	946	996 Base Case 0	193.6 -	20.47	0 -0.31%	-0.31%	-0.13%
1337 243139 05WAGENHALS2 138 244943 05PACKARD BP 138 1	243139 05WAGENHALS2	244943 05PACKARD BP	1 138	205 AEP	287	327 Base Case 0	58.7 -	20.46	0 0.02%	0.02%	0.01%
1338 243072 05PACKARD 138 243134 05W.CANTON1 138 1	243072 05PACKARD	243134 05W.CANTON1	1 138	205 AEP	205	205 Base Case 0	41.9 -	20.45	0 0.03%	0.03%	0.01%
1339 242547 05BAILS2 138 242696 05KOPPER 138 1	242547 05BAILS2	242696 05KOPPER	1 138	205 AEP	223	223 Base Case 0	45.5 -	20.4	0 -0.02%	-0.02%	0.15%
1340 243528 05KARL ROAD 138 243547 05MORSE 138 1	243528 05KARL ROAD	243547 05MORSE	1 138	205 AEP	338	338 Base Case 0	-68.8 -	20.35	0 0.07%	0.07%	0.02%
1341 238798 02HKQ-21 138 239052 02PV Q4 138 1	238798 02HKQ-21	239052 02PV Q4	1 138	202 ATSI	148	151 Base Case 0	-30.1 -	20.33	0 0.02%	0.02%	-0.08%
1342 239048 02PPPINE 138 239281 02CRNBRY 138 3	239048 02PPPINE	239281 02CRNBRY	3 138	202 ATSI	200	241 Base Case 0	-40.7 -	20.33	0 0.02%	0.02%	0.00%
1343 243279 05DIAMND 138 243304 05GUARDN 138 1	243279 05DIAMND	243304 05GUARDN	1 138	205 AEP	226	286 Base Case 0	-45.9 -	20.31	0 -0.09%	-0.09%	-0.06%
1344 243120 05SUNNYSIDE1 138 246267 05WAGENHALS1 138 1	243120 05SUNNYSIDE1	246267 05WAGENHALS1	1 138	205 AEP	296	392 Base Case 0	60.1 -	20.31	0 -0.18%	-0.18%	0.06%
1345 238666 02DS Q-3 138 238672 02DW Q-3 138 1	238666 02DS Q-3	238672 02DW Q-3	1 138	202 ATSI	273	332 Base Case 0	-55.4 -	20.28	0 -0.19%	-0.19%	-0.02%
1346 242939 05MARYSV 345 242945 05SW LIM 345 1	242939 05MARYSV	242945 05SW LIM	1 345	205 AEP	971	971 Base Case 0	196.3 -	20.22	0 0.56%	0.56%	0.47%
1347 238734 02FOXQ13 138 241935 02CLINTON 138 1	238734 02F0XQ13	241935 02CLINTON	1 138	202 ATSI	347	423 Base Case 0	70.1 -	20.22	0 0.09%	0.09%	0.01%
1348 242922 05FLTLCK 765 242923 05GAVIN 765 1	242922 05FLTLCK	242923 05GAVIN	1 765	205 AEP	4047	4349 Base Case 0	-818.1 -	20.21	0 1.88%	1.88%	4.15%
1349 243286 05EDISON2 138 246075 05EDISON1 138 ZA	243286 05EDISON2	246075 05EDISON1	ZA 138	205 AEP	277	277 Base Case 0	-56 -	20.2	0 -0.08%	-0.08%	-0.05%
1350 242646 05FT.ROB SS 138 242738 050REBANK BP 138 1	242646 05FT.ROB SS	242738 050REBANK BP	1 138	205 AEP	187	205 Base Case 0	-37.7 -	20.18	0 0.03%	0.03%	-0.07%
1351 243150 05WMTLLP 138 243818 05NFATRE 138 1	243150 05WMILLP	243818 05NFAIRE	1 138	205 AEP	200	200 Base Case 0	40.4 -	20.18	0 0.00%	0.00%	0.00%
1352 247064 05KANAWHA2 138 247068 05KANAWH ASZ 138 ZT	247064 05KANAWHA2	247068 05KANAWH ASZ	ZT 138	205 AEP	287	337 Base Case	-57.9 -	20.17	0 0.01%	0.01%	-0.09%
1353 243033 05THORNWD SS 138 247172 05EBERSO 138 1	243033 05THORNWD SS	247172 05EBEBS0	1 138	205 AEP	205	283 Base Case	-41.3 -	20.16	0 0.01%	0.01%	0.00%
1354 242569 05BRUSHT 138 242734 05NEWLDN 138 1	242569 05BRUSHT	242734 05NEWLDN	1 130	205 AFP	205	207 Base Case 0	-41.3 -	20.16	0 0.01%	0.01%	0.44%
1355 232015 02NGTAD 345 232018 02FULTON 345 1	239015 02NGTAR	239018 02FULTON	1 345	203 ABI	725	865 Base Case 0	-145.9 -	20.10	0 0.00%	0.01%	0.00%
1256 242247 05 TTD 2-4 128 247775 05 TVON 82 128 1	243247 05#IDD 2-4	247775 05DIXON 88	1 120	202 AISI	107	240 Page Case 0	27.6	20.13	0 0.00%	0.00%	0.00%
1350 243347 0511DD 3-4 138 247775 05DIXON SS 138 1	243547 USTIDD 3-4	247775 USDIXUN SS	1 245/120	205 AEP	107	240 Base Case 0	37.0 -	20.1	0 0.14%	0.14%	-0.09%
1357 242527 USM FUNK 345 245845 USMFUNKI_XFL 138 1	242527 05M FUNK	245845 05MFUNKI_XFL	1 345/138	205 AEP	823	948 Base case 0	165.2 -	20.07	0 0.04%	0.04%	-0.30%
1358 238841 02JNPRQ2 138 239050 02PV Q2 138 1	238841 02JNPRQ2	239050 02PV Q2	1 138	202 ATS1	267	332 Base Case 0	53.6 -	20.06	0 0.16%	0.16%	0.01%
1359 243139 05WAGENHALS2 138 243772 05LTV2 138 2	243139 U5WAGENHALS2	243772 05LTV2	2 138	205 AEP	296	296 Base Case 0	59.3 -	20.03	0 0.00%	0.00%	0.00%
1360 243309 05HILLCR 138 243391 05WAYNET 138 1	243309 05HILLCR	243391 05WAYNET	1 138	205 AEP	219	255 Base Case 0	-43.9 -	20.03	0 0.08%	0.08%	0.01%
1361 242982 05CENPOR 138 243047 05N PORT 138 1	242982 05CENPOR	243047 05N PORT	1 138	205 AEP	219	251 Base Case 0	-43.8 -	19.99	0 -0.01%	-0.01%	-0.02%
1362 242760 05PROGPK 138 242858 05WYTHE1 138 1	242760 05PROGPK	242858 05WYTHE1	1 138	205 AEP	285	337 Base Case 0	-57 -	19.99	0 -0.11%	-0.11%	-0.06%
1363 242564 05BRADL1 138 242565 05BRADL2 138 Z1	242564 05BRADL1	242565 05BRADL2	Z1 138	205 AEP	285	361 Base Case 0	-56.9 -	19.98	0 -0.09%	-0.09%	-0.24%
1364 242682 05JIM BRANCH 138 242854 05W.WELCH SS 138 1	242682 05JIM BRANCH	242854 05W.WELCH SS	1 138	205 AEP	335	392 Base Case 0	-66.9 -	19.98	0 -0.05%	-0.05%	-0.30%
1365 238663 02DLQ-15 138 238739 02FWLSQ1 138 1	238663 02DLQ-15	238739 02FWLSQ1	1 138	202 ATSI	273	332 Base Case 0	-54.5 -	19.97	0 0.02%	0.02%	0.00%
1366 243159 05WPHILO 138 247083 05NPHISS 138 1	243159 05WPHILO	247083 05NPHISS	1 138	205 AEP	167	245 Base Case 0	33.3 -	19.95	0 0.13%	0.13%	0.02%
1367 243528 05KARL ROAD 138 247510 05KARL RD123 138 Z1	243528 05KARL ROAD	247510 05KARL RD123	Z1 138	205 AEP	158	183 Base Case 0	31.5 -	19.92	0 0.00%	0.00%	0.00%
1368 243528 05KARL ROAD 138 247510 05KARL RD123 138 Z2	243528 05KARL ROAD	247510 05KARL RD123	Z2 138	205 AEP	158	183 Base Case 0	31.5 -	19.92	0 0.00%	0.00%	0.00%
1369 243528 05KARL ROAD 138 247510 05KARL RD123 138 Z3	243528 05KARL ROAD	247510 05KARL RD123	Z3 138	205 AEP	158	183 Base Case 0	31.5 -	19.92	0 0.00%	0.00%	0.00%
1370 239353 02HARMON 345 239354 02HARMON 138 1	239353 02HARMON	239354 02HARMON	1 345/138	202 ATSI	609	689 Base Case 0	121.2 -	19.91	0 0.04%	0.04%	0.03%
1371 250037 08GLNVW2 138 250049 08KLEMN2 138 1	250037 08GLNVW2	250049 08KLEMN2	1 138	212 DEO&K	268	268 Base Case 0	-53.3 -	19.9	0 -0.03%	-0.03%	0.01%
1372 243581 05TAYLOR 138 244020 05MINK 138 1	243581 05TAYLOR	244020 05MINK	1 138	205 AEP	335	338 Base Case 0	-66.7 -	19.9	0 0.03%	0.03%	0.00%
1373 238831 02IWQ-17 138 239211 02I0Q-17 138 1	238831 02IWQ-17	239211 02I0Q-17	1 138	202 ATSI	273	332 Base Case 0	54.3 -	19.88	0 -0.05%	-0.05%	0.02%
1374 235383 01PARKER 138 243470 05BELPRE 138 1	235383 01PARKER	243470 05BELPRE	1 138	201/205 AP/AEP	251	290 Base Case 0	49.9 -	19.88	0 0.24%	0.24%	0.14%
1375 242793 05SEXTON 138 245222 05W.KINGS BP 138 1	242793 05SEXTON	245222 05W.KINGS BP	1 138	205 AEP	205	205 Base Case 0	40.7 -	19.87	0 -0.02%	-0.02%	-0.19%
1376 253011 09CARGIL 138 253056 09NORTHR 138 1	253011 09CARGI1	253056 09NORTHR	1 138	209 DAY	196	241 Base Case 0	-38.9 -	19.87	0 0.00%	0.00%	-0.01%
1377 242722 05MORLAN 138 245222 05W KINGS BP 138 1	242722 05MOBLAN	245222 05W KINGS BP	1 138	205 AEP	205	205 Base Case 0	-40.7 -	19.85	0 -0.02%	-0.02%	-0.19%
1378 243522 05HADDISON 138 243593 0570BED 130 1	243522 05HAPPTCON	243593 05711BED	1 120	205 AFP	126	167 Base Case 0	-27 -	19.05	0 _0.02%	-0.05%	-0.13%
1379 253010 098119DOX 138 253053 00100ER 130 1	253010 000000V	253053 00NEEDMO	1 100	200 020	106	241 Base Case 0	38.9 -	10.03	0 0.00%	0.05%	0.02%
1290 240000 023 COMPT 120 250106 00MEMORE 120 1	240090 003 comm	255055 0 9NEEDMO	1 138	209 DAI	190	277 Page Case 0	50.9 -	10.00	0 0.00%	0.00%	0.02%
1300 243200 00WGSINE 130 730120 00WENDWE 138 1	249900 UCAGSINE	2 JOI 20 NOWENDWE	138	ZIZUEUAK	2/1	ZII Base Case	34.9 -	19.83	0 0.04%	0.04%	0.04%

			A		В	С	D E	F	G	н	J	K L	M N	0	P Q	R	S	T U
1381	238813 02HOYTDL	138	238866 02KOPL S	138 1	238813	02HOYTDL	238866 02KOPL S		1 138	202 ATSI	278	339 Base Case	0 55	2 <u>00</u>	19.79 0	0.00%	0.00%	0.00%
1382	243241 05ALBION	138	243375 05SKINNR	138 1	243241	05ALBION	243375 05SKINNR		1 138	205 AEP	219	251 Base Case	0 43.3	-	19.79 0	-0.05%	-0.05%	-0.03%
1383	243058 05NEWARK CTR	138	243488 05CONESVILLE	138 1	243058	05NEWARK CTR	243488 05CONESVILL	E	1 138	205 AEP	348	407 Base Case	0 -68.8	-	19.76 0	0.06%	0.06%	-0.03%
138/	238573 02BELEVII	138	239147 02077722	138 1	238573	02BELEVII	239147 0207722		1 138	202 ATST	216	264 Base Case	0 42 7	-	19.76 0	0.04%	0.04%	-0.01%
1385	240096 09051 1115	130	250134 08VOPK	130 1	210096	OPPELVUE	250134 08VOPK	_	1 130	212 PEOK	200	209 Base Case	0 50 0		19.70 0	-0.01%	-0.01%	0.00%
1296	243500 00BELVUE	120	242717 0510KK	120 1	249900	05CUDDY	242717 05MTLTON	-	1 120	205 250	167	167 Base Case	0 30.0		10.74 0	0.01%	0.06%	0.05%
1207	242010 03CORRI	130	242/17 05MILION	130 1	242010	0 SCORRI	242717 05MILION	-	1 130	203 AEF	107	107 Base Case	0 55		19.74 0	0.00%	0.00%	0.03%
1207	238801 02HL Q-2	130	238811 02HO Q-2	130 1	230001	OZHL Q-Z	238811 02H0 Q-2	-	1 130	202 AISI	205	203 Base Case	0 -40.5	-	19.74 0	0.01%	0.01%	0.02%
1300	242552 USBENT M	138	242601 USCLEARB	138 1	242552	USBENT M	242601 USCLEARB	-	1 138	205 AEP	158	183 Base Case	0 31.2	-	19.73 0	-0.07%	-0.07%	-0.42%
1385	238538 UZAPRQ-1	138	238810 02HO Q-1	138 1	238538	02APRQ-1	238810 02H0 Q-1	_	1 138	202 ATS1	265	349 Base Case	0 52.1	-	19.66 0	0.01%	0.01%	0.01%
1390	239353 02HARMON	345	239354 02HARMON	138 2	239353	02HARMON	239354 U2HARMON	-	2 345/138	202 ATS1	612	693 Base Case	0 120.3	-	19.66 0	0.04%	0.04%	0.03%
1391	242669 05HOLST1	138	360476 4BOONE HP	138 1	242669	05HOLST1	360476 4BOONE HP	_	1 138	205/347 AEP/TVA	191	191 Base Case	0 -37.5	-	19.63 0	0.00%	0.00%	-0.02%
1392	243285 05E.SIDE	138	243380 05STDBKR	138 1	243285	05E.SIDE	243380 05STDBKR		1 138	205 AEP	251	251 Base Case	0 -49.3	-	19.63 0	0.03%	0.03%	0.02%
1393	238560 02BABB	138	239161 02WAKRON	138 1	238560	02BABB	239161 02WAKRON	_	1 138	202 ATSI	200	242 Base Case	0 -39.2	-	19.62 0	-0.08%	-0.08%	-0.03%
1394	243578 05STRODZ	138	243579 05STROUD	138 1	243578	05STRODZ	243579 05STROUD	_	1 138	205 AEP	149	180 Base Case	0 29.2	-	19.59 0	0.01%	0.01%	-0.01%
1395	250100 08SMRSD1	138	250158 088MIRDJ	138 1	250100	08SMRSD1	250158 088MIRDJ		1 138	212 DEO&K	301	301 Base Case	0 -59	-	19.59 0	0.00%	0.00%	0.00%
1396	243014 05GRBLOP	138	245476 05ROB PK34	138 1	243014	05GRBLOP	245476 05ROB PK34		1 138	205 AEP	219	255 Base Case	0 -42.8	-	19.57 0	-0.08%	-0.08%	0.03%
1397	243778 05TIMKEN B	138	245001 05TIMKEN C	138 Z1	243778	05TIMKEN B	245001 05TIMKEN C	Z1	138	205 AEP	285	302 Base Case	0 -55.8	-	19.56 0	0.07%	0.07%	-0.02%
1398	243313 05HUNT J	138	243367 05ROCKCR	138 1	243313	05HUNT J	243367 05ROCKCR		1 138	205 AEP	257	337 Base Case	0 -50.2	-	19.53 0	-0.03%	-0.03%	0.04%
1399	239217 02REEDSB	138	246325 05NOTTINGH56	138 1	239217	02REEDSB	246325 05NOTTINGH5	6	1 138	202/205 ATSI/AEP	233	282 Base Case	0 -45.4	-	19.5 0	0.14%	0.14%	0.04%
1400	243161 05ZANESV	138	247497 05CLOUSE	138 1	243161	05ZANESV	247497 05CLOUSE		1 138	205 AEP	150	167 Base Case	0 29.2	-	19.49 0	0.07%	0.07%	-0.04%
1401	243526 05HYATT	138	247199 05AMLIN	138 1	243526	05HYATT	247199 05AMLIN		1 138	205 AEP	564	747 Base Case	0 109.7	-	19.46 0	0.05%	0.05%	0.01%
1402	243003 05FAYETTE Z	138	243095 05SCOTTOWNSS	138 1	243003	05FAYETTE Z	243095 05SCOTTOWNS	S	1 138	205 AEP	167	167 Base Case	0 32.5	-	19.44 0	-0.03%	-0.03%	0.07%
1403	243492 05CORWIN	138	247791 05ELK	138 1	243492	05CORWIN	247791 05ELK		1 138	205 AEP	219	255 Base Case	0 42.5	-	19.42 0	-0.06%	-0.06%	0.07%
1404	242607 05CLOVRD	138	243883 05LAKEFR	138 1	242607	05CLOVRD	243883 05LAKEFR	-	1 138	205 AEP	205	284 Base Case	0 39.8	-	19.4 0	-0.01%	-0.01%	-0.23%
1405	247132 05ELLISN	138	247831 05DALMATN SS	138 1	247132	05ELLISN	247831 05DALMATN S	s	1 138	205 AEP	293	341 Base Case	0 56.8	-	19.38 0	-0.02%	-0.02%	0.01%
1406	243215 05COOK	345	243229 050LIVE	345 1	243215	05COOK	243229 050LIVE		1 345	205 AEP	1188	1409 Base Case	0 230	-	19.36 0	0.66%	0.66%	0.17%
1407	242546 05BAILS1	138	242559 05BOLT Z	138 1	242546	05BAILS1	242559 05BOLT Z		1 138	205 AEP	223	223 Base Case	0 43.1	-	19.35 0	-0.03%	-0.03%	0.17%
1408	240346 02GROVWD011	138	241935 02CLINTON	138 ZL	240346	02GROVWD011	241935 02CLINTON	ZL	138	202 ATSI	347	423 Base Case	0 -67.1	-	19.33 0	0.00%	0.00%	0.00%
1409	242593 05CHEM 2	138	242617 05DALEWD	138 1	242593	05CHEM 2	242617 05DALEWD		1 138	205 AEP	296	398 Base Case	0 -57.1		19.28 0	-0.05%	-0.05%	-0.06%
1410	239076 02BOSS	138	239237 02CLVB-S	138 1	239076	028055	239237 02CLVB-S		1 138	202 ATST	251	290 Base Case	0 -48 3	-	19.26 0	0.36%	0.36%	0.07%
1411	243560 05ROBERT	138	243588 05WILSON	138 1	243560	05ROBERT	243588 05WTLSON		1 138	205 AEP	196	247 Base Case	0 37 7	_	19.22 0	0.04%	0.04%	-0.01%
1412	242989 05E LIMA	138	243066 05NW LTM	138 1	242989	OSE LIMA	243066 05NW LTM		1 138	205 AEP	205	205 Base Case	0 39.4	_	19.22 0	0.01%	0.01%	-0.06%
1413	243485 05CLINTO	138	243576 05ST CLX	138 1	243485	05CLINTO	243576 05ST CLX		1 138	205 AEP	142	179 Base Case	0 27 3	-	19.21 0	-0.01%	-0.01%	-0.03%
1/1/	242631 05EDAN 1	130	242632 05FDAN 2	130 71	243403	OSEDAN 1	243632 05EDAN 2	71	1 130	205 AEF	296	296 Page Case	0 _56.9	-	10.21 0	0.01%	0.18%	1 / 8%
1/15	242051 05EDAN 1	139	242753 05BDAN 2	139 1	242051	05 DINCKZ	242052 05EDAN 2		1 139	205 AEP	52	52 Base Case	0 10	-	19.2 0	0.00%	0.00%	0.00%
1416	242752 USFINCKZ	120	242755 05FINECK	120 1	242752	OSCAUE ODD27	242733 05FINECK	-	1 120	205 AEF	107	240 Base Case	0 _25.0		10.2 0	0.00%	-0.02%	0.19%
1/17	242300 03CAVE STR22	120	242013 0531ARRE	120 1	242300	05CAVE SINZZ	242015 055TARRE	6	1 120	205 AEF	747	240 Dase Case	0 143.4		10.2 0	-0.03%	-0.01%	-0.01%
1417	243491 USCORRID	120	243836 05306 31 1-0	130 1	243491	OSCORRID	243030 05000 31 1-	0	1 130	205 AEP	206	412 Dase Case	0 56.9		10.10 0	-0.01%	-0.01%	-0.01%
1410	243433 USDUBLIN	130	24/133 UJAMLIN	1 0 CT	243499	05DUBLIN	24/133 USAMLIN	v	1 138	200 AEP	290	1060 Date Case	0 - 36.8		10.10	-0.02%	-0.02%	-0.01%
1419	243219 USDUMUNT	120	243918 USELDERBERRY	120 1	243219	OSCOVE ODDOG	243910 USETDERBERK	.1	1 100	205 AEP	107	205 Base Case	0 -270.3	-	10,10	-0.00%	-0.00%	-0.05%
1420	242366 USCAVE SPR2Z	138	242003 USHANCKI	130 1	242586	USCAVE SPRZZ	242663 USHANCKI	-	1 245 /122	205 AEP	18/	200 Base Case	0 35.9	-	19.18 0	-0.03%	-0.03%	-0.18%
1421	242945 USSW LIM	345	243122 USSW LIM	130 1	242945	USSW LIM	243122 USSW LIM	~	1 343/138	205 AEP	5/4	5/9 Base Case	0 110.1	-	19.18 0	0.00%	0.00%	0.11%
1422	243098 USMURGEK	138	244088 USBEAVER CR2	138 1	243698	U DMORGEK	244688 U5BEAVER CR	2	1 138	205 AEP	223	223 Base Case	0 -42.7		19.16 0	0.00%	0.00%	0.1/%
1423	238954 UZMCDOWL	138	239934 UZHEASLEY	138 1	238954	U∠MCDOWL	239934 U2HEASLEY		1 138	202 ATSI	1/6	229 Base Case	0 -33.7	-	19.15 0	-0.55%	-0.55%	0.00%
1424	243260 USCNTYRD	138	243356 U50SOL01	138 1	243260	USCNTYRD	243356 U50SOL01	0 53	138	205 AEP	164	180 Base Case	0 31.4	-	19.14 0	-0.04%	-0.04%	-0.02%
1425	243/65 USFORD LIMA1	138	246155 USFORD LIMA2	138 Z1	243765	USFORD LIMA1	246155 05FORD LIMA	2 21	138	205 AEP	219	255 Base Case	0 -41.9	-	19.13 0	0.01%	0.01%	-0.03%
1426	239728 U2BLKRVR	138	239739 U2CROMWELL	138 1	239728	UZBLKRVR	239739 U2CROMWELL	_	1 138	202 ATSI	233	282 Base Case	0 44.5	-	19.12 0	-0.15%	-0.15%	-0.01%
1427	239728 02BLKRVR	138	239739 02CROMWELL	138 2	239728	UZBLKRVR	239739 02CROMWELL	-	2 138	202 ATSI	233	282 Base Case	0 44.5	-	19.12 0	-0.15%	-0.15%	-0.01%
1428	250026 08FLDMN2	138	250095 08RMNTN2	138 1	250026	08FLDMN2	250095 08RMNTN2	_	1 138	212 DEO&K	198	198 Base Case	0 37.8	-	19.1 0	0.01%	0.01%	0.03%
1429	238598 02CADQ18	138	240248 02DLQ-18	138 1	238598	U2CADQ18	240248 02DLQ-18	-	1 138	202 ATSI	237	287 Base Case	0 45.2	-	19.08 0	-0.01%	-0.01%	0.00%
1430	242564 05BRADL1	138	242758 05POLEYD	138 1	242564	05BRADL1	242758 05POLEYD		1 138	205 AEP	205	205 Base Case	0 39.1	-	19.06 0	0.03%	0.03%	-0.07%
1431	243278 05DESOTO	138	246629 O5SELMA P_BP	138 1	243278	05DESOTO	246629 05SELMA P_B	P	1 138	205 AEP	185	185 Base Case	0 35.2	-	19.05 0	-0.03%	-0.03%	-0.03%
1432	243878 05MEADOW	345	255205 17REYNOLDS	345 2	243878	05MEADOW	255205 17REYNOLDS	_	2 345	205/217 AEP/NIPS	1868	1868 Base Case	0 355.7	-	19.04 0	0.06%	0.06%	0.41%
1433	242946 05TIDD	345	247797 05STEMPLE	345 1	242946	05TIDD	247797 05STEMPLE	_	1 345	205 AEP	1025	1318 Base Case	0 195.2	-	19.04 0	0.48%	0.48%	0.18%
1434	243344 05MODOC	138	246629 O5SELMA P_BP	138 1	243344	05MODOC	246629 05SELMA P_B	P	1 138	205 AEP	185	185 Base Case	0 -35.2	-	19.01 0	-0.03%	-0.03%	-0.03%
1435	249989 08BKJ246	138	250080 08NWTWN2	138 1	249989	08BKJ246	250080 08NWTWN2	_	1 138	212 DEO&K	332	332 Base Case	0 63.1	-	19.01 0	0.06%	0.06%	0.06%
1436	243006 05FOSTOR	138	244341 05SOFTAIL SS	138 1	243006	05FOSTOR	244341 05SOFTAIL S	S	1 138	205 AEP	145	145 Base Case	0 27.5	-	18.99 0	-0.01%	-0.01%	0.00%
1437	243878 05MEADOW	345	255205 17REYNOLDS	345 1	243878	05MEADOW	255205 17REYNOLDS		1 345	205/217 AEP/NIPS	1868	1868 Base Case	0 354.5	-	18.98 0	0.06%	0.06%	0.41%
1438	243368 05ROSEHI	138	246656 05PENDLETON2	138 1	243368	05ROSEHI	246656 05PENDLETON	2	1 138	205 AEP	195	220 Base Case	0 -37	-	18.97 0	0.02%	0.02%	0.06%
1439	243013 05GAVIN1	138	243069 05FIREBR	138 1	243013	05GAVIN1	243069 05FIREBR		1 138	205 AEP	185	185 Base Case	0 35.1	-	18.95 0	0.10%	0.10%	0.05%
1440	243696 05KYELEC	138	246885 05MOORE HOLW	138 1	243696	05KYELEC	246885 05MOORE HOL	W	1 138	205 AEP	296	413 Base Case	0 56	-	18.93 0	0.02%	0.02%	0.03%

	А		B C	D	E	F	G	н і	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
1441 238768 02GRNFLD	138 238874 02LAKVEW	138 1	238768 02GRNFLD	238874	02LAKVEW	1	138	202 ATSI	320	385	Base Case	0	-60.6	-	18.92	0	-0.44%	-0.44%	-0.07%
1442 238731 02FOX	345 238783 02HARDIN	345 2	238731 02FOX	238783	02HARDIN	2	345	202 ATSI	1195	1195	Base Case	0	-226	-	18.92	0	0.37%	0.37%	0.04%
1443 238851 02KD Q-1	138 238882 02LE Q-1	138 1	238851 02KD Q-1	238882	02LE Q-1	1	138	202 ATSI	273	332	Base Case	0	-51.6	-	18.91	0	0.00%	0.00%	0.00%
1444 243231 05ROB PK	345 255105 17HIPLE	345 1	243231 05ROB PK	255105	17HIPLE	1	345	205/217 AEP/NIPS	1409	1409	Base Case	0	-266.4	-	18.91	0	-0.56%	-0.56%	-0.41%
1445 243524 05HESS NORTH	138 243551 050SU	138 1	243524 05HESS NORTH	243551	050SU	1	138	205 AEP	187	240	Base Case	0	-35.3	-	18.9	0	0.02%	0.02%	-0.02%
1446 242958 05BATTLE	138 243138 05W LIBERTYZ	138 2	242958 05BATTLE	243138	05W LIBERTYZ	2	138	205 AEP	205	205	Base Case	0	-38.7	-	18.86	0	0.15%	0.15%	-0.10%
1447 242952 05SHEPLER SS	138 245001 05TIMEN C	138 1	242952 05SHEPLER SS	245001	05TIMKEN C	1	138	205 AEP	296	361	Base Case	0	55.8	_	18 84	0	0.07%	0.07%	-0.02%
1448 238586 028PKSTD	138 246325 05NOTTINGH56	138 1	238586 0288KSTD	246325	05NOTTINCH56	1	138	202/205 ATST/AFP	233	282	Base Case	0	=43.9	_	18 83	0	0.0776	0.14%	0.05%
1449 243201 05ENCLER	130 247132 05FLLTSM	130 1	243291 05ENCLER	240525	05RUITINGHUU	1	120	202/203 ATS1/ABL	205	202	Base Case	0	-55 7		10.03	0	-0.01%	-0.01%	0.03%
1450 220040 02DCTD12	138 230057 021DCD04	120 1	243231 03ENGLER	230057	03LDCD04	1	120	203 AEF	149	151	Base Case	0	- 27 0		10.05	0	0.12%	0.12%	0.02%
1450 235040 02FGIFIZ	138 239037 02LRCRQ4	130 1	239040 02FGIFI2	239037	02DCCRQ4	1	130	202 AISI	140	151	Dase Case	0	-27.0		10.0	0	0.12%	0.12%	-0.04%
1451 238959 02MFLDQ4	138 239040 02PGTP12	138 1	238959 02MFLDQ4	239040	02PGTP12	1	138	202 ATS1	148	151	Base Case	0	-27.8	-	18.8	0	0.12%	0.12%	-0.04%
1452 242998 05EPOINT	138 243070 050H10CT	138 1	242998 05EPOINT	243070	050HIOCT	1	138	205 AEP	205	255	Base Case	0	-38.4	-	18.75	0	-0.11%	-0.11%	-0.06%
1453 238817 02IKQ-18	138 238840 02JNPRQ1	138 1	238817 02IKQ-18	238840	02JNPRQ1	1	138	202 ATS1	223	286	Base Case	0	-41.8	-	18.74	0	-0.04%	-0.04%	0.02%
1454 242676 05HUNTCT	138 247631 05BENNINGTON	138 1	242676 05HUNTCT	247631	05BENNINGTON	1	138	205 AEP	329	361	Base Case	0	61.6	-	18.73	0	0.10%	0.10%	-0.22%
1455 239161 02WAKRON	138 239614 02BATH	138 1	239161 02WAKRON	239614	02BATH	1	138	202 ATSI	196	242	Base Case	0	36.7	-	18.73	0	-0.03%	-0.03%	0.09%
1456 243098 05SHARPR	138 243153 05WMTVER	138 1	243098 05SHARPR	243153	05WMTVER	1	138	205 AEP	158	183	Base Case	0	29.6	-	18.72	0	0.04%	0.04%	0.10%
1457 243217 05DEQUIN	345 249525 08WESTWD	345 1	243217 05DEQUIN	249525	08WESTWD	1	345	205/208 AEP/DEI	1025	1217	Base Case	0	191.9	-	18.72	0	-0.02%	-0.02%	-0.03%
1458 247133 05ROCKP WRK1	765 243239 05ROCKP WRK1	138 7	247133 05ROCKP WRK1	243239	05ROCKP WRK1	7	765/138	205 AEP	98	111	Base Case	0	18.3	-	18.71	0	0.00%	0.00%	0.00%
1459 247135 05ROCKP WRK2	765 243240 05ROCKP WRK2	138 8	247135 05ROCKP WRK2	243240	05ROCKP WRK2	8	765/138	205 AEP	98	111	Base Case	0	18.3	-	18.71	0	0.00%	0.00%	0.00%
1460 243580 05SULVNT	138 243854 05REAVER	138 1	243580 05SULVNT	243854	05REAVER	1	138	205 AEP	223	267	Base Case	0	-41.6	-	18.67	0	-0.08%	-0.08%	-0.02%
1461 241901 02LALLENDORF	345 264612 19MON12	345 1	241901 02LALLENDORF	264612	19MON12	1	345	202/219 ATSI/ITCT	1486	1702	Base Case	0	-277.4	-	18.67	0	-0.99%	-0.99%	-0.07%
1462 238772 02GTQ-12	138 238819 02ILQ-12	138 1	238772 02GTQ-12	238819	02ILQ-12	1	138	202 ATSI	273	332	Base Case	0	-50.9	-	18.65	0	-0.09%	-0.09%	-0.01%
1463 242978 05CANALR	138 243000 05EWOOST	138 1	242978 05CANALR	243000	05EWOOST	1	138	205 AEP	205	205	Base Case	0	38.2	-	18.64	0	0.10%	0.10%	0.00%
1464 238908 02LONDON	138 240709 02N TITUS	138 1	238908 02LONDON	240709	02N TITUS	1	138	202 ATST	176	229	Base Case	0	32.8	-	18.62	0	0.07%	0.07%	0.03%
1465 238797 02HGHLND	138 239056 028 M +	138 1	238797 02HGHLND	239056	02R M +	1	138	202 ATST	157	196	Base Case	0	29.2	_	18 62	0	-0.01%	-0.01%	0.00%
1466 247807 05ROUSE	138 247833 05LAMPING	138 1	247807 05ROUSE	247833	05LAMPING	1	138	205 AFP	257	360	Base Case	0	-47.8	-	18 62	0	-0.15%	-0.15%	-0.14%
1467 238933 021 VD014	138 238951 02MPO-14	138 1	238933 021 20014	238951	02MB0-14	1	130	202 ATET	324	395	Base Case	0	-60.2	_	19 59	0	0.13%	0.12%	-0.04%
1469 242524 0501 OVDD	245 242527 0EM TUNK	245 1	230533 02110014	230931	OEM FUNK	1	245	202 AISI	1025	1122	Dase Case	0	100.2		10.55	0	0.12/0	0.12/0	1 60%
1460 242524 USCLOVED	345 242527 05M FONR	120 1	242524 05CLOVRD	242527	OSM FONK	1	345	205 AEF	1025	1152	base case	0	190.5		10.59	0	0.78%	0.78%	0.07%
1409 242511 05BROADF	765 242566 USBROADE	100 1	242311 05BROADE	242300	OBROADE	1	/03/130	205 AEP	090	090	base case	0	129.4		10.59	0	0.28%	0.20%	0.57%
1470 243261 05COLBITAPSS	138 243386 USVALLI	138 1	243261 0SCOLBITAPSS	243380	OSVALLY	1	138	205 AEP	296	301	Base Case	0	55	-	18.58	0	-0.01%	-0.01%	0.00%
1471 244143 USKUCHAR	138 244173 USSILVER LAK	138 1	244143 USKUCHAR	244173	USSILVER LAK	1	138	205 AEP	251	335	Base Case	0	-46.6	-	18.58	0	0.08%	0.08%	0.05%
14/2 243475 USBLENDO	138 243547 05MORSE	138 1	243475 05BLENDO	243547	05MORSE	1	138	205 AEP	297	338	Base Case	0	55.2	-	18.57	0	0.05%	0.05%	0.01%
14/3 242598 05CHNC Z	138 242705 05LOGAN2	138 1	242598 05CHNC Z	242705	05LOGAN2	1	138	205 AEP	167	167	Base Case	0	-30.9	-	18.52	0	0.06%	0.06%	0.04%
1474 243664 05HAZARD	161 243668 05WOOTON	161 1	243664 05HAZARD	243668	05WOOTON	1	161	205 AEP	300	420	Base Case	0	-55.6	-	18.52	0	-0.11%	-0.11%	-0.04%
1475 242696 05KOPPER	138 247795 05LACEY BRCH	138 1	242696 05KOPPER	247795	05LACEY BRCH	1	138	205 AEP	223	223	Base Case	0	41.3	-	18.5	0	-0.02%	-0.02%	0.15%
1476 238646 02CW TP3	138 241929 02AVQ3	138 1	238646 02CW TP3	241929	02AVQ3	1	138	202 ATSI	437	502	Base Case	0	-80.8	-	18.49	0	-0.26%	-0.26%	-0.03%
1477 238717 02-5POINT+	138 239027 020ILEVS	138 1	238717 02-5POINT+	239027	020ILEVS	1	138	202 ATSI	288	346	Base Case	0	53.2	-	18.47	0	0.05%	0.05%	0.01%
1478 238889 02LEMOYN	345 239370 02DOWLING	345 1	238889 02LEMOYN	239370	02DOWLING	1	345	202 ATSI	1542	1878	Base Case	0	284.8	-	18.47	0	0.40%	0.40%	0.11%
1479 242855 05WYOMIN	138 247634 05LYBURN SS	138 1	242855 05WYOMIN	247634	05LYBURN SS	1	138	205 AEP	296	413	Base Case	0	54.6	-	18.46	0	0.08%	0.08%	0.20%
1480 239043 02PINE	138 239075 02ROSEMT	138 1	239043 02PINE	239075	02ROSEMT	1	138	202 ATSI	233	282	Base Case	0	43	-	18.46	0	-0.04%	-0.04%	0.04%
1481 242730 05NBECKL	138 242758 05POLEYD	138 1	242730 05NBECKL	242758	05POLEYD	1	138	205 AEP	164	180	Base Case	0	-30.2	-	18.42	0	0.03%	0.03%	-0.07%
1482 253047 09MIAMI	345 253069 09SHELBY	345 1	253047 09MIAMI	253069	09SHELBY	1	345	209 DAY	1255	1374	Base Case	0	231.2	-	18.42	0	-0.44%	-0.44%	0.24%
1483 242628 05E.LYNN	138 242699 05LAVALT	138 1	242628 05E.LYNN	242699	05LAVALT	1	138	205 AEP	219	255	Base Case	0	-40.3	-	18.4	0	-0.05%	-0.05%	-0.14%
1484 243275 05DELAWR1	138 243393 05WESDEL	138 1	243275 05DELAWR1	243393	05WESDEL	1	138	205 AEP	219	223	Base Case	0	-40.3	-	18.4	0	0.02%	0.02%	0.01%
1485 243524 05HESS NORTH	138 246094 05VINE X	138 1	243524 05HESS NORTH	246094	05VINE X	1	138	205 AEP	183	243	Base Case	0	33.7	-	18.4	0	-0.05%	-0.05%	-0.03%
1486 242936 05FOSTOR	345 242942 05SBERWI	345 1	242936 05FOSTOR	242942	05SBERWI	1	345	205 AEP	1409	1409	Base Case	0	259	-	18.38	0	-0.72%	-0.72%	-0.74%
1487 247373 05MUSKNG2A	138 247434 05MUSKNG DSZ	138 20	247373 05MUSKNG2A	247434	05MUSKNG DSZ	20	138	205 AEP	747	747	Base Case	0	-137.2	-	18.37	0	-0.15%	-0.15%	0.05%
1488 239037 02PG0-11	138 239039 02PGTP11	138 1	239037 02PG0-11	239039	02PGTP11	* 1	138	202 ATSI	115	115	Base Case	0	-21.1	_	18.34	0	0.00%	0.00%	0.00%
1489 243233 05TANNER	345 243792 05LOSANTVILL	345 2	243233 05TANNER	243792	05LOSANTVILL	2	345	205 AEP	648	648	Base Case	0	118.8		18 34	0	0.16%	0.16%	0.22%
1490 242926 05MALTS	765 242928 05MARYSV	765 1	242926 05MALTS	242928	05MARYSV	1	765	205 AFP	4047	4142	Base Case	0	-742	-	18 33	0	-4 30%	-4 30%	-0.62%
1491 243010 05EmuEND	139 242725 05MARISV	130 1	242010 05PRUEND	242220	05DTYON CO	1	100	205 AEP	2047	4142	Base Case	0	- 742		10.33	0	0 1 /0/	0.140/	-0.09%
1402 242672 0EDDDDUT	130 24///3 USDIAUN SS	120 1	243010 USPTHENK	24///5	OSDIAUN SS	1	138	205 AEP	200	284	Dase Case	0	-31.3		10.31	0	0.14%	0.14%	0.05%
1492 2436/3 USBEEFHI	130 24368/ USFLEMIN	138 1	2436/3 USBEELHI	243687	ODF LEMIN	1	138	205 AEP	128	180	Base Case	0	28.9	-	10.3	0	0.01%	0.01%	0.01%
1495 243694 USINEZ	138 246896 USWOLFSS	138 1	243694 USINEZ	246896	USWOLFSS	1	138	205 AEP	226	251	Base Case	0	41.3	-	18.29	0	-0.07%	-0.07%	-0.12%
1494 243697 05LOVELY	138 246896 U5WOLFSS	138 1	243697 U5LOVELY	246896	USWOLFSS	1	138	205 AEP	226	251	Base Case	0	-41.3		18.28	0	-0.07%	-0.07%	-0.12%
1495 250018 08EMWOD1	138 250056 08LTERL8	138 1	250018 08EMWOD1	250056	USLTERL8	1	138	212 DEO&K	264	264	Base Case	0	-48.2	-	18.26	0	0.02%	0.02%	0.01%
1496 239129 02SYLVNA	138 239320 02FLWR HOSP	138 1	239129 02SYLVNA	239320	02FLWR HOSP	1	138	202 ATSI	278	343	Base Case	0	50.7	-	18.23	0	-0.05%	-0.05%	0.01%
1497 239142 02TUSC	138 239362 02INVOLTA	138 1	239142 02TUSC	239362	02INVOLTA	1	138	202 ATSI	233	282	Base Case	0	42.5	-	18.22	0	-0.06%	-0.06%	-0.05%
1498 238696 02ELWOD+	138 238944 02MASURY	138 1	238696 02ELWOD+	238944	02MASURY	1	138	202 ATSI	128	165	Base Case	0	-23.3	-	18.21	0	0.02%	0.02%	-0.03%
1499 243688 05S.PORT MTR	138 342538 4ARGENTUM	138 1	243688 05S.PORT MTR	342538	4ARGENTUM	1	138	205/320 AEP/EKPC	170	170	Base Case	0	-30.9	-	18.2	0	-0.03%	-0.03%	0.00%
1500 243291 05ENGLER	138 243338 05MCKINLEY3	138 1	243291 05ENGLER	243338	05MCKINLEY3	1	138	205 AEP	285	361	Base Case	0	51.8	-	18.19	0	-0.01%	-0.01%	0.02%

	А		B C	D	E	F	G	НІ	J	К	Ĺ.	М	N	0	Р	Q	R	S	T U
1501 247868 05N.CLAYTOR	138 247870 05CLAYTR HY2	138 1	247868 05N.CLAYTOR	247870	05CLAYTR HY2	1	138	205 AEP	136	167	Base Case	0	-24.7		18.18	0	0.00%	0.00%	0.02%
1502 238586 02BRKSID	138 239076 02ROSS	138 1	238586 02BRKSID	239076	02ROSS	1	138	202 ATSI	251	290	Base Case	0	-45.6	-	18.18	0	0.36%	0.36%	0.07%
1503 243320 05KANKAKEE2	138 243388 05W SIDE	138 1	243320 05KANKAKEE2	243388	05W SIDE	1	138	205 AEP	205	205	Base Case	0	37.3	-	18.18	0	-0.02%	-0.02%	-0.01%
1504 250076 08MTGRY2	138 250094 08RMNTN1	138 1	250076 08MTGRY2	250094	08RMNTN1	1	138	212 DEO&K	198	198	Base Case	0	36	-	18.18	0	-0.01%	-0.01%	-0.03%
1505 238528 02AETNA	138 239161 02WAKRON	138 1	238528 02AETNA	239161	02WAKRON	1	138	202 ATSI	124	124	Base Case	0	-22.5	-	18.15	0	-0.07%	-0.07%	-0.03%
1506 239137 02THEIS	138 239148 02VALLEY	138 1	239137 02THEIS	239148	02VALLEY	1	1.38	202 ATST	200	242	Base Case	0	36.2	-	18.1	0	0.04%	0.04%	-0.03%
1507 239077 02BVEBBD	138 239120 02SSPBNG	138 1	239077 028VEBBD	239120	02SSPBNG	1	138	202 ATST	223	223	Base Case	0	-40.4	-	18.1	0	-0.13%	-0.13%	-0.03%
1508 253047 09MTAMT	345 253090 09WMTLTN	345 1	253047 09MTAMT	253090	09WMTLTN	1	345	209 DAY	1195	1195	Base Case	0	-216.2	-	18 09	0	-0.48%	-0.48%	-0.10%
1509 243151 05WMTLLS	138 243158 05W00STE	138 1	243151 05WMTLLS	243158	05WOOSTE	1	138	205 AEP	185	250	Base Case	0	33.4	_	18 07	0	-0.21%	-0.21%	0.04%
1510 242673 05HUBTWN	138 243669 05B SAND	138 1	242673 05HUBTWN	243669	05B SAND	1	138	205 AEP	292	330	Base Case	0	-52 7	-	18.05	0	0.00%	0.00%	0.17%
1511 243006 05FOSTOR	138 243039 05MELMOR	138 1	243006 05E0STOR	243039	05MELMOR	1	138	205 AEP	167	167	Base Case	0	30 1	_	18 04	0	-0.13%	-0.13%	-0.01%
1512 243511 05GAY	138 243580 05SULVNT	138 1	243511 05CAV	243580	05 SUL VNT	1	138	205 AEP	231	277	Base Case	0	=41 6	_	18 02	0	-0.08%	-0.08%	-0.02%
1513 247370 05MUSKNG1A	138 247434 05MUSKNG DS7	138 7P	247370 05MUSKNG15	247434	05MUSKNG DS7	70	138	205 AEP	747	747	Base Case	0	-134 5	_	18 01	0	-0.35%	-0.35%	-0.06%
1514 238904 021 MO-11	138 241922 02FLO2	139 1	238904 021MO-11	247404	025102	1	130	202 ATET	324	383	Base Case	0	-59.2	-	17 07	0	0.16%	0.16%	-0.05%
1515 242650 05CLENT 1	138 242668 05HINTON	138 1	242650 05CLENT1	241922	05HINTON	1	138	205 AFP	399	416	Base Case	0	69.7	_	17.97	0	0.10%	0.10%	0.72%
1516 242530 05 T FERR	500 206710 RANKTOCH	500 1	242030 03GLENLI	242000	RANETOCH	1	500	205 /242 AED /DUK	2204	2400	Base Case	0	-205 7		17.90	0	0.08%	0.08%	0.72%
1517 242320 030.FERR	139 343790 05CALEV2	100 I	242320 030.FERR	242700	OF CALIFIC A	1	120	205/542 AEF/DOR	126	167	Base Case	0	-393.7	526	17.95	0	0.4778	0.4778	0.00%
1518 242752 05DINCK2	139 242765 UJDALIVZ	130 L	242714 USMEADWV	242/09	05PACI DZ	1	120	205 AEP	1.67	167	Base Case	0	24.4	_	17 05	0	0.06%	0.06%	0.04%
1510 242752 USPINCKZ	345 243002 054300TN 02	345 1	242/32 USFINCRA	242/01	05UADDTN 00	1	738	205 AEP	007	1107	Base Case	0	_161		17 05	0	0.00%	0.00%	0.04%
1519 242933 USE LIMA	345 243902 USHARDIN SS	245 1	242933 USE LIMA	243902	OSCINN PD CC	1	345	205 AEP	1 20	1151	Dase Case	0	-101		17 05	0	0.05%	0.05%	0.74%
1520 243902 USHARDIN SS	129 220140 02moutorm	120 1	243902 USHARDIN SS	243903	ODGUNN KD SS		120	200 AEP	897	1121	Dase Case	0	-101	-	17.95	0	0.03%	0.03%	0.74%
152 242260 05DOV260	130 239140 UZTOUSNT	130 1	238368 UZBAISHU	239140	OF CAUKER	1	138	202 ATS1	235	288	Dase Case	0	42.1	-	17.93	0	-0.10%	-0.10%	-0.02%
1522 243360 USPOKAGO	138 246764 USSAUKTR	138 1	243360 05PORAGO	246764	USSAUKTR	1	138	205 AEP	335	392	Base Case	0	59.9	-	17.89	0	-0.02%	-0.02%	-0.04%
1523 238777 02HAMIL+	138 933720 AC2-195 TAP	138 1	238777 02HAMIL+	933720	AC2-195 TAP	1	138	202 ATS1	200	242	Base Case	0	35.8	-	17.88	0	0.07%	0.07%	-0.08%
1524 238667 02DUALR+	138 933720 AC2-195 TAP	138 1	238667 02DUALR+	933720	ACZ-195 TAP	1	138	202 ATSI	200	242	Base Case	0	-35.8	-	17.88	0	0.07%	0.07%	-0.08%
1525 242935 05E LIMA	345 242945 05SW LIM	345 1	242935 05E LIMA	242945	05SW LIM	1	345	205 AEP	971	971	Base Case	0	173.3	-	17.84	0	0.01%	0.01%	-0.47%
1526 239123 02STAR	138 239238 02SEVM	138 1	239123 02STAR	239238	02SEVM	1	138	202 ATSI	233	282	Base Case	0	41.5		17.83	0	0.11%	0.11%	0.04%
1527 242986 05CROOKS	138 243107 05SPENCR	138 1	242986 05CROOKS	243107	05SPENCR	1	138	205 AEP	134	167	Base Case	0	-23.9	-	17.82	0	-0.14%	-0.14%	0.15%
1528 243247 05AUBURN	138 247790 05DUNTONLAKE	138 2	243247 05AUBURN	247790	05DUNTONLAKE	2	138	205 AEP	323	392	Base Case	0	-57.5	-	17.8	0	0.02%	0.02%	0.02%
1529 243519 05HALLRD	138 243587 05WILSNZ	138 1	243519 05HALLRD	243587	05WILSNZ	1	138	205 AEP	223	223	Base Case	0	39.7	-	17.8	0	-0.07%	-0.07%	0.00%
1530 239278 02BRDVIE	138 253085 09URBANA	138 1	239278 02BRDVIE	253085	09URBANA	1	138	202/209 ATSI/DAY	221	272	Base Case	0	-39.3	-	17.79	0	-0.07%	-0.07%	-0.02%
1531 242550 05BEARSK	138 242802 05SMITHMTN	138 1	242550 05BEARSK	242802	05SMITHMTN	1	138	205 AEP	296	296	Base Case	0	-52.6	-	17.78	0	-0.09%	-0.09%	-1.54%
1532 253057 090HH	138 253255 09GEBHRT	138 1	253057 090НН	253255	09GEBHRT	1	138	209 DAY	196	241	Base Case	0	-34.8	-	17.76	0	0.07%	0.07%	0.04%
1533 243686 05EXCELT	138 243695 05JOHNSC	138 1	243686 05EXCELT	243695	05JOHNSC	1	138	205 AEP	410	527	Base Case	0	72.8	-	17.76	0	0.00%	0.00%	-0.14%
1534 243215 05COOK	345 270139 AA2-116_TAP2	345 1	243215 05COOK	270139	AA2-116_TAP2	1	345	205 AEP	1409	1409	Base Case	0	249.5	-	17.7	0	-0.05%	-0.05%	-0.08%
1535 247172 05EBERSO	138 247893 05FLAG CITY	138 1	247172 05EBERSO	247893	05FLAG CITY	1	138	205 AEP	150	212	Base Case	0	26.6	-	17.7	0	0.08%	0.08%	-0.06%
1536 239144 02URBAN	138 239362 02INVOLTA	138 1	239144 02URBAN	239362	02INVOLTA	1	138	202 ATSI	233	282	Base Case	0	-41.2	-	17.7	0	-0.06%	-0.06%	-0.05%
1537 253049 09MONUM1	138 253093 09WEBSTR	138 1	253049 09MONUM1	253093	09WEBSTR	1	138	209 DAY	301	374	Base Case	0	53.2	-	17.66	0	0.04%	0.04%	0.04%
1538 242568 05BROOKV	138 247887 05MCCONVILLE	138 1	242568 05BROOKV	247887	05MCCONVILLE	1	138	205 AEP	167	245	Base Case	0	29.5		17.65	0	-0.02%	-0.02%	0.10%
1539 243366 05ROB PK12	138 243389 05WALLEN	138 1	243366 05ROB PK12	243389	05WALLEN	1	138	205 AEP	287	337	Base Case	0	50.6	-	17.65	0	0.00%	0.00%	-0.05%
1540 242819 05SULVN	138 244508 05RIGGS	138 1	242819 05SULVN	244508	05RIGGS	1	138	205 AEP	117	117	Base Case	0	20.6	-	17.64	0	0.03%	0.03%	0.27%
1541 242773 05ROAN01	138 242840 05VINTON	138 1	242773 05ROANO1	242840	05VINTON	1	138	205 AEP	240	252	Base Case	0	-42.3	-	17.62	0	0.07%	0.07%	-0.12%
1542 240988 02SHELBY_FS+	138 240989 02SHELBY_FS	138 1	240988 02SHELBY_FS+	240989	02SHELBY_FS	1	138	202 ATSI	161	194	Base Case	0	28.4	-	17.61	0	0.00%	0.00%	0.00%
1543 243331 05LINWOO	138 243368 05ROSEHI	138 1	243331 05LINWOO	243368	05ROSEHI	1	138	205 AEP	187	240	Base Case	0	-32.9	-	17.6	0	0.02%	0.02%	0.06%
1544 238795 02HDGQ14	138 238924 02LTEQ14	138 1	238795 02HDGQ14	238924	02LTEQ14	1	138	202 ATSI	399	488	Base Case	0	70.2	-	17.59	0	-0.01%	-0.01%	0.01%
1545 242536 05AMALOY	138 242807 05SPORN	138 1	242536 05AMALOY	242807	05SPORN	1	138	205 AEP	205	205	Base Case	0	-36	-	17.57	0	0.00%	0.00%	0.00%
1546 238635 02CORTLD	138 238693 02ELM	138 1	238635 02CORTLD	238693	02ELM	1	138	202 ATSI	96	96	Base Case	0	-16.9	-	17.56	0	0.00%	0.00%	0.00%
1547 253050 09MONUM2	138 253093 09WEBSTR	138 1	253050 09MONUM2	253093	09WEBSTR	1	138	209 DAY	218	269	Base Case	0	38.3	-	17.55	0	0.00%	0.00%	0.01%
1548 238800 02HL Q-1	138 238810 02HO Q-1	138 1	238800 02HL Q-1	238810	02HO Q-1	1	138	202 ATSI	205	265	Base Case	0	-35.9	-	17.52	0	0.01%	0.01%	0.01%
1549 242548 05BANCRO	138 242790 05S.BUFFALO	138 1	242548 05BANCRO	242790	05S.BUFFALO	1	138	205 AEP	334	334	Base Case	0	58.5	-	17.52	0	0.04%	0.04%	0.21%
1550 238654 02DAV-BE	345 238889 02LEMOYN	345 1	238654 02DAV-BE	238889	02LEMOYN	1	345	202 ATSI	1411	1683	Base Case	0	247.1	-	17.51	0	1.51%	1.52%	-0.11%
1551 238977 02N MED	138 239158 02W.MED	138 1	238977 02N MED	239158	02W.MED	1	138	202 ATSI	233	282	Base Case	0	40.8	-	17.51	0	-0.05%	-0.05%	-0.04%
1552 247844 05CAPITOLH2	138 247846 05BULLIT ST1	138 1	247844 05CAPITOLH2	247846	05BULLIT ST1	1	138	205 AEP	296	413	Base Case	0	51.8	-	17.5	0	0.00%	0.00%	-0.09%
1553 238568 02BAYSHO	138 238658 02DECANT	138 1	238568 02BAYSHO	238658	02DECANT	1	138	202 ATSI	235	287	Base Case	0	41	-	17.43	0	-0.17%	-0.17%	-0.03%
1554 243458 05HYATT	345 246752 05VASSEL	345 1	243458 05HYATT	246752	05VASSEL	1	345	205 AEP	1370	1409	Base Case	0	-238.7	-	17.42	0	0.54%	0.54%	0.27%
1555 243333 05MADISON1	138 243339 05MEADOW	138 1	243333 05MADISON1	243339	05MEADOW	1	138	205 AEP	136	167	Base Case	0	23.7	-	17.42	0	0.02%	0.02%	0.01%
1556 239147 02UTTP2	138 239149 02VULCAN	138 ZL	239147 02UTTP2	239149	02VULCAN	ZL	138	202 ATSI	216	264	Base Case	0	37.6	-	17.41	0	0.04%	0.04%	-0.01%
1557 243274 05DEER CRK1	138 246968 05DOOVIL	138 1	243274 05DEER CRK1	246968	05DOOVIL	1	138	205 AEP	187	240	Base Case	0	-32.6	_	17.41	0	-0.03%	-0.03%	-0.05%
1558 253027 09GREENE	345 253079 09SUGRCK	345 1	253027 09GREENE	253079	09SUGRCK	1	345	209 DAY	1255	1374	Base Case	0	-218.4	-	17.4	0	-0.56%	-0.56%	-0.09%
1559 243215 05COOK	345 270138 AA2-116 TAP1	345 1	243215 05COOK	270138	AA2-116 TAP1	1	345	205 AEP	1409	1409	Base Case	0	245.1	-	17.4	0	-0.06%	-0.06%	-0.08%
1560 238543 02ASH 2	138 238544 02ASH 3	138 ZB	238543 02ASH 2	238544	02ASH 3	ZB	138	202 ATSI	999	999	Base Case	0	-173.7	-	17.39	0	0.46%	0.46%	-0.09%
					_		1	and the second sec	5-07-0-5-4	- 10 C - 1			mmand 37050200		100 ALC: 100			1.5 N.A.	

A	B C D	E	F	G H I	J	K L	M N	0	P Q	R	S	T U
1561 243690 05HATFLD 138 243694 05INEZ 138 1	243690 05HATFLD 243694	05INEZ	1	138 205 AEP	296	392 Base Cas	0 -51.3		17.33 0	-0.03%	-0.03%	-0.10%
1562 249566 08FOSTER 345 249578 08HILCRT 345 1	249566 08FOSTER 249578	08HILCRT	1	345 212 DEO&K	1455	1455 Base Cas	0 -251.2	-	17.26 0	0.20%	0.20%	0.27%
1563 250032 08FRFLD1 138 250066 08MLHSR1 138 1	250032 08FRFLD1 250066	08MLHSR1	1	138 212 DEO&K	198	198 Base Cas	0 -34.2	-	17.25 0	0.02%	0.02%	-0.01%
1564 253010 09BURDOX 138 253093 09WEBSTR 138 1	253010 09BURDOX 253093	09WEBSTR	1	138 209 DAY	30.6	380 Base Cas	0 -52 7	-	17.22 0	0.00%	0.00%	0.02%
1565 238852 02KD 0-3 138 238883 02LE 0-3 138 1	238852 02KD 0-3 238883	021E 0-3	1	138 202 ATST	273	332 Base Cas	0 -46.9		17.19 0	0.00%	0.00%	0.00%
1566 247806 05PETIPIDCSS 138 247807 05POUSE 138 1	247806 05PETTPTDCSS 247805	05POUSE	1	138 205 AFD	275	360 Base Cas	0 -14.2	-	17.19 0	-0.15%	-0.15%	-0.14%
1500 247808 05BELLKIDG55 158 247807 05R005E 158 1	247606 03BELLKIDG55 247607	05R005E	1	130 205 AEF	207	404 Dase Cas	0 -44.2		17.19 0	-0.13%	-0.13%	-0.14%
1507 242627 USE.LINC 138 242688 USJUSHUA 138 1	242627 USE.LINC 242686	OSJOSHUA	1	138 205 AEP	300	404 Base Cas	0 -66.7	-	17.16 0	0.00%	0.00%	-0.47%
1500 243481 USCANAL 138 243548 USMOUND 138 1	243481 USCANAL 243548	USMOUND	1	138 205 AEP	122	165 Base Cas	0 20.9	-	17.16 0	-0.05%	-0.05%	0.03%
1569 242633 05EDENSR 138 242849 05W.KINGSPT1 138 1	242633 05EDENSR 242849	05W.KINGSPT1	1	138 205 AEP	167	167 Base Cas	0 -28.7	-	17.16 0	0.00%	0.00%	0.05%
1570 238600 02CAIRNS 138 239196 02ARM+BU 138 1	238600 02CAIRNS 239196	02ARM+BU	1	138 202 ATSI	317	365 Base Cas	0 54.4	-	17.15 0	-0.26%	-0.26%	0.03%
1571 242634 05EDGEMO 138 242839 05VICKER 138 1	242634 05EDGEMO 242839	05VICKER	1	138 205 AEP	205	205 Base Cas	0 35.2	-	17.15 0	-0.04%	-0.04%	-0.02%
1572 242718 05MINNXM 138 242822 05SWITCHBACK 138 1	242718 05MINNXM 242822	05SWITCHBACK	1	138 205 AEP	296	296 Base Cas	0 -50.7	-	17.13 0	-0.11%	-0.11%	-0.29%
1573 250029 08FOSTER 138 250085 08PARK2 138 1	250029 08FOSTER 250085	08PARK2	1	138 212 DEO&K	301	301 Base Cas	0 51.4	-	17.08 0	0.06%	0.06%	0.06%
1574 242546 05BAILS1 138 242742 05PADFOR 138 1	242546 05BAILS1 242742	05PADFOR	1	138 205 AEP	219	223 Base Cas	0 37.3	-	17.05 0	0.07%	0.07%	-0.12%
1575 242844 05W.BASS 138 243799 05FIELDALE2 138 1	242844 05W.BASS 243799	05FIELDALE2	1	138 205 AEP	187	234 Base Cas	0 -31.9	-	17.04 0	0.04%	0.04%	0.43%
1576 242631 05EDAN 1 138 246972 05ROCKSP 138 1	242631 05EDAN 1 246972	05ROCKSP	1	138 205 AEP	257	349 Base Cas	0 43.7	-	17.02 0	0.01%	0.01%	0.13%
1577 243082 05ROCKHILL1 138 243765 05FORD LIMA1 138 1	243082 05ROCKHILL1 243765	05FORD LIMA1	1	138 205 AEP	167	240 Base Cas	0 -28.4	12	17 0	0.01%	0.01%	-0.03%
1578 239177 02WOODVI 138 245422 05W.END FOS2 138 1	239177 02WOODVI 245422	05W.END FOS2	1	138 202/205 ATSI/AEP	185	185 Base Cas	0 31.4	-	16.97 0	0.01%	0.01%	-0.10%
1579 242509 05AXTON 765 242514 05J.FERR 765 1	242509 05AXTON 242514	05J.FERR	1	765 205 AEP	1099	1099 Base Cas	0 -186.5	-	16.97 0	-0.56%	-0.55%	-4.33%
1580 250048 08KLEMN1 138 250049 08KLEMN2 138 Z1	250048 08KLEMN1 250049	08KLEMN2 Z	Z1	138 212 DEO&K	406	454 Base Cas	0 68.9	-	16.96 0	-0.03%	-0.03%	0.01%
1581 238879 02LB 013 138 239283 02PR0013 138 1	238879 02LB 013 239283	02PR0013	1	138 202 ATSI	347	423 Base Cas	0 58.8		16.94 0	0.00%	0.00%	0.00%
1582 243091 05S.CALDWELL 138 243096 05SCUMBL 138 1	243091 05S.CALDWELL 243096	05SCUMBL	1	138 205 AEP	158	183 Base Cas	0 26.7	-	16.92 0	-0.02%	-0.02%	0.02%
1583 239132 02TAIMDG 138 239320 02FLWB HOSP 138 1	239132 02TALMDG 239320	02FLWB HOSP	1	138 202 ATST	278	287 Base Cas	0 -47	-	16.91 0	-0.05%	-0.05%	0.01%
1584 242528 05SPORN 345 248005 06KYGER 345 1	242528 05SPORN 248005	06KYGER	1	345 205/206 AEP/OVEC	1942	2332 Base Cas	0 -328 2	-	16.9 0	-2 59%	-2 59%	-1 68%
1585 243258 0501044 515 210000 0041014 515 1	243258 05CLEVEL 243515	OSCAP AV	1	138 205 AFP	205	284 Base Cas	0 -34.5	-	16.82 0	-0.04%	-0.04%	-0.02%
1505 245250 05CHEVEN 150 245517 05CHE AV 150 1	243236 05CLEVEL 243317	OSCAL AV	1	130 205 AET	205	202 Dase Cas	0 54.5		16.02 0	0.05%	0.04%	0.02%
1507 242381 05CARROLLING 138 240120 0550NN151DE2 138 1	242301 03CARROLLINS 240120	0500NNISIDE2	2	130 205 AEF	202	396 Base Cas	0 47 5		16.70 0	0.00%	0.00%	0.05%
1507 243000 05FREMCT 130 243130 0511FFIN 130 2	243008 05FREMCI 243130	OSTIFFIN	2	130 205 AEF	203	390 Base Cas	0 47.5		16.70	0.00%	0.00%	-0.09%
1500 243008 05FREMCT 138 243130 05TIFFIN 138 1	243008 05FREMCT 243130	USTIFFIN	1	138 205 AEP	283	396 Base Cas	0 47.5	-	16.78 0	0.00%	0.00%	-0.09%
1589 2430 /0 050HIOCT 138 246010 05PHILO2 138 2	243070 050HIOCT 246010	05PHILO2	2	138 205 AEP	136	167 Base Cas	0 22.8	-	16.78 0	-0.12%	-0.12%	-0.06%
1590 247829 05AVIATION 138 247831 05DALMATN SS 138 1	247829 USAVIATION 247831	05DALMATN SS	1	138 205 AEP	293	341 Base Cas	0 -49.1		16.77 0	-0.02%	-0.02%	0.01%
1591 250032 08FRFLD1 138 250131 08WILEY2 138 1	250032 08FRFLD1 250131	08WILEY2	1	138 212 DEO&K	198	198 Base Cas	0 -33.2	-	16.75 0	-0.02%	-0.02%	0.02%
1592 243146 05WHEBRO 138 243532 05KIRK 138 1	243146 05WHEBRO 243532	05KIRK	1	138 205 AEP	167	245 Base Cas	0 28	-	16.74 0	0.06%	0.06%	0.01%
1593 242920 05BELMON 765 242925 05KAMMER 765 1	242920 05BELMON 242925	05KAMMER	1	765 205 AEP	4047	4571 Base Cas	0 677.1	-	16.73 0	-2.27%	-2.27%	3.09%
1594 238544 02ASH_3 138 239098 02SBRNQ4 138 1	238544 02ASH_3 239098	02SBRNQ4	1	138 202 ATSI	148	151 Base Cas	0 24.8	-	16.72 0	0.19%	0.19%	-0.04%
1595 247527 05COVERT 345 256019 18PALISD 345 1	247527 05COVERT 256019	18PALISD	1	345 205/218 AEP/METC	1722	1919 Base Cas	0 287.8	-	16.71 0	-0.55%	-0.55%	-0.27%
1596 243305 05HACIEN 138 243366 05ROB PK12 138 1	243305 05HACIEN 243366	05ROB PK12	1	138 205 AEP	219	255 Base Cas	0 -36.6	-	16.7 0	-0.03%	-0.03%	-0.02%
1597 243264 05CONCOR 138 243283 05DUNLAP 138 1	243264 05CONCOR 243283	05DUNLAP	1	138 205 AEP	187	233 Base Cas	0 -31.2		16.69 0	-0.02%	-0.02%	-0.01%
1598 253031 09HALTER 138 253139 09ELDEAN 138 1	253031 09HALTER 253139	09ELDEAN	1	138 209 DAY	196	241 Base Cas	0 -32.7		16.68 0	-0.05%	-0.05%	0.01%
1599 243524 05HESS NORTH 138 245853 05HESS SOUTH 138 Z1	243524 05HESS NORTH 245853	05HESS SOUTH Z	Z1	138 205 AEP	158	183 Base Cas	0 -26.3	-	16.68 0	-0.07%	-0.07%	-0.01%
1600 238667 02DUALR+ 138 238668 02DUALRL 138 1	238667 02DUALR+ 238668	02DUALRL	1	138 202 ATSI	98	114 Base Cas	0 16.3	-	16.67 0	0.00%	0.00%	0.00%
1601 247508 05SARDINIA 138 324267 4KENTON 138 1	247508 05SARDINIA 324267	4KENTON	1	138 205/363 AEP/LGEE	151	185 Base Cas	0 -25.2	-	16.67 0	-0.06%	-0.06%	0.01%
1602 253006 09BATH 345 253047 09MIAMI 345 1	253006 09BATH 253047	09MIAMI	1	345 209 DAY	1255	1374 Base Cas	0 208.7	-	16.63 0	0.06%	0.06%	0.34%
1603 242941 050HIOCT 345 243070 050HIOCT 138 1	242941 050HIOCT 243070	05OHIOCT	1	345/138 205 AEP	753	830 Base Cas	0 125.1	-	16.62 0	-0.31%	-0.31%	0.18%
1604 238905 02LNC.PK 138 238910 02LOWELL 138 1	238905 02LNC.PK 238910	02LOWELL	1	138 202 ATSI	155	155 Base Cas	0 -25.7	-	16.61 0	0.02%	0.02%	0.04%
1605 238661 02DKQ-16 138 238983 02NAS016 138 1	238661 02DKQ-16 238983	02NASQ16	1	138 202 ATSI	233	282 Base Cas	0 38.7	22	16.6 0	0.02%	0.02%	0.00%
1606 249574 08TDHNTR 345 249582 08GARVER 345 1	249574 08TDHNTR 249582	08GARVER	1	345 212 DEO&K	1509	1509 Base Cas	0 250.5		16.6 0	-0.58%	-0.58%	-0.41%
1607 239211 02100-17 138 240350 02TV-NB+17 138 1	239211 02100-17 240350	02IV-NB+17	1	138 202 ATST	273	332 Base Cas	0 45 3	_	16.58 0	-0.05%	-0.05%	0.02%
1608 242521 05NAGEL 500 360102 8PHTPPS B NP 500 1	242521 05NAGEL 360102	SPHIPPS B NP	1	500 205/347 AEP/TVA	2522	2522 Base Cas	0 -418		16.57 0	-0.73%	-0.73%	-0.85%
1609 243885 05THORSS 138 243833 05AMBLED DDC 129 1	243885 05THOPSS 242022	05AMBLEP PDC	1	138 205 AFD	2022	392 Base Cas	0 410	222	16.54	-0.30%	-0.30%	0.05%
1610 243003 051R0K55 130 243955 054MBLER RDG 130 1	243003 05110K35 24335	05RELLBIDCCC	1	130 205 AEF	250	360 Base Cas	0 -12 5	-	16.53 0	-0.15%	-0.15%	-0.14%
1611 243225 05KEVCEN 345 243222 05CODENC 345 1	247004 050EV00A 247000	05COPENC	1	245 205 ABF	207	1301 Page Cas	0 142.5		16 51	-0.13%	-0.02%	0.37%
1611 245225 USREISTN 345 243232 USSORENS 345 1	243223 USKEISTN 243232	OF CDEN N	1	120 205 AEF	897	140 Dage Cas	0 148.1	-	10.51 0	-0.05%	-0.03%	0.32%
1612 240701 USTHREEC 138 246762 USGREN W 138 1	240/01 USTHREEC 246/62	UDGKEN W	1	138 205 AEP	140	140 Base Cas	0 23.1	-	16.5 0	0.00%	0.00%	0.00%
1013 243307 UDHARTFO 138 243386 UDVALLY 138 1	24330/05HARTFO 243386	USVALLY	1	138 205 AEP	219	251 Base Cas	0 36.1	-	16.49 0	0.00%	0.00%	-0.01%
1014/243355 050NTWA8 SS 138 246764 05SAUKTR 138 1	243355 USONTWA8 SS 246764	USSAUKTR	1	138 205 AEP	335	392 Base Cas	0 -55.2	-	16.48 0	-0.02%	-0.02%	-0.04%
1015243377 05SORENS 138 246982 05HUNT JT_BP 138 1	243377 05SORENS 246982	USHUNT JT_BP	1	138 205 AEP	136	167 Base Cas	0 22.4	-	16.47 0	-0.01%	-0.01%	-0.06%
1616 245511 05INDUST PK2 138 246373 05SPY RUN1 138 1	245511 05INDUST PK2 246373	05SPY RUN1	1	138 205 AEP	287	337 Base Cas	0 47.3	-	16.46 0	0.00%	0.00%	0.03%
161/243374 05SELWOO 138 243920 05MAKAHOY 138 1	243374 05SELWOO 243920	05MAKAHOY	1	138 205 AEP	158	183 Base Cas	0 -25.9		16.42 0	0.00%	0.00%	0.00%
1618 243218 05DESOTO 345 243222 05FALL C 345 1	243218 05DESOTO 243222	05FALL C	1	345 205 AEP	1025	1318 Base Cas	0 -168.2		16.41 0	-0.18%	-0.18%	0.41%
1619 242986 05CROOKS 138 243104 05SLANCS 138 1	242986 05CROOKS 243104	05SLANCS	1	138 205 AEP	167	167 Base Cas	0 27.4	-	16.41 0	0.06%	0.06%	-0.01%
1620 238859 02KIQ-11 138 238932 02LYDQ11 138 1	238859 02KIQ-11 238932	02LYDQ11	1	138 202 ATSI	273	332 Base Cas	0 -44.8	-	16.41 0	0.16%	0.16%	-0.05%

А	B C D	E	F	G	H I	J	K	L	M N	0	P Q	R	S	T U
1621 243387 05VANBUR 138 246982 05HUNT JT BP 138 1	243387 05VANBUR 24698	2 05HUNT JT BP	1	138	205 AEP	136	167 Bas	se Case	0 -22.3	-	16.39 0	-0.01%	-0.01%	-0.06%
1622 242998 05EPOINT 138 243001 05EZANEV 138 1	242998 05EPOINT 24300	1 05EZANEV	1	138	205 AEP	205	284 Bas	se Case	0 33.6	-	16.38 0	-0.11%	-0.11%	-0.06%
1623 247715 05BLUE RACER 138 247757 05HERLAN SW 138 1	247715 05BLUE BACER 24775	7 05HERLAN SW	1	138	205 AEP	296	413 Bas	se Case	0 -48.4	_	16.34 0	0.03%	0.03%	-0.01%
1624 243049 05NATRIUM12 138 243119 05SOMERTON Z 138 1	243049 05NATRTUM12 24311	9 05SOMERTON Z	1	138	205 AEP	187	240 Bas	se Case	0 30.5	-	16.34 0	0.12%	0.12%	-0.03%
1625 243466 05ASTOR 138 244868 05BRICE 138 1	243466 05ASTOR 24486	8 05BRICE	1	138	205 AEP	191	222 Bas	se Case	0 -31.2	-	16.33 0	-0.03%	-0.03%	0.01%
1626 243456 05CORRID 345 243855 05JUG ST 345 1	243456 05CORRTD 24385	5 05.TUG ST	1	345	205 AEP	1868	1868 Bas	se Case	0 305	-	16.33 0	0.37%	0.37%	-0.07%
1627 238843 02 INDROA 138 239052 0200 04 138 1	238843 02 INPPO4 23905	2 02 PV 04	1	138	202 ATST	265	332 Ba	se Case	0 43 3	-	16.31 0	0.18%	0.18%	-0.03%
1628 242673 05000000 120 130 233032 020 04 130 1	242673 05UIIDTINI 2429	5 0500000	1	130	205 AFD	203	225 Pa	se Case	0 40.0		16.31 0	0.10%	0.10%	0.17%
1620 242075 05h051WN 150 242055 051K151A 150 1	242075 05H0B1WN 24200	2 17CTTINETT	1	245	205/217 AFB/NTPC	1409	1400 Ba	se case	0 -220 5	-	16.20 0	-1 29%	-1 20%	-0.92%
1620 238075 02N FACE 128 220220 02MEDCO 128 1	245215 05D0M0N1 25511	0 0 2MEDCO	1	120	203/21/ AEF/NIFS	104	227 Ba	se case	0 -22.5.5		16.23 0	-1.23%	-1.25%	0.02%
1631 238840 02 TNDD01 138 239239 02MEDC0 130 1	238940 02 NIDBO1 2390	0 02REDCO	1	120	202 ATSI	267	227 Da	se case	0 42.0		16.27 0	0.16%	0.16%	-0.04%
1631 230040 020NFRQ1 130 239049 02FV Q1 130 1	230040 020NFRQ1 23904	A DEMCAMPR	1	130	202 AISI	207	332 Bas	se Case	0 45.5		16.27 0	0.10%	0.10%	-0.04%
1632 243036 03NEWCOM 138 243144 05WCAMBR 138 1	243036 USNEWCOM 2431	4 USWCAMBR	1	130	205 AEP	207	291 Bd	se case	0 -40.0	-	16.24 0	-0.12%	-0.12%	0.11%
1635 238637 02CPP LS 138 238660 02DIVISN 138 1	238637 02CPP LS 23866	0 02DIVISN	1	138	202 ATS1	170	193 Bas	se case	0 -27.6	-	16.23 0	-0.22%	-0.22%	-0.01%
1634 242971 USBRIAN 138 243029 USLCKWRD 138 1	242971 USBRYAN 24302	9 USLCKWRD	1	138	205 AEP	232	232 Bas	se Case	0 -37.6	-	16.23 0	0.00%	0.00%	0.00%
1635 250055 08LTERL7 138 250056 08LTERL8 138 21	250055 08LTERL7 25005	6 USLTERLS	21	138	212 DEO&K	394	394 Bas	se Case	0 63.9	-	16.23 0	0.02%	0.02%	0.01%
1636 2388 /8 02LB Q12 138 239282 02PR0Q12 138 1	238878 02LB Q12 23928	2 02PROQ12	1	138	202 ATS1	355	434 Bas	se Case	0 57.6	-	16.22 0	0.00%	0.00%	0.00%
105/238812 02HOYTDL 345 239936 02MCCLELLAND 345 1	238812 U2HOYTDL 23993	0 UZMCCLELLAND	1	345	ZUZ ATSI	1380	1646 Bas	se Case	0 -223.5	-	16.2 0	-0.5/%	-0.57%	-0.27%
1030 2388 // 02LAQ-13 138 239283 02PR0Q13 138 1	23887/ U2LAQ-13 23928	3 U2PROQ13	1	138	202 ATSI	347	423 Bas	se Case	0 -56.1	-	16.18 0	0.00%	0.00%	0.00%
1059/242564 05BRADL1 138 242653 05GRANDV 138 1	242564 U5BRADL1 24265	3 U5GRANDV	1	138	205 AEP	335	392 Bas	se Case	0 54.2	-	16.18 0	-0.04%	-0.04%	-0.61%
1640 238710 02EYQ-14 138 238711 02EYTP14 138 1	238710 02EYQ-14 23871	1 U2EYTP14	1	138	202 ATSI	347	423 Bas	se Case	0 -56.1	-	16.17 0	-0.15%	-0.15%	-0.02%
1041249987 08BETHNY 138 250098 08SHAKER 138 1	249987 08BETHNY 25009	8 U8SHAKER	1	138	212 DEO&K	394	394 Bas	se Case	0 -63.7	-	16.16 0	-0.06%	-0.06%	-0.06%
1642 242525 05KANAWH 345 242528 05SPORN 345 1	242525 05KANAWH 24252	8 05SPORN	1	345	205 AEP	943	943 Bas	se Case	0 -152.3	-	16.15 0	-0.39%	-0.39%	-1.36%
1643 239739 02CROMWELL 138 241926 02ASTORQ14 138 1	239739 02CROMWELL 24192	6 02ASTORQ14	1	138	202 ATSI	435	500 Bas	se Case	0 70.2	-	16.13 0	-0.29%	-0.29%	-0.02%
1644 243088 05S.POINT1 138 245615 05S.POINT2 138 Z1	243088 05S.POINT1 24561	5 05S.POINT2	Z1	138	205 AEP	240	309 Bas	se Case	0 38.7	-	16.12 0	-0.07%	-0.07%	0.04%
1645 242556 05BLUEFLD AV 138 242784 05S.BLUE 138 1	242556 05BLUEFLD AV 24278	4 05S.BLUE	1	138	205 AEP	251	251 Bas	se Case	0 40.5	-	16.12 0	-0.13%	-0.13%	-0.26%
1646 238569 02BEAVER 345 238607 02CARLIL 345 1	238569 02BEAVER 23860	7 02CARLIL	1	345	202 ATSI	1380	1646 Bas	se Case	0 221.9	-	16.08 0	-1.45%	-1.45%	-0.47%
1647 243208 05JEFRSO 765 242865 05JEFRSO 345 2	243208 05JEFRSO 24286	5 05JEFRSO	2	765/345	205 AEP	2889	3039 Bas	se Case	0 464.2	-	16.07 0	-0.08%	-0.08%	-0.15%
1648 247064 05KANAWHA2 138 247092 05KANAWH_BSZ 138 ZM	247064 05KANAWHA2 24709	2 05KANAWH_BSZ	ZM	138	205 AEP	383	449 Bas	se Case	0 -61.5	-	16.06 0	0.01%	0.01%	-0.09%
1649 243015 05GREENL 138 243130 05TIFFIN 138 1	243015 05GREENL 24313	0 05TIFFIN	1	138	205 AEP	257	360 Bas	se Case	0 -41.3	-	16.06 0	-0.01%	-0.01%	-0.08%
1650 238896 02LIMECT 138 239227 02-1STSL 138 1	238896 02LIMECT 23922	7 02-1STSL	1	138	202 ATSI	288	353 Bas	se Case	0 46.2	-	16.05 0	-0.03%	-0.03%	0.01%
1651 242705 05LOGAN2 138 247634 05LYBURN SS 138 1	242705 05LOGAN2 24763	4 05LYBURN SS	1	138	205 AEP	296	413 Bas	se Case	0 -47.4	-	16.01 0	0.08%	0.08%	0.20%
1652 242522 05AMOS 345 242528 05SPORN 345 1	242522 05AMOS 24252	8 05SPORN	1	345	205 AEP	897	897 Bas	se Case	0 143.5	-	16 0	0.07%	0.07%	0.87%
1653 238763 02GR Q-4 138 239052 02PV Q4 138 1	238763 02GR Q-4 23905	2 02PV Q4	1	138	202 ATSI	103	132 Bas	se Case	0 -16.4	-	15.94 0	0.24%	0.24%	0.03%
1654 243664 05HAZARD 161 243693 05HAZRD2 138 1	243664 05HAZARD 24369	3 05HAZRD2	1	161/138	205 AEP	350	350 Bas	se Case	0 55.6		15.87 0	-0.11%	-0.11%	-0.04%
1655 242658 05GREENB 138 242777 05RONCVR 138 1	242658 05GREENB 24277	7 05RONCVR	1	138	205 AEP	110	110 Bas	se Case	0 -17.4	-	15.84 0	0.00%	0.00%	0.00%
1656 243366 05ROB PK12 138 246993 05PURDUE 138 1	243366 05ROB PK12 24699	3 05PURDUE	1	138	205 AEP	296	392 Bas	se Case	0 46.9	-	15.84 0	0.00%	0.00%	-0.03%
1657 243342 05MILAN 138 243877 05DAWKNS 138 1	243342 05MILAN 24387	7 05DAWKNS	1	138	205 AEP	167	245 Bas	se Case	0 -26.4	-	15.84 0	0.03%	0.03%	0.02%
1658 249570 08P.UNON 345 249575 08TERMNL 345 1	249570 08P.UNON 24957	5 08TERMNL	1	345	212 DEO&K	1509	1509 Bas	se Case	0 -238.9	-	15.83 0	-0.46%	-0.46%	-0.21%
1659 243703 05TOPMOS 138 244688 05BEAVER CR2 138 1	243703 05TOPMOS 24468	8 05BEAVER CR2	1	138	205 AEP	158	183 Bas	se Case	0 -24.9	-	15.78 0	0.09%	0.09%	0.05%
1660 243279 05DIAMND 138 243890 05WOODSR 138 1	243279 05DIAMND 24389	0 05WOODSR	1	138	205 AEP	251	335 Bas	se Case	0 39.5	-	15.75 0	-0.09%	-0.09%	-0.06%
1661 242540 05APPLE1 138 243095 05SCOTTOWNSS 138 1	242540 05APPLE1 24309	5 05SCOTTOWNSS	1	138	205 AEP	167	167 Bas	se Case	0 -26.3	-	15.72 0	-0.03%	-0.03%	0.07%
1662 238876 02LAQ-12 138 239282 02PROQ12 138 1	238876 02LAQ-12 23928	2 02PROQ12	1	138	202 ATSI	355	434 Bas	se Case	0 -55.8	-	15.72 0	0.00%	0.00%	0.00%
1663 238617 02CHMBER 138 238814 02HUDMUN 138 1	238617 02CHMBER 23881	4 02HUDMUN	1	138	202 ATSI	200	242 Bas	se Case	0 31.4	-	15.69 0	-0.02%	-0.02%	-0.03%
1664 242549 05BANSTR 138 242550 05BEARSK 138 1	242549 05BANSTR 24255	0 05BEARSK	1	138	205 AEP	335	392 Bas	se Case	0 -52.5	-	15.68 0	-0.09%	-0.09%	-1.54%
1665 246102 05CARROLLTN2 138 246167 05CARROLLTN1 138 ZP	246102 05CARROLLTN2 24616	7 05CARROLLTN1	ZP	138	205 AEP	548	555 Bas	se Case	0 85.8	-	15.67 0	0.10%	0.10%	0.01%
1666 245533 05H0LLOWAY34 138 247131 05H0LLOWAY12 138 Z1	245533 05HOLLOWAY34 24713	1 05HOLLOWAY12	Z1	138	205 AEP	747	747 Bas	se Case	0 116.7	-	15.62 0	-0.05%	-0.05%	0.10%
1667 245533 05HOLLOWAY34 138 247131 05HOLLOWAY12 138 Z2	245533 05HOLLOWAY34 24713	1 05HOLLOWAY12	Z2	138	205 AEP	747	747 Bas	se Case	0 116.7	-	15.62 0	-0.05%	-0.05%	0.10%
1668 242555 05BLAINE 138 242773 05ROANO1 138 1	242555 05BLAINE 24277	3 05ROANO1	1	138	205 AEP	219	223 Bas	se Case	0 34.2	-	15.61 0	-0.04%	-0.04%	0.57%
1669 239316 02WASHREC 138 239988 02FE-POLO 138 1	239316 02WASHREC 23998	8 02FE-POLO	1	138	202 ATSI	275	333 Bas	se Case	0 -42.9		15.61 0	-0.13%	-0.13%	0.07%
1670 243218 05DESOTO 345 243792 05LOSANTVILL 345 2	243218 05DESOTO 24370	2 05LOSANTVILL	2	345	205 AEP	1025	1132 Bas	se Case	0 -159.9	-	15.6 0	0.14%	0.14%	0.20%
1671 242958 05BATTLE 138 243133 05VALLEY GRV 138 2	242958 05BATTLE 24313	3 05VALLEY GRV	2	138	205 AEP	205	205 Bas	se Case	0 31.8	-	15.52 0	0.15%	0.15%	-0.10%
1672 244022 05COLE 345 244023 05COLE 138 2	244022 05COLE 24403	3 05COLE	2	345/138	205 AEP	941	956 Bas	se Case	0 145 9	-	15.51 0	-0.07%	-0.07%	-0.02%
1673 238727 02WLBCT+ 138 238936 02MACLEA 138 1	238727 02WLBCT+ 23893	6 02MACLEA	1	138	202 ATST	278	343 Ba	se Case	0 -43.1		15.5 0	0.03%	0.03%	-0.01%
1674 243467 05E BROAD3 138 243532 05KTRK 138 1	243467 05E BBOAD3 24353	2 05KTBK	1	138	205 AEP	297	338 Bas	se Case	0 -44	-	15.5 0	0.03%	0.03%	-0.01%
1675 242563 05B0XWD 138 242603 05CLIFFD 139 1	242563 05BOXWD 2435	3 05CLIFFP	1	130	205 AFP	167	167 8-1	se Caee	0 25 0	-	15.49 0	-0.30%	-0 30%	-0.65%
1676 242986 05CROOKS 138 244560 05TSABELLA 139 1	242986 05CBOOKS 24454	0 05TSABELLA	1	130	205 AFP	124	124 Pa	se Case	0 10 3	_	15.46 0	0.03%	0.03%	0.04%
1677 242952 05SHEPLER SS 138 245100 0515ADELLA 130 1	242952 05540045 24430	9 05262629	1	130	205 AFP	145	177 000	so Caeo	0 19.2		15.44 0	0.00%	0.00%	0.00%
1678 238703 02FCDNC 138 220000 0210ND0M 120 1	238703 02FGDDMC 23900	8 02LONDON	1	120	203 ADF	200	2/2 043	ee Case	0 _20.6	-	15.43	0.00%	0.00%	0.03%
1670 2430705 0225FRNG 150 250900 02200000N 150 1 1670 243275 050013001 130 245003 050013002 130 71	243275 05DET AWD1 24590	3 05DET AMP2	71	130	202 AIDI	110	120 Da	se case	0 -50.5		15.43 0	0.07%	0.07%	-0.05%
1600 2243273 USDELAWRI 130 243003 USDELAWRZ 138 21	243273 USDELAWKI 24380	2 0.2 OFLAWRZ	1	100	200 AEF	200	246 D-	se case	0 11	-	15.43 0	0.02%	0.02%	0.01%
136 1 233203 0231LURE 138 1	230302 02H1DWA1 23920	020110NE		1 130	202 10101	200	JAD Bd	JC CASE	0 44.4		13.43	0.0070	0.00%	0.01/0

		A		В	C	D	E	F	G	Н	1	J	К	L	М	N	0	Р	Q	R	S	T U
1681 243284 05DUPONT	138	243890 05WOODSR	138 1	243284	05DUPONT	243890	05WOODSR	1	1 138	205	AEP	219	255	Base Case	0	-33.7		15.4	0	-0.09%	-0.09%	-0.06%
1682 243312 05HUMMEL	138	246968 05DOOVIL	138 1	243312	05HUMMEL	246968	05DOOVIL	1	1 138	205	AEP	251	251	Base Case	0	38.5	-	15.35	0	-0.03%	-0.03%	-0.05%
1683 242787 05MIDDLEB SS	138	243019 05HILLSB	138 1	242787	05MIDDLEB SS	243019	05HILLSB	1	1 138	205	AEP	300	300	Base Case	0	-46	-	15.34	0	0.07%	0.07%	0.12%
1684 242589 05CENTCB	138	243883 05LAKEFR	138 1	242589	05CENTCR	243883	05LAKEEB	1	1 138	205	AEP	167	245	Base Case	0	-25.6	-	15 32	0	-0.01%	-0.01%	-0.23%
1685 242772 05BIVEBV	138	247632 05AMHERST	138 1	242772	05RIVERV	247632	05AMHERST	1	1 138	205	AEP	219	251	Base Case	0	33.5	-	15 29	0	-0 14%	-0.14%	-0.40%
1686 243386 05VALLY	139	247329 058TINCEP	138 1	242772	O SWATTY	247002	05gmtNCEP	1	1 139	205	AED	251	251	Base Case	0	39.3	-	15.24	0	-0.01%	-0.01%	-0.01%
1687 244023 05COLE	138	247199 055MLTN	138 1	240000	BOSCOLE	247323	05AMLTN	1	1 138	205	AFD	564	683	Base Case	0	86	-	15.24	0	-0.07%	-0.07%	-0.01%
1688 242744 05 DATCTR	120	247199 05RHIIN	120 1	244025		247100	05ETELDALE?	1	1 120	205	AED	202	241	Base Case	0	11 6	-	15 24	0	-0.02%	-0.03%	0.24%
1690 232795 02 TOURMAN 2	1 2 0	243733 OSPIELDALEZ	120 1	292799	O TOUNMAN 2	243795	03PICULD		1 120	203	ADD	235	264	Dase Case	0	22.0		15 22	0	-0.03%	0.00%	0.24%
1600 238783 0230HNMAN-2	120	239070 02RICHLD	130 1	230703	02UOHINMAN-2	239070	O2NDALLO	1	1 120	202	AISI	210	204	Base Case	0	-32.9	_	15.23	0	0.00%	0.00%	0.00%
1690 238782 02HANNA	138	238999 UZNFALLS	138 1	238782	02HANNA	238999	OZNEALLS		1 138	202	ATSI	275	333	Base case	0	-41.8	-	15.21	0	0.10%	0.10%	0.00%
1691 242589 05CENTCR	138	242681 051VY HL	138 1	242589	05CENTCR	242681	USIVY HL		1 138	205	AEP	167	245	Base Case	0	25.4	-	15.21	0	-0.01%	-0.01%	-0.23%
1692 242626 USE.HUNTING2	138	245664 USE.HUNTINGI	138 21	242626	DOSE.HUNTING2	245664	USE.HUNTINGI	21	138	205	AEP	287	337	Base Case	0	-43.6	-	15.17	0	-0.01%	-0.01%	-0.03%
1693 242989 05E LIMA	138	243125 USTHAYER	138 1	242989	0 USE LIMA	243125	OSTHAYER		1 138	205	AEP	219	223	Base Case	0	33.2	-	15.17	0	0.05%	0.05%	-0.05%
1694 238664 02DOBINS	138	238910 OZLOWELL	138 1	238664	02DOBINS	238910	02LOWELL		1 138	202	ATSI	204	209	Base Case	0	30.9		15.16	0	-0.01%	-0.01%	0.06%
1695 238528 02AETNA	138	238560 02BABB	138 1	238528	3 UZAETNA	238560	UZBABB		1 138	202	ATSI	233	282	Base Case	0	35.3	-	15.15	0	0.03%	0.03%	0.05%
1696 243245 05ANTHYZ	138	245832 05LINCOLN2	138 1	243245	05ANTHYZ	245832	05LINCOLN2	1	1 138	205	AEP	251	251	Base Case	0	-38	-	15.13	0	0.07%	0.07%	0.05%
109/24/106 05VARNER	138	24/790 U5DUNTONLAKE	138 1	247106	USVARNER	247790	USDUNTONLAKE	1	138	205	AEP	257	360	Base Case	0	38.8	-	15.1	0	0.00%	0.00%	-0.01%
1698 239215 02BRIGHT	138	239216 02TROY	138 1	239215	U2BRIGHT	239216	U2TROY		138	202	ATSI	157	189	Base Case	0	23.7	-	15.09	0	0.08%	0.08%	-0.11%
1699 243933 05AMBLER RDG	138	247793 05LINDEN RD	138 1	243933	05AMBLER RDG	247793	05LINDEN RD	1	1 138	205	AEP	296	413	Base Case	0	44.6	-	15.07	0	-0.30%	-0.30%	0.05%
1/00 245822 05LIGONIER1	138	247433 05CHARGER	138 Z1	245822	05LIGONIER1	247433	05CHARGER	Z1	138	205	AEP	94	105	Base Case	0	-14.2	-	15.07	0	0.00%	0.00%	0.00%
1/01 238532 02ALLNJB	138	239344 02ALLEN-2	138 ZB	238532	2 02ALLNJB	239344	02ALLEN-2	ZB	138	202	ATSI	563	563	Base Case	0	-84.8	-	15.07	0	-0.07%	-0.07%	0.01%
1702 238962 02MIDWAY	138	238979 02NAPMUN	138 1	238962	02MIDWAY	238979	02NAPMUN	1	1 138	202	ATSI	161	194	Base Case	0	24.3	-	15.07	0	0.08%	0.08%	0.01%
1703 242736 050AKLEV	138	243799 05FIELDALE2	138 1	242736	050AKLEV	243799	05FIELDALE2	1	1 138	205	AEP	223	223	Base Case	0	-33.6	-	15.05	0	-0.05%	-0.05%	0.40%
1704 238700 02EPWRTH	138	239058 02BRUSHCRK	138 1	238700	02EPWRTH	239058	02BRUSHCRK	1	1 138	202	ATSI	278	339	Base Case	0	41.8	-	15.04	0	0.03%	0.03%	0.00%
1705 239010 02NORDON	138	239617 02SOUREK	138 1	239010	02NORDON	239617	02SOUREK	1	1 138	202	ATSI	200	242	Base Case	0	30.1	-	15.04	0	0.08%	0.08%	-0.02%
1706 243110 05STIFFI	138	243137 05W.END FOS1	138 1	243110	05STIFFI	243137	05W.END FOS1	1	1 138	205	AEP	167	167	Base Case	0	-25.1	-	15.03	0	-0.09%	-0.09%	-0.01%
1707 243665 05LESLIE	161	243668 05WOOTON	161 1	243665	05LESLIE	243668	05WOOTON	1	1 161	205	AEP	192	208	Base Case	0	28.8	-	15.03	0	-0.02%	-0.02%	0.05%
1708 238701 02ERQ-11	138	238743 02ER-DNB+Q11	138 1	238701	02ERQ-11	238743	02ER-DNB+Q11	1	1 138	202	ATSI	273	332	Base Case	0	-41	-	15.02	0	0.00%	0.00%	0.00%
1709 243136 05W LIMA	138	243777 05LIMA REFIN	138 Z2	243136	5 05W LIMA	243777	05LIMA REFIN	Z2	138	205	AEP	347	347	Base Case	0	52	-	15	0	0.00%	0.00%	0.00%
1710 243136 05W LIMA	138	243777 05LIMA REFIN	138 Z1	243136	5 05W LIMA	243777	05LIMA REFIN	Z1	138	205	AEP	347	347	Base Case	0	52	-	15	0	0.00%	0.00%	0.00%
1711 243242 05ALLEN	138	243330 05LINCOLN1	138 2	243242	2 05ALLEN	243330	05LINCOLN1	2	2 138	205	AEP	260	260	Base Case	0	39	-	14.99	0	0.05%	0.05%	0.03%
1712 253004 09AMSTRD	138	253150 09HNDAAT	138 1	253004	09AMSTRD	253150	09HNDAAT	1	1 138	209	DAY	221	272	Base Case	0	-33.1	-	14.98	0	0.03%	0.03%	0.02%
1713 242993 05E.LEIPSIC2	138	246354 05E.LEIPSIC1	138 ZG	242993	05E.LEIPSIC2	246354	05E.LEIPSIC1	ZG	138	205	AEP	329	361	Base Case	0	49.2		14.96	0	-0.06%	-0.06%	-0.10%
1714 242549 05BANSTR	138	242632 05EDAN 2	138 1	242549	05BANSTR	242632	05EDAN 2	1	1 138	205	AEP	296	296	Base Case	0	44.3	-	14.96	0	-0.09%	-0.09%	-1.54%
1715 238575 02BLUBEL	138	239299 02BRLAKE	138 1	238575	02BLUBEL	239299	02BRLAKE	1	1 138	202	ATSI	117	147	Base Case	0	-17.5	-	14.95	0	0.16%	0.16%	-0.07%
1716 242510 05BAKER	765	242511 05BROADF	765 1	242510	05BAKER	242511	05BROADF	1	1 765	205	AEP	4142	4142	Base Case	0	619.1	-	14.95	0	-1.72%	-1.72%	-8.23%
1717 243004 05FINDLC	138	243033 05THORNWD SS	138 1	243004	05FINDLC	243033	05THORNWD SS	t	1 138	205	AEP	200	254	Base Case	0	-29.9	-	14.94	0	0.01%	0.01%	0.00%
1718 242755 05PIPERS	138	245117 05W.CARROLL	138 1	242755	05PIPERS	245117	05W.CARROLL	1	1 138	205	AEP	251	251	Base Case	0	37.5		14.92	0	0.03%	0.03%	0.07%
1719 238960 02MIDW K	138	239371 02DOWLING	138 1	238960	02MIDW K	239371	02DOWLING	1	1 138	202	ATSI	158	190	Base Case	0	-23.6	-	14.92	0	0.06%	0.06%	0.01%
1720 242767 05RIDGWA	138	242797 05SHEFLD	138 1	242767	05RIDGWA	242797	05SHEFLD	1	1 138	205	AEP	167	167	Base Case	0	24.9	-	14.9	0	0.01%	0.01%	0.46%
1721 242976 05BUCYRC	138	243117 05SULFRS	138 1	242976	05BUCYRC	243117	05SULFRS	1	1 138	205	AEP	164	180	Base Case	0	-24.4	-	14.88	0	0.03%	0.03%	0.01%
1722 242959 05BELDVL	138	243142 05WAYVIE	138 1	242959	05BELDVL	243142	05WAYVIE	1	1 138	205	AEP	251	335	Base Case	0	37.3	-	14.86	0	0.02%	0.02%	0.01%
1723 242981 05CARROLLTN3	138	246167 05CARROLLTN1	138 ZN	242981	05CARROLLTN3	246167	05CARROLLTN1	ZN	138	205	AEP	548	555	Base Case	0	-81.3	-	14.83	0	0.10%	0.10%	0.01%
1724 243422 05POINTL	138	247794 05COCO	138 1	243422	05POINTL	247794	05COCO	1	1 138	205	AEP	180	227	Base Case	0	-26.7	-	14.81	0	-0.04%	-0.04%	-0.24%
1725 243490 05CORNER	138	243496 05CONGRES SS	138 1	243490	05CORNER	243496	05CONGRES SS	1	1 138	205	AEP	195	220	Base Case	0	-28.8		14.78	0	0.24%	0.24%	0.14%
1726 245533 05HOLLOWAY34	138	245539 05HOLLOWAY56	138 Z3	245533	05HOLLOWAY34	245539	05HOLLOWAY56	23	138	205	AEP	747	747	Base Case	0	-110.3	-	14.76	0	0.02%	0.02%	-0.03%
1727 245533 05H0LLOWAY34	138	245539 05HOLLOWAY56	138 24	245533	0.5HOLLOWAY34	245539	05HOLLOWAY56	7.4	138	205	AEP	747	747	Base Case	0	-110.3	-	14.76	0	0.02%	0.02%	-0.03%
1728 239371 02DOWLING	138	240990 02HOMEDEPOT	138 1	239371	02DOWLING	240990	02HOMEDEPOT	1	1 138	202	ATST	252	291	Base Case	0	-37.2	-	14.76	0	0.08%	0.08%	0.01%
1729 244142 05MAROUETTE	138	244143 05KUCHAR	138 1	244142	05MAROUETTE	244143	05KUCHAR	1	1 138	205	AEP	251	335	Base Case	0	-37	-	14 75	0	0.08%	0.08%	0.05%
1730 243680 05CEDARC	138	243695 05,TOHNSC	138 1	243680	05CEDARC	243695	05.TOHNSC	1	1 130	205	AEP	296	378	Base Case	0	-43.6	_	14 74	0	0.09%	0.09%	-0.08%
1731 243274 05DEER CPK1	138	246051 0505FER CRK2	138 71	243070	OSDEER CRK1	246051	05DEER CRK2	21	130	205	AEP	1.97	240	Base Caen	0	-27 5	_	14 71	0	-0.04%	-0.04%	0.00%
1732 239048 02PPPTNF	138	239058 02BBUSHCPV	138 1	2390/19	02PPPTNE	239059	02BRIISHCRK	1	1 139	203	ATST	265	316	Base Case	0	_30		14.7	0	0.04%	0.04%	0.00%
1733 242669 05HOLET1	128	242739 0500FEANK	138 1	2/2660	05801.571	20000	050REBANK	1	1 120	202	AEP	167	167	Base Case	0	-24 5		1/ 60	0	-0.01%	-0.01%	-0.05%
1734 243019 05HTLLCP	130	246011 05HTCHLA	138 1	243010	05UTLISB	246011	05HTCHLA	1	1 120	203	AFD	206	412	Base Case	0	43.0	_	14.00	0	-0.01%	-0.01%	-0.01%
1735 239731 00EOV	700	230703 02UADDIN	345 1	243019	02FOX	230707	02UADDTN		1 245	200	лыг	1 = 4 0	1070	Base Case	0	- 226	-	14.0/	0	0.07%	0.07%	0.01%
1736 243285 AFE STOP	120	246066 050 DEND2	139 1	2/20/31		230/83	050 DENDO		1 120	202	ALDI	210	10/8	Base Case	0	22.0	_	14.00	0	0.37%	0.37%	0.04%
1727 270162 202 03E.SIDE	130	270122 NP2 067 00	130 I 220 1	243285	DDD-067 MATY	240000	AP2-067 COT		1 765/000	203	AED	213	251	Dase Case	0	-1462 6	-	14.05	0	0.05%	0.05%	0.02%
1738 270162 AD2 067 MAIN	765	270162 AB2-007 GSU	230 I 765 1	270103	AD2-067 MAD	270123	AD2-067 MATY		1 703/230	205	ADD	9999	3333	Dase Case	0	-1463.6		14.04	0	-0.91%	-0.91%	-0.91%
1730 220102 AB2-067 TAP	100	2/0103 ABZ-00/ MAIN	100 L	270102	AB2-UO/ TAP	2/0103	ABZ-UD/ MAIN		1 100	205	ADF	3999	3333	Dase Case	0	-1403.0		14.04	0	-0.91%	-0.91%	-0.51%
1740 240240 COOPCIANDS	138	24//UU UDIAGER	130 1	238629	UZCLVKDL	24//00	USTAGER		1 138	202/205	AISI/AEP	196	228	Dase Case	0	-28.6		14.61	0	-0.05%	-0.05%	0.05%
1740 240349 02GROVWDQ14	138	241237 U2GROV TP	138 1	240349	UZGROVWDQ14	241237	UZGROV TP		138	202	ATSI	355	434	Base Case	0	-51.8	-	14.58	0	0.00%	0.00%	0.00%

	А		B C	D	E	F	G	НІ	J	К	L	М	N	0	Р	Q	R	S	T U
1741 242702 05LEFTFK	138 242706 05LOONEY	138 1	242702 05LEFTFK	242706	05LOONEY	1	138	205 AEP	195	220	Base Case	0	28.4		14.56	0	0.02%	0.02%	0.03%
1742 247371 05MUSKNG1B	138 247435 05MUSKNG ESZ	138 ZG	247371 05MUSKNG1B	247435	05MUSKNG ESZ	ZG	138	205 AEP	766	784	Base Case	0	-111.5	-	14.56	0	-0.33%	-0.33%	-0.06%
1743 242512 05CLOVRD	765 242524 05CLOVRD	345 10	242512 05CLOVRD	242524	05CLOVRD	10	765/345	205 AEP	2250	2250	Base Case	0	327.5	-	14.55	0	-0.85%	-0.85%	-0.83%
1744 250000 08COLDSP	138 250132 08WLDER1	138 1	250000 08COLDSP	250132	08WLDER1	1	138	212 DEO&K	264	264	Base Case	0	38.4	-	14.55	0	0.03%	0.03%	0.01%
1745 243321 05KENDAL	138 243375 05SKINNR	138 1	243321 05KENDAL	243375	05SKINNR	1	138	205 AEP	251	251	Base Case	0	-36.5	-	14.55	0	-0.05%	-0.05%	-0.03%
1746 244510 05BLOSSOM TR	138 245846 05BTVEBSTDE2	138 1	244510 05BLOSSOM TR	245846	05RIVERSIDE2	1	138	205 AEP	136	167	Base Case	0	-19.7	-	14 51	0	0.00%	0.00%	-0.01%
1747 242751 05PIGEON	138 242761 05BAGLDZ	138 1	242751 05PTGEON	242761	05RAGLDZ	1	138	205 AEP	158	183	Base Case	0	-22.9	-	14 49	0	0.00%	0.00%	0.00%
1748 242931 05BEVERT	345 247566 05LAMPING BD	345 1	242931 05BEVERT	247566	OSTANDING BD	1	345	205 AFP	971	971	Base Case	0	140 6	-	14 48	0	-1 59%	-1 59%	0.46%
1740 242931 05BEVERE	345 243903 05CUNN PD 88	345 1	242931 05MARVEN	247000	05CUNN PD SS	1	345	205 AEF	907	1151	Base Case	0	120.0		14.40	0	0.65%	0.65%	0.76%
1750 242335 05MARTSV	129 242303 0300NN ND 33	120 1	242555 05MARTSV	243303	OFW LANCACES	1	120	205 AEF	167	167	Base Case	0	-24.2	_	14.40	0	0.05%	0.05%	0.70%
1751 2471 20 05HOLLOW	245 247566 0512MDING PD	245 1	243104 055LANCS	243143	OSLANDING PD	1	245	205 AEP	071	071	Base Case	0	-140.2		14.40	0	-0.03%	-0.03%	0.00%
1751 247130 05HOLLOW	139 2427300 USLAMFING BF	120 1	247130 05HOLLOW	247300	OSLAMPING_BP	1	120	205 AEF	206	206	Base Case	0	-140.3		14.45	0	-1.33%	0.11%	0.40%
1752 242718 USMINNAM	138 242/33 USNEWHOP	130 1	242718 USMINNAM	242733	CONEWHOP	1	. 130	205 AEP	290	1400	Base Case	0	42.7	_	14.42	0	-0.11%	-0.11%	-0.29%
1753 247/12 USSULLIVAN	345 346809 /CASE1	345 I	247712 03SOLLIVAN	346809	/CASE1	1	. 345	205/35/AEP/AMIL	1334	1400	Base Case	0	-191.6	-	14.30	0	-0.52%	-0.52%	0.10%
1754 238845 02JONSON	138 238971 U2MURRAY	138 1	238845 02JONSON	238971	02MURRAY	1	138	202 ATS1	196	242	Base Case	U	28	-	14.3	0	-0.05%	-0.05%	-0.02%
1755 243527 05HYATTX	138 245952 05DLAWAR1	138 1	243527 05HYATTX	245952	05DLAWAR1	1	. 138	205 AEP	335	380	Base Case	0	47.8	-	14.27	0	0.01%	0.01%	0.01%
1756 243526 05HYATT	138 243527 05HYATTX	138 SR	243526 05HYATT	243527	05HYATTX	SR	138	205 AEP	335	380	Base Case	0	47.8	-	14.27	0	0.01%	0.01%	0.01%
1757 242724 05MOSELEY	138 242774 05ROANO2	138 1	242724 05MOSELEY	242774	05ROANO2	1	. 138	205 AEP	167	240	Base Case	0	-23.8	-	14.27	0	-0.04%	-0.04%	-0.24%
1758 235378 01NMARTN	138 246067 05NATRIUM34	138 1	235378 01NMARTN	246067	05NATRIUM34	1	. 138	201/205 AP/AEP	148	192	Base Case	0	21.1	-	14.27	0	0.03%	0.03%	0.13%
1759 238685 02EASTLK	138 241924 02ELQ4	138 1	238685 02EASTLK	241924	02ELQ4	1	. 138	202 ATSI	999	999	Base Case	0	142.4	-	14.25	0	0.03%	0.03%	-0.01%
1760 243575 05ST.CLR	138 243576 05ST.CLX	138 SR	243575 05ST.CLR	243576	05ST.CLX	SR	138	205 AEP	191	229	Base Case	0	-27.2	-	14.25	0	-0.01%	-0.01%	-0.03%
1761 238864 02KNOX	138 239316 02WASHREC	138 1	238864 02KNOX	239316	02WASHREC	1	. 138	202 ATSI	275	333	Base Case	0	-39.1	-	14.22	0	-0.13%	-0.13%	0.07%
1762 238569 02BEAVER	345 238570 02BEAVER	138 2	238569 02BEAVER	238570	02BEAVER	2	345/138	202 ATSI	583	741	Base Case	0	82.9		14.21	0	0.08%	0.08%	-0.02%
1763 250050 08KMPER1	138 250051 08KMPER2	138 Z1	250050 08KMPER1	250051	08KMPER2	Z1	138	212 DEO&K	406	454	Base Case	0	57.7	-	14.21	0	0.01%	0.01%	-0.02%
1764 250066 08MLHSR1	138 250067 08MLHSR2	138 Z1	250066 08MLHSR1	250067	08MLHSR2	Z1	138	212 DEO&K	394	394	Base Case	0	-55.9	-	14.2	0	0.02%	0.02%	-0.01%
1765 242662 05HALES2	138 242702 05LEFTFK	138 1	242662 05HALES2	242702	05LEFTFK	1	. 138	205 AEP	251	335	Base Case	0	35.5	-	14.16	0	0.02%	0.02%	0.03%
1766 243502 05E.BROAD	138 243581 05TAYLOR	138 1	243502 05E.BROAD	243581	05TAYLOR	1	138	205 AEP	240	309	Base Case	0	-34	-	14.15	0	0.03%	0.03%	0.00%
1767 242511 05BROADF	765 242514 05J.FERR	765 1	242511 05BROADF	242514	05J.FERR	1	. 765	205 AEP	4047	4142	Base Case	0	572.4	-	14.14	0	-3.30%	-3.30%	-8.48%
1768 235350 01IVYDAL	138 247793 05LINDEN RD	138 1	235350 01IVYDAL	247793	05LINDEN RD	1	138	201/205 AP/AEP	164	206	Base Case	0	-23.2	-	14.14	0	-0.04%	-0.04%	-0.11%
1769 243455 05CONES	345 243488 05CONESVILLE	138 7	243455 05CONES	243488	05CONESVILLE	7	345/138	205 AEP	823	948	Base Case	0	116.4		14.14	0	-0.07%	-0.07%	0.04%
1770 247105 05VARNER	345 247106 05VARNER	138 2	247105 05VARNER	247106	05VARNER	2	345/138	205 AEP	672	672	Base Case	0	95	-	14.14	0	-0.07%	-0.07%	0.00%
1771 247105 05VARNER	345 247106 05VARNER	138 1	247105 05VABNEB	247106	05VARNER	1	345/138	205 AEP	672	672	Base Case	0	95	-	14 14	0	-0.07%	-0.07%	0.00%
1772 200599 26ERTE W	345 238547 02AT	345 1	200599 26ERTE W	238547	0227	1	345	226/202 PENELEC/ATSI	1560	1900	Base Case	0	220 4	-	14 13	0	3 94%	3 94%	-0.60%
1773 238799 02HK0-22	138 239614 02BATH	138 1	238799 02480-22	239614	02BATH	1	138	202 ATST	196	242	Base Case	0	=27.6	-	14 09	0	-0.03%	-0.03%	0.09%
1774 239651 02DANA	130 230263 020THINE	130 1	239651 02DANA	230263	02DATH 02CTTHE	1	130	202 ATST	200	252	Base Case	0	-40.6		14.09	0	0.00%	0.00%	0.03%
1775 250122 09NI DED1	130 259205 0251LURE	120 1	250031 02DANA	259205	0251LUKE	1	120	202 AISI 212 DEOKK	200	201	Base Case	0	-40.0		14.09	0	0.00%	0.00%	0.01%
1775 230132 08WLDERI	138 230134 0810RK	138 1	230132 08WLDERI	250134	OBIORK	1	138	212 DEO&K	291	291	Base Case	0	-40.9	_	14.07	0	-0.01%	-0.01%	0.00%
1776 238640 02CRISS	138 238861 UZKIRBY	138 1	238640 02CRISS	238861	OZKIRBY		138	202 ATS1	152	179	Base Case	0	-21.3	-	14.04	0	-0.10%	-0.10%	0.08%
1777 243673 USBEEFH1	138 243685 05DORTON	138 1	243673 05BEEFH1	243685	05DORTON	1	. 138	205 AEP	221	278	Base Case	0	-31	-	14.03	0	0.01%	0.01%	0.01%
1778 238569 02BEAVER	345 238570 02BEAVER	138 1	238569 02BEAVER	238570	02BEAVER	1	345/138	202 ATSI	583	741	Base Case	0	81.6		14	0	0.07%	0.07%	-0.02%
1779 253031 09HALTER	138 253072 09SPRING	138 1	253031 09HALTER	253072	09SPRING	1	138	209 DAY	196	241	Base Case	0	27.4	-	14	0	-0.05%	-0.05%	0.01%
1/80 242742 05PADFOR	138 247290 05HARMON	138 1	242742 05PADFOR	247290	05HARMON	1	138	205 AEP	219	223	Base Case	0	30.7	-	14	0	0.07%	0.07%	-0.12%
1781 243218 05DESOTO	345 243233 05TANNER	345 1	243218 05DESOTO	243233	05TANNER	1	. 345	205 AEP	897	897	Base Case	0	-125.3	-	13.97	0	0.16%	0.16%	0.22%
1782 238998 02NEVADA	138 239093 02SAMMIS	138 1	238998 02NEVADA	239093	02SAMMIS	1	138	202 ATSI	265	316	Base Case	0	-37	-	13.95	0	-0.01%	-0.01%	0.04%
1783 238708 02EVRGRN	138 239008 02NILES	138 1	238708 02EVRGRN	239008	02NILES	1	138	202 ATSI	240	310	Base Case	0	33.5	-	13.95	0	-0.08%	-0.08%	-0.01%
1784 243024 05HOWARD	138 243117 05SULFRS	138 1	243024 05HOWARD	243117	05SULFRS	1	138	205 AEP	205	205	Base Case	0	28.4	-	13.88	0	0.03%	0.03%	0.01%
1785 243244 05ANTHY	138 243245 05ANTHYZ	138 1	243244 05ANTHY	243245	05ANTHYZ	1	. 138	205 AEP	164	180	Base Case	0	-22.8	-	13.87	0	0.00%	0.00%	0.00%
1786 243485 05CLINTO	138 243528 05KARL ROAD	138 1	243485 05CLINTO	243528	05KARL ROAD	1	. 138	205 AEP	145	145	Base Case	0	-20.1	-	13.83	0	0.06%	0.06%	0.01%
1787 238904 02LMQ-11	138 238932 02LYDQ11	138 1	238904 02LMQ-11	238932	02LYDQ11	1	138	202 ATSI	324	395	Base Case	0	44.8	-	13.82	0	0.16%	0.16%	-0.05%
1788 242704 05LOGAN1	138 242779 05RUMCKZ	138 1	242704 05LOGAN1	242779	05RUMCKZ	1	138	205 AEP	334	421	Base Case	0	-46.1	-	13.81	0	0.12%	0.12%	0.30%
1789 238735 02FOXQ14	138 240259 02FUQ-14	138 1	238735 02F0XQ14	240259	02FUQ-14	1	. 138	202 ATSI	347	423	Base Case	0	47.8		13.79	0	0.15%	0.15%	0.02%
1790 238809 02HMLQ14	138 240259 02FUQ-14	138 1	238809 02HMLQ14	240259	02FUQ-14	1	138	202 ATSI	347	423	Base Case	0	-47.8	-	13.79	0	0.15%	0.15%	0.02%
1791 244198 05LEMASTER	138 247067 05GOODHP	138 1	244198 05LEMASTER	247067	05GOODHP	1	138	205 AEP	196	247	Base Case	0	27	-	13.76	0	0.04%	0.04%	0.05%
1792 243274 05DEER CRK1	138 243343 05MISSIS	138 1	243274 05DEER CRK1	243343	05MISSIS	1	138	205 AEP	187	240	Base Case	0	25.7	-	13.75	0	-0.05%	-0.05%	-0.04%
1793 238502 02BRIM	138 238962 02MIDWAY	138 1	238502 02BRIM	238962	02MIDWAY	1	138	202 ATSI	164	170	Base Case	0	-22.5	-	13.74	0	-0.04%	-0.04%	0.00%
1794 243133 05VALLEY GRV	138 246927 05SAND H	138 2	243133 OSVALLEY GRV	246927	05SAND H	5	138	205 AEP	205	205	Base Case	0	28.1		13.72	n	0.15%	0.15%	-0.10%
1795 238642 02CBSLND	138 239199 02WN-STT	138 1	238642 02CBSLND	239199	02WN-STL	1	138	202 ATST	160	192	Base Case	0	21 9		13.72	0	-0.07%	-0.07%	0.01%
1796 243672 05BECKHA	138 243703 05TOPMOS	138 1	243672 058ECKHA	243703	05TOPMOS	1	130	205 AEP	158	183	Base Case	0	-21 7		13 71	0	0.09%	0.09%	0.05%
1797 243310 05HODGIN	138 243362 05PANDOL	138 1	243310 05#00ctN	243360	05RANDOT	1	130	205 AEP	210	247	Base Case	0	30		12 71	0	0.02%	0.02%	0.04%
1798 247003 0500000	138 247165 05001MCC	138 1	247003 0500000	243302	05cptimee	1	120	205 AEP	215	247	Base Case	0	-20		12 7	0	0.02/0	0.02%	0.00%
1790 239679 00505HSS	130 24/103 USSKUNSS	100 1	24/003 03GUSHSS	24/105	0JOKUNSS		138	200 AEP	107	200	Dase Case	0	-30		12.0	0	0.00%	0.00%	0.00%
1900 242200 05 UZEARKON	130 238/3/ UZGLEKST	100 57	2300/8 UZEAKKUN	238/5/	OZGLCKST		138	202 ATS1	120	191	Dase case	0	23.6		13.09	0	0.05%	0.05%	-0.05%
1000 243308 05HICKRY CK1	138 246060 05HICKRY CK2	138 ZL	243308 05HICKRY CK1	246060	USHICKRY CK2	ZL	138	205 AEP	173	173	Base Case	0	23.7	-	13.68	0	0.06%	0.06%	0.02%

			A		B C	D	E	F	G	Н	1	Ĵ	К	L	М	N	0	Р	Q	R	S	Т	U
1801	238640 02CRISS	138 23	38969 02MRGP +	138 1	238640 02CRISS	238969	02MRGP +	1	138	3 202	ATSI	259	308 Bas	se Case	0	35.4		13.68	0	-0.10%	-0.10%	0.11%	
1802	243219 05DUMONT	345 24	43234 05TWIN B	345 2	243219 05DUMONT	243234	05TWIN B	2	345	5 205	AEP	1409	1409 Bas	se Case	0	192.4	-	13.66	0	-0.38%	-0.38%	-0.05%	
1803	243219 05DUMONT	345 24	43234 05TWIN B	345 1	243219 05DUMONT	243234	05TWIN B	1	345	5 205	AEP	1409	1409 Bas	se Case	0	192.4	-	13.66	0	-0.38%	-0.38%	-0.05%	
1804	238942 02MAPLE	138 23	39180 02ZELI-M	138 1	238942 02MAPLE	239180	02ZELI-M	1	138	3 202	ATSI	308	376 Bas	se Case	0	42	-	13.65	0	-0.68%	-0.68%	0.05%	
1805	243056 05NEWCOM	138 24	43094 05SCOSHC	138 1	243056 05NEWCOM	243094	05SCOSHC	1	138	3 205	AEP	150	173 Bas	e Case	0	-20.5	-	13.65	0	-0.35%	-0.35%	0.01%	
1806	243273 05DARDEN	138 24	43359 05PINERD	138 1	243273 05DARDEN	243359	05PINERD	1	138	205	AEP	167	167 Bas	e Case	0	-22.8	-	13 63	0	-0.10%	-0.10%	-0.06%	
1807	243014 05GBBLOP	138 24	47108 05SOWERS	138 1	243014 05GBBLOP	247108	05SOWERS	1	138	3 205	AEP	223	310 Bas	e Case	0	30.4	-	13 62	0	-0.08%	-0.08%	0.03%	
1808	243064 050RBL01	130 27	45615 058 DOINT2	130 1	243014 050RBL01	247100	058 DOINT2	1	120	205	AED	240	251 Bas	case	0	20.7		12 62	0	0.05%	0.05%	0.03%	
1000	245004 05NFROCT	100 25	45015 055.F01N12	130 1	245004 05NFROCT	243013	033.FOINIZ	1	100	203	ADE	240	201 Bas	case	0	22.7		13.02	0	0.03%	0.03%	0.04%	
1005	244560 OFTCADELLA	120 20	ACOO OENEWADYC DD	130 1	244560 05100PELLA	239730	OENEWARKC PD	1	120	202	ALD	124	124 Das	case	0	16.0	_	12 61	0	0.23%	0.23%	0.04%	
1010	2343500 USISABELLA	245 24	40300 USNEWARKC_BP	245 1	239745 02CN TON	240300	OSNEWARKC BF	1	246	203	ALF	1000	124 Bas	e Case	0	10.9		13.61	0	0.03%	0.03%	0.04%	
1011	238745 02GALION	345 24	42941 050H10C1	345 I	238745 02GALION	242941	OSUHIOCI	1	343	202/203	AISI/AEP	1220	1330 Bas	se case	0	-100.9	-	13.59	0	0.27%	0.27%	0.03%	
1012	253050 09MONUM2	138 23	53096 09WIAND2	138 1	253050 09MON0M2	253096	09WYANDZ	1	138	209	DAY	195	195 Bas	se case	0	26.5	-	13.58	0	0.00%	0.00%	0.00%	
1013	238727 02WLBCT+	138 23	10001 OFWIGEN	138 1	238727 02WLBCT+	239162	OZWALBRD	1	138	202	ATSI	163	163 Bas	se case	0	22.1	-	13.57	0	0.00%	0.00%	0.00%	
1014	242638 USFIELDALEI	138 24	42831 USTHORNT	138 1	242638 USFIELDALEI	242831	05THORNT	1	138	3 205	AEP	150	204 Bas	se Case	0	20.4	-	13.57	0	-0.04%	-0.04%	0.19%	
1815	244142 05MARQUETTE	138 24	47489 05BOSSERMAN	138 1	244142 05MARQUETTE	247489	05BOSSERMAN	1	138	3 205	AEP	251	335 Bas	se Case	0	34	-	13.57	0	0.08%	0.08%	0.05%	
1816	243483 05CRCLVS	138 24	43522 05HARRISON	138 2	243483 05CRCLVS	243522	05HARRISON	2	138	3 205	AEP	323	451 Bas	se Case	0	43.8	-	13.56	0	-0.02%	-0.02%	0.08%	
1817	243215 05COOK	345 24	47803 05SEGRETO	345 1	243215 05COOK	247803	05SEGRETO	1	345	5 205	AEP	1409	1868 Bas	se Case	0	-191	-	13.56	0	0.50%	0.50%	-0.02%	
1818	243483 05CRCLVS	138 24	43522 05HARRISON	138 1	243483 05CRCLVS	243522	05HARRISON	1	138	3 205	AEP	323	451 Bas	se Case	0	43.8	-	13.56	0	-0.02%	-0.02%	0.08%	
1819	250011 08DERPK1	138 25	50012 08DERPK2	138 Z1	250011 08DERPK1	250012	08DERPK2	Z1	138	3 212	DEO&K	406	454 Bas	se Case	0	-55	-	13.55	0	0.00%	0.00%	0.00%	
1820	245964 05N.NEWARK2	138 24	46308 05NEWARKC_BP	138 1	245964 05N.NEWARK2	246308	05NEWARKC_BP	1	138	205	AEP	124	124 Bas	se Case	0	-16.8	-	13.54	0	0.03%	0.03%	0.04%	
1821	238913 02LRCRQ2	138 23	39113 02SP Q-2	138 1	238913 02LRCRQ2	239113	02SP Q-2	1	138	3 202	ATSI	148	151 Bas	se Case	0	20	-	13.54	0	-0.18%	-0.19%	0.04%	
1822	238906 02LNGVEW	138 23	38938 O2MADISN	138 1	238906 02LNGVEW	238938	02MADISN	1	138	3 202	ATSI	160	192 Bas	se Case	0	-21.6	-	13.53	0	0.11%	0.11%	-0.04%	
1823	242628 05E.LYNN	138 24	47243 05SHERID	138 1	242628 05E.LYNN	247243	05SHERID	1	138	3 205	AEP	296	378 Bas	se Case	0	40	-	13.53	0	-0.05%	-0.05%	-0.14%	
1824	242623 05DAWES	138 24	47064 05KANAWHA2	138 1	242623 05DAWES	247064	05KANAWHA2	1	138	3 205	AEP	223	223 Bas	se Case	0	-30.1	-	13.5	0	0.03%	0.03%	-0.15%	
1825	247034 05EMERSS	138 24	47508 05SARDINIA	138 1	247034 05EMERSS	247508	05SARDINIA	1	138	3 205	AEP	151	185 Bas	se Case	0	-20.3	-	13.47	0	-0.06%	-0.06%	0.01%	
1826	243309 05HILLCR	138 24	43390 05WAYNED	138 1	243309 05HILLCR	243390	05WAYNED	1	138	3 205	AEP	219	251 Bas	se Case	0	-29.4	-	13.44	0	-0.07%	-0.07%	-0.01%	
1827	243533 05LAYMAN	138 24	47319 05WOLFCK	138 1	243533 05LAYMAN	247319	05WOLFCK	1	138	3 205	AEP	205	255 Bas	se Case	0	-27.6	-	13.44	0	-0.43%	-0.43%	-0.23%	
1828	238745 02GALION	345 24	42942 05SBERWI	345 1	238745 02GALION	242942	05SBERWI	1	345	5 202/205	ATSI/AEP	1228	1409 Bas	se Case	0	-164.8	-	13.42	0	-0.70%	-0.70%	-0.74%	
1829	243311 05ARN HOGAN	138 24	45803 05DELAWR2	138 1	243311 05ARN HOGAN	245803	05DELAWR2	1	138	3 205	AEP	205	247 Bas	se Case	0	27.4	-	13.36	0	-0.03%	-0.03%	0.04%	
1830	243272 05DALEVI	138 24	45946 05MADISON2	138 1	243272 05DALEVI	245946	05MADISON2	1	138	3 205	AEP	187	233 Bas	se Case	0	-24.9		13.34	0	-0.02%	-0.02%	0.04%	
1831	238673 02E IND	138 23	39079 02S EAST	138 1	238673 02E IND	239079	02S EAST	1	138	3 202	ATSI	194	237 Bas	se Case	0	-25.9	-	13.34	0	0.07%	0.07%	0.00%	
1832	238586 02BRKSID	138 23	39216 02TROY	138 1	238586 02BRKSID	239216	02TROY	1	138	3 202	ATSI	147	179 Bas	se Case	0	-19.6	-	13.33	0	0.08%	0.08%	-0.11%	
1833	238815 02IKQ-15	138 23	38841 02JNPRQ2	138 1	238815 02IKQ-15	238841	02JNPRQ2	1	138	3 202	ATSI	223	286 Bas	se Case	0	-29.7	-	13.32	0	0.01%	0.01%	-0.01%	
1834	243029 05LCKWRD	138 24	43086 05S HICK	138 1	243029 05LCKWRD	243086	05S HICK	1	138	3 205	AEP	223	310 Bas	se Case	0	-29.7	-	13.31	0	-0.21%	-0.21%	0.07%	
1835	253049 09MONUM1	138 25	53095 09WYAND1	138 1	253049 09MONUM1	253095	09WYAND1	1	138	3 209	DAY	195	195 Bas	se Case	0	25.9	-	13.29	0	0.00%	0.00%	0.00%	
1836	243686 05EXCELT	138 24	43694 05INEZ	138 1	243686 05EXCELT	243694	05INEZ	1	138	3 205	AEP	548	601 Bas	se Case	0	-72.8	-	13.29	0	0.00%	0.00%	-0.14%	
1837	238651 02DANA	138 23	38786 02HAWTHO	138 1	238651 02DANA	238786	02HAWTHO	1	138	3 202	ATSI	288	353 Bas	se Case	0	38.2		13.28	0	0.00%	0.00%	0.01%	
1838	247712 05SULLIVAN	345 25	54529 16PETE	345 1	247712 05SULLIVAN	254529	16PETE	1	345	5 205/216	AEP/IPL	1409	1409 Bas	se Case	0	-186.8		13.26	0	0.32%	0.32%	0.43%	
1839	242760 05PROGPK	138 24	47850 05TOWN CREEK	138 1	242760 05PROGPK	247850	05TOWN CREEK	1	138	3 205	AEP	296	413 Bas	se Case	0	39.2	-	13.25	0	0.04%	0.04%	0.19%	
1840	243286 05EDISON2	138 24	44119 05GRAVEL PIT	138 1	243286 05EDISON2	244119	05GRAVEL PIT	1	138	205	AEP	158	183 Bas	se Case	0	20.9	-	13.23	0	-0.08%	-0.08%	-0.05%	
1841	239728 02BLKRVR	138 24	41932 02AMH.MUN2	138 1	239728 02BLKRVR	241932	02AMH.MUN2	1	138	3 202	ATSI	498	573 Bas	se Case	0	-65.8	-	13.21	0	-0.28%	-0.28%	-0.02%	
1842	250075 08MTGRY1	138 25	50076 08MTGRY2	138 Z1	250075 08MTGRY1	250076	08MTGRY2	Z1	138	3 212	DEO&K	406	454 Bas	se Case	0	53.6	-	13.2	0	-0.01%	-0.01%	-0.03%	
1843	243066 05NW LIM	138 24	43157 05WOODLA	138 1	243066 05NW LIM	243157	05WOODLA	1	138	3 205	AEP	205	205 Bas	e Case	0	27	-	13.19	0	0.01%	0.01%	-0.06%	
1844	243510 05GAHANN	138 24	43523 05HCREAN	138 1	243510 05GAHANN	243523	05HCREAN	1	138	3 205	AEP	150	212 Bas	e Case	0	19.8	-	13.19	0	0.05%	0.05%	0.01%	
1845	237081 AA2-121 TAP	345 24	42946 05TIDD	345 1	237081 AA2-121 TAP	242946	05TIDD	1	345	5 201/205	AP/AEP	1409	1409 Bas	se Case	0	185.6		13.17	0	3.06%	3.06%	-0.23%	
1846	243578 05STRODZ	138 24	44230 05SUNDAY SS	138 1	243578 05STRODZ	244230	05SUNDAY SS	1	138	205	AEP	259	325 Bas	se Case	ů.	34.1		13.16	0	-0.14%	-0.14%	0.15%	
1847	243485 05CLINTO	138 24	43487 05CHK TAP 7	138 1	243485 05CLINTO	243487	05CHK TAP 7	1	138	205	AEP	195	220 Bas	e Case	0	-25.6	_	13.14	0	0.07%	0.07%	0.01%	
1848	243284 05DUPONT	138 24	46172 05DUPONT 8	138 21	243284 05DUPONT	246172	05DUPONT 8	71	138	205	AEP	167	245 Bas	e Case	0	21.9	-	13.14	0	0.00%	0.00%	0.00%	
1849	242640 05FLOYD	138 24	42750 05PHTLPOTT 7	138 1	242640 05FLOYD	242750	05PHILPOTT 7	1	130	205	AEP	205	280 Bas	se Case	n	-26.9	-	13.13	0	0.05%	0.05%	0.52%	
1850	243057 05NEW LIBP1	138 24	47893 05FLAG CTTV	138 1	243057 05NEW LTBR1	247893	05FLAG CITY	1	130	3 205	AEP	150	212 Rae	e Case	0	-19 7	_	13.13	0	0.08%	0.08%	-0.06%	
1851	235198 01KEISTP	138 23	39350 02CAMPBL	138 1	235198 01KEISTR	239350	02CAMPBL	1	130	201/202	AP/ATST	278	339 Bae	e Case	0	36.4	_	13.1	0	0.74%	0.74%	0.00%	
1857	238500 02ALLEN-1	138 23	38532 02ALT.N.TR	138 7B	238500 02ALLEN-1	232530	02ALLN.TR	ZB	130	201/202	ATST	563	563 Bas	e Case	0	73 6	-	13 08	0	-0.06%	-0.06%	0.01%	
1857	238693 02ELM	138 23	39031 02PACKRD	138 1	238693 02ELM	2390332	02PACKRD	1	130	202	ATST	157	196 Bae	e Case	0	-20.5	22	13.07	0	-0.02%	-0.02%	0.00%	
1854	239354 02HARMON	138 2/	47460 05NOTTINCH?4	138 1	239354 02HARMON	247460	05NOTTINCH 24	1	100	202	ATST/AFD	273	332 Bas	e Case	0	-35 6	_	13.04	0	-0.02%	-0.04%	0.04%	
1855	238733 02FOV012	138 23	39033 020011100034	138 1	238733 02F0V012	230033	0200011100034	1	100	202/203	ATGT/ADF	273	131 Das	Case	0	46 3	_	13.04	0	0.04%	0.04%	0.04%	
1856	250025 08FLDMN1	130 23	50026 OPET DMN2	139 71	250/25 08ELDMN1	250026	0.9 FT DMN2	71	100	202	DEOCK	300	454 Pas	Case	0	52 0		13.03	0	0.05%	0.05%	0.00%	-
1857	242526 OSVANAMO	3/5 22	A2527 OSM FILME	345 1	242526 05KANAMZ	210527	05H FINE	1 1	240	212	AFD	1120	1122 D	e Case	0	147 4	-	12.03	0	-0.60%	-0.60%	-2 3/10/	
1850	232666 02ETMODJ	120 23	22005 021NC DK	120 1	239696 02ETWOD4	2320005	OOT TONK	1	100	203	лет	155	155 Pag	c Case	0	20.0		12.03	0	0.03%	0.03%	-2.34%	
1050	230090 UZELWUD+	130 23	ABODO OSMANNOV	130 I	242221 051 TNW00	230903	05MAKAUOV	1	130	202	ALOL	107	240 Dc -	o Case	0	20.2		12.01	0	0.02%	0.02%	0.05%	
1005	2433331 USLINWUU	245 24	49005 OCTVOID	130 L	243331 UJLINWUU	243920	OSPARAHUI	1	138	205	ALF AFR	187	240 Bas	e case	0	-125 0	-	12.90	0	0.02%	0.02%	0.00%	
1900	242938 USMARQUI	345 24	48005 UGKIGER	343 I	Z4Z938 USMARQUI	248005	UGRIGER	1	345	205/206	AEP/OVEC	971	9/1 Bas	se case	0	-125.8	-	12.95	0	0.34%	0.34%	0.07%	

	А		B C	D	E	F	G	н і	J	K	L	М	N	0	Р	Q	R	S	T U
1861 250018 08EMWOD1	138 250019 08EMWOD6	138 Z1	250018 08EMWOD1	250019	08EMWOD6	Z1	138	212 DE0&K	273	287	Base Case	0	35.4	-	12.95	0	0.02%	0.02%	0.01%
1862 242656 05GRASSH	138 242736 050AKLEV	138 1	242656 05GBASSH	242736	050AKLEV	1	138	205 AEP	219	223	Base Case	0	-28.3	-	12.94	0	-0.05%	-0.05%	0.40%
1863 242965 05BRIDGEVILZ	138 242983 05CHANDLERV7	138 1	242965 0588TDCEVTL7	242983	05CHANDLERVZ	1	138	205 AFP	335	482	Base Case	0	-43.3	_	12.94	0	-0.47%	-0.47%	0.10%
1964 242905 05BRIDGEVINZ	130 242905 05CHANDLERV2	120 1	242905 05BRIDGEVIL2	242905	05CHANDEERV2	1	130	205 AEL	107	240	Dase Case	0	24.2		12.04	0	0.01%	0.4776	0.06%
1965 245522 05HOT LOWAY24	138 243310 USROCKHILL2	130 1	242555 05EASTOW	243310	05ROCKHIBBZ	1	100	205 AEF	107	240	Base Case	0	-24.2	-	12.94	0	0.01%	0.01%	-0.0076
1865 245555 05HOLLOWAI54	130 247840 05DILESBIMZI	100 1	245555 05HOLLOWAI54	247040	05DILESBIMZI	1	100	205 AEP	400	001	Base Case	0	-00.3		12.95	0	-0.10%	-0.10%	0.18%
1866 243242 05ALLEN	138 247864 05LOGTOWN	138 1	243242 USALLEN	24/864	05LOGTOWN	1	138	205 AEP	281	281	Base Case	0	36.3	-	12.9	0	-0.14%	-0.14%	-0.05%
1867 242801 05SKEGGS BRZ	138 246828 05SKEGGS BR	138 Z1	242801 05SKEGGS BRZ	246828	05SKEGGS BR	Z1	138	205 AEP	158	167	Base Case	0	20.3	-	12.87	0	0.00%	0.00%	0.00%
1868 242743 05PARKHI	138 242842 05W HUNT	138 1	242743 05PARKHI	242842	05W HUNT	1	138	205 AEP	146	167	Base Case	0	-18.8	-	12.86	0	-0.06%	-0.06%	-0.02%
1869 243532 05KIRK	138 247767 05HAZELTON	138 1	243532 05KIRK	247767	05HAZELTON	1	138	205 AEP	564	747	Base Case	0	72.4	-	12.84	0	0.00%	0.00%	0.00%
1870 246887 05RAMEY	138 247652 05HOODSCRK	138 1	246887 05RAMEY	247652	05HOODSCRK	1	138	205 AEP	251	335	Base Case	0	32.2	-	12.83	0	0.00%	0.00%	-0.01%
1871 238658 02DECANT	138 239030 020TTAWA	138 1	238658 02DECANT	239030	020TTAWA	1	138	202 ATSI	242	296	Base Case	0	31	-	12.79	0	-0.17%	-0.17%	-0.03%
1872 249578 08HILCRT	345 250136 08HILCRT	138 1	249578 08HILCRT	250136	08HILCRT	1	345/138	212 DEO&K	480	501	Base Case	0	61.3	-	12.77	0	0.04%	0.04%	0.03%
1873 243354 050NTWA8	138 243355 050NTWA8 SS	138 1	243354 050NTWA8	243355	050NTWA8 SS	1	138	205 AEP	185	185	Base Case	0	-23.6	-	12.76	0	0.00%	0.00%	0.00%
1874 242530 05EDANV1	230 304024 6R0XSEP230 T	230 1	242530 05EDANV1	304024	6ROXSEP230 T	1	230	205/340 AEP/CPLE	621	771	Base Case	0	-79.2	-	12.75	0	0.30%	0.30%	3.39%
1875 235418 01WASHMP	138 243490 05CORNER	138 1	235418 01WASHMP	243490	05COBNER	1	138	201/205 AP/AEP	282	332	Base Case	0	-35 9	_	12.75	0	-0.13%	-0.13%	-0.10%
1876 220075 02DOCEME	139 230161 02WAKBON	120 1	239075 02BOSEME	220161	0.2WAKDON	1	120	201/203 //////	202	202	Base Case	0	20.7		12.75	0	-0.04%	-0.04%	0.04%
1977 239500 007DTW	130 239101 02WARKON	130 1	239075 02R03EM1	239101	02WARKON	1	100	202 ATSI	235	202	Base Case	0	29.7		10.79	0	-0.04%	-0.04%	0.04%
1077 238509 UZEREI	130 239310 UZBPHUSKY	138 L	2303U9 U2FKEI	239310	02BPHUSKI		138	202 ATS1	241	292	Dase Case	0	-30.7	-	12.72	0	-0.03%	-0.03%	-0.04%
1070 242635 USELKGAR	130 240/00 USELKGAZ	138 1	242635 USELKGAR	246/66	USELKGAZ	1	138	ZUS AEP	145	145	Base Case	0	-18.4	.=	12.7	0	0.00%	0.00%	0.00%
18/9 247319 05WOLFCK	138 247370 05MUSKNG1A	138 1	24/319 05WOLFCK	247370	U5MUSKNG1A	1	138	205 AEP	323	437	Base Case	0	-41	-	12.7	0	-0.43%	-0.43%	-0.23%
1880 246327 05NOTTINGH78	138 247461 05FREEBYRD	138 1	246327 05NOTTINGH78	247461	05FREEBYRD	1	138	205 AEP	296	413	Base Case	0	37.6	-	12.7	0	-0.21%	-0.21%	0.03%
1881 239106 02SHNAGO	345 239303 02NILES	345 1	239106 02SHNAGO	239303	02NILES	1	345	202 ATSI	1542	1878	Base Case	0	195.8	-	12.7	0	0.72%	0.72%	-0.14%
1882 238817 02IKQ-18	138 240351 02IV-NB+18	138 1	238817 02IKQ-18	240351	02IV-NB+18	1	138	202 ATSI	273	332	Base Case	0	34.6	-	12.69	0	-0.04%	-0.04%	0.02%
1883 238762 02GR Q-3	138 239051 02PV Q3	138 1	238762 02GR Q-3	239051	02PV Q3	1	138	202 ATSI	267	332	Base Case	0	-33.9	-	12.68	0	0.18%	0.18%	0.01%
1884 235336 01GOFFRN	138 247793 05LINDEN RD	138 1	235336 01GOFFRN	247793	05LINDEN RD	1	138	201/205 AP/AEP	169	213	Base Case	0	-21.4	-	12.68	0	-0.26%	-0.26%	0.16%
1885 242585 05CAVE SPR1Z	138 245723 05CAVE SPR	138 Z1	242585 05CAVE SPR1Z	245723	05CAVE SPR	Z1	138	205 AEP	164	180	Base Case	0	20.8	-	12.67	0	0.00%	0.00%	0.00%
1886 238825 02IVANHO	138 239031 02PACKRD	138 1	238825 02IVANHO	239031	02PACKRD	1	138	202 ATSI	200	242	Base Case	0	25.3	-	12.66	0	-0.02%	-0.02%	0.00%
1887 238989 02NB 017	138 240350 02TV-NB+17	138 ZT.	238989 02NB 017	240350	02TV-NB+17	ZT.	138	202 ATST	164	206	Base Case	0	-20.8	-	12.66	0	0.00%	0.00%	0.00%
1888 243242 05ALLEN	138 245832 05LINCOLN2	138 1	243242 05ALLEN	245832	051 TNCOLN2	1	138	205 359	203	200	Base Case	0	37 1	_	12.65	0	0.05%	0.05%	0.03%
1990 238818 027TO 11	130 230040 03DU 01	100 1	239818 03710 11	230040	03DINCOLNZ	1	130	203 AMOT	200	200	Dase Case	0	20 4	000	12.05	0	0.05%	0.05%	0.03%
1009 238818 02110-11	138 239049 02PV Q1	130 1	238818 02112-11	239049	OZPV QI	1	100	202 AISI	225	295	Base Case	0	-20.4		12.04	0	-0.00%	-0.00%	0.02%
1890 242827 USTAZEWE	138 247150 05FARADAY	138 1	242827 USTAZEWE	24/150	USFARADAY	1	138	205 AEP	296	400	Base Case	U	37.2	-	12.57	0	-0.03%	-0.03%	0.04%
1891 239025 02NY Q11	138 239053 02PVMQ15	138 1	239025 02NY Q11	239053	02PVMQ15	1	138	202 ATS1	273	332	Base Case	0	34.3	-	12.56	0	0.08%	0.08%	-0.02%
1892 239018 02FULTON	345 239370 02DOWLING	345 1	239018 02FULTON	239370	02DOWLING	1	345	202 ATSI	1222	1385	Base Case	0	-153.3	-	12.55	0	0.39%	0.39%	0.09%
1893 238917 02STACY	138 239097 02SBRNQ3	138 1	238917 02STACY	239097	02SBRNQ3	1	138	202 ATSI	148	151	Base Case	0	-18.6	-	12.54	0	0.09%	0.09%	-0.02%
1894 238508 02EBER	138 239169 02WENTWT	138 1	238508 02EBER	239169	02WENTWT	1	138	202 ATSI	278	343	Base Case	0	34.8	-	12.52	0	-0.04%	-0.04%	0.01%
1895 238889 02LEMOYN	345 238961 02MIDWAY	345 1	238889 02LEMOYN	238961	02MIDWAY	1	345	202 ATSI	1380	1646	Base Case	0	172.8	-	12.52	0	0.40%	0.40%	0.10%
1896 238734 02F0XQ13	138 240258 02FUQ-13	138 1	238734 02F0XQ13	240258	02FUQ-13	1	138	202 ATSI	425	522	Base Case	0	53.1	-	12.5	0	0.10%	0.10%	0.01%
1897 242605 05CLNCHR	138 242615 05COPPER	138 1	242605 05CLNCHR	242615	05COPPER	1	138	205 AEP	219	223	Base Case	0	27.4	-	12.5	0	-0.02%	-0.02%	-0.20%
1898 239063 02REYNOD	138 239146 02UTTP1	138 1	239063 02REYNOD	239146	02UTTP1	1	138	202 ATSI	308	376	Base Case	0	38.5		12.49	0	-0.06%	-0.06%	0.01%
1899 253026 09GREENE	138 253107 09ALPHA	138 1	253026 09GREENE	253107	09ALPHA	1	138	209 DAY	301	374	Base Case	0	-37.6	-	12.48	0	-0.10%	-0.10%	-0.03%
1900 239057 02LBCB04	138 239115 02SP 0-4	138 1	239057 02LBCB04	239115	02SP 0-4	1	138	202 ATST	148	151	Base Case	0	18.5	-	12.47	0	-0.19%	-0.19%	0.04%
1901 242980 05CANTNC	138 243097 05SECANT	138 1	242980 05CANTNC	243097	05SECANT	1	138	205 AFR	296	308	Base Case	0	-36.8	-	12 45	0	-0.13%	-0.13%	0.07%
1902 239033 02000012	138 240260 02CMC012	138 1	239033 02000012	240260	02GMC012	1	120	202 2021	250	131	Bago Caso	0			10 10	0	0.00%	0.00%	0.00%
1002 239055 02PDbQ12	120 230005 02GMCQ12	120 1	239033 02200012	240200	020PDNo1	1	100	202 ATOT	140	454	Dase Case	0	10 4		10 40	0	0.05%	0.09%	0.00%
1903 238342 UZASH I	130 533032 052225	130 1	230342 UZASH_1	239095	025BKNQ1	1	138	ZUZ ATSI	148	151	Dase Case	0	18.4	-	12.43	0	0.18%	0.18%	-0.05%
1904 243248 USBARODA	138 2432// U5DERBY	138 1	243248 USBARODA	243277	USDERBY	1	138	205 AEP	205	205	Base Case	0	-25.5	-	12.42	0	0.06%	0.06%	0.02%
1905 247373 05MUSKNG2A	138 247374 05MUSKNG2B	138 Z1	247373 05MUSKNG2A	247374	05MUSKNG2B	Z1	138	205 AEP	766	898	Base Case	0	95.1	-	12.42	0	-0.06%	-0.06%	0.11%
1906 239110 02SIL_AV+	138 239346 02SILICA+	138 1	239110 02SIL_AV+	239346	02SILICA+	1	138	202 ATSI	278	343	Base Case	0	34.5	-	12.41	0	0.00%	0.00%	0.00%
1907 239111 02SILICA	138 239346 02SILICA+	138 1	239111 02SILICA	239346	02SILICA+	1	138	202 ATSI	278	343	Base Case	0	-34.5	-	12.41	0	0.00%	0.00%	0.00%
1908 238743 02ER-DNB+Q11	138 240347 02FOWLESQ11	138 1	238743 02ER-DNB+Q11	240347	02FOWLESQ11	1	138	202 ATSI	176	229	Base Case	0	21.8	-	12.39	0	-0.19%	-0.19%	-0.02%
1909 238698 02ENQ-11	138 240347 02FOWLESQ11	138 1	238698 02ENQ-11	240347	02FOWLESQ11	1	138	202 ATSI	176	229	Base Case	0	-21.8	-	12.39	0	-0.19%	-0.19%	-0.02%
1910 242514 05J.FERR	765 242517 05WYOMIN	765 1	242514 05J.FERR	242517	05WYOMIN	1	765	205 AEP	4142	4142	Base Case	0	-512.5	-	12.37	0	-2.21%	-2.20%	-10.24%
1911 242715 05MERRIM	138 242839 05VICKER	138 1	242715 05MERRIM	242839	05VICKER	1	138	205 AEP	205	205	Base Case	0	-25.3	-	12.35	0	-0.04%	-0.04%	-0.02%
1912 242924 05HANG R	765 243208 05JEFRSO	765 1	242924 05HANG R	243208	05JEFRSO	1	765	205 AEP	4047	4571	Base Case	0	-500	-	12.35	0	-3.68%	-3.68%	-4.00%
1913 243466 05ASTOR	138 243467 05E BROAD3	138 1	243466 05ASTOR	243467	05E.BROAD3	1	138	205 AEP	209	209	Base Case	n	-25.8	-	12.34	n	0.03%	0.03%	-0.01%
1914 239026 02NV 012	138 239054 02DVM016	138 1	239026 0257 012	230054	02PVM016	1	130	202 8797	205	500	Base Care	0	34 3	_	12 33	0	0.08%	0.08%	-0.02%
1915 239151 02WIT CTT	130 230160 02FVMQT0	130 1	239151 02001 012	239034	0.2MENUM	1	100	202 ATOT	270	3/3	Page Case	0	31 3		12.00	0	0.00%	0.00%	-0.02%
1016 220054 0200001C	120 229109 UZWENIWI	120 1	239131 02V0LCIA	239109	02WENIWI	1	100	202 ATOT	278	243	Dase Case	0	24.3		12.32	0	0.04%	0.04%	0.02%
1017 040000 07 07 00 00 00 00 00 00 00 00 00 00	130 239331 UZNASHRING	138 1	239034 02PVMQ16	239331	UZNASHKING	1	138	202 ATSI	278	339	Base Case	0	34.2	-	12.31	0	0.08%	0.01%	-0.02%
1917 242820 05SUNDL1	138 24418/ 05STINK RUN	138 1	242820 05SUNDL1	244187	USSTINK RUN	+ 1	138	205 AEP	205	205	Base Case	0	25.2	-	12.29	0	0.01%	0.01%	0.02%
1918 243325 05LANTRN	138 245803 05DELAWR2	138 1	243325 05LANTRN	245803	U5DELAWR2	1	138	205 AEP	187	233	Base Case	0	-23	-	12.28	0	-0.01%	-0.01%	0.00%
1919 242786 05S.PRINCETN	138 246898 05HALLSR	138 1	242786 05S.PRINCETN	246898	05HALLSR	1	138	205 AEP	334	334	Base Case	0	41	-	12.28	0	-0.20%	-0.20%	-0.37%
1920 243385 05TWIN B	138 246066 05S.BEND2	138 1	243385 05TWIN B	246066	05S.BEND2	1	138	205 AEP	335	380	Base Case	0	41.1	-	12.27	0	0.16%	0.16%	0.11%

	А		B C	D	E	F	G	НІ	J	К	L.	М	N	0	Р	Q	R	S	T U
1921 243514 05RJF CORP Z	138 247804 05DEVOLA	138 1	243514 05RJF CORP Z	247804	05DEVOLA	1	138	205 AEP	282	282	Base Case	0	-34.6	-	12.26	0	-0.07%	-0.07%	-0.08%
1922 242572 05BURLHT	138 242584 05CATAWZ	138 1	242572 05BURLHT	242584	05CATAWZ	1	138	205 AEP	219	223	Base Case	0	26.8		12.24	0	0.11%	0.11%	0.29%
1923 242584 05CATAWZ	138 242852 05WSALEM	138 1	242584 05CATAWZ	242852	05WSALEM	1	138	205 AEP	219	223	Base Case	0	26.8	-	12.24	0	0.11%	0.11%	0.29%
1924 249567 08M.FORT	345 249576 08WODSDL	345 1	249567 08M.FORT	249576	08WODSDL	1	345	212 DEO&K	1509	1509	Base Case	0	184.6	-	12.23	0	-0.14%	-0.14%	-0.01%
1925 247822 050UTNWOOD	138 247824 05NUTALL	138 1	247822 050UINWOOD	247824	05NUTALL	1	138	205 AEP	316	444	Base Case	0	-38.5	-	12.17	0	-0.22%	-0.22%	0.12%
1926 243495 05DAVIDS	138 247873 05BRITTON	138 1	243495 05DAVIDS	247873	05BRITTON	1	138	205 AEP	283	369	Base Case	0	34 4	-	12 15	0	-0.02%	-0.02%	0.00%
1927 243214 05COLNEW	345 243231 05BOB PK	345 1	243214 05COLNGW	243231	05BOB PK	1	345	205 AEP	1409	1409	Base Case	0	-171 1	_	12.10	0	0.45%	0.45%	0.41%
1928 243584 05VINE	138 246094 05VINE X	138 77	243584 05VINE	246094	OSVINE Y	78	138	205 AEP	278	278	Base Case	0	-33 7	_	12.11	0	-0.05%	-0.05%	-0.03%
1929 239100 020EVITI	130 230239 03VINE_X	130 1	239100 020FVTTT	230230	02CEUM	1	120	200 ABT	270	200	Base Case	0	_20 2		12.11	0	0.11%	0.11%	0.04%
1920 247086 OEDEDUIT	115 214772 2DED UT	116 71	247086 050FDUIL	239230	2DED UTI	71	115	205/245 AED/DVD	200	202	Base Case	0	-20.2	_	12.1	0	0.11%	0.00%	0.04%
1921 229884 021 PMO K	129 220154 02N FDFM	120 1	2297000 031EMO K	220154	OOW FREM	1	120	203/343 AEF/DVF	150	100	Base Case	0	-10		12.07	0	0.00%	0.12%	0.00%
1022 242501 05CENTERD	130 239134 02W.FREM	120 1	230004 02LEMO K	239134	OEDEUCENC1	1	130	202 AISI	136	1.67	Base Case	0	16.4		12.00	0	0.12%	0.12%	-0.01%
1032 242591 05CENTRR	138 242765 USREUSENSI	130 1	242591 05CENTRR	242/03	OSREUSENSI	1	130	200 AEP	130	107	Base Case	0	-10.4	-	12.03	0	0.04%	0.04%	0.24%
1933 238597 02CADQ17	138 238599 021XQ-2	138 1	238597 02CADQ17	238599	021XQ-2	1	138	202 ATS1	273	332	Base Case	0	32.8	-	12.03	0	0.00%	0.00%	0.00%
1934 250024 08FINTWN	138 250064 08MHLTY2	138 1	250024 08F1NTWN	250064	USMHLTY2	1	138	212 DE0&K	266	266	Base Case	0	32	-	12.02	0	0.01%	0.01%	0.00%
1935 243390 05WAYNED	138 247829 USAVIATION	138 1	243390 05WAYNED	24/829	05AVIATION	1	138	205 AEP	323	451	Base Case	0	-38.8	-	12	0	-0.02%	-0.02%	0.01%
1936 239161 UZWAKRON	138 239617 02SOUREK	138 1	239161 02WAKRON	239617	OZSOUREK	1	138	202 ATS1	200	242	Base Case	0	-24	-	11.99	0	0.08%	0.08%	-0.02%
1937 242636 U5FALLBR	138 242/15 U5MERRIM	138 1	242636 U5FALLBR	242715	USMERKIM	1	138	2U5 AEP	293	341	Base Case	0	35.1	-	11.99	0	0.03%	0.03%	0.04%
1938 243294 05FLWRFD8 SS	138 247330 05BRODY	138 1	243294 05FLWRFD8 SS	247330	USBRODY	1	138	205 AEP	251	251	Base Case	0	-30	-	11.97	0	-0.01%	-0.01%	-0.01%
1939 243688 05S.PORT MTR	138 245949 05MLBRPK_ARG	138 1	243688 USS.PORT MTR	245949	U5MLBRPK_ARG	1	138	205 AEP	205	205	Base Case	0	24.5	-	11.95	0	-0.03%	-0.03%	0.00%
1940 243267 05COUNTY	138 245476 05ROB PK34	138 1	243267 05COUNTY	245476	U5ROB PK34	1	138	205 AEP	323	451	Base Case	0	-38.5	-	11.92	0	0.02%	0.02%	0.02%
1941 239149 02VULCAN	138 239151 02VULCTA	138 1	239149 02VULCAN	239151	02VULCTA	1	138	202 ATSI	288	346	Base Case	0	34.3	-	11.91	0	0.04%	0.04%	-0.02%
1942 243314 05HUNTR8	138 245476 05ROB PK34	138 1	243314 05HUNTR8	245476	05ROB PK34	1	138	205 AEP	257	360	Base Case	0	-30.5	-	11.87	0	0.07%	0.07%	0.06%
1943 243473 05BIXBY	138 246696 05BIXBY T3	138 Z1	243473 05BIXBY	246696	05BIXBY T3	Z1	138	205 AEP	196	247	Base Case	0	23.3	-	11.86	0	0.00%	0.00%	0.00%
1944 238928 02LTV+	138 239073 02ROBERT	138 ZL	238928 02LTV+	239073	02ROBERT	ZL	138	202 ATSI	200	242	Base Case	0	-23.7	-	11.85	0	0.10%	0.10%	-0.11%
1945 243074 05PHILO1	138 246010 05PHILO2	138 Z1	243074 05PHILO1	246010	05PHILO2	Z1	138	205 AEP	548	555	Base Case	0	64.9	-	11.84	0	0.48%	0.48%	-0.02%
1946 242531 05EDANV2	230 304094 6YANCY TAP	230 1	242531 05EDANV2	304094	6YANCY TAP	1	230	205/340 AEP/CPLE	621	771	Base Case	0	-73.5	-	11.84	0	0.30%	0.30%	3.35%
1947 242633 05EDENSR	138 242678 05INDIAS	138 1	242633 05EDENSR	242678	05INDIAS	1	138	205 AEP	158	167	Base Case	0	18.7	-	11.83	0	0.00%	0.00%	0.05%
1948 243558 05RIO	138 243559 05RIO Z	138 1	243558 05RIO	243559	05RIO Z	1	138	205 AEP	145	145	Base Case	0	-17.1	-	11.76	0	-0.01%	-0.01%	-0.02%
1949 238859 02KIQ-11	138 239005 02NHTQ11	138 1	238859 02KIQ-11	239005	02NHTQ11	1	138	202 ATSI	273	332	Base Case	0	32.1	-	11.74	0	0.16%	0.16%	-0.05%
1950 238807 02HMLQ12	138 240260 02GMCQ12	138 1	238807 02HMLQ12	240260	02GMCQ12	1	138	202 ATSI	355	434	Base Case	0	-41.6	-	11.73	0	0.09%	0.09%	0.00%
1951 244745 05BABBIT1-2	138 247767 05HAZELTON	138 1	244745 05BABBIT1-2	247767	05HAZELTON	1	138	205 AEP	564	755	Base Case	0	-66.1	-	11.72	0	0.00%	0.00%	0.00%
1952 250079 08NWTWN1	138 250080 08NWTWN2	138 Z1	250079 08NWTWN1	250080	08NWTWN2	Z1	138	212 DEO&K	394	394	Base Case	0	-46.2	-	11.72	0	0.06%	0.06%	0.06%
1953 243222 05FALL C	345 254535 16SUNNYS	345 1	243222 05FALL C	254535	16SUNNYS	1	345	205/216 AEP/IPL	956	956	Base Case	0	-111.7	-	11.69	0	-0.01%	-0.01%	0.33%
1954 243039 05MELMOR	138 243130 05TIFFIN	138 1	243039 05MELMOR	243130	05TIFFIN	1	138	205 AEP	299	423	Base Case	0	-34.9	-	11.69	0	-0.01%	-0.01%	-0.09%
1955 238557 02B.M.F.	138 239048 02PPPINE	138 1	238557 02B.M.F.	239048	02PPPINE	1	138	202 ATSI	212	239	Base Case	0	24.8	-	11.69	0	0.03%	0.03%	0.00%
1956 243242 05ALLEN	138 243330 05LINCOLN1	138 3	243242 05ALLEN	243330	05LINCOLN1	3	138	205 AEP	167	240	Base Case	0	19.4	-	11.64	0	0.02%	0.02%	0.01%
1957 239180 02ZELI-M	138 239943 02MKWEST2	138 1	239180 02ZELI-M	239943	02MKWEST2	1	138	202 ATSI	312	380	Base Case	0	36.2	-	11.6	0	-0.68%	-0.68%	0.05%
1958 243019 05HILLSB	138 249995 08CLINCO	138 1	243019 05HILLSB	249995	08CLINCO	1	138	205/212 AEP/DEO&K	229	229	Base Case	0	26.6	-	11.59	0	0.13%	0.13%	0.13%
1959 243010 05FTHENR	138 246927 05SAND H	138 1	243010 05FTHENR	246927	05SAND H	1	138	205 AEP	205	255	Base Case	0	23.8	-	11.59	0	0.14%	0.14%	-0.09%
1960 242611 05COALFK	138 242623 05DAWES	138 1	242611 05COALFK	242623	05DAWES	1	138	205 AEP	223	223	Base Case	0	-25.8	-	11.57	0	0.03%	0.03%	-0.15%
1961 238599 02IXO-2	138 240250 02CHIAO-2	138 1	238599 02IX0-2	240250	02CHIAO-2	1	138	202 ATSI	273	332	Base Case	0	31.6	-	11.56	0	0.00%	0.00%	0.00%
1962 242747 05PEMBRT	138 242818 05STOTES	138 1	242747 05PEMBRT	242818	05STOTES	1	138	205 AEP	251	335	Base Case	0	-29	-	11.56	0	-0.04%	-0.04%	-0.10%
1963 238610 02CDR ST	138 239107 02SHNAGO	138 1	238610 02CDR ST	239107	02SHNAGO	1	138	202 ATSI	278	339	Base Case	0	32.1	-	11.55	0	0.23%	0.23%	-0.01%
1964 250054 08LONGBR	138 342559 4BOONE CO	138 1	250054 08LONGBR	342559	4BOONE CO	1	138	212/320 DEO&K/EKPC	229	284	Base Case	0	-26.4	-	11.53	0	-0.01%	-0.01%	0.12%
1965 243587 05WILSNZ	138 243588 05WILSON	138 1	243587 05WILSNZ	243588	05WILSON	1	138	205 AEP	223	223	Base Case	0	25.7	-	11.51	0	-0.04%	-0.04%	-0.01%
1966 243013 05GAVIN1	138 243766 05LTGHTSTONI	138 ZC	243013 05GAVIN1	243766	05LIGHTSTONL	ZC	138	205 AEP	348	407	Base Case	0	40	-	11.49	0	0.00%	0.00%	0.00%
1967 243013 05GAVIN1	138 243766 05LIGHTSTONE	138 ZD	243013 05GAVIN1	243766	05LIGHTSTONE	ZD	138	205 AEP	348	407	Base Case	0	40	_	11 49	0	0.00%	0.00%	0.00%
1968 242941 050HTOCT	345 243455 05CONES	345 1	242941 050HT0CT	243455	05CONES	1	3/5	205 AEP	1370	1503	Base Case	0	157 /		11 20	0	0.41%	0.41%	-0.12%
1969 242941 03001001	138 250062 08METPSP	138 1	242341 03011001	250062	OSCONES	1	138	212 DEOLK	268	268	Base Case	0	30.8		11.49	0	-0.01%	-0.01%	-0.12%
1970 247802 053 PENDOR 00	138 247804 0505V013	138 1	247802 05APENDER CC	200002	05DEVOI A	1	130	205 250	200	410	Base Case	0	_33 0		11 /7	0	0.01%	0.10%	0.02%
1970 247802 USARENDSR SS	138 247804 05DEVOLA	100 1	247802 USARENDSK 55	247004	05DEVOLA	1	100	205 AEP	296	415	Base Case	0	-33.9		11.47	0	0.19%	0.19%	0.14%
1072 229951 02VD 0-1	120 242303 U3BKUESZ	120 1	242900 UJBRUES	242909	03BRUESZ	1	138	203 AEF	248	100	Dase Case	0	21 2		11 43	0	0.00%	0.00%	0.00%
1972 230051 UZKD Q-1	130 230037 U2KHTPQ1	130 1	230031 UZKD Q-1	236857	02KHIPQI	- 1	138	202 ATS1	2/3	332	Dase Case	0	31.2	-	11.43	0	0.00%	0.10%	0.00%
1974 252027 COOPERING	130 246942 USWARERD	100 L	243404 USADAMS	246942	OBCCURET	1	138	205 AEP	290	413	base Case	0	-33.8	-	11.43	0	1.10%	1.10%	0.07%
1974 253027 U9GREENE	345 253248 U9SCHARL	345 L	253027 09GREENE	253248	U95CHARL	1	345	209 DAY	1239	13/4	Base Case	0	141.5	-	11.42	0	-1.19%	-1.19%	-0.35%
1975 242559 U5BOLT Z	138 242820 05SUNDL1	138 1	242559 U5BOLT Z	242820	USSUNDL1	1	138	205 AEP	223	223	Base Case	0	25.4	-	11.38	0	-0.02%	-0.02%	0.18%
1970 238812 02HOYTDL	345 238813 02HOYTDL	138 2	238812 U2HOYTDL	238813	UZHOYTDL	2	345/138	202 ATSI	533	601	Base Case	0	60.5	-	11.34	0	-0.79%	-0.80%	-0.02%
1977 238894 02LF Q-4	138 239004 02NFLDQ4	138 1	238894 02LF Q-4	239004	UZNFLDQ4	1	138	202 ATSI	256	262	Base Case	0	-29	-	11.33	0	-0.14%	-0.14%	0.05%
1978 243320 05KANKAKEE2	138 245857 05KANKAKEE1	138 Z1	243320 05KANKAKEE2	245857	05KANKAKEE1	Z1	138	205 AEP	187	240	Base Case	0	-21.2	-	11.32	0	0.06%	0.06%	0.04%
1979 243316 05INDUST PK1	138 243338 05MCKINLEY3	138 1	243316 05INDUST PK1	243338	05MCKINLEY3	1	138	205 AEP	251	335	Base Case	0	-28.4	-	11.32	0	0.02%	0.02%	0.05%
1980 246915 05PRINCESS	138 247652 05HOODSCRK	138 1	246915 05PRINCESS	247652	05HOODSCRK	1	138	205 AEP	251	335	Base Case	0	-28.4	-	11.31	0	0.00%	0.00%	-0.01%

A	B C	D E	F	G	н	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
1981 243006 05FOSTOR 138 243137 05W.END FOS1 138 1	243006 05FOSTOR 2	43137 05W.END FOS1		1 138	205 AEP	296	296	Base Case	0	33.5		11.31	0	-0.10%	-0.10%	0.08%
1982 239154 02W FREM 138 239177 02WOODVT 138 1	239154 02W FREM 2	39177 02WOODVT		1 138	202 ATST	278	342	Base Case	0	31.4	-	11.3	0	0.13%	0.13%	-0.03%
1983 243470 05BELPPE 138 243496 05CONCRES SS 138 1	243470 05BET.PPE 2	A3496 05CONCRES SS		1 138	205 358	296	361	Base Case	0	33 4	-	11 29	0	0.24%	0.24%	0.14%
1004 250010 0000000 130 250117 00000011 120 1	240410 000EDFILE 2	50117 0000000111	-	1 130	203 AET	200	200	Dase Case	0	22.4		11.20	0	0.024/0	0.24%	0.01%
1095 240020 OFFILIDOR 245 24021 OFFILIDOR 115 1	230013 05EMW0D0 2	ACO21 OFFICIER		1 245/115	212 DECAR	255	255	Base Case	0	-33.0	-	11.24	0	-0.02/6	-0.02%	-0.01%
1905 240930 03BLOECK 343 240931 03BLOECK 113 1	240930 03BLOECK 2	40931 UJBLUECK		1 343/113	205 AEP	330	307	base case	0	-39.3	_	11.23	0	-0.03%	-0.03%	-0.03%
1986 243490 05CORNER 138 243565 05RIVERV S. 138 1	243490 05CORNER 2	43565 05RIVERV S.	1	1 138	205 AEP	240	282	Base Case	0	-26.9		11.22	0	0.06%	0.06%	-0.01%
1987 243370 05S.BEND1 138 246066 05S.BEND2 138 Z1	243370 05S.BEND1 2	46066 05S.BEND2	Z1	138	205 AEP	219	255	Base Case	0	-24.6	-	11.21	0	0.20%	0.20%	0.12%
1988 243319 05JAY 138 243358 05PENNVI 138 1	243319 05JAY 2	43358 05PENNVI		1 138	205 AEP	257	359	Base Case	0	28.7	-	11.18	0	0.01%	0.01%	0.06%
1989 242578 05CARB Z 138 242593 05CHEM 2 138 1	242578 05CARB Z 2	42593 05CHEM 2		1 138	205 AEP	296	296	Base Case	0	33	-	11.16	0	-0.04%	-0.04%	-0.02%
1990 238832 02JACKMA 138 239170 02WESTGT 138 1	238832 02JACKMA 2	39170 02WESTGT		1 138	202 ATSI	278	343	Base Case	0	31	-	11.15	0	0.05%	0.05%	-0.01%
1991 238735 02F0XQ14 138 241935 02CLINTON 138 1	238735 02F0XQ14 2	41935 02CLINTON		1 138	202 ATSI	355	434	Base Case	0	39.6	-	11.15	0	0.00%	0.00%	0.00%
1992 243514 05RJF CORP Z 138 243521 05HARMRH 138 1	243514 05RJF CORP Z 2	43521 05HARMRH		1 138	205 AEP	282	282	Base Case	0	31.4	-	11.13	0	-0.07%	-0.07%	-0.08%
1993 238534 02ANGOLA 138 239169 02WENTWT 138 1	238534 02ANGOLA 2	39169 02WENTWT		1 138	202 ATSI	278	342	Base Case	0	-30.9	-	11.13	0	0.00%	0.00%	-0.01%
1994 243256 05CABOT SS 138 243258 05CLEVEL 138 1	243256 05CABOT SS 2	43258 05CLEVEL		1 138	205 AEP	205	284	Base Case	0	-22.8	-	11.11	0	-0.04%	-0.04%	-0.02%
1995 243386 05VALLY 138 244076 05ALMENA 138 1	243386 05VALLY 2	44076 05ALMENA		1 1.38	205 AEP	296	413	Base Case	0	32.8	-	11.09	0	0.00%	0.00%	0.00%
1996 245533 05H0LLOWAY34 138 247852 05DLLESBTMZ2 138 1	245533 05HOLLOWAX34 2	47852 05DTLESBTM72		1 138	205 AFP	556	678	Base Case	0	-61 7	-	11 09	0	-0.10%	-0.10%	0.18%
1997 238812 02HOVEDI 345 238813 02HOVEDI 138 1	239912 02HOVTDI	20012 0200VTDI	-	1 345/139	203 ADE	530	601	Base Case	0	50 1		11.09	0	-0.78%	-0.78%	-0.02%
1009 240000 000W 1125 120 250007 0000000 120 1	230012 02001101 2	50007 Olgopour		1 120	212 PROCK	201	201	Base Case	0	22.2	_	11.00	0	-0.78%	-0.78%	-0.0276
1000 040702 054700 00DK0133 138 230097 0856K0VE 138 1	249988 U8BKJ133 2	ADDAT OFFETER	-	1 138	ZIZ DEO&K	291	291	Dase Case	U	-32.2	-	11.08	0	-0.07%	-0.07%	-0.04%
2000 040000 0500 010 010 010 010 010 010 010 01	242/03 USLEON A 2	4394/USKIPLEY	-	1 138	205 AEP	296	413	base Case	0	32.8	-	11.08	0	0.02%	0.02%	0.02%
2000/243229 USOLIVE 345 270771 GREENACRE; T 345 1	243229 050LIVE 2	/U//1 GREENACRE; T		1 345	205/222 AEP/CE	971	971	Base Case	0	107.3	-	11.05	0	0.75%	0.75%	0.54%
2001 242598 05CHNC Z 138 242809 05SPRIG1 138 1	242598 05CHNC Z 2	42809 05SPRIG1	1	1 138	205 AEP	167	167	Base Case	0	18.4	-	11.04	0	0.07%	0.07%	0.05%
2002 242688 05JOSHUA 138 242737 05OPOSSUMCK 138 1	242688 05JOSHUA 2	42737 050POSSUMCK		1 138	205 AEP	388	484	Base Case	0	42.8	-	11.04	0	0.00%	0.00%	-0.43%
2003 242621 05DARRH1 138 242622 05DARRH2 138 Z1	242621 05DARRH1 2	42622 05DARRH2	Z1	138	205 AEP	302	302	Base Case	0	33.3	-	11.04	0	-0.05%	-0.05%	0.00%
2004 249992 08CDRVL1 138 249993 08CDRVL2 138 Z1	249992 08CDRVL1 2	49993 08CDRVL2	Z1	138	212 DEO&K	516	573	Base Case	0	-56.7	-	11	0	0.03%	0.03%	0.03%
2005 243697 05LOVELY 138 246923 05NEWSOM 138 1	243697 05LOVELY 2	46923 05NEWSOM		1 138	205 AEP	251	335	Base Case	0	27.5	-	10.96	0	-0.07%	-0.07%	-0.12%
2006 247019 05NEVILLE SS 138 247862 05TUSCANY 138 1	247019 05NEVILLE SS 2	47862 05TUSCANY		1 138	205 AEP	427	601	Base Case	0	-46.8	-	10.95	0	-0.02%	-0.02%	0.09%
2007 246950 05TIMBSS 138 246951 05TIMBCS 138 Z1	246950 05TIMBSS 2	46951 05TIMBCS	Z1	138	205 AEP	167	245	Base Case	0	-18.3	-	10.94	0	-0.01%	-0.01%	-0.01%
2008 242521 05NAGEL 500 242729 05NAGEL 138 1	242521 05NAGEL 2	42729 05NAGEL		1 500/138	205 AEP	750	750	Base Case	0	81.9	-	10.92	0	-0.01%	-0.01%	0.14%
2009 238595 02BURTON 138 239056 02B.M. + 138 1	238595 02BUBTON 2	39056 02R.M. +		1 138	202 ATST	157	192	Base Case	0	-17.1		10.92	0	-0.01%	-0.01%	0.00%
2010 238813 02HOVTDI. 138 238991 02NCASTI. 138 2	238813 02HOVTDI 2	38991 02NCASTL		2 138	202 ATST	329	373	Base Case	0	35 9	-	10.92	0	0.14%	0.14%	0.04%
2011 238813 02HOVEDT 138 238801 02NCASTE 138 1	239913 02407701 2	38991 02NCASTL		1 139	202 ATSI	329	413	Base Case	0	35.0	-	10.92	0	0.14%	0.14%	0.04%
2012 238013 02101101 130 238351 02NCR311 130 1	230013 02101101 2	300501 02NCAS11		1 130	202 4151	200	242	Dase Case	0	21.0		10.92	0	0.14%	0.14%	0.119/
2012 236928 02LTV+ 138 236969 02MRGP + 138 1	238928 02LIV+ 2	38969 UZMRGP +	-	1 130	202 ATSI	200	242	Base Case	0	21.0	-	10.91	0	0.10%	0.10%	-0.11%
2013 238829 021VYQ14 138 240351 021V-NB+18 138 1	238829 021VYQ14 2	40351 021V-NB+18	-	1 138	202 ATS1	260	309	Base Case	U	-28.3	-	10.9	0	-0.03%	-0.03%	0.02%
2014 242988 05DOGWOO 138 242992 05E WHEE 138 1	242988 05DOGWOO 2	42992 05E WHEE	-	1 138	205 AEP	167	167	Base Case	0	-18.2		10.9	0	0.05%	0.05%	0.13%
2015 238868 02KPQ-13 138 238877 02LAQ-13 138 1	238868 02KPQ-13 2	38877 02LAQ-13	-	1 138	202 ATSI	347	423	Base Case	0	-37.8	-	10.9	0	0.00%	0.00%	0.00%
2016 243564 05RIVERV N. 138 243565 05RIVERV S. 138 Z1	243564 05RIVERV N. 2	43565 05RIVERV S.	Z1	138	205 AEP	248	310	Base Case	0	27	-	10.89	0	0.06%	0.06%	-0.01%
2017 242653 05GRANDV 138 242668 05HINTON 138 1	242653 05GRANDV 2	42668 05HINTON		1 138	205 AEP	383	449	Base Case	0	41.7	-	10.89	0	-0.08%	-0.08%	-0.72%
2018 238815 02IKQ-15 138 238880 02LTFQ15 138 1	238815 02IKQ-15 2	38880 02LTFQ15		1 138	202 ATSI	273	332	Base Case	0	29.6		10.86	0	0.01%	0.01%	-0.01%
2019 243349 05NEW CARLI2 138 246996 05PLETCH 138 1	243349 05NEW CARLI2 2	46996 05PLETCH		1 138	205 AEP	187	205	Base Case	0	20.3	-	10.85	0	-0.07%	-0.07%	-0.02%
2020 243020 05HILLVI 138 243056 05NEWCOM 138 1	243020 05HILLVI 2	43056 05NEWCOM		1 138	205 AEP	287	337	Base Case	0	-31.1	-	10.84	0	-0.42%	-0.43%	0.11%
2021 238505 02DELTA 138 238738 02FULTON 138 1	238505 02DELTA 2	38738 02FULTON		1 138	202 ATSI	288	346	Base Case	0	-31.1		10.81	0	0.07%	0.07%	0.00%
2022 242804 05SOURWO 138 247290 05HARMON 138 1	242804 05SOURWO 2	47290 05HARMON		1 138	205 AEP	223	223	Base Case	0	-24.1	-	10.79	0	0.07%	0.07%	-0.12%
2023 238693 02ELM 138 238825 02IVANHO 138 1	238693 02ELM 2	38825 02IVANHO		1 138	202 ATSI	275	333	Base Case	0	-29.7	-	10.78	0	-0.02%	-0.02%	0.00%
2024 243301 05GRANGE 138 243355 050NTWA8 SS 138 1	243301 05GRANGE 2	43355 050NTWA8 55		1 138	205 AEP	293	341	Base Case	0	-31.6	-	10.78	0	-0.02%	-0.02%	-0.04%
2025 245358 05PENGUINDP1 138 246177 05aNGUIN1-2 138 1a	245358 05PENGITNDP1 2	46177 05ANGUIN1-2	1 4	138	205 AEP	492	492	Base Case	0	-53	12	10 78	0	0.00%	0.00%	0.00%
2026 245358 050 ENCLIMENT 138 246177 05ANGUINT 2 138 1A	245358 05PENGUINDE1 2	46177 05ANGUIN1-2	18	130	205 AFP	102	192	Baen Case	0	_53	_	10.70	0	0.00%	0.00%	0.00%
2027 242925 05KAMMED 765 270162 AD2-067 MAD 765 1	242025 05FAMMED 22	70162 AD2-067 MAD	110	1 765	205 AFP	492	492	Page Case	0	-136 1		10.70	0	-6.30%	-6.30%	-2.04%
2021 242323 UJRAHHER /03 2/0102 AB2-00/ TAP /05 1	242723 UJRAPINEK 2	10102 AB2-00/ TAP	-	1 100	203 AEP	4047	4142	Dase Case	U	-430.1	-	10.78	0	0.04%	0.04%	0.249/
2020 242/05 USKENSFD 138 243422 USPOINTL 138 1	242/03 USKENSFD 2	43422 USPOINTL	-	1 138	205 AEP	180	227	base case	0	-19.4	-	10.77	0	-0.04%	-0.04%	-0.24%
2029 235707 UIWYLIE R 345 239368 02TORONTO 345 1	235707 01WYLIE R 2	39368 UZTORONTO	1	1 345	201/202 AP/ATSI	2504	2868	Base Case	0	269.6	-	10.77	0	4.86%	4.86%	2.25%
2030 247329 05STINGER 138 247330 05BRODY 138 1	247329 05STINGER 2	4/330 05BRODY	-	1 138	205 AEP	323	449	Base Case	0	34.8		10.76	0	-0.01%	-0.01%	-0.01%
2031 243016 05HANTHR 138 243125 05THAYER 138 1	243016 05HANTHR 2	43125 05THAYER		1 138	205 AEP	185	185	Base Case	0	-19.9	-	10.75	0	0.05%	0.05%	-0.05%
2032 250057 08M.FORT 138 250058 08M.FTGT 138 1	250057 08M.FORT 2	50058 08M.FTGT		1 138	212 DEO&K	266	266	Base Case	0	28.6	-	10.74	0	0.01%	0.01%	0.01%
2033 242510 05BAKER 765 242924 05HANG R 765 1	242510 05BAKER 2	42924 05HANG R		1 765	205 AEP	4047	4571	Base Case	0	-434.1	<u></u>	10.73	0	-2.86%	-2.86%	-5.94%
2034 242576 05CAPITOLH 138 247844 05CAPITOLH2 138 Z1	242576 05CAPITOLH 2	47844 05CAPITOLH2	Z1	138	205 AEP	747	747	Base Case	0	80.1		10.72	0	0.01%	0.01%	-0.09%
2035 246051 05DEER CRK2 138 246763 05PIPECK 138 1	246051 05DEER CRK2 2	46763 05PIPECK		1 138	205 AEP	257	360	Base Case	0	27.5	-	10.71	0	-0.03%	-0.03%	-0.05%
2036 243364 05RICHMO 138 243373 05SELMAP 138 1	243364 05RICHMO 2	43373 05SELMAP		1 138	205 AEP	164	167	Base Case	0	-17.6	-	10.71	0	-0.02%	-0.02%	-0.03%
2037 243482 05CENTBG 138 243488 05CONESVILLE 138 1	243482 05CENTBG 2	43488 05CONESVILLE		1 138	205 AEP	338	338	Base Case	0	-36.2		10.7	0	0.04%	0.04%	-0.01%
2038 242563 05BOXWD 138 246229 05REUSENS2 138 1	242563 05B0XWD 2	46229 05REUSENS2		1 138	205 AEP	167	167	Base Case	0	-17.8	-	10.68	0	-0.13%	-0.13%	-0.24%
2039 238908 02LONDON 138 240706 02NATTONAL 138 1	238908 02LONDON 2	40706 02NATTONAT		1 139	202 ATST	233	282	Base Case	0	-24 9	_	10 68	0	0.05%	0.05%	-0.01%
2040 243059 05NETNDI 139 243067 05NETNDO 139 1	243050 05NETNDT	13067 05NECODC	-	1 120	205 755	167	202	Base Case	0	_17 0		10.00	0	-0 10%	-0.10%	0.06%
138 1 136 24306/ USNWOODC 138 1	230000 00METINDE 2	1300/05000000		-1 130	200 1005	T01	240	hase case	U	-1/.O		10.0/	U	0.10/0	-0.1070	0.0070

	А	B C	D E	F	G	НІ	J	K L	М	N	0	Р	Q	R	S	T U
2041 238852 02KD Q-3	138 238858 02KHTPQ3 138 1	238852 02KD Q-3	238858 02KHTPQ3	1	138	202 ATSI	273	332 Base Case	0	29		10.64	0	0.00%	0.00%	0.00%
2042 247832 05LAMPING	345 247833 05LAMPING 138 1	247832 05LAMPING	247833 05LAMPING	1	345/138	205 AEP	450	450 Base Case	0	47.9	-	10.63	0	-0.15%	-0.15%	-0.14%
2043 250081 080AKLEY	138 250158 088MTRD.T 138 1	250081 0804KLEY	250158 088MTRD.T	1	138	212 DE0.6K	332	332 Base Case	0	-35 3	-	10 63	0	0.04%	0.04%	0.04%
2044 253071 09STDNEY	138 253072 09SPRING 138 1	253071 09STDNEY	253072 09SPRING	1	138	209 DAY	196	241 Base Case	0	-20.8	-	10.63	0	-0.05%	-0.05%	0.01%
2045 238884 021E 0-4	139 239072 0351KING 130 1	239994 021E 0-4	239973 02MX 0-4	1	130	200 541	273	232 Page Case	0	20.0		10.62	0	-0.14%	-0.14%	0.05%
2046 238754 02CE0_12	130 230375 02MA Q-4 150 1	238754 02CEO_12	230373 02MA Q-4	1	120	202 A151	425	532 Base Case	0	- 45		10.01	0	-0.14%	-0.14%	0.00%
2040 238754 02GFQ-12	130 230795 02HDGQ12 130 1	238754 02GFQ-12	238793 02HDGQ12	1	130	202 AISI	425	522 Dase Case	0	-43		10.6	0	-0.02%	-0.02%	0.00%
2047 238754 02GFQ-12	138 238922 0251EQ12 138 1	238754 02GFQ-12	238922 02LTEQ12		130	202 A151	425	JZZ Base Case	0	45	-	10.6	0	-0.02%	-0.02%	0.00%
2048 242/16 USMIDKIF	138 247243 05SHERID 138 1	242716 05MIDKIF	247243 USSHERID	1	138	205 AEP	296	378 Base Case	0	-31.4	-	10.6	0	-0.05%	-0.05%	-0.14%
2049 242629 05E.MONU	138 242770 05RIGIS 138 1	242629 USE.MONU	242770 USRIGIS	1	138	205 AEP	219	251 Base Case	0	23.2	-	10.58	0	0.02%	0.02%	0.19%
2050 242824 05TAMSM1	138 24/55/ 05MABSCOTT 138 1	242824 05TAMSM1	24/55/ 05MABSCOTT	1	138	205 AEP	158	183 Base Case	0	16.7		10.56	0	-0.03%	-0.03%	0.07%
2051 242531 05EDANV2	230 242632 05EDAN 2 138 4	242531 05EDANV2	242632 05EDAN 2	4	1 230/138	205 AEP	696	814 Base Case	0	73.5	-	10.56	0	0.30%	0.30%	3.35%
2052 243486 05CLINTX	138 243551 050SU 138 1	243486 05CLINTX	243551 050SU	1	138	205 AEP	129	171 Base Case	0	13.6	-	10.55	0	0.03%	0.03%	0.01%
2053 247801 05BUELL	138 247802 05ARENDSR SS 138 1	247801 05BUELL	247802 05ARENDSR SS	1	138	205 AEP	296	413 Base Case	0	-31.2	-	10.55	0	0.19%	0.19%	0.14%
2054 239146 02UTTP1	138 239149 02VULCAN 138 ZL	239146 02UTTP1	239149 02VULCAN	ZL	138	202 ATSI	290	325 Base Case	0	30.5		10.53	0	-0.06%	-0.06%	0.01%
2055 243297 05GERMAN	138 243352 05NTRDAM 138 1	243297 05GERMAN	243352 05NTRDAM	1	L 138	205 AEP	257	360 Base Case	0	27	-	10.5	0	-0.09%	-0.09%	-0.06%
2056 242945 05SW LIM	345 245977 05GRISTMILL 345 1	242945 05SW LIM	245977 05GRISTMILL	1	. 345	205 AEP	1409	1409 Base Case	0	147.9	-	10.49	0	0.45%	0.45%	-0.22%
2057 250172 08AERO	138 250173 08WDSPNT 138 1	250172 08AERO	250173 08WDSPNT	1	138	212 DEO&K	301	301 Base Case	0	-31.6	-	10.49	0	-0.01%	-0.01%	-0.01%
2058 243149 05W.LANCAST1	138 246021 05W.LANCAST2 138 Z1	243149 05W.LANCAST1	246021 05W.LANCAST2	Z1	138	205 AEP	383	449 Base Case	0	40.2	-	10.49	0	0.02%	0.02%	0.05%
2059 241237 02GROV TP	138 241935 02CLINTON 138 1	241237 02GROV TP	241935 02CLINTON	1	138	202 ATSI	278	339 Base Case	0	-29.1	-	10.48	0	0.22%	0.22%	0.02%
2060 243363 05REED	138 243366 05ROB PK12 138 1	243363 05REED	243366 05ROB PK12	1	138	205 AEP	219	251 Base Case	0	-23	-	10.48	0	-0.07%	-0.07%	-0.05%
2061 243012 05G WASHGTON	138 247852 05DILESBTMZ2 138 1	243012 05G WASHGTON	247852 05DILESBTMZ2	1	138	205 AEP	590	590 Base Case	0	61.8		10.47	0	-0.10%	-0.10%	0.18%
2062 250032 08FRFLD1	138 250040 08HALL2 138 1	250032 08FRFLD1	250040 08HALL2	1	138	212 DEO&K	198	198 Base Case	0	-20.7	-	10.45	0	0.02%	0.02%	-0.02%
2063 242939 05MARYSV	345 253251 09DAYMRY 345 1	242939 05MARYSV	253251 09DAYMRY	1	345	205/209 AEP/DAY	1255	1374 Base Case	0	131	-	10.44	0	0.03%	0.03%	0.02%
2064 243103 05SKENTO	138 243147 05WILDCRK SS 138 1	243103 05SKENTO	243147 05WILDCRK SS	1	138	205 AEP	158	180 Base Case	0	16.5	-	10.42	0	-0.10%	-0.10%	-0.04%
2065 238638 02CPP NH	138 239005 02NHTQ11 138 ZL	238638 02CPP NH	239005 02NHTQ11	ZL	138	202 ATSI	273	332 Base Case	0	-28.4	-	10.42	0	0.08%	0.08%	-0.02%
2066 245456 05NEWBERY	138 247001 05YELLOW CK2 138 1	245456 05NEWBERY	247001 05YELLOW CK2	1	138	205 AEP	296	413 Base Case	0	-30.8	-	10.4	0	0.06%	0.06%	0.10%
2067 243012 05G WASHGTON	138 247839 05DILLES BTM 138 1	243012 05G WASHGTON	247839 05DILLES BTM	1	138	205 AEP	590	590 Base Case	0	61.2	-	10.37	0	-0.10%	-0.10%	0.18%
2068 242928 05MARYSV	765 246999 05SOBENS 765 1	242928 05MABYSV	246999 05SOBENS	1	765	205 AEP	4047	4142 Base Case	0 -	-419.5	-	10.37	0	-5.34%	-5.34%	-3.50%
2069 242847 05WHARTZ	138 244187 05STINK BUN 138 1	242847 05WHARTZ	244187 05STINK BUN	1	138	205 AEP	205	284 Base Case	0	-21 2	-	10 35	0	0.01%	0.01%	0.02%
2070 238551 023VON	345 239725 02LAKEAVE 345 1	238551 023VON	239725 02LAKEAVE	1	345	200 1101	1560	1900 Base Case		-161 3	-	10.34	0	-1 22%	-1 22%	-0.05%
2071 243692 05437PD1	138 243603 05477DD2 138 71	243692 05437801	243693 05HA7PD2	71	139	205 AFP	197	240 Base Case	0	_10 3	-	10.34	0	-0.10%	-0.10%	-0.05%
2072 242521 05NACEL	500 242720 05NACEL 128 2	243632 05HAZKDI	243033 05HAZKD2		500/129	205 AEP	705	240 Base Case	0	01 0		10.34	0	-0.10%	-0.10%	0.14%
2072 232521 USNAGEL	120 22723 03NAGEL 130 3	242521 05NAGEL	242729 03NAGEL	1	120	200 AEF	265	200 Base Case	0	01.9		10.3	0	-0.01%	-0.01%	0.14%
2073 238699 02ENQ-12	130 242502 05VENDER 120 1	238699 02ENQ-12	238739 02FWL5QI	1	100	202 ATSI	205	077 Dase Case	0	-27.5		10.3	0	-0.09%	-0.09%	0.00%
2074 243502 05E.BROAD	138 243592 USYEARLG 138 1	243502 05E.BROAD	243592 USIEARLG	1	138	205 AEP	240	277 Base Case	0	24.7		10.29	0	0.05%	0.05%	0.00%
2075 246606 05WETZEL SS	138 247095 05WILLIAM TH 138 1	246606 USWETZEL SS	247095 USWILLIAM TH	1	138	205 AEP	185	257 Base Case	0	19	-	10.27	0	0.00%	0.00%	0.00%
2076 242972 05BLOOMFD SS	138 243135 05W DOVE 138 1	242972 USBLOOMFD SS	243135 05W DOVE	1	138	205 AEP	296	361 Base Case	0	30.3	-	10.25	0	-0.47%	-0.47%	0.10%
2077 238685 02EASTLK	138 241923 02ELQ3 138 1	238685 02EASTLK	241923 U2ELQ3	1	138	202 ATSI	999	999 Base Case	0	102.2	-	10.23	0	0.03%	0.03%	-0.01%
2078 242528 05SPORN	345 242529 05TRISTA 345 1	242528 05SPORN	242529 USTRISTA	1	. 345	205 AEP	1132	1132 Base Case	0 -	-115.8		10.23	0	-0.18%	-0.18%	0.56%
2079 247839 05DILLES BTM	138 24/840 05DILESBTMZ1 138 1	247839 05DILLES BTM	24/840 05DILESBTMZ1	1	138	205 AEP	590	590 Base Case	0	60.4	-	10.23	0	-0.10%	-0.10%	0.18%
2080 242563 05BOXWD	138 247632 05AMHERST 138 1	242563 05BOXWD	247632 05AMHERST	1 1	138	205 AEP	219	251 Base Case	0	-22.4	-	10.23	0	-0.16%	-0.16%	-0.41%
2081 242670 05HOLST2	138 242830 05TENNE2 138 2	242670 05HOLST2	242830 05TENNE2	2	2 138	205 AEP	68	68 Base Case	0	7	-	10.23	0	0.00%	0.00%	0.02%
2082 242750 05PHILPOTT Z	138 242844 05W.BASS 138 1	242750 05PHILPOTT Z	242844 05W.BASS	1	138	205 AEP	202	202 Base Case	0	-20.7	-	10.22	0	0.05%	0.05%	0.53%
2083 243060 05NINTIE	138 243156 05W.NEW PHIL 138 1	243060 05NINTIE	243156 05W.NEW PHIL	1	138	205 AEP	285	291 Base Case	0	29.1	-	10.21	0	0.42%	0.42%	-0.10%
2084 238667 02DUALR+	138 239073 02ROBERT 138 1	238667 02DUALR+	239073 02ROBERT	1	138	202 ATSI	190	225 Base Case	0	19.4	-	10.21	0	0.07%	0.07%	-0.08%
2085 243294 05FLWRFD8 SS	138 243345 05MOORPK 138 1	243294 05FLWRFD8 SS	243345 05MOORPK	1	138	205 AEP	251	251 Base Case	0	25.6	-	10.2	0	-0.01%	-0.01%	-0.01%
2086 238551 02AVON	345 239725 02LAKEAVE 345 2	238551 02AVON	239725 02LAKEAVE	2	2 345	202 ATSI	1560	1900 Base Case	0	-159	~	10.19	0	-1.20%	-1.20%	-0.05%
2087 244287 05WOLF GLADE	138 245117 05W.CARROLL 138 1	244287 05WOLF GLADE	245117 05W.CARROLL	1	138	205 AEP	251	251 Base Case	0	-25.6	-	10.18	0	0.03%	0.03%	0.07%
2088 242766 05RICHLA	138 247149 05WHITWD 138 1	242766 05RICHLA	247149 05WHITWD	1	138	205 AEP	296	398 Base Case	0	30.1	-	10.17	0	0.06%	0.06%	0.17%
2089 242519 05CLOVRD	500 242524 05CLOVRD 345 16	242519 05CLOVRD	242524 05CLOVRD	16	5 500/345	205 AEP	1733	1758 Base Case	0	176	-	10.15	0	1.05%	1.05%	0.74%
2090 242519 05CLOVRD	500 242524 05CLOVRD 345 15	242519 05CLOVRD	242524 05CLOVRD	15	5 500/345	205 AEP	1733	1759 Base Case	0	176	~	10.15	0	1.05%	1.05%	0.74%
2091 243030 05LIMAOR	138 243099 05SHAWNR 138 1	243030 05LIMAOR	243099 05SHAWNR	1	138	205 AEP	335	388 Base Case	0	-34	-	10.15	0	0.09%	0.09%	0.12%
2092 242547 05BAILS2	138 242833 05TRAILF 138 1	242547 05BAILS2	242833 05TRAILF	1	138	205 AEP	334	334 Base Case	0	33.7	-	10.1	0	0.00%	0.00%	-0.30%
2093 238605 02CARDNT	138 238746 02GALION 138 1	238605 02CARDNT	238746 02GALION	1	138	202 ATSI	145	145 Base Case	0	-14.6		10.1	0	0.01%	0.01%	-0.02%
2094 239109 02SHRPQS	138 239199 02WN-STL 138 1	239109 02SHRPQS	239199 02WN-STL	1	138	202 ATSI	160	192 Base Case	0	-16.1	-	10.07	0	-0.07%	-0.07%	0.01%
2095 243490 05CORNER	138 243533 05LAYMAN 138 1	243490 05CORNER	243533 05LAYMAN	1	138	205 AEP	205	284 Base Case	0	-20.6	-	10.06	0	-0.43%	-0.43%	-0.23%
2096 239103 02SHARON	138 239109 02SHRPQS 138 1	239103 02SHARON	239109 02SHRPQS	1	138	202 ATSI	160	192 Base Case	0	-16.1	-	10.05	0	-0.07%	-0.07%	0.01%
2097 242592 05CHEM 1	138 242836 05TURNE1 138 1	242592 05CHEM 1	242836 05TURNE1	1	138	205 AEP	296	296 Base Case	0	-29.7		10.04	0	-0.03%	-0.03%	-0.02%
2098 242651 05GLENL2	138 242749 05PETERM 138 1	242651 05GLENL2	242749 05PETERM	1	138	205 AEP	205	205 Base Case	0	20.6	-	10.04	0	-0.11%	-0.11%	-0.25%
2099 242943 05SCANTO	345 242944 05SECANT 345 1	242943 05SCANTO	242944 05SECANT	1	345	205 AEP	1409	1409 Base Case	0	141.2	-	10.02	0	-0.33%	-0.33%	0.49%
2100 242782 05RUTH	138 242836 05TURNE1 138 1	242782 05RUTH	242836 05TURNE1	1	138	205 AEP	729	729 Base Case	0	-73	-	10.01	0	-0.09%	-0.09%	-0.17%
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2101 243378 05SPY RUN2	138 246993 05PURDUE	138 1	243378	05SPY RUN2	246993	05PURDUE	1	138	205 AEP	296	392	Base Case	0	-29.6	-	10.01	0	0.00%	0.00%	-0.03%
2102 243851 05CENTRM	138 243852 05CENT27	138 1	243851	05CENTRM	243852	05CENT27	1	L 138	205 AEP	205	205	Base Case	0	-20.5	-	9.99	0	0.00%	0.00%	0.00%
2103 250100 08SMRSD1	138 250142 08WARDSC	138 1	250100	08SMRSD1	250142	08WARDSC	1	L 138	212 DEO&K	249	249	Base Case	0	24.8	-	9.96	0	0.02%	0.02%	0.03%
2104 243525 05HUNTLEY1	138 243535 05LINWRT	138 1	243525	05HUNTLEY1	243535	05LINWRT	1	138	205 AEP	216	216	Base Case	0	21.5	-	9.94	0	0.02%	0.02%	0.01%
2105 250072 08MTCHL1	138 250073 08MTCHL3	138 Z1	250072	08MTCHL1	250073	08MTCHL3	Z1	138	212 DEO&K	394	394	Base Case	0	39.1	-	9.92	0	-0.03%	-0.03%	-0.02%
2106 238757 02GLCBST	138 238873 02LAKMOR	138 1	238757	02GLCBST	238873	02LAKMOR	1	138	202 ATST	157	196	Base Case	0	-15.5	-	9.89	0	-0.04%	-0.04%	0.05%
2107 243684 05DEWEY	138 244008 05STANVILLE1	138 1	243684	05DEWEY	244008	05STANVILLE1	1	1 138	205 AEP	223	223	Base Case	0	22.1	_	9.89	0	-0.01%	-0.01%	-0.17%
2108 239055 02015TAP	138 239349 02MTLCHM	138 1	239055	02015738	239349	02MTLCHM	1	130	202 2051	273	332	Base Case	0	27	-	9.09	0	0.00%	0.00%	0.00%
2100 239703 02ESPENC	139 240709 02N TITUS	130 1	239033	02gijini 02geddno	2/0700	02M TTTUS	1	130	202 ATST	200	242	Base Case	0	_10.9		0.00	0	0.00%	0.00%	0.03%
2110 242525 OFKANAWU	245 242526 05KANAWZ	245 70	230703	OEKANAWU	240705	OEKANAMZ	70	246	205 AFD	1404	1505	Base Case	0	147.4		9.00	0	0.60%	0.60%	2.24%
2111 242525 05KANAWH	120 242027 05CANAWZ	120 1	242525	OSTANAWH	242520	05KANAWZ	4D 1	120	205 AEF	1454	1393	Dase Case	0	147.4		9.07	0	-0.09%	-0.09%	-2.34%
2111 242681 USIVY HL	138 243857 05COFFEE	138 1	242681	USIVY HL	243857	USCOFFEE		138	205 AEP	167	245	Base Case	U	16.5	-	9.86	0	-0.01%	-0.01%	-0.23%
2112 243263 USCOLUMBIA	138 255163 1/NORTHEAST	138 1	243263	05COLUMBIA	255163	I /NORTHEAST		L 138	205/21/AEP/NIPS	143	143	Base Case	0	-14.1	-	9.86	0	-0.09%	-0.09%	-0.07%
2113 242670 05HOLST2	138 244508 05RIGGS	138 1	242670	05HOLST2	244508	05RIGGS		138	205 AEP	117	117	Base Case	0	-11.5	-	9.86	0	0.03%	0.03%	0.27%
2114 243107 05SPENCR	138 244230 05SUNDAY SS	138 1	243107	05SPENCR	244230	05SUNDAY SS	1	1 138	205 AEP	259	325	Base Case	0	-25.5		9.85	0	-0.14%	-0.14%	0.15%
2115 243493 05CRVERD	138 245962 05DLAWAR3	138 1	243493	05CRVERD	245962	05DLAWAR3	1	138	205 AEP	293	341	Base Case	0	-28.9	-	9.85	0	-0.04%	-0.04%	0.01%
2116 242519 05CLOVRD	500 242512 05CLOVRD	765 14	242519	05CLOVRD	242512	05CLOVRD	14	1 500/765	205 AEP	2590	2877	Base Case	0	-254.9	-	9.84	0	-3.49%	-3.49%	-2.88%
2117 242974 05BUCKLR	138 244341 05SOFTAIL SS	138 1	242974	05BUCKLR	244341	05SOFTAIL SS	1	L 138	205 AEP	251	251	Base Case	0	-24.7	-	9.84	0	-0.01%	-0.01%	0.00%
2118 239027 020ILEVS	138 239191 02JMDUTC	138 1	239027	020ILEVS	239191	02JMDUTC	1	L 138	202 ATSI	308	376	Base Case	0	30.3	-	9.83	0	0.05%	0.05%	0.01%
2119 242965 05BRIDGEVILZ	138 242972 05BLOOMFD SS	138 1	242965	05BRIDGEVILZ	242972	05BLOOMFD SS	1	L 138	205 AEP	335	392	Base Case	0	32.9	-	9.81	0	-0.47%	-0.47%	0.10%
2120 238589 02BRUSH	138 239161 02WAKRON	138 1	238589	02BRUSH	239161	02WAKRON	1	L 138	202 ATSI	143	146	Base Case	0	-14	-	9.77	0	-0.02%	-0.02%	0.08%
2121 242582 05CARWLZ	138 242833 05TRAILF	138 1	242582	05CARWLZ	242833	05TRAILF	1	L 138	205 AEP	334	334	Base Case	0	-32.6	-	9.77	0	0.00%	0.00%	-0.30%
2122 243262 05COLLEGE C	138 243310 05HODGIN	138 1	243262	05COLLEGE C	243310	05HODGIN	1	138	205 AEP	219	247	Base Case	0	21.4	-	9.75	0	0.04%	0.04%	0.05%
2123 242784 05S.BLUE	138 247850 05TOWN CREEK	138 1	242784	05S.BLUE	247850	05TOWN CREEK	1	L 138	205 AEP	296	413	Base Case	0	-28.9	-	9.75	0	0.04%	0.04%	0.19%
2124 246946 05WLDCAT	138 247034 05EMERSS	138 1	246946	05WLDCAT	247034	05EMERSS	1	L 138	205 AEP	185	185	Base Case	0	-18	-	9.74	0	-0.06%	-0.06%	0.01%
2125 242533 05ABINGD	138 246779 05S.ABINGDN2	138 1	242533	05ABINGD	246779	05S.ABINGDN2	1	L 138	205 AEP	167	240	Base Case	0	16.3	-	9.73	0	0.00%	0.00%	-0.14%
2126 242603 05CLIFFR	138 242613 05COLLEEN SS	138 1	242603	05CLIFFR	242613	05COLLEEN SS	1	L 138	205 AEP	167	167	Base Case	0	16.2	-	9.72	0	-0.30%	-0.30%	-0.65%
2127 242615 05COPPER	138 242667 05HILL	138 1	242615	05COPPER	242667	05HILL	1	L 138	205 AEP	219	223	Base Case	0	21.3	-	9.71	0	-0.02%	-0.02%	-0.20%
2128 246988 05STRWIN	138 247116 05ALADDIN	138 1	246988	05STRWTN	247116	05ALADDIN	J	138	205 AEP	257	360	Base Case	0	25	-	9.71	0	-0.02%	-0.02%	-0.01%
2129 238693 02ELM	138 238748 02GARDEN	138 1	238693	02ELM	238748	02GARDEN	1	138	202 ATSI	157	196	Base Case	0	15.2	-	9.69	0	-0.04%	-0.04%	0.00%
2130 238685 02EASTLK	138 241925 02EL05	138 1	238685	02EASTLK	241925	02EL05	1	138	202 ATST	999	999	Base Case	0	96.7	-	9.68	0	0.14%	0.14%	-0.05%
2131 242530 05EDANV1	230 242631 05EDAN 1	138 5	242530	05EDANV1	242631	05EDAN 1	6	5 230/138	205 AEP	820	926	Base Case	0	79.2	-	9.65	0	0.30%	0.30%	3 39%
2132 247371 05MUSKNG1B	138 247372 05MUSKNG1C	138 71	247371	05MUSKNG1B	247372	05MUSKNG1C	71	138	205 AEP	766	898	Base Case	0	73.9	-	9.65	0	-0.06%	-0.06%	0.06%
2133 242554 05BTM	138 242847 05WHAPT7	138 1	242554	05BTM	242847	05WHARTZ	1	130	205 AEP	205	255	Base Case	0	-19.8	-	9.65	0	0.01%	0.00%	0.02%
2134 239705 02PT 0-2	138 240250 02CHTAO-2	130 1	232705	02ET 0-2	242047	02CHTAO-2	1	130	202 ATCT	203	230	Base Case	0	-26.2		0.05	0	0.01%	0.00%	0.00%
2125 250070 02E1 Q-2	130 240230 02CHIAQ-2	120 1	250705	02E1 Q=2	240230	02CHIAQ=2	1	1 120	202 AISI 212 DEOKK	273	332	Base Case	0	-20.2		9.0	0	0.00%	0.00%	0.06%
2135 230079 08NWTWN1	138 250092 08REDBR1	138 1	230079	05 NWTWNI	250092	OSKEDBKI		138	212 DEO&K	332	332	Base Case	0	31.8	-	9.59	0	0.00%	0.00%	0.00%
2130 242543 USAUSTIN	138 242859 05WYTHE2	138 1	242543	USAUSTIN	242859	U5WYTHE2		138	205 AEP	251	251	Base Case	0	-24.1	-	9.58	0	-0.02%	-0.02%	-0.06%
2137 243256 05CABOT SS	138 243336 USMANORZ	138 1	243256	05CABOT SS	243336	USMANORZ		138	205 AEP	205	284	Base Case	0	19.6	-	9.58	0	-0.04%	-0.04%	-0.02%
2138 243473 05BIXBY	138 243552 05PICKR8	138 1	243473	05BIXBY	243552	05PICKR8	1	138	205 AEP	296	413	Base Case	0	28.4		9.58	0	-0.09%	-0.09%	-0.02%
2139 243237 05ADAM	138 243358 05PENNVI	138 1	243237	05ADAM	243358	05PENNVI	1	138	205 AEP	257	359	Base Case	0	-24.6	-	9.58	0	0.01%	0.01%	0.06%
2140 239016 02NT Q15	138 241924 02ELQ4	138 1	239016	02NT Q15	241924	02ELQ4	1	138	202 ATSI	225	295	Base Case	0	-21.5	-	9.58	0	0.02%	0.02%	-0.01%
2141 238790 02HCQ-13	138 239051 02PV Q3	138 1	238790	02HCQ-13	239051	02PV Q3	1	L 138	202 ATSI	225	295	Base Case	0	-21.5	-	9.57	0	-0.05%	-0.05%	-0.01%
2142 246202 05WARTON CC	138 246928 05WARTON H1	138 Z1	246202	05WARTON CC	246928	05WARTON H1	Z1	138	205 AEP	293	341	Base Case	0	-28	-	9.56	0	0.00%	0.00%	0.00%
2143 238516 02JOHNMANDEF	138 238785 02JOHNMAN-2	138 1	238516	02JOHNMANDEF	238785	02JOHNMAN-2	1	L 138	202 ATSI	216	264	Base Case	0	-20.6	-	9.54	0	0.00%	0.00%	0.00%
2144 238531 02ALLNJ	138 239345 02SIL_AE+	138 1	238531	02ALLNJ	239345	02SIL_AE+	1	L 138	202 ATSI	278	339	Base Case	0	26.5	-	9.53	0	0.05%	0.05%	0.00%
2145 238517 02LYONS	138 239345 02SIL_AE+	138 1	238517	02LYONS	239345	02SIL_AE+	1	L 138	202 ATSI	278	287	Base Case	0	-26.5	-	9.53	0	0.05%	0.05%	0.00%
2146 247800 05MACKSBURG	138 247801 05BUELL	138 1	247800	05MACKSBURG	247801	05BUELL	1	L 138	205 AEP	296	413	Base Case	0	-28.2	-	9.52	0	0.19%	0.19%	0.14%
2147 238867 02KPQ-12	138 238876 02LAQ-12	138 1	238867	02KPQ-12	238876	02LAQ-12	1	L 138	202 ATSI	355	434	Base Case	0	-33.8	-	9.52	0	0.00%	0.00%	0.00%
2148 238768 02GRNFLD	138 238981 02NASA	138 1	238768	02GRNFLD	238981	02NASA	1	L 138	202 ATSI	160	192	Base Case	0	15.2	-	9.51	0	-0.22%	-0.22%	-0.04%
2149 243671 05BEAVER CR1	138 243683 05CONSTP	138 1	243671	05BEAVER CR1	243683	05CONSTP	1	L 138	205 AEP	251	309	Base Case	0	23.8	-	9.5	0	0.04%	0.04%	0.04%
2150 243023 05HOCKNG	138 243149 05W.LANCAST1	138 1	243023	05HOCKNG	243149	05W.LANCAST1	1	L 138	205 AEP	196	247	Base Case	0	18.6	-	9.49	0	-0.01%	-0.01%	0.07%
2151 243683 05CONSTP	138 243875 05SOFTSH	138 1	243683	05CONSTP	243875	05SOFTSH	1	138	205 AEP	251	309	Base Case	0	23.8	-	9.48	0	0.04%	0.04%	0.04%
2152 243020 05HILLVI	138 243156 05W.NEW PHIL	138 1	243020	05HILLVI	243156	05W.NEW PHIL	1	L 138	205 AEP	277	277	Base Case	0	26.2	-	9.45	0	-0.42%	-0.43%	0.11%
2153 250068 08MPLKL1	138 250131 08WILEY2	138 1	250068	08MPLKL1	250131	08WILEY2	1	138	212 DE0&K	308	308	Base Case	0	-29	22	9.41	0	-0.01%	-0.01%	0.00%
2154 238506 02DTXTE	138 238832 02.JACKMA	138 1	238506	02DIXIE	238832	02JACKMA	1	138	202 ATST	235	288	Base Case	0	22.1	-	9.38	0	0.08%	0.08%	-0.01%
2155 242513 05CULLOD	765 242923 05GAVIN	765 1	242513	05CULLOD	242923	05GAVIN	1	765	205 AEP	4047	4571	Base Case	0	-379.2	-	9.37	0	0.76%	0.76%	-5.70%
2156 250094 08RMNTN1	138 250095 08RMNTN2	138 71	250004	08RMNTN1	250095	08RMNTN2	21	139	212 DEOAK	298	299	Base Case	0	-27 8	_	9.37	0	0.01%	0.01%	0.03%
2157 239215 02BDTCUT	138 239319 02CAMDEN	138 1	230034	02BRIGHT	230230	02CAMDEN	1	1 1 20	202 ATCT	200	250	Base Case	0	-27 /	122	9.33	0	0.01%	0.01%	-0.11%
2158 242537 053MOC	138 247013 05000VC	138 1	239213	05AMOS	233319	05CROOVC		1 120	202 4131	204	207	Base Case	0	27.4	-	9.32	0	0.06%	0.06%	0.02%
2150 242557 USAMUS	139 243600 050300000	130 I	242037	05POPIND	24/013	05UATET D		1 120	205 AEP	290	290	Base Case	0	-27 6		9.52	0	-0.00%	-0.00%	-0.02%
2159 242562 USBORLND	130 243090 USHATFLD	130 55	242562	U SBORLIND	243690	OCALLEN O	70	138	205 AEP	296	370	Dase Case	0	-2/.6	-	9.32	0	-0.04%	-0.04%	-0.00%
2100 238531 02ALLNJ	138 239344 02ALLEN-2	138 ZB	238531	UZALLNJ	239344	UZALLEN-2	ZB	138	202 ATSI	563	563	Base Case	0	-52.4	-	9.31	0	-0.01%	-0.01%	0.00%
A	B C	D	E	F	G	н і	J	К	Ĺ	М	N	0	Р	Q	R	S	T U			
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2161 243123 05SWITZE 138 247757 05HERLAN SW 138 1	243123 05SWITZE	247757 0	5HERLAN SW	1	138	205 AEP	205	284	Base Case	0	19.1	-	9.31	0	0.14%	0.14%	-0.03%			
2162 238893 02LF 0-2 138 238972 02MX 0-2 138 1	238893 02LE 0-2	238972 0	2MX 0-2	1	138	202 ATST	273	332	Base Case	0	25.4	-	9.3	0	-0.15%	-0.15%	0.04%			
2163 238972 02MX 0-2 138 239020 02NW 0-2 138 1	238972 02MV 0-2	239020 0	12NW 0=2	1	138	202 ATST	273	332	Base Case	0	25.4	_	9.29	0	-0.15%	-0.15%	0.04%			
2164 242666 06DIATNE 120 242642 06EDANKE 120 1	2435572 02HA Q 2	242642 0	EDDANKE	1	130	202 AISI	210	222	Dase Case	0	20.3		0.20	0	0.13%	0.13%	0.10%			
2104 242555 05BLAINE 150 242045 05FRANKS 150 1	242333 03BLAINE	242045 0	SPRANKS	1	100	200 AEF	219	243	Dase Case	0	10.0	-	9.29	0	0.04%	0.04%	-0.1378			
2105 239334 02HARMON 138 247700 031AGER 138 1	239334 02HARMON	2477000	5 GOLD	1	130	202/203 A131/AEP	200	1400	base case	0	-10.0		9.20	0	-0.03%	-0.03%	0.04%			
2166 243457 USHAYDEN 345 244022 USCOLE 345 1	243457 USHAYDEN	244022 0	JSCOLE	1	345	205 AEP	1409	1409	Base Case	U	-130.5	-	9.26	0	-0.48%	-0.48%	-0.02%			
2167 250091 08RCHLE3 138 250146 08WHITTR 138 1	250091 08RCHLE3	250146 0	8WHITTR	1	138	212 DEO&K	289	289	Base Case	0	-26.7	-	9.25	0	0.00%	0.00%	-0.03%			
2168 238837 02JGSQ14 138 240247 02CK TP15 138 1	238837 02JGSQ14	240247 0	2CK TP15	1	138	202 ATSI	223	286	Base Case	0	20.5	-	9.21	0	-0.01%	-0.01%	0.01%			
2169 243491 05CORRID 138 243513 05GENOA 138 1	243491 05CORRID	243513 0	5GENOA	1	138	205 AEP	338	407	Base Case	0	31.1	-	9.21	0	0.03%	0.03%	0.00%			
2170 242805 05HATCHR 138 246898 05HALLSR 138 1	242805 05HATCHR	246898 0)5HALLSR	1	138	205 AEP	334	334	Base Case	0	-30.7	-	9.2	0	-0.20%	-0.20%	-0.37%			
2171 242574 05CABIN CRK1 138 246409 05CABIN C T8 138 ZK	242574 05CABIN CRK1	246409 0	5CABIN C T8	ZK	138	205 AEP	369	369	Base Case	0	33.9	-	9.19	0	0.01%	0.01%	0.00%			
2172 243141 05WARNER 138 246126 05SUNNYSIDE2 138 1	243141 05WARNER	246126 0	5SUNNYSIDE2	1	138	205 AEP	224	287	Base Case	0	-20.6	-	9.18	0	0.27%	0.27%	-0.04%			
2173 241111 02ASHLAND 138 243024 05HOWARD 138 1	241111 02ASHLAND	243024 0	5HOWARD	1	138	202/205 ATSI/AEP	167	245	Base Case	0	-15.3	-	9.18	0	-0.29%	-0.29%	-0.02%			
2174 243453 05BEATTY 345 253248 09SCHARL 345 1	243453 05BEATTY	253248 0	9SCHARL	1	345	205/209 AEP/DAY	1096	1203	Base Case	0	-100.4	-	9.16	0	-1.23%	-1.23%	-0.36%			
2175 243485 05CLINTO 138 243486 05CLINTX 138 SR	243485 05CLINTO	243486 0	5CLINTX	SR	138	205 AEP	149	162	Base Case	0	13.6	-	9.14	0	0.03%	0.03%	0.01%			
2176 245799 05WILLIAM PT 138 247128 05ASTNSS 138 Z1	245799 05WILLIAM PT	247128 0	5ASTNSS	Z1	138	205 AEP	219	255	Base Case	0	-20	-	9.13	0	0.00%	0.00%	0.00%			
2177 245799 05WILLIAM PT 138 247128 05ASTNSS 138 72	245799 05WTLLTAM PT	247128 0	5ASTNSS	7.2	138	205 AEP	219	255	Base Case	0	-20	-	9.13	0	0.00%	0.00%	0.00%			
2178 245799 05WILLIAM PT 138 247128 05ASTNSS 138 23	245799 05WILLIAM PT	247128 0	SASTNSS	73	138	205 AEP	219	255	Base Case	0	-20	-	9,13	0	0.00%	0.00%	0.00%			
2179 242597 05CHNC 138 242598 05CHNC Z 138 1	242597 05CHNC	242598 0	SCHNC Z	1	138	205 AEP	136	167	Base Case	0	-12.4	_	9,13	0	-0.01%	-0.01%	-0.02%			
2180 238836 02JGS013 138 240245 020K 013 139 1	238836 02 70013	240245 0	12CK 013	1	120	202 205	103	130	Base Case	0	Q /	_	a 11	0	0.00%	0.00%	0.00%			
2181 240250 02000213 130 240243 0200 213 130 1	240259 02500213	210240	201 Q13	1	120	202 101	202	134	Page Case	0	20.4		2.11	0	0.10%	0.10%	0.01%			
2192 242222 0220 0220 0210 120 120 120 120 120	240200 02102-13	240201 0	EMACLEY	1	100	202 A151	303	434	Dase Case	0	22.3	-	9.1	0	0.10%	0.10%	0.01%			
2102 243237 USADAM 138 243334 USMAGLEY 138 1	243237 05ADAM	243334 0	JOMAGLEI	1	138	205 AEP	257	359	Base Case	0	-23.4	_	9.09	0	0.00%	0.00%	-0.06%			
2183 242989 05E LIMA 138 243017 05HAVILANDI 138 1	242989 05E LIMA	24301/0	5HAVILANDI	1	138	205 AEP	205	284	Base Case	0	-18.6	-	9.05	0	-0.17%	-0.17%	-0.06%			
2184 243476 05BOLINSMLSS 138 247791 05ELK 138 1	243476 05BOLINSMLSS	247791 0)5ELK	1	138	205 AEP	323	355	Base Case	0	-29.2	-	9.03	0	-0.06%	-0.06%	0.07%			
2185 243238 05AIRCO 138 247489 05BOSSERMAN 138 1	243238 05AIRCO	247489 0	5BOSSERMAN	1	138	205 AEP	251	335	Base Case	0	-22.7	-	9.03	0	0.00%	0.00%	0.00%			
2186 243247 05AUBURN 138 243267 05COUNTY 138 1	243247 05AUBURN	243267 0	5COUNTY	1	138	205 AEP	323	392	Base Case	0	-29.1	-	9.02	0	0.02%	0.02%	0.02%			
2187 242662 05HALES2 138 242804 05SOURWO 138 1	242662 05HALES2	242804 0	5SOURWO	1	138	205 AEP	223	223	Base Case	0	-20.1	-	9	0	0.07%	0.07%	-0.12%			
2188 247799 05S.OLIVE SS 138 247800 05MACKSBURG 138 1	247799 05S.OLIVE SS	247800 0	5MACKSBURG	1	138	205 AEP	296	400	Base Case	0	-26.6	-	8.99	0	0.19%	0.19%	0.14%			
2189 238828 02IVYQ11 138 240350 02IV-NB+17 138 1	238828 02IVYQ11	240350 0	2IV-NB+17	1	138	202 ATSI	273	332	Base Case	0	-24.5	-	8.98	0	-0.06%	-0.06%	0.02%			
2190 239011 02NP Q-1 138 241921 02ELQ1 138 1	239011 02NP Q-1	241921 0	2ELQ1	1	138	202 ATSI	265	316	Base Case	0	-23.8	-	8.97	0	0.02%	0.02%	-0.01%			
2191 243065 05NSTRAS 138 243092 05SCANTO 138 1	243065 05NSTRAS	243092 0	5SCANTO	1	138	205 AEP	296	296	Base Case	0	-26.5	-	8.96	0	0.48%	0.48%	-0.10%			
2192 235104 01CABOT 500 239280 02CRNBRY 500 1	235104 01CABOT	239280 0	2CRNBRY	1	500	201/202 AP/ATSI	3300	3897	Base Case	0	294.9	-	8.94	0	10.53%	10.53%	-1.43%			
2193 243668 05WOOTON 161 324148 5HYDEN 161 1	243668 05WOOTON	324148 5	HYDEN	1	161	205/363 AEP/LGEE	300	405	Base Case	0	-26.8		8.94	0	-0.10%	-0.10%	-0.09%			
2194 243246 05AUBUNC 138 243295 05GARRETT N 138 1	243246 05AUBUNC	243295 0	GARRETT N	1	138	205 AEP	251	335	Base Case	0	22.4	-	8.93	0	0.05%	0.05%	0.03%			
2195 243065 05NSTRAS 138 243114 05STRASB 138 1	243065 05NSTRAS	243114 0	5STRASB	1	138	205 AEP	287	299	Base Case	0	25.6	-	8.91	0	0.48%	0.48%	-0.10%			
2196 250013 08DIMICK 138 250111 08TP5483 138 1	250013 08DTMTCK	250111 0	18TP5483	1	138	212 DEO&K	198	198	Base Case	0	17.6	-	8.88	0	-0.05%	-0.05%	-0.03%			
2197 238860 02KTO-14 138 238933 02LVD014 138 1	238860 02KTO-14	238933 0	121.70014	1	138	202 ATST	273	332	Base Case	0	-24 2	-	8 88	0	0.13%	0.13%	-0.05%			
2198 242657 05CRAVES 138 247887 05MCCONVILLE 138 1	242657 05GRAVES	247887 0	5MCCONVILLE	1	138	205 350	167	245	Base Case	0	-14.8	-	8.86	0	-0.02%	-0.02%	0.10%			
2190 242007 00000 PW12 130 247007 050000 PW24 130 7	242007 000000000	2470070	SPOR DK34	7.7	120	200 ABI	046	0.06	Base Case	0	_02 7		0.00	0	0.02%	0.02%	0.07%			
2200 243366 0500 ER12 138 245476 0500 ER34 138 20	243366 05000 PM12	2151760	15000 EN34	20 7 N	120	205 AEP	046	220	Base Case	0	- 82 7		0.00	0	-0.04%	-0.04%	-0.07%			
2001 241026 201-122 DOT 245 241042 201 102 MATH 245 1	243300 USRUB PAIZ	2434/00	1-102 MAT	211N 7	138	200 AEP	940	0000	Dase Case	0	-03.1	-	0.05	0	-0.04%	-0.0470	-0.55%			
2201 241930 AAI-123 PUI 345 241942 AAI-123 MAIN 345 1	241936 AAI-123_POI	241942 A	MAI-123 MAIN	1	345	ZUZ ATSI	9999	9999	base Case	0	-880.8	-	8.81	0	-0.55%	-0.55%	-0.55%			
2202 242562 U5BORLND 138 242599 U5CINDER 138 1	242562 U5BORLND	242599 0	DOCINDER	1	138	205 AEP	261	330	Base Case	0	23	-	8.81	0	-0.04%	-0.04%	-0.08%			
2205 238813 02HOYTDL 138 239281 02CRNBRY 138 1	238813 U2HOYTDL	239281 0	ZCRNBRY	1	138	202 ATSI	278	339	Base Case	0	-24.5	-	8.8	0	0.79%	0.79%	0.07%			
2204 242813 05SRIDGE 138 242836 05TURNE1 138 1	242813 05SRIDGE	242836 0	J5TURNE1	1	138	205 AEP	729	729	Base Case	0	-63.9	-	8.77	0	-0.07%	-0.07%	-0.09%			
2205 243106 05SOMERTON 138 243119 05SOMERTON Z 138 1	243106 05SOMERTON	243119 0	5SOMERTON Z	1	138	205 AEP	205	284	Base Case	0	-18	-	8.76	0	-0.06%	-0.06%	0.02%			
2206 243120 05SUNNYSIDE1 138 246126 05SUNNYSIDE2 138 Z1	243120 05SUNNYSIDE1	246126 0	5SUNNYSIDE2	Z1	138	205 AEP	335	392	Base Case	0	29.2		8.72	0	0.22%	0.22%	-0.07%			
2207 250062 08METRSR 138 250088 08QUNGT2 138 1	250062 08METRSR	250088 0	8QUNGT2	1	138	212 DEO&K	268	268	Base Case	0	23.4	-	8.72	0	-0.01%	-0.01%	-0.02%			
2208 243217 05DEQUIN 345 246754 05FOWLER 345 1	243217 05DEQUIN	246754 0	5FOWLER	1	345	205 AEP	973	1100	Base Case	0	-84.4	-	8.67	0	-0.05%	-0.05%	-0.05%			
2209 243030 05LIMAOR 138 243108 05STRLN1 138 1	243030 05LIMAOR	243108 0	5STRLN1	1	138	205 AEP	329	361	Base Case	0	28.5	-	8.65	0	0.09%	0.09%	0.12%			
2210 242782 05RUTH 138 247022 05HERNSH 138 1	242782 05RUTH	247022 0	5HERNSH	1	138	205 AEP	729	729	Base Case	0	63	-	8.64	0	-0.09%	-0.09%	-0.17%			
2211 246763 05PIPECK 138 246988 05STRWTN 138 1	246763 05PIPECK	246988 0	5STRWTN	1	138	205 AEP	257	360	Base Case	0	22.2	-	8.64	0	-0.03%	-0.03%	-0.05%			
2212 247022 05HERNSH 138 247792 05FIELDS CRK 138 1	247022 05HERNSH	247792 0	5FIELDS CRK	1	138	205 AEP	729	729	Base Case	0	62.9	-	8.62	0	-0.09%	-0.09%	-0.17%			
2213 245407 05TANNER CK2 138 245946 05MADISON2 138 1	245407 05TANNER CK2	245946 0	5MADISON2	1	138	205 AEP	187	223	Base Case	0	16.1		8.62	0	0.03%	0.03%	0.02%			
2214 243320 05KANKAKEE2 138 244119 05GRAVEL PIT 138 1	243320 05KANKAKEE2	244119 0	SGRAVEL PIT	1	138	205 AEP	187	240	Base Case	0	-16.1	-	8.62	0	-0.08%	-0.08%	-0.05%			
2215 250039 08HALL1 138 250040 08HALL2 138 71	250039 08HALL1	250040 0	8HALL2	Z1	138	212 DEO&K	406	454	Base Case	0	35	-	8.61	0	0.02%	0.02%	-0.02%			
2216 247375 05BLUERACER8 138 247715 05BLUE RACER 138 71	247375 05BLUEBACER8	247715 0	5BLUE BACER	71	138	205 AEP	555	555	Base Case	0	-47.8	-	8,61	0	0.00%	0.00%	0.00%			
2217 239014 02NS0-16 138 239331 02NASHRING 138 1	239014 02NSO-16	239331 0	2NASHRING	1	130	202 2751	278	330	Base Case	0	-23 0		8 50	0	0.09%	0.09%	-0.03%			
2218 238768 02CDNFLD 138 238974 02N DEDT 129 1	238768 02CRNFLD	23897/ 0	12N DEDT	1	120	202 1101	200	240	Base Case	0	17 0		8 50	0	-0.24%	-0.24%	-0.04%			
2210 230517 021 VONC 130 230712 02EAVET 130 1	239517 021 YONG	230314 0	OFAVET	1	120	202 1101	200	242	Page Case	0	10 2		0.09	0	0.24/0	0.05%	0.00%			
2219/23001/ UZLIUNS 130 238/12 UZFAIET 138 1	25051/ U2LIUNS	230/12 0	DI ICO MATT	1	138	202 ATS1	224	200	Dase Case	0	19.2		8.39	0	0.05%	0.05%	0.00%			
2220 2030 // 095TUART 345 253352 ABI-169 MAIN 345 1	2530// 09STUART	253352 A	ABI-103 MAIN	1	345	209 DAY	9999	9999	Base Case	0	-857.3	-	8.57	0	-0.55%	-0.55%	-0.55%			

A	B C D	E	F	G	Н	I	J	К	Ĺ.	М	N	0	P Q	R	S	T U
2221 239036 02PERRY 345 239358 02GLENWILLOW 345 1	239036 02PERRY 23935	02GLENWILLOW	1	. 345	202	ATSI	1542	1878	Base Case	0	131.7	-	8.54 0	0.90%	0.90%	-0.39%
2222 242778 05RUM CK 138 242779 05RUMCKZ 138 1	242778 05RUM CK 24277	05RUMCKZ	1	138	205	AEP	205	251	Base Case	0	-17.5	-	8.54 0	0.00%	0.00%	0.00%
2223 242657 05GRAVES 138 246229 05REUSENS2 138 1	242657 05GRAVES 24622	05REUSENS2	1	. 138	205	AEP	167	245	Base Case	0	-14.2	-	8.51 0	0.02%	0.02%	-0.10%
2224 238656 02DB0-11 138 238701 02ER0-11 138 1	238656 02DBO-11 23870	1 02ERO-11	1	138	202	ATSI	273	332	Base Case	0	-23.2	-	8.51 0	0.00%	0.00%	0.00%
2225 242625 05DINGES 138 246923 05NEWSOM 138 1	242625 05DINGES 24692	3 05NEWSOM	1	138	205	AEP	251	335	Base Case	0	-21 3	-	8.5 0	-0.07%	-0.07%	-0.12%
2226 235340 01GBASSY 138 247822 050UINWOOD 138 1	235340 01GRASSY 24782	2 050UTNWOOD	1	138	201/205	AP/AEP	282	332	Base Case	0	-24	-	8.5 0	-0.27%	-0.27%	0.15%
2227 242211 05011 PN 245 242221 0500 PK 245 2	242211 0551 EN 24222	L OSQOINWOOD		245	201/205	AFD	971	071	Base Case	0	-02 5		0.5 0	0.21%	-0.41%	-0.19%
2227 243211 USALLEN 343 243231 USROB FR 343 2	243211 USALLEN 24323	DORUB FR	2	120	203	ABF	971	222	Base Case	0	-02.5		0.0	-0.41%	-0.41/0	-0.13%
2220 238525 02AD Q-4 138 241929 02AVQ3 138 1	238525 02AD Q-4 24192	9 UZAVQ3	1	. 138	202	ATSI	2/3	332	Base Case	0	-23.2	-	8.49 0	-0.03%	-0.03%	-0.03%
2229 243454 USBIXBY 345 243459 USKIRK 345 1	243454 USBIXBY 24345	JUSKIRK	1	. 345	205	AEP	1409	1409	Base Case	0	-119.3	-	8.46 0	1.32%	1.32%	0.01%
2230 243476 05BOLINSMLSS 138 244283 05MINERAL SS 138 1	243476 05BOLINSMLSS 24428	3 05MINERAL SS	1	138	205	AEP	323	361	Base Case	0	27.3	-	8.45 0	-0.06%	-0.06%	0.07%
2231 243211 05ALLEN 345 243231 05ROB PK 345 1	243211 05ALLEN 24323	1 05ROB PK	1	. 345	205	AEP	971	971	Base Case	0	-82.1	-	8.45 0	-0.41%	-0.41%	-0.18%
2232 238590 02BRWELL 138 238974 02N DEPT 138 1	238590 02BRWELL 23897	4 02N DEPT	1	. 138	202	ATSI	189	230	Base Case	0	-16	-	8.45 0	-0.24%	-0.24%	-0.04%
2233 242521 05NAGEL 500 360106 8SULLIVAN TN 500 1	242521 05NAGEL 36010	5 8SULLIVAN TN	1	. 500	205/347	AEP/TVA	2522	2522	Base Case	0	213.1	-	8.45 0	-0.51%	-0.51%	0.19%
2234 243515 05GORSCH 138 243564 05RIVERV N. 138 1	243515 05GORSCH 24356	4 05RIVERV N.	1	138	205	AEP	248	282	Base Case	0	20.9	-	8.42 0	-0.07%	-0.07%	-0.08%
2235 243515 05GORSCH 138 243521 05HARMRH 138 1	243515 05GORSCH 24352	1 05HARMRH	1	. 138	205	AEP	248	282	Base Case	0	-20.9	-	8.42 0	-0.07%	-0.07%	-0.08%
2236 242608 05CLYTR1 138 242666 05HAZELH 138 1	242608 05CLYTR1 24266	5 05HAZELH	1	. 138	205	AEP	167	240	Base Case	0	14.1	-	8.42 0	0.07%	0.07%	0.29%
2237 242537 05AMOS 138 246768 05LANHAM 138 1	242537 05AMOS 24676	05LANHAM	1	138	205	AEP	251	335	Base Case	0	21	-	8.39 0	0.00%	0.00%	0.00%
2238 243568 05SCIOTO 138 247221 05DUPT_N 138 1	243568 05SCIOTO 24722	1 05DUPT_N	1	138	205	AEP	150	191	Base Case	0	12.6	-	8.38 0	0.00%	0.00%	0.00%
2239 253021 09DARBY 138 253245 09EAGLE 138 1	253021 09DARBY 25324	5 09EAGLE	1	138	209	DAY	201	220	Base Case	0	16.8	-	8.38 0	0.10%	0.10%	0.03%
2240 239112 02LRCRQ1 138 239213 02AUSTQ1 138 1	239112 02LRCRQ1 23921	02AUSTQ1	1	138	202	ATSI	148	151	Base Case	0	12.4	-	8.37 0	-0.18%	-0.18%	0.04%
2241 239095 02SBRNQ1 138 239213 02AUSTQ1 138 1	239095 02SBRNQ1 23921	3 02AUSTQ1	1	138	202	ATSI	148	151	Base Case	0	-12.4	-	8.36 0	-0.18%	-0.18%	0.04%
2242 243091 05S.CALDWELL 138 247799 05S.OLIVE SS 138 1	243091 05S.CALDWELL 24779	9 05S.OLIVE SS	1	138	205	AEP	296	413	Base Case	0	-24.7	-	8.35 0	0.19%	0.19%	0.14%
2243 238823 02INQ-14 138 239324 02CH 138 1	238823 02INQ-14 23932	4 02CH	1	138	202	ATSI	273	332	Base Case	0	22.8	-	8.34 0	-0.15%	-0.15%	0.03%
2244 238808 02HML013 138 240261 02GMC013 138 1	238808 02HML013 24026	1 02GMCO13	1	138	202	ATSI	355	434	Base Case	0	-29.6	-	8.33 0	0.10%	0.10%	0.01%
2245 243261 05COLBYTAPSS 138 247745 05COLBY 138 1	243261 05COLBYTAPSS 24774	5 05COLBY	1	138	205	AEP	195	220	Base Case	0	16.2	-	8.32 0	0.00%	0.00%	0.00%
2246 242946 05TIDD 345 247130 05H0LLOW 345 1	242946 05TTDD 24713	0.5HOLLOW	1	345	205	AEP	971	971	Base Case	0	80.7	-	8.31 0	1.63%	1.63%	-0.52%
2247 243522 05HARRISON 138 247067 05GOODHR 138 1	243522 05HABRISON 24706	7 05GOODHP	1	138	205	AEP	296	413	Base Case	0	-24 6	-	8 31 0	0.04%	0.04%	0.05%
2248 239176 02W00D+ 138 239177 02W00DVI 138 1	239176 02WOOD+ 23917	7 0.2WOODVT	1	138	203	ATET	278	342	Base Case	0	23.0	-	8 26 0	-0.12%	-0.12%	-0.06%
2240 250020 0000000 130 250050 0000001 130 1	250020 08F08TFP 25005	O O O O O O O O O O O O O O O O O O O	1	120	202	DEOCK	270	200	Base Case	0	24 6	-	0.20 0	-0.01%	-0.01%	-0.02%
2249 230029 00F031EK 130 230039 00MAINVE 130 1	230025 00F031EK 23005	OOPETCH	1	120	202	ADCT	230	250	Base Case	0	17.0	_	0.24 0	-0.01%	-0.01%	-0.02%
2250 236510 0200HNMANDEF 130 230659 02DEFISW 130 1	238516 0230HNMANDEF 23865	S OZDEFISW	1	120	202	AIDI	210	204	Base Case	0	24.2		0.22 0	0.00%	0.00%	0.00%
2251 245025 051EBERN 150 247715 05BL0E RACER 150 1	243023 031EBERN 24771	O O O D D D D D D D D D D D D D D D D D	1	120	203	ALF	290	413	Base Case	0	-24.5		0.21 0	0.00%	0.00%	0.00%
2252 238542 02ASH_1 138 239055 02Q15TAP 138 1	238542 UZASH_1 23905	5 UZQISTAP	1	138	202	ATSI	329	399	Base Case	0	27	-	8.2 0	0.00%	0.00%	0.00%
2253 239290 02HAYES 138 240813 02GROTON 138 1	239290 02HAYES 24081	3 UZGROTON	1	. 138	202	ATSI	278	339	Base Case	0	-22.1	-	8.17 0	-0.19%	-0.19%	-0.03%
2254 238665 02DS Q-1 138 241237 02GROV TP 138 1	238665 02DS Q-1 24123	7 UZGROV TP	1	138	202	ATSI	278	339	Base Case	0	22.1	-	8.16 0	-0.22%	-0.22%	-0.02%
2255 244024 05SUMAC 138 247199 05AMLIN 138 Z1	244024 05SUMAC 24719	9 05AMLIN	ZI	138	205	AEP	/4/	747	Base Case	0	-60.9	-	8.15 0	0.00%	0.00%	0.00%
2256 244024 05SUMAC 138 247199 05AMLIN 138 Z2	244024 05SUMAC 24719	9 05AMLIN	Z2	138	205	AEP	747	747	Base Case	0	-60.9	-	8.15 0	0.00%	0.00%	0.00%
2257 238890 02LEMOYN 138 239176 02WOOD+ 138 1	238890 02LEMOYN 23917	5 02WOOD+	1	. 138	202	ATSI	282	347	Base Case	0	23	-	8.15 0	-0.12%	-0.12%	-0.06%
2258 244198 05LEMASTER 138 244283 05MINERAL SS 138 1	244198 05LEMASTER 24428	3 05MINERAL SS	1	. 138	205	AEP	323	451	Base Case	0	-26.3	-	8.13 0	-0.06%	-0.06%	0.07%
2259 247738 05BOONE 138 247792 05FIELDS CRK 138 1	247738 05BOONE 24779	2 05FIELDS CRK	1	138	205	AEP	296	413	Base Case	0	-24.1	-	8.13 0	0.01%	0.01%	0.00%
2260 243684 05DEWEY 138 243702 05THELMA 138 1	243684 05DEWEY 24370	2 05THELMA	1	138	205	AEP	223	223	Base Case	0	-18.1	-	8.12 0	-0.03%	-0.03%	-0.18%
2261 249984 08ASHLD8 138 250110 08CENTRL 138 1	249984 08ASHLD8 25011	08CENTRL	1	. 138	212	DEO&K	266	266	Base Case	0	-21.6	-	8.12 0	0.00%	0.00%	-0.01%
2262 238798 02HKQ-21 138 239307 02HARPERQ-21 138 1	238798 02HKQ-21 23930	7 02HARPERQ-21	1	. 138	202	ATSI	148	151	Base Case	0	12	-	8.1 0	0.02%	0.02%	-0.08%
2263 242950 05ACADEM 138 242955 05APPLE VLYZ 138 1	242950 05ACADEM 24295	5 05APPLE VLYZ	1	138	205	AEP	251	251	Base Case	0	20.3	-	8.1 0	-0.01%	-0.01%	0.10%
2264 243118 05SUMMER 138 247715 05BLUE RACER 138 1	243118 05SUMMER 24771	5 05BLUE RACER	1	138	205	AEP	293	341	Base Case	0	23.7	-	8.1 0	-0.03%	-0.03%	0.01%
2265 243336 05MANORZ 138 243351 05NORTHL 138 1	243336 05MANORZ 24335	1 05NORTHL	1	138	205	AEP	205	284	Base Case	0	16.6		8.1 0	-0.04%	-0.04%	-0.02%
2266 242594 05CHERCK 138 242747 05PEMBRT 138 1	242594 05CHERCK 24274	05PEMBRT	1	138	205	AEP	251	335	Base Case	0	-20.3	~	8.09 0	-0.04%	-0.04%	-0.12%
2267 246988 05STRWIN 138 246989 05WLD CS 138 1	246988 05STRWIN 24698	05WLD CS	1	138	205	AEP	257	360	Base Case	0	-20.7	-	8.07 0	-0.01%	-0.01%	-0.01%
2268 243850 05CENT33 138 243851 05CENTRM 138 1	243850 05CENT33 24385	1 05CENTRM	1	138	205	AEP	205	205	Base Case	0	16.5	-	8.06 0	0.00%	0.00%	0.00%
2269 238685 02EASTLK 138 241922 02ELQ2 138 1	238685 02EASTLK 24192	2 02ELQ2	1	. 138	202	ATSI	999	999	Base Case	0	80.2	-	8.02 0	0.07%	0.07%	-0.03%
2270 242656 05GRASSH 138 242826 05TANKHL 138 1	242656 05GRASSH 24282	5 05TANKHL	1	138	205	AEP	219	255	Base Case	0	17.6	-	8.02 0	0.00%	0.00%	0.00%
2271 242558 05BOLT 138 242559 05BOLT Z 138 1	242558 05BOLT 24255	9 05BOLT Z	1	138	205	AEP	219	251	Base Case	0	-17.5	-	8.01 0	-0.01%	-0.01%	-0.01%
2272 243568 05SCIOTO 138 247019 05NEVILLE SS 138 1	243568 05SCIOTO 24701	05NEVILLE SS	1	138	205	AEP	427	601	Base Case	0	-34.2	-	8 0	-0.02%	-0.02%	0.09%
2273 239936 02MCCLELLAND 345 241913 AA1-044 COL 345 1	239936 02MCCLELLAND 24191	3 AA1-044 COL	1	345	202	ATSI	9999	9999	Base Case	0	-799	22	7.99 0	-0.50%	-0.50%	-0.50%
2274 242808 05SPORNS 138 243852 05CENT27 138 1	242808 05SPORNS 24385	2 05CENT27	1	138	205	AEP	257	257	Base Case	ů.	20.5	-	7.98 0	0.00%	0.00%	0.00%
2275 242949 05WMTLLP 345 247741 05HYATT SW2 345 1	242949 05WMTLLP 24774	1 05HYATT SW2	1	345	205	AEP	971	1335	Base Case	0	77.5	-	7.98 0	0.35%	0.35%	0.19%
2276 243672 05BECKHA 138 243704 05VTCCO 138 1	243672 05BECKHA 24370	4 05VICCO	1	138	205	AEP	158	183	Base Case	0	12 6	-	7.97 0	0.09%	0.09%	0.05%
2277 243316 05TNDUST PK1 138 245511 05TNDUST PK2 138 71	243316 05TNDUST PK1 24551	1 OSTNDUST PK?	7.1	138	205	AEP	747	747	Base Case	0	59 5		7.96 0	0.00%	0.00%	0.08%
2278 245456 05NEWRERY 138 246354 05E LEIPSTO1 138 1	245456 05NEWBERY 24635	1 OSE LETPSTO	1	130	205	AEP	287	727	Base Case	0	-22 6	-	7.88 0	-0.06%	-0.06%	-0.10%
2279 238997 02NE0-16 138 241922 02EL02 139 1	238997 02NEO-16 24103	2 02EL02	1	120	200	ATST	278	330	Base Case	0	-21 0		7.88	-0.09%	-0.09%	0.03%
2280 242582 05CADWIZ 138 247008 05CIADWD 139 1	242592 05CADWI 7 24792	R OSCIARKE	1	120	202	AFD	234	324	Base Case	0	26.2		7.00 0	0.00%	0.00%	-0.30%
130 24/000 USCHARD 138 1	24700 24700	0 0 0 0 D D D D D D D D D D D D D D D D	1	130	200	17111	334	554	Lase Case	U	20.0		1.00	0.00%	0.0076	0.3070

	А			В	C	D	E	F	G	H I	J	K	L	М	N	0	Р	Q	R	S	T U
2281 243525 05HUNTLEY1	138 246370	05HUNTLEY2	138 Z1	243525	05HUNTLEY1	246370	05HUNTLEY2	Z1	138	205 AEP	586	683	Base Case	0	46.1	-	7.87	0	-0.01%	-0.01%	-0.02%
2282 243111 05STMARY	138 243152	2 05WMOULT	138 Z1	243111	05STMARY	243152	05WMOULT	Z1	138	205 AEP	223	223	Base Case	0	-17.5	-	7.86	0	0.00%	0.00%	0.00%
2283 243548 05MOUND	138 243876	5 05ST CXX	138 1	243548	0.5MOUND	243876	05ST CXX	1	138	205 AEP	131	173	Base Case	0	-10.3	-	7.83	0	0.05%	0.05%	-0.03%
2284 242716 05MTDKTE	138 242817	05STONBR	138 1	242716	05MTDKIE	242817	05STONBR	1	138	205 AEP	296	378	Base Case	0	23.1	-	7 81	0	-0.05%	-0.05%	-0 14%
2285 242579 05CARBMA	138 242836	5 05TURNE1	138 21	242579	05CARBMA	242836	05TURNE1	7.1	138	205 AEP	383	440	Base Case	0	-29.9	_	7 81	0	-0.01%	-0.01%	-0.01%
2286 238837 02 105014	138 238924	1 021 TEO14	138 1	232013	02 105014	232030	02175014	1	138	203 AEL	425	52	Base Case	0	-33.2	-	7.01	0	-0.01%	-0.01%	0.01%
2287 243251 05BTXIER	138 243252	05817197	138 1	2/3251	05BTVLED	2/3252	05BTVIPT	1	138	205 AFD	105	220	Base Case	0	-15.2	-	7.8	0	0.00%	0.01%	0.00%
2207 243231 03BIALER	130 243232	OSDIALKI	130 1	243231	OFKANABULAI	243232	OFFENCED	1	130	205 AEF	190	220	Dase Case	0	-13.2		7.0	0	0.00%	0.00%	0.00%
2200 242003 0 JAANAWHAT	120 242703) OSCENSED	100 1	242009	05KANAWHA1	242703	OFCUTERT	1	120	205 AEP	167	16"	7 Dase Case	0	12		7.0	0	-0.0470	-0.04%	-0.24%
2209 243039 05MELMOR	130 243110) OJSIIFFI	130 1	243039	0.0 EDOTNEL	243110	03511FF1	1	130	203 AEP	107	10	Base Case	0	-13	_	7.70	0	-0.08%	-0.08%	-0.01%
2290 238717 02-SPOINT+	138 240979	02DELAFOIL	138 1	238717	02-SPOINT+	240979	OZDELAFOIL	1	138	202 ATS1	288	353	Base case	0	22.3	-	7.74	0	0.00%	0.00%	0.00%
2291 243365 USRIVERSIDE1	138 245846	5 USRIVERSIDEZ	138 21	243365	USRIVERSIDEI	245846	USRIVERSIDEZ	21	138	205 AEP	187	202	Base Case	0	-14.5	-	1.13	0	0.03%	0.03%	0.02%
2292 242991 05E SIDE	138 243051	L USNDELPH	138 1	242991	USE SIDE	243051	USNDELPH	1	138	205 AEP	251	251	Base Case	0	-19.4	-	7.73	0	-0.15%	-0.15%	-0.07%
2293 23511/ UIKAMMER	500 242925	0 OSKAMMER	765 I	235117	UIKAMMER	242925	05KAMMER	1	500/765	201/205 AP/AEP	2986	3/92	Base Case	0	-230.4	-	/./1	0	-7.41%	-7.41%	-3.37%
2294 238666 02DS Q-3	138 241935	5 02CLINTON	138 1	238666	02DS Q-3	241935	OZCLINTON	1	138	202 ATSI	278	335	Base Case	0	21.4		1.1	0	-0.22%	-0.22%	-0.02%
2295 243342 05MILAN	138 247168	3 05MICHN3	138 1	243342	05MILAN	247168	05MICHN3	1	138	205 AEP	104	104	Base Case	0	8	-	7.69	0	0.00%	0.00%	0.00%
2296 238570 02BEAVER	138 238981	02NASA	138 1	238570	02BEAVER	238981	02NASA	1	138	202 ATSI	160	192	2 Base Case	0	-12.3	-	7.69	0	-0.22%	-0.22%	-0.04%
2297 243523 05HCREAN	138 243547	05MORSE	138 1	243523	05HCREAN	243547	05MORSE	1	138	205 AEP	150	180) Base Case	0	11.5	-	7.69	0	0.05%	0.05%	0.01%
2298 240979 02DELAFOIL	138 240980) 02FIVEPOINT	138 1	240979	02DELAFOIL	240980	02FIVEPOINT	1	138	202 ATSI	288	353	Base Case	0	22.1	-	7.67	0	0.00%	0.00%	0.00%
2299 242669 05HOLST1	138 242670	05HOLST2	138 ZB	242669	05HOLST1	242670	05HOLST2	ZB	138	205 AEP	285	337	7 Base Case	0	21.8	-	7.63	0	-0.01%	-0.01%	-0.06%
2300 238996 02NEQ-15	138 241921	02ELQ1	138 1	238996	02NEQ-15	241921	02ELQ1	1	138	202 ATSI	273	332	Base Case	0	-20.8	-	7.61	0	-0.08%	-0.08%	0.02%
2301 242543 05AUSTIN	138 913030) Y1-006 TAP	138 1	242543	05AUSTIN	913030	Y1-006 TAP	1	138	205 AEP	219	251	Base Case	0	16.6		7.57	0	-0.02%	-0.02%	-0.06%
2302 243357 05PENDLETON1	138 243382	2 05TANNER CK1	138 1	243357	05PENDLETON1	243382	05TANNER CK1	1	138	205 AEP	213	223	Base Case	0	-16.1	-	7.56	0	0.03%	0.03%	0.02%
2303 242683 05J.EARL	138 913030) Y1-006 TAP	138 1	242683	05J.EARL	913030	Y1-006 TAP	1	138	205 AEP	219	251	Base Case	0	-16.6	-	7.56	0	-0.02%	-0.02%	-0.06%
2304 242596 05CHESTR	138 242813	3 05SRIDGE	138 1	242596	05CHESTR	242813	05SRIDGE	1	138	205 AEP	729	729	Base Case	0	-55	-	7.55	0	-0.07%	-0.07%	-0.09%
2305 242642 05FRANKLIN	138 242831	05THORNT	138 1	242642	05FRANKLIN	242831	05THORNT	1	138	205 AEP	150	204	Base Case	0	-11.3	-	7.55	0	-0.04%	-0.04%	0.19%
2306 242795 05SHARPL	138 247242	05CHAPSS	138 1	242795	05SHARPL	247242	05CHAPSS	1	138	205 AEP	296	378	Base Case	0	-22.3	-	7.54	0	0.00%	0.00%	0.00%
2307 247704 05PANDA RDSS	138 247730) 05PANDA RD	138 1	247704	05PANDA RDSS	247730	05PANDA RD	1	138	205 AEP	195	220	Base Case	0	14.7	-	7.54	0	0.00%	0.00%	0.00%
2308 238727 02WLBCT+	138 239194	1 02CALPH	138 1	238727	02WLBCT+	239194	02CALPH	1	138	202 ATSI	278	343	Base Case	0	20.9	-	7.53	0	0.03%	0.03%	-0.01%
2309 242613 05COLLEEN SS	138 244423	3 05JAMES RIVR	138 1	242613	05COLLEEN SS	244423	05JAMES RIVR	1	138	205 AEP	167	167	7 Base Case	0	12.6	-	7.52	0	-0.30%	-0.30%	-0.65%
2310 238889 02LEMOYN	345 242936	5 05FOSTOR	345 1	238889	02LEMOYN	242936	05FOSTOR	1	345	202/205 ATSI/AEP	1390	1390	Base Case	0	103.9		7.48	0	-0.06%	-0.06%	-0.76%
2311 243497 05DELANO	138 246123	3 05DELANO T1	138 Z1	243497	05DELANO	246123	05DELANO T1	Z1	138	205 AEP	161	186	Base Case	0	12	-	7.48	0	0.00%	0.00%	0.00%
2312 238729 02FORD B	138 238767	7 02GRFD T	138 1	238729	02FORD B	238767	02GRFD T	1	138	202 ATSI	160	192	2 Base Case	0	-11.9	-	7.45	0	0.00%	0.00%	0.00%
2313 249571 08REDBK1	345 249575	5 08TERMNL	345 1	249571	08REDBK1	249575	08TERMNL	1	345	212 DE0&K	1509	1509	Base Case	0	-112.4	-	7.45	0	-0.07%	-0.07%	-0.18%
2314 242821 05SUNDL2	138 247795	5 05LACEY BRCH	138 1	242821	05SUNDL2	247795	05LACEY BRCH	1	138	205 AEP	223	223	Base Case	0	-16.6	-	7.44	0	-0.03%	-0.03%	0.15%
2315 242590 05CENTER	138 242591	05CENTRR	138 Z1	242590	05CENTER	242591	05CENTRR	Z1	138	205 AEP	223	310) Base Case	0	-16.6	-	7.43	0	0.00%	0.00%	0.00%
2316 243471 05BETHEL	138 243535	5 05LINWRT	138 1	243471	05BETHEL	243535	05LINWRT	1	138	205 AEP	150	151	Base Case	0	11.1	-	7.43	0	-0.02%	-0.02%	-0.01%
2317 238944 02MASURY	138 239120	02SSPRNG	138 1	238944	02MASURY	239120	02SSPRNG	1	138	202 ATSI	128	165	Base Case	0	9.5		7.43	0	0.20%	0.20%	-0.02%
2318 238830 02IWQ-16	138 238842	2 02JNPR03	138 1	238830	02IW0-16	238842	02JNPR03	1	138	202 ATSI	273	332	Base Case	0	-20.2	-	7.41	0	0.02%	0.02%	0.00%
2319 243482 05CENTBG	138 243583	05TRENT	138 1	243482	05CENTBG	243583	05TRENT	1	138	205 AEP	285	338	Base Case	0	21	-	7.37	0	0.04%	0.04%	-0.01%
2320 238578 02BORDMN	138 239166	5 02WCKLIF	138 1	238578	02BORDMN	239166	02WCKLIF	1	138	202 ATSI	225	295	Base Case	0	16.6	-	7.37	0	0.09%	0.09%	0.03%
2321 238975 02N EAST	138 240240	02NEORSD	138 1	238975	02N EAST	240240	02NEORSD	1	138	202 ATSI	194	231	Base Case	0	14.3		7.35	0	-0.08%	-0.08%	0.02%
2322 242849 05W.KINGSPT1	138 244195	5 05HOLSTN ARM	138 Z1	242849	05W.KINGSPT1	244195	05HOLSTN ARM	Z1	138	205 AEP	109	133	Base Case	0	8		7.34	0	0.00%	0.00%	0.00%
2323 238500 02ALLEN-1	138 238531	02ALLNJ	138 ZB	238500	02ALLEN-1	238531	02ALLNJ	ZB	138	202 ATSI	563	56	Base Case	0	41.2	-	7.32	0	0.00%	0.00%	0.00%
2324 238822 02INO-11	138 238828	3 02IVY011	138 1	238822	02INO-11	238828	02IVY011	1	138	202 ATSI	376	465	Base Case	0	27.5	-	7.3	0	0.06%	0.06%	-0.02%
2325 238637 02CPP LS	138 238673	3 O2E IND	138 1	238637	02CPP LS	238673	02E IND	1	138	202 ATSI	194	2.31	Base Case	0	-14.1	-	7.29	0 0	0.07%	0.07%	0.00%
2326 242577 05CARB 8	138 242578	3 05CARB Z	138 1	242577	05CARB 8	242578	05CARB Z	1	138	205 AEP	164	180	Base Case	0	11.9	-	7.27	0	-0.01%	-0.01%	-0.01%
2327 243136 05W LTMA	138 243157	7 05WOODTA	138 1	243136	05W LIMA	243157	05WOODT.A	1	138	205 AEP	205	201	Base Case	0	-14.8	-	7.24	n	0.01%	0.01%	-0.06%
2328 238590 02BBWELL	138 238728	02FORD	138 1	238590	02BRWELL	238728	02FORD	1	138	202 ATST	189	230	Base Case	0	13.7	-	7.23	0	-0.24%	-0.24%	-0.04%
2329 242690 05KEENMT	138 247149	0.5WHITWD	138 1	242690	05KEENMT	247149	05WHITWD	1	138	205 AEP	251	335	Base Case	0	-18.1	-	7.23	n	0.00%	0.00%	0.00%
2330 238585 02BRIDGE	138 238825	02TVANHO	138 1	238585	02BRIDGE	238825	02TVANHO	1	138	202 2797	200	243	Base Case	0	14.4	_	7.25	0	-0.01%	-0.01%	0.00%
2331 243042 05MTLLBP DE1	138 243047	05N POPT	138 1	243040	05MTLLBR DK1	243047	05N PORT	1	130	205 250	105	100	Base Case	0	12 3	-	7 2	0	-0.02%	-0.02%	0.06%
2332 242601 05CLEARP	138 242774	1 05R0AN02	138 1	242601	05CLEARB	242774	05ROANO2	1	130	205 AEP	159	193	Base Case	0	11 /		7 1 9	0	-0.02%	-0.02%	-0.42%
2333 243025 05 TUNCTIN	138 242//4	0501.01195	138 1	242001	05.TUNCTN	242/14	05CLOUSE	1	120	205 200	167	165	Base Case	0	_12		7 10	0	0.07%	0.07%	-0.03%
2334 242654 05CPASCY	138 242600	05KEENMT	138 71	242654	05CRASCK	242600	OSKEENMT	71	120	205 AEF	251	70	Base Case	0	_10	_	7.17	0	0.00%	0.00%	0.00%
2335 242034 UJGRADEN	130 242090	0.5METMOD	130 1	242034	05CREENT	242090	05MELMOD		100	205 AEP	201	333	Pase Case	0	10 /	-	7.10	0	-0.01%	-0.01%	-0.07%
2336 250036 09CT NUM1	130 243039	0 OPELNUM	130 1	243013	0.9 CT NUPI	243039	09CI NUM2	71	120	200 AEF	237	500	Base Case	0	_26 0	-	7 13	0	-0.01%	-0.01%	0.01%
2330 230030 USGLINVWI	120 230037	0 OGLINVWZ	120 21	200036	05BENO 7	230037	05BENO	21 71	130	212 DEU&R	316	5/3	Dase Case	-	-30.0		7.13	0	-0.05%	-0.05%	0.01%
2337 243337 USKENU Z	24403/	O O SKENU	245 1	243337	O 2 A L EN	24403/	02FULTON	41 7	138	203 AEF	129	100	Dase Lase	-	107 0	-	7.11	U	-0.260/	0.00%	-0.08%
2330 230330 UZALLEN	120 239018	O2 1 CMCT	120 1	238530	02GUDVWD	239018	02 1 cmcr	1	345	202 ATS1	151/	1863	Dase Case	-	101.8		7.1	0	-0.30%	-0.30%	-0.06%
2335 238523 UZCHRYTE	130 239227	UZ-ISTSL	130 1	238523	OF UNINE C	239227	02-1STSL	1	138	202 ATS1	288	348	Base Case		-20.3	-	7.04	0	-0.03%	-0.03%	0.01%
2340 243314 05HUNTR8	138 243326	USLAOTTO	138 1	243314	USHUNTR8	243326	USLAOTTO	1	138	205 AEP	251	335	Base Case	0	17.7	-	7.04	0	0.07%	0.07%	0.06%

		A		В	C	D	E	F	G	Н	1	J	К	Ĺ	М	N	0	Р	Q	R	S	T U
2341 243042 05MILLBR PK1	138	245949 05MLBRPK ARG	138 Z1	243042	05MILLBR PK1	245949	05MLBRPK ARG	Z1	138	205	AEP	240	296	Base Case	0	-16.9		7.03	0	-0.06%	-0.06%	-0.03%
2342 249566 08FOSTER	345	249570 08P.UNON	345 1	249566	08FOSTER	249570	08P.UNON		1 345	212	DEO&K	1509	1509	Base Case	0	-105.9	-	7.02	0	-0.64%	-0.64%	-0.23%
2343 238749 02GATES	138	238971 02MUBBAY	138 1	238749	02GATES	238971	02MURRAY		1 138	202	ATST	196	210	Base Case	0	-13.7	-	6.99	0	-0.05%	-0.05%	-0.02%
2344 250099 085TMPSN	138	250102 08SOCIVI	138 1	250099	OSSIMPSN	250102	08SOCT VI		1 138	212	DEOEK	298	298	Base Case	0	20.8	-	6 99	0	0.05%	0.05%	0.03%
2345 243245 053NUTLYZ	130	243370 05000000	130 1	2/32/5	05ANTHV7	2/3370	05000000	-	1 120	205	AFD	210	251	Base Case	0	15 2		6.95	0	0.07%	0.03%	0.05%
2246 242492 05 CRUERD	120	242015 0505747E0	120 1	243243	05CRUERD	243315	050TATES		1 120	205	AED	220	201	Base Case	0	22 6		6.93	0	0.01%	0.01%	0.03%
2340 243435 0JCRVERD	130	243915 USBERRIWOOD	130 1	243453	O SCRVERD	243913	OF THE BOAD		1 130	203	ADP	330	300	Base Case	0	23.3		6.94	0	-0.04/0	-0.04%	0.01%
2347 243139 05WAGENHALS2	130	244070 0330NE ROAD	136 1	243139	USWAGENHALSZ	244070	OSJUNE ROAD	-	1 130	205	ALP	335	392	Base Case	0	-23.1	-	6.91	0	0.11%	0.11%	0.02%
2348 240069 02LORDSTOWN	345	240074 02 22-028	345 1	240069	02LORDSTOWN	240074	02_22-028		1 345	202	ATSI	9999	9999	Base Case	0	-688.6	-	6.89	0	-0.43%	-0.43%	-0.43%
2349 2434/2 USBEXLEY	138	243592 USYEARLG	138 1	243472	USBEXLEY	243592	USYEARLG		1 138	205	AEP	164	180.	Base Case	0	-11.3	-	6.88	0	0.05%	0.05%	0.00%
2350 242564 05BRADL1	138	24/826 05MOLLYS CRK	138 1	242564	05BRADL1	247826	05MOLLYS CRK		1 138	205	AEP	136	167.	Base Case	0	9.4		6.88	0	-0.15%	-0.15%	0.17%
2351 242532 05NAGEL	230	304781 6CANERV230 T	230 1	242532	05NAGEL	304781	6CANERV230 T		1 230	205/341	AEP/CPLW	598	5981	Base Case	0	41.1	-	6.87	0	-0.21%	-0.21%	-1.32%
2352 242596 05CHESTR	138	245426 05BULLIT ST2	138 1	242596	05CHESTR	245426	05BULLIT ST2		1 138	205	AEP	296	413	Base Case	0	-20.3	-	6.86	0	-0.01%	-0.01%	-0.10%
2353 238728 02FORD	138	239738 020AKPOINT	138 1	238728	02FORD	239738	020AKPOINT		1 138	202	ATSI	200	242	Base Case	0	13.7	-	6.83	0	-0.24%	-0.24%	-0.04%
2354 243487 05CHK TAP Z	138	243528 05KARL ROAD	138 1	243487	05CHK TAP Z	243528	05KARL ROAD	1	1 138	205	AEP	338	338 1	Base Case	0	-23.1	-	6.83	0	0.07%	0.07%	0.02%
2355 243210 05SULLIVAN	765	247712 05SULLIVAN	345 1	243210	05SULLIVAN	247712	05SULLIVAN	1	1 765/345	205	AEP	1737	1737	Base Case	0	118.5	-	6.82	0	0.23%	0.23%	0.02%
2356 238783 02HARDIN	345	239334 02L.CENTER	345 1	238783	02HARDIN	239334	02L.CENTER		1 345	202	ATSI	1555	1793	Base Case	0	-105.8	-	6.8	0	0.82%	0.82%	-0.31%
2357 250010 08D.CRK2	138	250105 08TDHNTR	138 1	250010	08D.CRK2	250105	08TDHNTR		1 138	212	DEO&K	299	299	Base Case	0	-20.3	-	6.8	0	0.04%	0.04%	0.04%
2358 243070 050HIOCT	138	243076 05CONESPREPZ	138 1	243070	050HIOCT	243076	05CONESPREPZ		1 138	205	AEP	446	601	Base Case	0	30.1	-	6.75	0	0.18%	0.18%	-0.08%
2359 243212 05BENTON	345	243215 05COOK	345 1	243212	05BENTON	243215	05COOK		1 345	205	AEP	1409	1868	Base Case	0	95.1	-	6.75	0	0.46%	0.46%	-0.02%
2360 238812 02HOYTDL	345	238941 02MANSFD	345 1	238812	02HOYTDL	238941	02MANSFD		1 345	202	ATSI	1542	1878	Base Case	0	104	-	6.74	0	1.00%	1.00%	-0.24%
2361 242932 05CANTNC	345	242944 05SECANT	345 1	242932	05CANTNC	242944	05SECANT	1	1 345	205	AEP	1409	1409	Base Case	0	95	-	6.74	0	0.47%	0.47%	-0.50%
2362 238714 02FB Q-3	138	238741 02FWLSQ3	138 1	238714	02FB Q-3	238741	02FWLSQ3		1 138	202	ATSI	267	332	Base Case	0	-18	-	6.74	0	-0.18%	-0.18%	-0.01%
2363 238799 02HKQ-22	138	239049 02PV Q1	138 1	238799	02HKQ-22	239049	02PV Q1		1 138	202	ATSI	153	1991	Base Case	0	10.3	-	6.74	0	-0.03%	-0.03%	0.09%
2364 238914 02LRCR03	138	239057 02LRCR04	138 ZB	238914	02LRCR03	239057	02LRCR04	ZB	138	202	ATSI	2500	2500	Base Case	0	-168.1	-	6.72	0	0.07%	0.07%	-0.03%
2365 250022 08EVNDL1	138	250051 08KMPER2	138 1	250022	08EVNDL1	250051	08KMPER2		1 138	212	DEO&K	299	299	Base Case	0	-20.1	-	6.72	0	0.01%	0.01%	-0.02%
2366 242614 05COLLINY SS	138	247169 05COLLINV	138 21	242614	05COLLINV SS	247169	0.5COLLINV	7.1	138	205	AEP	158	180	Base Case	0	10.6	-	6.71	0	0.00%	0.00%	0.00%
2367 247150 05FARADAY	138	247153 05BEBWIN	138 1	247150	05FARADAY	247153	05BERWIN		1 138	205	AEP	296	413	Base Case	0	19.7	-	6.67	0	-0.05%	-0.05%	0.04%
2368 242946 05TIDD	345	242948 05WBELLA	345 1	242946	057700	242948	05WBELLA		1 345	205	AEP	971	1318	Base Case	0	-64 7	-	6 66	0	-1 44%	-1 45%	0.96%
2369 242955 05appie VIV7	138	243061 05NLEYTN	138 1	242955	05APPLE VIVZ	243061	05NLEYTN		1 138	205	AFD	205	205	Base Case	0	13 6	-	6.62	0	-0.01%	-0.01%	0.10%
2370 243152 05WMOULT	138	245994 05CEMINI	138 1	243152	05WMOULT	245994	05GEMINI		1 138	205	AFP	257	360	Base Case	0	-17	-	6.6	0	0.01%	0.01%	0.04%
2371 242759 05POPLAP	139	247013 05CROOKC	138 1	240102	05POPLAP	243334	05GENINI 05CROOKC		1 139	205	AFD	296	361	Base Case	0	-19 5	-	6 59	0	0.06%	0.06%	0.02%
2272 242709 05M FUNK	120	242852 OFMONTEM	120 1	242733	OSH FUNK	247013	OFMENTEM		1 120	205	AED	200	222	Base Case	0	-14 7		6.59	0	0.00%	0.11%	0.02%
2272 2320017 00M FONK	1 2 0	242852 03WSALEM	130 1	242700	OOM FONK	242032	OJWJALEM		1 130	203	ADF	223	223	Base Case	0	-14.7		0.58	0	0.11/0	0.11/0	0.23%
2373 239017 02NT Q10	100	241925 02ELQ5	130 1	239017	OZNI QIO	241925	02ELQ5		1 100	202	AISI	225	295	Base Case	0	-14.7	_	0.00	0	0.02%	0.02%	-0.01%
2374 243002 05FAIRCR	138	243097 05SECANT	138 1	243002	05FAIRCR	243097	OSSECANT	-	1 138	205	AEP	291	291	Base Case	0	-19.1	-	6.55	0	0.10%	0.10%	-0.05%
2373 239988 02FE-POLO	130	24/727 03POLO ROAD	138 1	239988	02FE-POLO	24//2/	03POLO ROAD		1 138	202/205	ATSI/AEP	219	200	Base Case	0	14.3	_	6.53	0	0.00%	0.00%	0.00%
2376 238806 02HMLQII	138	239032 02PDBQII	138 1	238806	02HMLQII	239032	02PDBQII		1 138	202	ATSI	355	434	Base Case	0	-23.2	-	6.53	0	0.19%	0.19%	0.02%
2377 243778 05TIMKEN B	138	246837 USTORREY BP	138 1	243778	05TIMKEN B	246837	05TORREY_BP		1 138	205	AEP	285	302	Base Case	0	-18.6	-	6.53	0	-0.07%	-0.07%	0.02%
2378 242790 05S.BUFFALO	138	246162 05S.BUF T1-4	138 Z4	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z4	138	205	AEP	158	183.	Base Case	0	10.3		6.51	0	0.00%	0.00%	0.00%
23/9 242790 05S.BUFFALO	138	246162 05S.BUF T1-4	138 Z3	242790	U5S.BUFFALO	246162	055.BUF T1-4	23	138	205	AEP	158	183	Base Case	0	10.3	-	6.51	0	0.00%	0.00%	0.00%
2380 242790 05S.BUFFALO	138	246162 05S.BUF T1-4	138 Z1	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z1	138	205	AEP	158	183	Base Case	0	10.3	-	6.51	0	0.00%	0.00%	0.00%
2381 242790 05S.BUFFALO	138	246162 05S.BUF T1-4	138 Z2	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z2	138	205	AEP	158	183	Base Case	0	10.3	-	6.51	0	0.00%	0.00%	0.00%
2382 238632 02COLLIN	138	238638 02CPP NH	138 1	238632	02COLLIN	238638	02CPP NH	1	1 138	202	ATSI	194	237 1	Base Case	0	-12.6	-	6.51	0	0.08%	0.08%	-0.02%
2383 238764 02GRANGR	138	239125 02STONEY	138 1	238764	02GRANGR	239125	02STONEY		1 138	202	ATSI	233	282	Base Case	0	-15.1	-	6.5	0	-0.13%	-0.13%	-0.01%
2384 243024 05HOWARD	138	243101 05SHELNS	138 1	243024	05HOWARD	243101	05SHELNS		1 138	205	AEP	93	93 1	Base Case	0	6	-	6.49	0	0.00%	0.00%	0.00%
2385 243474 05BLACKL	138	246765 050UTERB	138 1	243474	05BLACKL	246765	050UTERB	1	1 138	205	AEP	223	310	Base Case	0	14.5		6.49	0	0.02%	0.02%	0.00%
2386 243776 05s.TIMK	138	246837 05TORREY_BP	138 1	243776	05S.TIMK	246837	05TORREY_BP	1	1 138	205	AEP	287	337 1	Base Case	0	18.6	-	6.48	0	-0.07%	-0.07%	0.02%
2387 243275 05DELAWR1	138	243387 05VANBUR	138 1	243275	05DELAWR1	243387	05VANBUR		1 138	205	AEP	136	167	Base Case	0	8.8	-	6.46	0	0.00%	0.00%	0.05%
2388 247894 05E.ELKHA BP	345	256509 18WEEDLK	345 1	247894	05E.ELKHA BP	256509	18WEEDLK	1	1 345	205/218	AEP/METC	1407	1407	Base Case	0	-90.9	-	6.46	0	0.22%	0.22%	-0.18%
2389 242686 05JEHU BR SS	138	247557 05MABSCOTT	138 1	242686	05JEHU BR SS	247557	05MABSCOTT	1	1 138	205	AEP	158	183	Base Case	0	-10.2	200	6.45	0	-0.03%	-0.03%	0.07%
2390 253074 09STATAP	138	253139 09ELDEAN	138 1	253074	09STATAP	253139	09ELDEAN		1 138	209	DAY	197	269	Base Case	0	12.7	-	6.45	0	-0.01%	-0.01%	0.02%
2391 243234 05TWIN B	345	256000 18ARGNTA	345 1	243234	05TWIN B	256000	18ARGNTA	1	1 345	205/218	AEP/METC	1374	1409	Base Case	0	88.5	-	6.44	0	-0.45%	-0.45%	-0.01%
2392 247894 05E.ELKHA BP	345	255105 17HIPLE	345 1	247894	05E.ELKHA BP	255105	17HIPLE		1 345	205/217	AEP/NIPS	1409	1409	Base Case	0	90.7	-	6.44	0	0.22%	0.22%	-0.18%
2393 242808 05SPORNS	138	243850 05CENT33	138 3	242808	05SPORNS	243850	05CENT33		3 138	205	AEP	257	257	Base Case	0	16.5	12	6.44	0	0.00%	0.00%	0.00%
2394 242703 05LEON A	138	242808 05SPORNS	138 1	242703	05LEON A	242808	05SPORNS		1 138	205	AEP	296	296	Base Case	0	-18.9	-	6.4	0	-0.03%	-0.03%	-0.19%
2395 242650 05GLENL1	138	242694 05KIMBAL	138 1	242650	05GLENL1	242694	05KIMBAL		1 138	205	AEP	205	205	Base Case	0	13.1	-	6.4	0	-0.12%	-0.12%	-0.27%
2396 238857 02KHTPQ1	138	238862 02KL Q-1	138 1	238857	02KHTPQ1	238862	02KL Q-1		1 138	202	ATSI	273	332	Base Case	0	17.5	-	6.39	0	0.00%	0.00%	0.00%
2397 243248 05BARODA	138	246996 05PLETCH	138 1	243248	05BARODA	246996	05PLETCH		1 138	205	AEP	205	205	Base Case	0	13.1		6.38	0	0.06%	0.06%	0.02%
2398 247370 05MUSKNG1A	138	247371 05MUSKNG1B	138 Z1	247370	05MUSKNG1A	247371	05MUSKNG1B	Z1	138	205	AEP	766	898	Base Case	0	48.7	-	6.36	0	-0.02%	-0.02%	0.11%
2399 243241 05ALBION	138	255164 17NORTHPORT	138 1	243241	05ALBION	255164	17NORTHPORT		1 138	205/217	AEP/NIPS	148	181	Base Case	0	-9.4	-	6.34	0	-0.04%	-0.04%	-0.04%
2400 243265 05COREY	138	243346 0.5MOTTV	138 1	243265	05COREY	243346	0.5MOTTV		1 138	205	AEP	185	185	Base Case	0	-11 7	-	6 32	0	0.02%	0.02%	0.03%
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	А			В	С	D	E	F	G	н і	J	К	L	М	N	0	Р	Q	R	S	T U
2401 242750 05PHILPOTT Z	138 247723 0	5PHILPOTT	138 1	242750	05PHILPOTT Z	247723	05PHILPOTT	1	138	205 AEP	101	145	Base Case	0	-6.4	-	6.33	0	0.00%	0.00%	0.00%
2402 242811 05SPRING	138 247819 0	5S.ABINGDN1	138 1	242811	05SPRING	247819	05S.ABINGDN1	1	138	205 AEP	167	240	Base Case	0	-10.5	-	6.32	0	0.00%	0.00%	-0.14%
2403 242733 05NEWHOP	138 242786 0	5S.PRINCETN	138 1	242733	05NEWHOP	242786	05S.PRINCETN	1	138	205 AEP	334	334	Base Case	0	21.1	-	6.3	0	-0.11%	-0.11%	-0.29%
2404 250022 08EVNDL1	138 250023 0	8EVNDL2	138 Z1	250022	08EVNDL1	250023	08EVNDL2	Z1	138	212 DEO&K	498	498	Base Case	0	-31.3	-	6.29	0	-0.01%	-0.01%	0.02%
2405 242988 05D0GW00	138 243042 0	5MTLLBR PK1	138 1	242988	05006000	243042	05MILLBR PK1	1	138	205 AEP	136	167	Base Case	0	8.5		6.28	0	0.05%	0.05%	0.13%
2406 238632 02COLLIN	138 240240 0	2NEORSD	138 1	238632	02COLLIN	240240	02NEORSD	1	138	202 ATST	194	237	Base Case	0	-12.2	-	6.27	0	-0.08%	-0.08%	0.02%
2407 242651 05GLENL2	138 242805 0	SHATCHR	138 1	242651	05GLENI2	242805	05HATCHB	1	138	205 AEP	334	334	Base Case	0	-20.9	_	6.27	0	-0.20%	-0.20%	-0.37%
2408 243509 05FISHPD	138 243587 0	SWILSNZ	138 1	243500	OSETSHED	243587	05WTLSNZ	1	138	205 AEP	223	310	Base Case	0	=1.4	-	6.26	0	-0.04%	-0.04%	0.00%
2400 243114 050TDACE	130 243507 0	ISW DOVE	130 1	243303	05CTDACD	243307	05W DOVE	1	120	205 AEP	225	335	Base Case	0	19		6.26	0	0.04%	0.04%	-0.10%
2409 243114 0331RASB	130 243133 0	EDIGUNO	130 1	243114	0500LLECE C	243133	OSW DOVE	1	130	205 AEP	207	107	Dase Case	0	10.2	-	6.20	0	0.46%	0.46%	-0.10%
2410 243262 03COLLEGE C	130 243304 0	SRICHMO	100 1	243202	OSCOLLEGE C	243304	OSRICHMO	1	130	205 AEF	107	107	base case	0	-10.3		6.25	0	-0.00%	-0.00%	-0.03%
2411 243241 USALBION	138 243288 0	ISEGE	138 1	243241	USALBION	243288	USEGE	1	138	205 AEP	187	202	Base Case	0	-11.7	-	6.24	0	0.07%	0.07%	0.06%
2412 243147 05WILDCRK SS	138 244566 0	ISLA RUE	138 1	243147	05WILDCRK SS	244566	USLA RUE	1	138	205 AEP	185	185	Base Case	0	11.5	-	6.23	0	-0.10%	-0.10%	-0.04%
2413 242759 05POPLAR	138 244192 0	5BALLS GAP	138 1	242759	05POPLAR	244192	05BALLS GAP	1	138	205 AEP	167	167	Base Case	0	10.4	-	6.23	0	0.06%	0.06%	0.02%
2414 242565 05BRADL2	138 242618 0	5DAMERN	138 1	242565	05BRADL2	242618	05DAMERN	1	138	205 AEP	195	220	Base Case	0	12.1	-	6.22	0	0.01%	0.01%	0.01%
2415 242800 05SISSON	138 246768 0	5LANHAM	138 1	242800	05SISSON	246768	05LANHAM	1	138	205 AEP	251	330	Base Case	0	-15.6	-	6.21	0	0.00%	0.00%	0.00%
2416 243016 05HANTHR	138 243768 0	5GOE	138 1	243016	05HANTHR	243768	05GOE	1	138	205 AEP	205	205	Base Case	0	12.7	-	6.19	0	0.00%	0.00%	0.00%
2417 239193 02CONAGR	138 239194 0	2CALPH	138 1	239193	02CONAGR	239194	02CALPH	1	138	202 ATSI	278	343	Base Case	0	-17.2		6.19	0	0.03%	0.03%	-0.01%
2418 239192 02WALGRN	138 239193 0	2CONAGR	138 1	239192	02WALGRN	239193	02CONAGR	1	138	202 ATSI	278	343	Base Case	0	-17.2	-	6.19	0	0.03%	0.03%	-0.01%
2419 242963 05HEDDSS	138 243153 0	5WMTVER	138 1	242963	05HEDDSS	243153	05WMTVER	1	138	205 AEP	220	255	Base Case	0	-13.6	-	6.18	0	0.10%	0.10%	0.06%
2420 247151 05YUKON	138 247153 0	5BERWIN	138 1	247151	05YUKON	247153	05BERWIN	1	138	205 AEP	296	413	Base Case	0	-18.3	-	6.17	0	-0.05%	-0.05%	0.04%
2421 243568 05SCIOTO	138 243569 0	5SCIPPO	138 1	243568	05SCIOTO	243569	05SCIPPO	1	138	205 AEP	246	246	Base Case	0	15.2	-	6.17	0	-0.02%	-0.02%	0.09%
2422 243209 05ROCKPT	765 243210 0	5SULLIVAN	765 1	243209	05ROCKPT	243210	05SULLIVAN	1	765	205 AEP	3859	3859	Base Case	0	237.2	-	6.15	0	0.46%	0.46%	0.03%
2423 243076 05CONESPREPZ	138 243488 0	5CONESVILLE	138 1	243076	05CONESPREPZ	243488	05CONESVILLE	1	138	205 AEP	446	601	Base Case	0	27.4	-	6.13	0	0.18%	0.18%	-0.08%
2424 238813 02HOYTDL	138 238942 0	2MAPLE	138 1	238813	02HOYTDL	238942	02MAPLE	1	138	202 ATSI	278	339	Base Case	0	17	-	6.11	0	-1.06%	-1.06%	-0.05%
2425 243265 05COREY	138 243299 0	5HYDRAMATIC	138 1	243265	05COREY	243299	05HYDRAMATIC	1	138	205 AEP	251	251	Base Case	0	15.3	-	6.08	0	0.01%	0.01%	0.01%
2426 242611 05COALFK	138 242828 0	5TENMIL	138 1	242611	05COALFK	242828	05TENMIL	1	138	205 AEP	219	223	Base Case	0	13.3	-	6.08	0	0.03%	0.03%	-0.15%
2427 243270 05CROSSS	138 247420 0	SCROSS ST Z	138 1	243270	05CROSSS	247420	05CROSS ST Z	1	138	205 AEP	164	180	Base Case	0	-10	-	6.07	0	0.00%	0.00%	0.00%
2428 243502 05E, BROAD	138 246765 0	50UTERB	138 1	243502	05E.BROAD	246765	050UTERB	1	138	205 AEP	240	309	Base Case	0	-14.5	-	6.03	0	0.02%	0.02%	0.00%
2429 246220 05SWITCHB BP	138 247029 0	5HORSPN	138 1	246220	05SWITCHB BP	247029	05HORSPN	1	138	205 AEP	295	295	Base Case	0	17.8		6.03	0	0.00%	0.00%	-0.30%
2430 246220 05SWITCHB BP	138 247008 0	SCLARKB	138 1	246220	05SWITCHB BP	247008	05CLARKB	1	138	205 AEP	295	295	Base Case	0	-17.8	-	6.03	0	0.00%	0.00%	-0.30%
2431 238544 022SH 3	138 238692 0	2ASH FAST	138 1	238544	0225H 3	238692	02ASH EAST	1	138	202 2051	273	338	Base Case	0	16.5	_	6.03	0	0.00%	0.00%	0.00%
2432 242692 05KEVWOD	138 242693 0	SKEVW99	138 1	242692	05KEVWOD	242693	OSKEVWSS	1	138	205 AFP	158	180	Base Case	0	-9.5	-	6.05	0	0.00%	0.00%	0.00%
2432 242092 05KETWOD	130 242055 0	SUPDIAN ON	120 1	242052	05 COMEDTON 7	242055	OSHEDIAN ON	1	120	205 AEP	205	201	Dase Case	0	12.3	-	6	0	0.18%	0.00%	-0.05%
2435 245115 0530MERION 2	130 230032 0	OREKLAN SW	100 1	243113	0350MERION 2	24//3/	03PPP011	1	120	203 AEr	205	204 E00	Base Case	0	12.5		E 00	0	0.10%	0.10%	-0.03%
2434 238732 02FOAQII	130 239032 0	2PDBQII	120 1	230732	02FUAQII	239032	OZPOBULI	1	130	202 AISI	420	322	Base Case	0	23.3		5.99	0	0.15%	0.19%	0.02%
2435 239078 02RIAN	138 239158 0	ZW.MED	138 1	239078	02RIAN	239138	OZW.MED	1	138	202 ATS1	233	282	Base Case	0	-13.9	-	5.98	0	-0.05%	-0.05%	-0.04%
2436 243339 05MEADOW	138 243357 0	5PENDLETON1	138 1	243339	05MEADOW	243357	05PENDLETONI	1	138	205 AEP	185	185	Base Case	0	-11.1	-	5.98	0	-0.01%	-0.01%	-0.01%
2437 242608 05CLYTR1	138 242610 0	ISCLYTR3	138 Z1	242608	05CLYTR1	242610	05CLYTR3	Z1	138	205 AEP	329	361	Base Case	0	19.6	-	5.97	0	0.04%	0.04%	-0.20%
2438 253044 09MECHAN	138 253245 0	9EAGLE	138 1	253044	09MECHAN	253245	09EAGLE	1	138	209 DAY	221	272	Base Case	0	-13.2		5.95	0	0.10%	0.10%	0.03%
2439 242937 05KAMMER	345 247832 0	5LAMPING	345 1	242937	05KAMMER	247832	05LAMPING	1	345	205 AEP	971	971	Base Case	0	57.7	-	5.94	0	1.51%	1.51%	-0.21%
2440 238913 02LRCRQ2	138 239112 0	2LRCRQ1	138 ZB	238913	02LRCRQ2	239112	02LRCRQ1	ZB	138	202 ATSI	2500	2500	Base Case	0	-148.4	-	5.94	0	0.06%	0.06%	-0.03%
2441 238712 02FAYET	138 239351 0	2EASTFAYT	138 1	238712	02FAYET	239351	02EASTFAYT	1	138	202 ATSI	221	262	Base Case	0	13.1	-	5.93	0	0.05%	0.05%	0.00%
2442 238525 02AD Q-4	138 238916 0	2LRN Q4	138 1	238525	02AD Q-4	238916	02LRN Q4	1	138	202 ATSI	176	229	Base Case	0	10.4	-	5.93	0	-0.03%	-0.03%	-0.03%
2443 250102 08SOCLVL	138 250111 0	8TP5483	138 1	250102	08SOCLVL	250111	08TP5483	1	138	212 DEO&K	298	298	Base Case	0	-17.6	-	5.9	0	-0.05%	-0.05%	-0.03%
2444 247000 05YELLOW CK1	138 247001 0	5YELLOW CK2	138 Z1	247000	05YELLOW CK1	247001	05YELLOW CK2	Z1	138	205 AEP	747	747	Base Case	0	44.1	-	5.9	0	0.06%	0.06%	0.10%
2445 243289 05ELCONA	138 243290 0	5ELCONZ	138 1	243289	05ELCONA	243290	05ELCONZ	1	138	205 AEP	251	335	Base Case	0	-14.8	<u></u>	5.9	0	0.00%	0.00%	0.00%
2446 238652 02DARROW	138 238814 0	2HUDMUN	138 1	238652	02DARROW	238814	02HUDMUN	1	138	202 ATSI	190	225	Base Case	0	-11.2	-	5.9	0	-0.02%	-0.02%	-0.03%
2447 243259 05CNTRVL	138 243344 0	5MODOC	138 1	243259	05CNTRVL	243344	05MODOC	1	138	205 AEP	185	185	Base Case	0	-10.9	-	5.87	0	-0.03%	-0.03%	-0.03%
2448 238703 02ESPRNG	138 239278 0	2BRDVIE	138 1	238703	02ESPRNG	239278	02BRDVIE	1	138	202 ATSI	160	192	Base Case	0	-9.4	-	5.87	0	-0.04%	-0.04%	-0.02%
2449 238716 02FIRSTN	138 239083 0	2SAKRON	138 1	238716	02FIRSTN	239083	02SAKRON	1	138	202 ATSI	196	210	Base Case	0	-11.4	-	5.84	0	0.06%	0.06%	0.06%
2450 239013 02NSQ-15	138 239331 0	2NASHRING	138 1	239013	02NSQ-15	239331	02NASHRING	1	138	202 ATSI	273	332	Base Case	0	-15.9		5.83	0	0.08%	0.08%	-0.02%
2451 242577 05CARB 8	138 242579 0	5CARBMA	138 1	242577	05CARB 8	242579	05CARBMA	1	138	205 AEP	205	205	Base Case	0	-11.9	-	5.82	0	-0.01%	-0.01%	-0.01%
2452 247150 05FARADAY	138 247160 0	5BEARWA	138 1	247150	05FARADAY	247160	05BEARWA	1	138	205 AEP	296	413	Base Case	0	17.2	-	5.81	0	0.02%	0.02%	0.01%
2453 242561 05BOONSBORO	138 242641 0	5FOREST	138 1	242561	05BOONSBORO	242641	05FOREST	1	138	205 AEP	167	240	Base Case	0	-9.7	-	5.81	0	-0.01%	-0.01%	0.51%
2454 238619 02CT. 011	138 240346 0	2GROVWD011	138 27.	238610	02CT 011	240346	02GROVWDO11	21.	138	202 ATST	273	530	Base Case	0	-15.8	_	5.01	0	0.00%	0.00%	0.00%
2455 242599 05CINDER	138 242810 0	ISSPRIG2	138 1	242599	05CINDER	242810	05SPRIG2	1	138	205 AEP	296	369	Base Case	0	17.2	-	5.0	0	-0.04%	-0.04%	-0.08%
2456 243259 05CNTRVI	138 243262 0	SCOLLEGE C	138 1	243250	05CNTRVL	243262	05COLLEGE C	1	130	205 AEP	185	185	Base Case	0	10 7		5 70	0	-0.05%	-0.05%	-0.04%
2457 245476 05000 DV24	138 243202 0	SDUNTONT AVE	138 2	243239	OSDOR DE 24	243202	OSDUNTONI APP	1	120	205 AEP	202	LOJ VE1	Base Case	0	10.7		5.79	0	0.03%	0.03%	0.04%
2458 243218 05R0B PR34	24//90 0	SCORENC	245 0	2434/0	05RUD PR34	241190	05000010NLAKE	2	245	205 AEP	323	431	Dase Case	0	10./	_	5.76	0	0.02%	0.02%	0.03%
2430 243218 USDESUTU	345 243232 0	JOSUKENS	343 Z	243218	USDESUTO	243232	UDSURENS	2	345	205 AEP	971	971	base Case	0	56	-	5.76	U	0.03%	0.03%	0.39%
2459 242/03 05LEON A	138 242790 0	55.BUFFALO	138 1	242703	USLEON A	242790	UDS.BUFFALO		138	205 AEP	296	296	Base Case	0	-17.1	-	5.76	0	0.04%	0.04%	0.21%
240U 243287 05E.ELKHART	138 247541 0	50SOLO2	138 1	243287	USE.ELKHART	247541	U5OSOLO2	1	138	205 AEP	205	284	Base Case	0	11.8	-	5.75	0	0.04%	0.04%	0.02%

	A		В	C	D	E	F	G	H I	J	К	L	М	N	0	Р	Q	R	S	T U
2461 238959 02MFLDQ4	138 238973 02MX Q-4	138 1	238959	02MFLDQ4	238973 0	2MX Q-4	1	138	202 ATSI	265	316	Base Case	0	-15.2	-	5.74	0	-0.14%	-0.14%	0.05%
2462 238960 02MIDW K	138 239165 02WAUSEO	138 1	238960	02MIDW K	239165 0	2WAUSEO	1	138	202 ATSI	158	190	Base Case	0	9.1	-	5.74	0	0.08%	0.08%	0.01%
2463 239192 02WALGRN	138 240988 02SHELBY FS+	138 1	239192	2 02WALGRN	240988 0	2SHELBY FS+	1	138	202 ATSI	278	343	Base Case	0	16	-	5.74	0	0.03%	0.03%	-0.01%
2464 238720 02FMCQ13	138 238726 02FMQ13H	138 1	238720	02FMCQ13	238726 0	2FMQ13H	1	138	202 ATSI	103	133	Base Case	0	5.9	-	5.73	0	0.00%	0.00%	0.00%
2465 243918 05ELDERBERRY	345 244130 05ST.JOE CTR	345 1	243918	05ELDERBERRY	244130 0	5ST.JOE CTR	1	345	205 AEP	9999	9999	Base Case	0	-570.2	-	5.7	0	-0.36%	-0.36%	-0.36%
2466 243243 05ANDCT	138 249781 08LAPLJT	138 1	243243	3 05ANDCT	249781 C	8LAPLJT	1	138	205/208 AEP/DEI	136	143	Base Case	0	7.7	-	5.69	0	-0.01%	-0.01%	-0.02%
2467 239935 02MARKWEST	138 239943 02MKWEST2	138 1	239935	02MARKWEST	239943 0	2MKWEST2	1	138	202 ATSI	312	380	Base Case	0	-17.7	-	5.66	0	-0.68%	-0.68%	0.05%
2468 243073 05PATRT8	138 246273 05THIVENR SS	138 1	243073	05PATRT8	246273 0	5THIVENR SS	1	138	205 AEP	95	95	Base Case	0	-5.4	-	5.66	0	0.00%	0.00%	0.00%
2469 249992 08CDRVL1	138 250137 080BANNV	138 1	249992	2 08CDRVL1	250137 0	80BANNV	1	138	212 DEO&K	291	291	Base Case	0	16.5		5.66	0	0.03%	0.03%	0.03%
2470 243458 05HYATT	345 247741 05HYATT SW2	345 72	243458	3 05HYATT	247741 0	5HYATT SW2	7.2	345	205 AEP	1370	1503	Base Case	0	-77.5	-	5.66	0	0.35%	0.35%	0.19%
2471 238505 02DELTA	138 240842 02NFF	138 1	238505	02DELTA	240842 0	2NFF	1	138	202 ATST	278	343	Base Case	0	15.7	-	5.64	0	0.07%	0.07%	0.00%
2472 247019 05NEVILLE SS	138 247222 05DUPT S	138 1	247019	OSNEVILLE SS	247222 0	SDUPT S	1	138	205 AEP	223	310	Base Case	0	12 6	-	5 64	0	0.00%	0.00%	0.00%
2473 246399 05GLOBE MT 7	138 247373 05MUSKNG2A	138 711	246390	05GLOBE MT Z	247373 0	5MUSKNC2A	211	138	205 AFP	747	747	Base Case	0	-42 1	-	5.63	0	-0.10%	-0.10%	-0.06%
2474 243498 05DLAWAR2	138 245962 05DLAWAR3	138 72	243498	R OSDLAWAR2	245962 0	5DLAWAR3	72	138	205 AEP	670	747	Base Case	0	37.7	-	5.63	0	-0.05%	-0.05%	-0.01%
2475 242963 054FDDSS	138 243011 05EULTON	138 1	243456	3 05HEDDSS	243011 0	5 FILL TON	1	138	205 AEP	191	250	Base Case	0	10.7	-	5.63	0	0.10%	0.00%	0.06%
2475 242903 05MEDD33	345 248003 06D0E530	245 1	242903	0.5MADOUT	249002 0	SPOR STOR	1	245	205 AEF	191	250	Base Case	0	-54.2		5.02	0	-0.28%	-0.28%	-0.55%
2470 242956 05MARQ01	128 220260 02DTCULT	120 1	242930	CONVEDCU	230260 0	ODOE550	1	120	200/200 AEF/OVEC	216	264	Dase Case	0	-54.5		5.02	0	0.00%	0.00%	0.00%
2477 238530 UZAIERSV	130 239209 02RICHLU	120 1	230330	02DBO_14	2392090	2RICHLJ	1	120	202 AISI	210	204	Base Case	0	-15.2	_	5.62	0	0.00%	0.00%	0.00%
2470 230037 U2DBU-14	130 230/11 UZEITP14	120 1	238037	05CAMDIM	230/11	EDILOTED		100	202 ATS1	2/3	332	Dase Case	0	-13.3		5.02	0	0.00%	0.00%	0.00%
2479 242373 03CAMDLM	138 242781 USRUSTBR	130 1	242575	D OSCAMDLM	2427610	SRUSIBR	1	130	205 AEP	195	220	Base Case	0	14 4	-	5.62	0	0.00%	0.00%	0.00%
2480 243253 05BLUFFP	138 243362 USRANDOL	138 1	243253	3 05BLUFFP	243362 0	SRANDOL	1	138	205 AEP	257	359	Base Case	0	-14.4	-	5.61	0	0.01%	0.01%	0.04%
2481 238976 02N MED	345 239122 02STAR	345 1	238976	02N MED	239122 0	2STAR	1	345	202 ATSI	1413	1742	Base Case	0	-79	-	5.59	0	1.42%	1.42%	0.49%
2482 243301 05GRANGE	138 243385 05TWIN B	138 1	243301	05GRANGE	243385 0	5TWIN B	1	138	205 AEP	296	361	Base Case	0	16.4		5.55	0	-0.02%	-0.02%	-0.04%
2483 242510 05BAKER	765 242523 05BAKER	345 1	242510	05BAKER	242523 0	5BAKER	1	765/345	205 AEP	1587	1752	Base Case	0	-87.8	-	5.53	0	-0.34%	-0.34%	-0.68%
2484 243875 05SOFTSH	138 246918 05BONNYM	138 1	243875	5 05SOFTSH	246918 0	5BONNYM	1	138	205 AEP	369	369	Base Case	0	20.4	-	5.52	0	0.04%	0.04%	0.04%
2485 238856 02KH Q-3	138 238858 02KHTPQ3	138 1	238856	5 02KH Q-3	238858 0	2KHTPQ3	1	138	202 ATSI	355	434	Base Case	0	-19.6	-	5.52	0	0.00%	0.00%	0.00%
2486 239132 02TALMDG	138 239170 02WESTGT	138 1	239132	2 02TALMDG	239170 0	2WESTGT	1	138	202 ATSI	278	287	Base Case	0	-15.3		5.51	0	0.05%	0.05%	-0.01%
2487 242583 05CATAWB	138 242694 05KIMBAL	138 1	242583	3 05CATAWB	242694 0	5KIMBAL	1	138	205 AEP	205	205	Base Case	0	11.3	-	5.51	0	0.12%	0.12%	0.27%
2488 243044 05MILLWO	138 247278 05MILL1Z	138 Z1	243044	1 05MILLWO	247278 0	5MILL1Z	Z1	138	205 AEP	164	178	Base Case	0	-9	-	5.5	0	0.00%	0.00%	0.00%
2489 242625 05DINGES	138 242726 05MUDFRK	138 1	242625	5 05DINGES	242726 0	5MUDFRK	1	138	205 AEP	251	309	Base Case	0	13.8	-	5.49	0	-0.07%	-0.07%	-0.12%
2490 242932 05CANTNC	345 242943 05SCANTO	345 1	242932	2 05CANTNC	242943 C	5SCANTO	1	345	205 AEP	1409	1409	Base Case	0	-77.1	-	5.47	0	-0.37%	-0.37%	0.49%
2491 243497 05DELANO	138 246980 05DELAN8	138 1	243497	05DELANO	246980 0	5DELAN8	1	138	205 AEP	200	254	Base Case	0	10.9	-	5.46	0	0.00%	0.00%	0.00%
2492 243288 05EGE	138 243326 05LAOTTO	138 1	243288	05EGE	243326 0	5LAOTTO	1	138	205 AEP	251	335	Base Case	0	-13.7	-	5.45	0	0.07%	0.07%	0.06%
2493 243885 05THORSS	138 247714 05BROAD RUN	138 1	243885	5 05THORSS	247714 0	5BROAD RUN	1	138	205 AEP	257	360	Base Case	0	14	-	5.45	0	0.00%	0.00%	0.00%
2494 243141 05WARNER	138 245697 05TORREY2	138 1	243141	05WARNER	245697 0	5TORREY2	1	138	205 AEP	205	284	Base Case	0	11.1	-	5.4	0	0.27%	0.27%	-0.04%
2495 250093 08REDBK2	138 250103 08TBSC01	138 1	250093	08REDBK2	250103 0	8TBSCO1	1	138	212 DEO&K	332	332	Base Case	0	17.9	-	5.39	0	-0.05%	-0.05%	-0.05%
2496 246754 05FOWLER	345 246756 05FRCS-2	345 1	246754	1 05FOWLER	246756 0	5FRCS-2	1	345	205 AEP	1001	1503	Base Case	0	-53.9	-	5.39	0	-0.03%	-0.03%	-0.03%
2497 243278 05DESOTO	138 243340 05MEDFOR	138 1	243278	05DESOTO	243340 0	5MEDFOR	1	138	205 AEP	187	240	Base Case	0	10.1	-	5.39	0	0.02%	0.02%	-0.03%
2498 243284 05DUPONT	138 243366 05ROB PK12	138 1	243284	1 05DUPONT	243366 0	5ROB PK12	1	138	205 AEP	219	255	Base Case	0	11.8	-	5.38	0	-0.09%	-0.09%	-0.06%
2499 243207 05GRNTWN	765 255204 17REYNOLDS	765 1	243207	05GRNTWN	255204 1	7REYNOLDS	1	765	205/217 AEP/NIPS	2669	2669	Base Case	0	-143.6	-	5.38	0	-0.65%	-0.65%	-0.54%
2500 243575 05ST.CLR	138 243876 05ST.CXX	138 SR	243575	5 05ST.CLR	243876 0	5ST.CXX	SR	138	205 AEP	191	229	Base Case	0	10.3	-	5.37	0	0.05%	0.05%	-0.03%
2501 244230 05SUNDAY SS	138 245420 05TRIMBLE	138 1	244230	05SUNDAY SS	245420 0	5TRIMBLE	1	138	205 AEP	158	183	Base Case	0	8.5	-	5.36	0	0.00%	0.00%	0.00%
2502 245426 05BULLIT ST2	138 247846 05BULLIT ST1	138 Z1	245426	05BULLIT ST2	247846 0	5BULLIT ST1	Z1	138	205 AEP	586	683	Base Case	0	-31.4	-	5.35	0	-0.01%	-0.01%	-0.10%
2503 238607 02CARLIL	345 238976 02N MED	345 1	238607	02CARLIL	238976 0	2N MED	1	345	202 ATSI	1560	1900	Base Case	0	83.5	-	5.35	0	-1.60%	-1.60%	-0.54%
2504 238783 02HARDIN	345 238821 02INLAND	345 1	238783	02HARDIN	238821 0	2INLAND	1	345	202 ATSI	1555	1892	Base Case	0	83.1	-	5.34	0	-0.46%	-0.46%	0.16%
2505 250011 08DERPK1	138 250115 08TP7482	138 1	250011	08DERPK1	250115	8TP7482	1	138	212 DEO&K	266	266	Base Case	0	14.2	22	5.33	0	0.00%	0.00%	0.00%
2506 250002 08COOPER	138 250115 08тр7482	138 1	250002	2 08COOPER	250115	8TP7482	1	138	212 DE0.5K	266	266	Base Case	0	-14.2		5.33	0	0.00%	0.00%	0.00%
2507 245491 05BABBTT3-4	138 246177 05ANGUTN1-2	138 2	245491	05BABBIT3-4	246177 0	5ANGUTN1-2	2	138	205 AEP	996	996	Base Case	0	53.1	_	5.33	0	0.00%	0.00%	0.00%
2508 245491 05BABBIT3-4	138 246177 05ANGUIN1-2	138 1	245491	05BABBIT3-4	246177 0	5ANGUIN1-2	1	138	205 AEP	996	996	Base Case	0	53.1	-	5.33	0	0.00%	0.00%	0.00%
2509 246407 05CARIN CRK2	138 247792 05FTFLDS CPK	138 1	246405	05CABIN CRK2	247792 0	SETELDS CDK	1	138	205 AEP	729	720	Base Case	0	-38.8	-	5.33	0	-0.09%	-0.09%	-0.17%
2510 242941 050HTOCT	345 243454 05BTTELDS CRR	345 1	240407	050HIOCT	243454 0	SRIXRY	1	2/15	205 AFP	1400	1869	Base Case	0	74 0	_	5 32	0	0.36%	0.36%	-0.16%
2511 242600 05CT VTD2	139 242610 05ct VTD2	120 71	242941	05011001	240404	SCI VTD3	71	120	205 AEF	207	1000	Base Case	0	-15 2		5 33	0	0.30%	0.30%	0.40%
2512 230145 020EDUTNE	130 232010 UJCHIRS	139 1	242005	S OODEDUTME	230720 0	20EDVDC	1 1	120	200 AEF 202 Amor	1.60	100	Base Case	0			5.32	0	0.05%	0.09%	0.40%
2512 239143 UZREFVINE	120 220040 02 TDD011	120 1	239143	02ILEEVINE	2391300	2 100011	1	120	202 ATOT	100	21.0	Dase Case	0	-0.5	-	5.51	0	0.00%	0.00%	0.00%
2515 230030 U201Q-11 2514 239500 03555V	130 230040 UZUKDUII	120 1	230030	02010-11	220040	21EMO V		138	202 AISI 202 Amor	205	303	Dase Case	0	10 0	-	5.3	0	-0.00%	-0.00%	-0.04%
2514 230309 UZFREI	130 230004 UZLEMU K	120 1	238509	020UNDOV	230884	2 DEPIO K	1 1	138	202 ATS1	241	292	Dase Case	0	11.0		5.3	0	-0.03%	-0.03%	-0.04%
2515239108 U2SHNKOK	130 2392/9 UZCONCST	120 1	239108	OFUNC DK	2392790	ELDONWOOD 22	1	138	202 AT51	220	208	Dase Case	0	11.0	-	5.29	0	-0.23%	-0.23%	-0.04%
2510 243021 U5HNG RK	130 243968 U5IRONWOODSS	138 1	243021	USHNG RK	243968 0	SIKONWOODSS		138	205 AEP	223	310	Base Case	0	-11.8	-	5.28	U	0.00%	0.00%	-0.01%
251/238511 02GMC-J	138 239269 02RICHLJ	138 1	238511	UZGMC-J	239269 0	ZKICHLJ	1	138	202 ATSI	216	264	Base Case	0	-11.4	-	5.27	0	0.00%	0.00%	0.00%
2518 242650 05GLENL1	138 242666 05HAZELH	138 1	242650	USGLENL1	242666 0	SHAZELH	1	138	205 AEP	134	169	Base Case	0	-7.1	-	5.26	0	0.07%	0.07%	0.29%
2519 239045 02PN Q-1	138 239047 02PN TP	138 1	239045	U2PN Q-1	239047 0	2PN TP	1	138	202 ATSI	265	316	Base Case	0	13.9	-	5.26	0	0.00%	0.00%	0.00%
2520 242671 05HOPKIN	138 247242 05CHAPSS	138 1	242671	05HOPKIN	247242 0	5CHAPSS	1	138	205 AEP	389	559	Base Case	0	20.4	-	5.25	0	0.03%	0.03%	-0.17%

		A		В	C	D	E	F	G	Н	1	J	К	Ľ.	М	N	0	Р	Q	R	S	T U
2521 253006 09BATH	345	253027 09GREENE	345 1	253006	09BATH	253027	09GREENE		1 345	5 209	DAY	1255	1374	Base Case	C	-65.7		5.24	0	0.48%	0.48%	0.36%
2522 241926 02ASTOR014	138	241930 02AVO4	138 1	241926	02ASTORO14	241930	02AV04		1 138	3 202	ATSI	273	332	Base Case	C	-14.3	-	5.22	0	0.14%	0.14%	0.00%
2523 238773 02GTO-13	138	238794 02HDG013	138 1	238773	3 02GTO-13	238794	02HDG013		1 1.38	3 202	ATSI	273	332	Base Case	C	-14.3	-	5.22	0	0.06%	0.06%	0.01%
2524 242924 05HANG B	765	242929 05NPBOCT	765 1	242924	LOSHANG B	242920	05NPROCT	-	1 765	205	AEP	4142	4142	Base Case	0	213.9	-	5 16	0	-2 29%	-2 29%	-1 13%
2525 243205 05COOK	765	243215 05COOK	345 4	243205	05000K	243215	050000		4 765/345	205	AEP	1740	1868	Base Case	0	-89.8	_	5.16	0	-0.05%	-0.05%	-0.47%
2526 242661 05HATES1	138	242794 05640CKM	138 1	243203	05477891	240210	05SHACKM		1 139	205	AFD	296	302	Base Case	0	15.3	_	5.16	0	-0.06%	-0.06%	-0.17%
2527 250022 08ERET D1	120	250041 08HAMITIN	120 1	250022	0.09EDELD1	2500/1	0.9 UAMT TH		1 120	203	DEOCK	200	200	Base Case	0	15.0		5.10	0	-0.00%	-0.00%	0.00%
2527 250052 06FRF1D1	130	2550041 USHAMLIN	130 I.	230032	OFOT THE	250041	17DEVNOLDC		1 346	212	DEO ANTRO	2.50	1 4 1 4	Base Case	0	50		5.15	0	-0.01%	0.01/0	0.00%
2520 243229 050LIVE	345	255205 17REINOLDS	345 I	243229	OSOLIVE	255205	17REINOLDS		2 245	205/217	ALP/NIPS	971	1414	Base Case		-50	_	5.15	0	0.20%	0.20%	0.43%
2529 243229 030LIVE	120	242206 OFWARDER	120 1	243223	OSULIVE	233200	17REINOLDS		2 343	203/21/	ALF/NIFS	971	1419	Base Case	0	-50	_	5.13	0	0.20%	0.20%	0.43%
2530 243305 05HACIEN	138	243306 USHARPER	138 1	243303	OSHACIEN	243306	USHARPER		1 138	205	ALP	219	255	Base case		11.2	-	5.13	0	-0.05%	-0.05%	-0.02%
2531 243352 05NTRDAM	138	243370 05S.BEND1	138 1	243352	05NTRDAM	243370	05S.BENDI	-	1 138	3 205	AEP	257	330	Base Case	C	13.1	-	5.09	0	-0.09%	-0.09%	-0.06%
2532 250122 08WARRN1	138	250123 08WARRN2	138 Z1	250122	2 08WARRN1	250123	08WARRN2	Z1	138	3 212	DEO&K	275	275	Base Case	C) 14	-	5.08	0	0.01%	0.01%	0.02%
2533 243206 05DUMONT	765	243207 05GRNTWN	765 1	243206	5 05DUMONT	243207	05GRNTWN		1 765	5 205	AEP	4558	5001	Base Case	C	-231.4	-	5.08	0	1.38%	1.38%	2.35%
2534 246885 05MOORE HOLW	138	246915 05PRINCESS	138 1	246885	5 05MOORE HOLW	246915	05PRINCESS		1 138	3 205	AEP	296	413	Base Case	C	15	.=	5.08	0	0.02%	0.02%	0.03%
2535 238684 02EASTLK	345	239358 02GLENWILLOW	345 1	238684	02EASTLK	239358	02GLENWILLOW		1 345	5 202	ATSI	1542	1878	Base Case	C	-78.2	-	5.07	0	-0.68%	-0.68%	0.30%
2536 238818 02ILQ-11	138	239118 02SSPQ11	138 1	238818	3 02ILQ-11	239118	02SSPQ11		1 138	3 202	ATSI	273	332	Base Case	C	13.8	-	5.05	0	-0.06%	-0.06%	0.02%
2537 238868 02KPQ-13	138	238870 02KY Q-3	138 1	238868	3 02KPQ-13	238870	02KY Q-3		1 138	3 202	ATSI	347	423	Base Case	C	17.4	-	5.02	0	0.00%	0.00%	0.00%
2538 242957 05BASEL8	138	243080 05RILEYC	138 1	242957	05BASEL8	243080	05RILEYC		1 138	3 205	AEP	140	140	Base Case	C) -7	-	5.02	0	0.00%	0.00%	0.00%
2539 250004 08CRNEL1	138	250005 08CRNEL4	138 Z1	250004	08CRNEL1	250005	08CRNEL4	Z1	138	3 212	DEO&K	309	349	Base Case	C	15.5	-	5.01	0	0.00%	0.00%	0.00%
2540 238512 02GMC-K	138	239070 02RICHLD	138 1	238512	02GMC-K	239070	02RICHLD		1 138	3 202	ATSI	216	229	Base Case	C	-10.8	-	5	0	0.00%	0.00%	0.00%
2541 243459 05KIRK	345	243855 05JUG ST	345 1	243459	05KIRK	243855	05JUG ST		1 345	5 205	AEP	958	1123	Base Case	C	-47.6	-	4.97	0	0.36%	0.36%	-0.08%
2542 242518 05BROADF	500	242511 05BROADF	765 4	242518	05BROADF	242511	05BROADF		4 500/765	205	AEP	1710	1920	Base Case	C	84.9	-	4.96	0	-1.29%	-1.29%	0.12%
2543 243235 0523RD	138	243395 05WESTINGHS	138 1	243235	0523RD	243395	05WESTINGHS		1 138	3 205	AEP	205	205	Base Case	C	10.1	-	4.95	0	0.01%	0.01%	0.00%
2544 243857 05COFFEE	138	246229 05REUSENS2	138 1	243857	05COFFEE	246229	05REUSENS2		1 138	3 205	AEP	167	220	Base Case	C	8.3	-	4.95	0	-0.01%	-0.01%	-0.23%
2545 239030 020TTAWA	138	239140 02TOUSNT	138 1	239030	02OTTAWA	239140	02TOUSNT		1 138	3 202	ATSI	235	288	Base Case	C	-11.6	-	4.94	0	-0.16%	-0.16%	-0.02%
2546 243281 05DRAGNZ	138	243385 05TWIN B	138 1	243281	05DRAGNZ	243385	05TWIN B	1	1 138	3 205	AEP	219	251	Base Case	C	10.8	-	4.94	0	-0.05%	-0.05%	-0.03%
2547 243338 05MCKINLEY3	138	244935 05MCKINLEY1	138 ZT	243338	05MCKINLEY3	244935	05MCKINLEY1	ZT	138	3 205	AEP	348	407	Base Case	C	-17.2	-	4.93	0	0.03%	0.03%	0.03%
2548 243512 05DIAMONDISS	138	246370 05HUNTLEY2	138 1	243512	05DIAMONDISS	246370	05HUNTLEY2		1 138	3 205	AEP	191	229	Base Case	C	-9.4	-	4.92	0	-0.01%	-0.01%	-0.02%
2549 243453 05BEATTY	345	243454 05BIXBY	345 1	243453	05BEATTY	243454	05BIXBY	1	1 345	5 205	AEP	1096	1203	Base Case	C	-53.6	_	4.89	0	1.30%	1.30%	0.45%
2550 242675 05HUFFMN	138	242848 05WILLGP	138 1	242675	05HUFFMN	242848	05WILLGP		1 138	3 205	AEP	296	398	Base Case	C	14.5	-	4.89	0	0.00%	0.00%	0.00%
2551 238867 02KPO-12	138	238869 02KY 0-1	138 1	238867	02KPO-12	238869	02KY 0-1		1 138	202	ATSI	355	434	Base Case	0	17.3	-	4.88	0	0.00%	0.00%	0.00%
2552 243141 05WARNER	138	245201 05BTT	138 1	243141	05WARNER	245201	05BTT		1 138	205	AEP	195	220	Base Case	0	9.5	-	4.87	0	0.00%	0.00%	0.00%
2553 243308 05HICKBY CK1	138	243350 05NICKER	138 1	243308	OSHICKBY CK1	243350	05NTCKER		1 138	205	AEP	164	180	Base Case	0	1 8	_	4 86	0	-0.02%	-0.02%	-0.02%
2554 238959 02MFLD04	138	239017 02NT 016	138 1	238950	02MFLD04	239017	02NT 016		1 139	203	ATST	265	316	Base Case	0	12.8	-	4 83	0	-0.02%	-0.02%	0.01%
2555 243381 05511MMTT	138	245511 05TNDUST PK2	138 1	243381	05SUMMIT	245511	05INDUST PK2		1 138	3 205	AFP	251	335	Base Case	0	-12.0	_	4.03	0	0.02%	0.02%	0.05%
2556 249577 097TMED	245	240591 091ND031 FR2	245 1	240577	097TMPD	2405011	OGMET DAT	1	1 245	203	DEOCK	1500	1500	Base Case	0	-72 6		4.03	0	0.00%	0.00%	0.50%
2557 250045 09HERDN1	120	250151 08HEDDAD	120 71	250045	OQUEDDN1	250151	OQUEDTAD	71	120	212	DEOGR	200	2/0	Base Case	0	-14.9	-	4.01	0	0.00%	0.00%	0.00%
2557 250045 OBREERNI	1 2 0	250031 08REBIAF	130 21	250045	00REDENI	250151	00REBIAF	21	100	212	DEOGK	309	J49 AEA	Base Case	0	10 5		4.01	0	0.00%	0.00%	0.00%
2550 230020 08ESTWD1	138	230021 USESTWDZ	138 21	250020	0.08ESTWDI	250021	08ESTWD2	21	1 120	212	DEO&K	406	454	Base Case		19.5		4.81	0	-0.04%	-0.04%	-0.04%
2559 238631 U2CNTRAL	138	238748 02GARDEN	138 1	238631	02CNTRAL	238748	02GARDEN		1 138	202	ATSI	157	196	Base Case		10.0	_	4.8	0	0.04%	0.04%	0.00%
2561 242240 05MTL 2N	130	250061 08MDWA12	130 1	250016	OFMERAR	230061	06MDWA12		1 130	212	DEO&A	200	200	Base Case		12.0	_	4.0	0	-0.05%	-0.05%	0.00%
2561 243342 USMILAN	138	24/16/ 05MICHN2	138 1	243342	05MILAN	24/16/	05MICHN2		1 138	205	AEP	167	245	Base Case	C C	8	-	4.79	0	0.00%	0.00%	0.00%
2562 243342 USMILAN	138	24/166 USMICHN1	138 1	243342	USMILAN	247166	USMICHN1	1 -	138	205	AEP	167	245	Base Case	C	8	-	4.79	0	0.00%	0.00%	0.00%
2503 238839 02JIQ-14	138	238849 U2JRDQ14	138 1	238839	UZJIQ-14	238849	UZJRDQ14		138	3 202	ATSI	265	316	Base Case	C	12.7	-	4.79	0	0.13%	0.13%	-0.05%
2504 242915 05STANVILLE2	138	243698 U5MORGFK	138 1	242915	USSTANVILLE2	243698	USMORGFK	-	138	205	AEP	223	310	Base Case	C	-10.7	-	4.78	0	0.00%	0.00%	0.1/%
2505 242546 05BAILS1	138	242547 05BAILS2	138 Z1	242546	U5BAILS1	242547	U5BAILS2	Z1	138	205	AEP	335	392	Base Case	C	-16	-	4.78	0	0.03%	0.03%	0.11%
2566 243390 05WAYNED	138	244935 05MCKINLEY1	138 1	243390	U5WAYNED	244935	U5MCKINLEY1	-	138	205	AEP	251	251	Base Case	C	-12		4.78	0	-0.05%	-0.05%	-0.02%
256/243464 05ADAMS	138	243571 05SEAMAN	138 1	243464	USADAMS	243571	USSEAMAN	-	138	3 205	AEP	296	413	Base Case	C	14.1	-	4.77	0	0.08%	0.08%	0.06%
2568 250084 08PARK1	138	250085 08PARK2	138 Z1	250084	08PARK1	250085	08PARK2	Z1	138	3 212	DEO&K	394	394	Base Case	C) -18.8	-	4.77	0	0.06%	0.06%	0.06%
2569 242805 05HATCHR	138	242806 05SPDWY	138 1	242805	05HATCHR	242806	05SPDWY	1	1 138	3 205	AEP	205	205	Base Case	C	9.8	-	4.77	0	0.00%	0.00%	0.00%
2570 243671 05BEAVER CR1	138	244688 05BEAVER CR2	138 ZP	243671	05BEAVER CR1	244688	05BEAVER CR2	ZP	138	3 205	AEP	348	369	Base Case	C	16.6		4.76	0	0.07%	0.07%	0.05%
2571 242539 05ANGLBR	138	242655 05GRASFK	138 1	242539	05ANGLBR	242655	05grasfk		1 138	3 205	AEP	158	183	Base Case	C	7.5	-	4.75	0	0.00%	0.00%	0.00%
2572 235205 01KRENDL	138	239099 02SENECA	138 1	235205	01KRENDL	239099	02SENECA		1 138	3 201/202	AP/ATSI	267	352	Base Case	C	12.7	-	4.75	0	0.68%	0.68%	-0.05%
2573 243001 05EZANEV	138	243074 05PHILO1	138 1	243001	05EZANEV	243074	05PHILO1	1	1 138	3 205	AEP	187	240	Base Case	C	-8.9	-	4.74	0	0.13%	0.13%	0.05%
2574 243229 050LIVE	345	274804 UNIV PK N;RP	345 1	243229	050LIVE	274804	UNIV PK N; RP	1	1 345	205/222	AEP/CE	971	971	Base Case	C	45.9		4.73	0	1.00%	1.00%	0.75%
2575 243239 05ROCKP WRK1	138	243785 05AKSTL	138 1	243239	05ROCKP WRK1	243785	05AKSTL		1 138	3 205	AEP	388	388	Base Case	C	18.3	-	4.73	0	0.00%	0.00%	0.00%
2576 243240 05ROCKP WRK2	138	243785 05AKSTL	138 1	243240	05ROCKP WRK2	243785	05AKSTL		1 138	3 205	AEP	388	388	Base Case	C	18.3	-	4.73	0	0.00%	0.00%	0.00%
2577 242809 05SPRIG1	138	246316 05STONE	138 1	242809	05SPRIG1	246316	05STONE	1	1 138	3 205	AEP	262	332	Base Case	C	12.4	-	4.72	0	0.09%	0.09%	0.03%
2578 239098 02SBRNQ4	138	239115 02SP Q-4	138 1	239098	02SBRNQ4	239115	02SP Q-4		1 138	3 202	ATSI	148	151	Base Case	C) -7	-	4.72	0	-0.19%	-0.19%	0.04%
2579 242574 05CABIN CRK1	138	242596 05CHESTR	138 1	242574	05CABIN CRK1	242596	05CHESTR		1 138	3 205	AEP	729	729	Base Case	C	-34.3	-	4.71	0	-0.07%	-0.07%	-0.19%
2580 243272 05DALEVI	138	243340 05MEDFOR	138 1	243272	05DALEVI	243340	05MEDFOR		1 138	3 205	AEP	187	233	Base Case	C	8.7	-	4.68	0	-0.02%	-0.02%	0.04%

		A		В	C	D	E	F	G	Н	L	J	К	Ĺ.	М	Ν	0	Р	Q	R	S	T U
2581 241901 02LALLENDORF	345	241949 AB1-107 POI	345 1	241901	02LALLENDORF	241949	9 AB1-107 POI	1	1 345	20	2 ATSI	9999	9999	Base Case	0	-465.9	-	4.66	0	-0.29%	-0.29%	-0.29%
2582 246912 05N MKT8	138	247035 05NMARSS	138 1	246912	05N MKT8	24703	5 05NMARSS	1	1 138	20	5 AEP	195	220	Base Case	0	-9.1	-	4.65	0	0.00%	0.00%	0.00%
2583 238839 02JTO-14	138	238860 02KTO-14	138 1	238839	02JTO-14	238860	02810-14	1	1 138	20	2 ATST	273	332	Base Case	0	-12.7	-	4.65	0	0.13%	0.13%	-0.05%
2584 249990 08BBOWN	138	250021 08ESTWD2	138 1	249990	08BROWN	25002	1 08ESTWD2	1	1 138	21	2 DEOSK	301	301	Base Case	0	1.4	-	4 64	0	0.04%	0.04%	0.04%
2585 238774 02GTO-14	138	238795 02HDG014	138 1	238774	026T0-14	23879	5 02HDG014	1	1 138	20	2 ATST	273	332	Base Case	0	-12 6	_	4 63	0	0.08%	0.08%	-0.01%
2586 238774 02CTO-14	138	238791 02400-14	138 1	230774	02010 14	23870	1 02400-14	1	1 139	20	2 7001	273	332	Base Case	0	12.0	-	4.63	0	0.08%	0.08%	-0.01%
2587 242661 05HATES1	120	242662 05441562	120 71	230774	02010 14	23075	OSUNTERS	71	1 1 20	20	5 AED	275	202	Base Case	0	15.5		4.00	0	0.05%	-0.05%	0.15%
2507 242001 USHALESI	130	242002 USHALES2	245 1	242001	AND 116 MADO	24200	2 UJHALESZ	1 1	1 345	20	5 AEF	0000	0000	Base Case	0	15.5	-	4.02	0	-0.03%	-0.03%	0.15%
2588 270139 AA2-116_1AP2	120	270140 AA2-116_PO1	345 I	270139	AAZ-110 TAPZ	270140	AA2-110_PUI	1	1 343	20	5 AEP	9999	9999	Base Case	0	-439.7	-	4.0	0	-0.12%	-0.12%	-0.20%
2509 244423 USJAMES RIVR	138	244446 USSOAPSTONE	138 1	244423	OSJAMES RIVR	24444	OSSOAPSTONE	1	1 138	20	D AEP	167	107	Base Case	0	1.7	-	4.58	0	-0.30%	-0.30%	-0.05%
2590 238623 02CLARK	138	239278 UZBRDVIE	138 1	238623	OZCLARK	239270	BUZBRDVIE	1	1 138	20	ZATSI	278	339	Base Case	U	-12.7	-	4.58	0	0.06%	0.06%	0.01%
2591 243252 05BIXLRT	138	243321 05KENDAL	138 1	243252	05BIXLRT	24332.	1 05KENDAL	1	1 138	20	5 AEP	251	335	Base Case	0	-11.5	-	4.58	0	-0.05%	-0.05%	-0.03%
2592 244935 05MCKINLEY1	138	244936 05MCKINLEY2	138 ZC	244935	05MCKINLEY1	244936	5 05MCKINLEY2	ZC	138	20	5 AEP	695	695	Base Case	0	-31.8	-	4.58	0	-0.02%	-0.02%	0.01%
2593 238544 02ASH_3	138	239182 02ZNQ-16	138 1	238544	02ASH_3	239182	2 02ZNQ-16	1	1 138	20	2 ATSI	275	333	Base Case	0	12.5	-	4.55	0	0.00%	0.00%	0.00%
2594 238542 02ASH_1	138	238543 02ASH_2	138 ZB	238542	02ASH_1	238543	3 02ASH_2	ZB	138	20	2 ATSI	999	999	Base Case	0	-45.4	-	4.55	0	0.18%	0.18%	-0.03%
2595 238864 02KNOX	138	239372 02HAGAN	138 1	238864	02KNOX	239372	2 02HAGAN	1	1 138	20	2 ATSI	278	339	Base Case	0	-12.6	-	4.53	0	0.13%	0.13%	0.00%
2596 243574 05SUNBURY SS	138	243583 05TRENT	138 1	243574	05SUNBURY SS	243583	3 05TRENT	1	1 138	20	5 AEP	285	361	. Base Case	0	-12.8	-	4.49	0	0.04%	0.04%	-0.01%
2597 253046 09MIAMI	138	253106 09NCARLI	138 1	253046	09MIAMI	25310	5 09NCARLI	1	1 138	20	9 DAY	301	374	Base Case	0	13.5	-	4.48	0	-0.03%	-0.03%	-0.04%
2598 242792 05SCOTSV	138	314746 4BREMO	138 1	242792	05SCOTSV	31474	5 4BREMO	1	1 138	205/34	5 AEP/DVP	167	167	Base Case	0	-7.5	-	4.48	0	0.30%	0.30%	0.65%
2599 242656 05GRASSH	138	242774 05ROANO2	138 1	242656	05GRASSH	242774	4 05ROANO2	1	1 138	20	5 AEP	240	251	Base Case	0	10.7	-	4.47	0	-0.05%	-0.05%	0.40%
2600 238523 02CHRYTE	138	240988 02SHELBY_FS+	138 1	238523	02CHRYTE	240988	8 02SHELBY_FS+	1	1 138	20	2 ATSI	278	343	Base Case	0	12.4	-	4.46	0	-0.03%	-0.03%	0.01%
2601 243509 05FISHRD	138	243582 05TRABUE	138 1	243509	05FISHRD	243582	2 05TRABUE	1	1 138	20	5 AEP	223	223	Base Case	0	9.9	-	4.46	0	-0.04%	-0.04%	0.00%
2602 238685 02EASTLK	138	241921 02ELQ1	138 1	238685	02EASTLK	241923	1 02ELQ1	1	1 138	20	2 ATSI	999	999	Base Case	0	44.6	-	4.46	0	-0.06%	-0.06%	0.02%
2603 242845 05WELCH	138	242854 05W.WELCH SS	138 1	242845	05WELCH	242854	4 05W.WELCH SS	1	1 138	20	5 AEP	251	251	Base Case	0	-11.2	-	4.45	0	0.00%	0.00%	0.00%
2604 243571 05SEAMAN	138	247035 05NMARSS	138 1	243571	05SEAMAN	24703	5 05NMARSS	1	1 138	20	5 AEP	223	223	Base Case	0	9.9	-	4.44	0	0.07%	0.07%	0.05%
2605 242521 05NAGEL	500	242532 05NAGEL	230 5	242521	05NAGEL	242532	2 05NAGEL	5	5 500/230	20	5 AEP	930	930	Base Case	0	41.1	-	4.42	0	-0.21%	-0.21%	-1.32%
2606 242566 05BROADF	138	242788 05SALTV1	138 2	242566	05BROADF	242788	05SALTV1	2	2 138	20	5 AEP	219	251	Base Case	0	-9.7	-	4.42	0	-0.17%	-0.17%	-0.27%
2607 242827 05TAZEWE	138	247029 05HORSPN	138 1	242827	05TAZEWE	24702	05HORSPN	1	1 138	20	5 AEP	334	334	Base Case	0	-14.7	-	4.41	0	0.00%	0.00%	-0.30%
2608 238790 02HCQ-13	138	239119 02SSPQ13	138 1	238790	02HCQ-13	239119	02SSPQ13	1	1 138	20	2 ATSI	273	332	Base Case	0	12	-	4.4	0	-0.05%	-0.05%	-0.01%
2609 239181 02ZNQ-15	138	239349 02MILCHM	138 1	239181	02ZNQ-15	239349	02MILCHM	1	1 138	20	2 ATSI	273	332	Base Case	0	-12	-	4.39	0	0.00%	0.00%	0.00%
2610 253352 AB1-169 MAIN	345	253353 AB1-169 1	345 1	253352	AB1-169 MAIN	253353	3 AB1-169 1	1	1 345	20	9 DAY	9999	9999	Base Case	0	-438.3	-	4.38	0	-0.27%	-0.27%	-0.27%
2611 253352 AB1-169 MAIN	345	253354 AB1-169 2	345 1	253352	AB1-169 MAIN	253354	4 AB1-169 2	1	1 345	20	9 DAY	9999	9999	Base Case	0	-438.3	-	4.38	0	-0.27%	-0.27%	-0.27%
2612 242835 05TRISTA	138	246919 05CHADWICK2	138 2	242835	05TRISTA	24691	05CHADWICK2	2	2 138	20	5 AEP	219	255	Base Case	0	9.6	-	4.38	0	0.09%	0.09%	0.05%
2613 242660 05H.RIDG	138	242743 05PARKHI	138 1	242660	05H.RIDG	242743	3 05PARKHI	1	1 138	20	5 AEP	146	167	Base Case	0	-6.4	-	4.36	0	-0.06%	-0.06%	-0.02%
2614 243341 05MIER	138	249800 08MIER	138 Z1	243341	05MIER	249800	08MIER	Z1	138	205/20	8 AEP/DEI	167	167	Base Case	0	-7.3	-	4.35	0	0.00%	0.00%	0.00%
2615 238710 02EYQ-14	138	238775 02GXQ-14	138 1	238710	02EYQ-14	238775	5 02GXQ-14	1	1 138	20	2 ATSI	339	405	Base Case	0	14.7	-	4.35	0	-0.15%	-0.15%	-0.02%
2616 242609 05CLYTR2	138	247870 05CLAYTR HY2	138 2	242609	05CLYTR2	247870	0 05CLAYTR HY2	2	2 138	20	5 AEP	120	151	Base Case	0	-5.2	-	4.35	0	-0.02%	-0.02%	-0.04%
2617 239145 02REPVINE	138	239739 02CROMWELL	138 1	239145	02REPVINE	23973	02CROMWELL	1	1 138	20	2 ATSI	233	282	Base Case	0	-10.1	-	4.34	0	0.00%	0.00%	0.00%
2618 250007 08CBSNT1	138	250014 08DNLSN1	138 1	250007	08CRSNT1	250014	4 08DNLSN1	1	1 138	21	2 DEO&K	266	266	Base Case	0	-11.5	-	4.33	0	0.05%	0.05%	0.08%
2619 243210 05SULLIVAN	765	247712 05SULLIVAN	345 2	243210	05SULLIVAN	247713	2 05SULLTVAN	2	2 765/345	20	5 AEP	2742	2865	Base Case	0	118.5	-	4.32	0	0.23%	0.23%	0.02%
2620 238608 02CARLIL	138	239279 02CONCST	138 1	238608	02CARLIL	23927	02CONCST	1	1 138	20	2 ATSI	220	268	Base Case	0	-9.5	-	4.32	0	-0.23%	-0.23%	-0.04%
2621 243299 05HYDRAMATTC	138	243345 05MOORPK	138 1	243299	05HYDRAMATIC	24334	5 05MOORPK	1	1 138	20	5 AEP	251	251	Base Case	0	10.8	-	4.31	0	0.01%	0.01%	0.01%
2622 238575 02BLUBET	138	239042 02PTDGON	138 1	238575	02BLUBEL	23904	2 02 PTDGON	1	1 139	20	2 ATST	177	233	Base Case	0	7.6	-	4 3	0	-0.15%	-0.15%	0.01%
2623 242987 05DEXTER	138	244439 05MEIGS SW22	138 21	242987	05DEXTER	24443	05METGS SW22	21	138	20	5 AEP	158	183	Base Case	0	6.8	-	4,29	0	0.00%	0.00%	0.00%
2624 243218 05DESOTO	345	243225 05KEYSTN	345 1	243218	05DESOTO	24322	5 05KEYSTN	1	1 345	20	5 AEP	897	897	Base Case	0	-38.4	-	4.29	0	-0.09%	-0.09%	-0.44%
2625 242682 05.11M BRANCH	138	247151 05YUKON	138 1	242682	05.TIM BRANCH	24715	05YUKON	1	1 138	20	5 AEP	296	413	Base Case	0	-12.6		4,26	0	-0.05%	-0.05%	0.04%
2626 243781 05MTTCHL FCD	138	246108 05KAMMER24	138 7.2	243781	05MITCHL FGD	24610	3 05KAMMER24	7.2	130	20	5 AEP	747	747	Base Case	0	-31 7	-	4 25	0	0.00%	0.00%	0.00%
2627 243781 05MITCHI FGD	138	246108 05KAMMER24	138 21	243781	05MITCHL FGD	246108	B 05KAMMER24	21	130	20	5 AEP	747	747	Base Case	0	-31 7		4 25	0	0.00%	0.00%	0.00%
2628 242578 05CARB 7	138	242836 05TURNE1	138 1	242579	05CARB Z	24283	5 05TURNE1	1	1 129	20	5 AEP	498	192	Base Case	0	-21 1	-	4 24	0	-0.02%	-0.02%	-0.01%
2629 243298 05GM-ETW	138	244489 05FOGWELT	138 2	242370	05GM-ETW	24448	0.5FOGWELL		2 130	20	5 AEP	226	226	Base Case	0	-9.6	-	4 24	0	0.00%	0.00%	0.00%
2630 243042 05MTLLBP PK1	138	245948 05MTTIBP PK2	138 71	243230	05MTLIBP DK1	245949	B OSMILLER PK2	71	130	20	5 AFP	210	255	Base Case	0	-9.3	-	4.23	0	-0.11%	-0.11%	-0.07%
2631 243011 05 THILDER PRI	139	243148 05WINDET	138 1	243042	05FILTON	240940	CONTROL PRZ	1	1 100	20	5 AFP	101	250	Base Case	0	-9.5	_	4.23	0	0.10%	0.11%	0.06%
2632 243268 05COVINT	138	247132 OSELLISM	139 1	243011	05COVNT	243140	OSPILIOPL	1	1 100	20	5 AFD	205	200	Base Case	0	-9 6		4.23	0	0.10%	0.10%	0.00%
2633 242026 05MATTO	100	246751 05VACCET	765 1	243200	05MALTO	24/13		1	1 7/5	20	5 AFD	A1 AD	1110	Base Case	0	172 /	-	4.22	0	-1 54%	_1 5 / 0/	-0.74%
2634 239543 023cH 2	120	220006 020DDNO2	100 L	230543	0276H 2	23000	COVROSEL	1	1 100	20	2 7001	110	151	Page Case	0	1/3.4	-	4.19	0	-4.54%	0.10%	-0.04%
2635 230006 02000002	130	230010 U23BKNU2	130 1	230043	02CDDNO2	233031		1	1 100	20	2 AIDI 2 ATCT	140	151	Pase Case	0	6.2	-	4.17	0	0.10%	0.19%	-0.04%
2636 239696 03ECEV -	120	239212 UZAUSTŲZ	120 1	239096	025BRNUZ	23921	CORTINA	1	1 120	20	2 ALOL	148	100	Base Case	0	0.2	-	4.1/	0	0.10%	0.19%	0.00%
2000 20000 UZECTI F	120	242520 05VENWO2	120 1	230000	OSDELANO	23009	OSKENNOS		1 100	20	5 AED	001	192	Bage Case	0	- 0. /	-	4.10	0	0.00%	0.00%	0.00%
2037 243497 USDELANU	130	24JJJU UJAENWUZ	130 L	243497	0 J DELANU	243530	O SKENWOZ		1 138	20	J AEP	200	254	Dase Case	0	8.3	-	4.14	0	0.00%	0.00%	0.00%
2639 242907 05CLAIBN	130	24/021 UDRENWUI	130 1	243370	05CDAIDN	24/02.	7 05THILVENEDOR	1	1 100	20	5 AFD	1.67	167	Pase Case	0	0.3	-	4.14	0	0.00%	0.00%	-0.05%
2640 242807 U35PUKN	130	24023/ USTHIVENERZZ	120 1	242807	055POKN	24023	OSTHIVENER22	71	138	20	J AEP	10/	101	Dase Case	0	0.9	-	4.12	0	0.05%	0.03%	-0.05%
2040 242901 USBIGGRC	TJQ	240943 USBIGKIZ	130 21	242961	NUBICCKC	24694	DINORTCKTZ	121	1 138	20	JALF	205	205	Dase Case	0	-8.4	-	4.11	0	0.00%	0.00%	0.00%

		A		В	C	D	E	F	G	н	L	J	К	L	М	N	0	Р	Q	R	S	T U
2641 243058 05NEWARK CTR 1	138	244871 05RIDGELY	138 1	243058	05NEWARK CTR	244871	05RIDGELY	1	138	205 A	EP	292	328	Base Case	0	12	-	4.11	0	0.08%	0.08%	-0.04%
2642 243018 05HEATH 1	138	245964 05N.NEWARK2	138 1	243018	05HEATH	245964	05N.NEWARK2	1	138	205 A	EP	167	167	Base Case	0	6.9	-	4.1	0	-0.06%	-0.06%	0.07%
2643 242587 05CELAN 1	138	242749 05PETERM	138 1	242587	05CELAN	242740	05PETERM	1	138	205 A	EP	205	284	Base Case	0	-8.4	-	4 1	0	-0 11%	-0.11%	-0.25%
2644 243040 05MERCERVI 7 1	138	246237 05THIVENER27	138 1	243040	05MERCERVI 7	246237	05THIVENED27	1	138	205 A	FD	167	167	Base Case	0	-6.8	-	4 1	0	0.03%	0.03%	-0.05%
2645 249592 OPCADUED 3	345	240593 OONTECEN	245 1	245040	09CARVER	240257	09NTECEN	1	245	203 A	FOCK	0000	0000	Base Case	0	-109.9		4.1	0	-0.26%	-0.26%	-0.26%
2646 242478 0500KVER	120	243015 OEDEDDVWOOD	120 1	249502	05555KCUD	249505	0.5 PERRYNOOD	1	120	205 3	ED	220	3555	Base Case	0	_12 0	_	4.09	0	-0.20%	-0.20%	0.01%
2647 242911 05 CDDTNC 1	1 2 0	243913 USBERRIWOOD	130 1	243470	OFORDING	243913	05BERRIWOOD	1	130	205 A	EF	1.67	430	Dase Case	0	-13.8		4.09	0	-0.04%	-0.04%	0.01/6
2647 242811 055PRING 1	130	242831 05W0LFH2	136 1	242011	USSPRING	242001	05WOLFH2	1	130	205 A	EP	107	240	Base Case	0	0.0	-	4.08	0	0.00%	0.00%	-0.14%
2640 243380 05STDBKR 1	138	247828 USULIVERPLOW	138 1	243380	0 05STDBKR	24/828	050LIVERPLOW	1	138	205 A	EP	282	337	Base Case	0	11.5	-	4.08	0	0.03%	0.03%	0.02%
2649 253029 09GRNVIL 1	138	253089 09WMILTN	138 1	253029	9 09GRNVIL	253089	U9WMILTN	1	138	209 D.	AY	165	165	Base Case	0	-6.7	-	4.06	0	0.06%	0.06%	0.07%
2650 243155 USW.NEWTONSS 1	138	245856 USW.NEWTON8	138 Z1	243155	5 USW.NEWTONSS	245856	USW.NEWTON8	21	138	205 A	EP	97	97	Base Case	0	3.9	-	4.06	0	0.00%	0.00%	0.00%
2651 270138 AA2-116 TAP1 3	345	2/0140 AA2-116_PO1	345 1	270138	AA2-116_TAP1	270140	AA2-116_PO1	1	345	205 A	EP	9999	9999	Base Case	0	-405.6	-	4.06	0	-0.42%	-0.42%	-0.34%
2652 242794 05SHACKM 1	138	247149 05WHITWD	138 1	242794	1 05SHACKM	247149	05WHITWD	1	138	205 A	EP	296	398	Base Case	0	-12	-	4.04	0	0.06%	0.06%	0.17%
2653 243395 05WESTINGHS 1	138	246318 05FUSON	138 1	243395	5 05WESTINGHS	246318	05FUSON	1	138	205 A	EP	205	205	Base Case	0	8.2	-	4.02	0	0.01%	0.01%	0.00%
2654 250142 08WARDSC 1	138	250157 08CORNTP	138 1	250142	2 08WARDSC	250157	08CORNTP	1	138	212 D	EO&K	249	249	Base Case	0	10	-	4.02	0	0.02%	0.02%	0.03%
2655 242518 05BROADF 5	500	360106 8SULLIVAN TN	500 1	242518	3 05BROADF	360106	8SULLIVAN TN	1	500	205/347 A	EP/TVA	2119	2119	Base Case	0	-85	-	4.01	0	-1.29%	-1.29%	0.12%
2656 240283 02LKSHQ3 1	138	240284 02LKSHQ4	138 1	240283	3 02LKSHQ3	240284	02LKSHQ4	1	138	202 A	TSI	999	999	Base Case	0	-40	-	4.01	0	0.13%	0.13%	-0.01%
2657 250068 08MPLKL1 1	138	250069 08MPLKL2	138 Z1	250068	08MPLKL1	250069	08MPLKL2	Z1	138	212 D	EO&K	406	454	Base Case	0	16.3	-	4	0	-0.01%	-0.01%	0.00%
2658 243676 05BELLF2 1	138	243699 050XYGEN	138 1	243676	5 05BELLF2	243699	050XYGEN	1	138	205 A	EP	251	335	Base Case	0	10	-	3.98	0	0.00%	0.00%	0.00%
2659 243273 05DARDEN 1	138	243370 05S.BEND1	138 1	243273	05DARDEN	243370	05S.BEND1	1	138	205 A	EP	158	167	Base Case	0	6.2	-	3.92	0	-0.10%	-0.10%	-0.06%
2660 243322 05KENZIE 1	138	244510 05BLOSSOM TR	138 1	243322	2 05KENZIE	244510	05BLOSSOM TR	1	138	205 A	EP	136	167	Base Case	0	5.3	-	3.91	0	0.01%	0.01%	0.02%
2661 238960 02MIDW K 1	138	238962 02MIDWAY	138 ZB	238960	02MIDW K	238962	02MIDWAY	ZB	138	202 A	TSI	579	743	Base Case	0	-22.5	-	3.89	0	-0.02%	-0.02%	0.00%
2662 243016 05HANTHR 1	138	243108 05STRLN1	138 1	243016	5 05HANTHR	243108	05STRLN1	1	138	205 A	EP	185	185	Base Case	0	7.2	-	3.88	0	0.05%	0.05%	-0.05%
2663 238855 02KH Q-1 1	138	238857 02KHTPQ1	138 1	238855	5 02KH Q-1	238857	02KHTPQ1	1	138	202 A	TSI	355	434	Base Case	0	-13.7	-	3.87	0	0.00%	0.00%	0.00%
2664 238558 02B+W AK 1	138	238581 02BRBRTN	138 1	238558	02B+W AK	238581	02BRBRTN	1	138	202 A	TSI	66	66	Base Case	0	-2.5	-	3.86	0	0.00%	0.00%	0.00%
2665 242585 05CAVE SPR1Z 1	138	242663 05HANCK1	138 1	242585	5 05CAVE SPR1Z	242663	05HANCK1	1	138	205 A	EP	187	205	Base Case	0	7.2	-	3.85	0	0.05%	0.05%	0.36%
2666 239070 02RICHLD 1	138	243029 05LCKWRD	138 1	239070	02RICHLD	243029	05LCKWRD	1	138	202/205 A	TSI/AEP	216	223	Base Case	0	8.3	-	3.83	0	0.21%	0.21%	-0.07%
2667 243137 05W.END FOS1 1	138	245422 05W.END FOS2	138 Z1	243137	05W.END FOS1	245422	05W.END FOS2	Z1	138	205 A	EP	335	392	Base Case	0	-12.8	-	3.82	0	0.01%	0.01%	-0.09%
2668 253025 09GIVENS 1	138	253044 09MECHAN	138 1	253025	5 09GIVENS	253044	09MECHAN	1	138	209 D	AY	221	272	Base Case	0	-8.4	-	3.82	0	0.10%	0.10%	0.03%
2669 243298 05GM-FTW 1	138	244489 05FOGWELL	138 3	243298	05GM-FTW	244489	05FOGWELL	3	138	205 A	EP	226	226	Base Case	0	-8.6	-	3.82	0	0.00%	0.00%	0.00%
2670 242627 05E.LYNC 1	138	242737 050POSSUMCK	138 1	242627	05E.LYNC	242737	050POSSUMCK	1	138	205 A	EP	388	510	Base Case	0	14.8	-	3.81	0	0.01%	0.01%	-0.38%
2671 243495 05DAVIDS 1	138	247873 05BRITTON	138 2	243495	5 05DAVIDS	247873	05BRITTON	2	138	205 A	EP	296	398	Base Case	0	11.2	-	3.78	0	-0.01%	-0.01%	0.00%
2672 243381 05SUMMIT 1	138	243389 05WALLEN	138 1	243381	L 05SUMMIT	243389	05WALLEN	1	138	205 A	EP	251	335	Base Case	0	-9.5	-	3.78	0	0.00%	0.00%	-0.05%
2673 242549 05BANSTR 1	138	314668 4BANISTR	138 Z1	242549	05BANSTR	314668	4BANISTR	Z1	138	205/345 A	EP/DVP	219	255	Base Case	0	8.3		3.78	0	0.00%	0.00%	0.00%
2674 243332 05LIQCAR 1	138	244143 05KUCHAR	138 1	243332	2 05LIQCAR	244143	05KUCHAR	1	138	205 A	EP	251	335	Base Case	0	-9.5	-	3.77	0	0.00%	0.00%	0.00%
2675 242581 05CARSWE 1	138	242582 05CARWLZ	138 1	242581	05CARSWE	242582	05CARWLZ	1	138	205 A	EP	167	167	Base Case	0	-6.3	-	3.76	0	0.00%	0.00%	0.00%
2676 243025 05JUNCTN 1	138	246021 05W.LANCAST2	138 1	243025	5 05JUNCTN	246021	05W.LANCAST2	1	138	205 A	EP	167	167	Base Case	0	6.3	-	3.76	0	0.07%	0.07%	-0.03%
2677 238529 02AIRPK+ 1	138	238623 02CLARK	138 1	238529	02AIRPK+	238623	02CLARK	1	138	202 A	TSI	233	282	Base Case	0	-8.7		3.74	0	-0.07%	-0.07%	-0.02%
2678 243116 05SUGARC 1	138	243135 05W DOVE	138 1	243116	05SUGARC	243135	05W DOVE	1	138	205 A	EP	251	251	Base Case	0	-9.3	-	3.72	0	0.00%	0.00%	0.00%
2679 239165 02WAUSE0 1	138	239347 02LEAR	138 1	239165	02WAUSEO	239347	02LEAR	1	138	202 A	TSI	278	343	Base Case	0	10.3	-	3.71	0	-0.07%	-0.07%	0.00%
2680 243048 05N WALD 1	138	244566 05LA RUE	138 1	243048	05N WALD	244566	05LA RUE	1	138	205 A	EP	158	180	Base Case	0	-5.8	-	3.7	0	-0.09%	-0.09%	-0.05%
2681 244198 05LEMASTER 1	138	247097 05LEMASTERT1	138 21	244198	05LEMASTER	247097	05LEMASTERT1	7.1	138	205 A	EP	158	183	Base Case	0	5.8	22	3.69	0	0.00%	0.00%	0.00%
2682 243138 05W.LIBERTYZ 1	138	246376 05W. LTBERTY	138 7.1	243138	3 05W.LIBERTYZ	246376	05W.LIBERTY	Z1	138	205 4	EP	97	97	Base Case	0	3.6	_	3.69	0	0,00%	0.00%	0.00%
2683 243330 05LINCOLN1 1	138	245832 05LINCOLN2	138 21	243330	05LINCOLN1	245832	05LINCOLN2	71	138	205 A	EP	335	392	Base Case	0	12.3	-	3.69	0	0.02%	0.02%	0.02%
2684 242566 05BROADE 1	138	242789 05SALTV2	138 1	242566	5 05BROADE	242789	05SALTV2	1	138	205 4	EP	219	251	Base Case	n	-8.1	-	3.68	0	-0.14%	-0.14%	-0.23%
2685 243318 05 JACKSON RD 1	138	247147 05.TACKSR T4	138 71	243318	05JACKSON RD	247147	05JACKSB T4	21	138	205 A	EP	164	205	Base Case	0	6	-	3.65	0	0.00%	0.00%	0.00%
2686 238752 02GF 0-1 1	138	238753 02GF0-11	138 1	238750	2 02GF 0-1	238753	02GF0-11	1	138	202 1	TST	278	287	Base Case	0	-10.1	_	3 65	0	0.00%	0.00%	0.00%
2687 238752 02CF 0-1 1	130	238755 02CEO-2	130 70	230752	02GF Q 1	230755	02010 11	70	130	202 A	TOT	270	207	Base Case	0	10.1	-	3 65	0	0.00%	0.00%	0.00%
2688 239730 02PEDADC 1	138	230730 02000 2	138 1	230730	020F Q F	230730	02CROMWETT	1	139	202 A	mer	270	207	Base Case	0	_9 5	-	3 64	0	0.00%	0.00%	0.00%
2680 243558 05BTO 1	120	242561 0500DNEV 00	120 1	2/2550	05BTO	2/25/133	05DODNEY 88	1	120	202 A	ED	150	202	Base Case	0	5.5		2 64	0	-0.01%	-0.01%	-0.02%
2600 238022 021 mpo12	1 2 0	2243301 USRODNE1 33	130 1	240000	03100013	240000	03CEVDCO	1	130	203 A	EF mct	100	E 2 2	Dase Case	0	15.0	_	3.04	0	-0.01%	-0.01%	-0.02/6
2000 230922 UZLIEUIZ 1	1 2 0	233223 U2311DCU	120 1	230922	OSNE VODK	239223	023TIDC0	1	130	202 A	101	420	342	Dase Case	0	10.4		3.03	0	-0.02%	-0.02%	0.00%
2602 242620 0EPTPIDATE	120	240042 UZNEE	120 I	239312	OFFICIAL DATES	240842	050UEET D	1	100	202 A	101 ED	2/8	343	Dase Case	0	-10	-	3.01	0	0.01%	0.01%	0.00%
2032 242030 USFIELDALEI I	120	242/3/ USSHEFLD	120 1	242030	05TNDDDV	242/9/	OSN KINCODEO	1	130	205 A	EF	100	101	Dase Case	0	-5.7	-	3.61	0	0.01%	0.01%	0.40%
2005 242077 USINDDKV 1	130	24JZZU UJW.KINGSPTZ	100 1	2426//	OSED O 1	245220	03W.KINGSPT2		138	205 A	DF DCT	201	335	Dase Case	0	-9	-	3.6	0	0.02%	0.02%	0.02%
2054 238/13 U2FB Q-1 1	130	259049 UZPV Q1	130 1	238/13	0003DCTI	239049	02PV QI	1	138	202 A	191	207	332	Dase Case	0	-9.6	-	3.6	0	0.18%	0.18%	0.03%
2095 253011 U9CARGIL 1	138	203003 U9NEEDMO	138 1	253011	U 9CARGIL	253053	O SNEEDMO	1	138	209 D.	AI	196	241	Base Case	0	1	-	3.6	0	0.00%	0.00%	-0.01%
2030 243878 USMEADOW 3	343	2409/4 USMLCS-1	345 Z1	243878	USMEADOW	246974	USMLCS-1	41	345	205 A	EF	1286	1/47	base Case	0	-46.2	-	3.59	0	-0.03%	-0.03%	-0.03%
209/242659 05GRNGST 1	138	243009 USB SAND	138 1	242659	USGRNGST	243669	USB SAND	1	138	205 A	EP	397	397	Base Case	0	-14.2	-	3.58	0	0.06%	0.05%	0.20%
2090 238608 02CARLIL 1	138	238/49 U2GATES	138 1	238608	UZCARLIL	238749	UZGATES	1	138	202 A	151	233	282	Base Case	0	8.3	-	3.58	0	0.05%	0.05%	0.02%
2099 243292 05FALL C 1	138	249810 USNEWCAS	138 1	243292	USFALL C	249810	USNEWCAS	1	138	205/208 A	EP/DEI	250	250	Base Case	0	-8.9	-	3.55	0	0.00%	0.00%	0.08%
2700 239092 02SAMMIS 3	345	239368 02TORONTO	345 1	239092	U2SAMMIS	239368	U2TORONTO	1	345	202 A	TSI	2504	2883	Base Case	0	88.7	-	3.54	0	-4.54%	-4.54%	-2.09%

		A		В	C	D	E	F	G	Н	L	J	К	L.	М	N	0	Р	Q	R	S	T U
2701 250063 08MHLTY1	138	250064 08MHLTY2	138 Z1	250063	08MHLTY1	250064	08MHLTY2	Z1	138	212	2 DEO&K	406	454	Base Case	0	-14.3		3.53	0	0.01%	0.01%	0.00%
2702 238713 02FB 0-1	138	238739 02FWLS01	138 1	238713	02FB 0-1	238739	02FWLSO1	1	138	202	ATSI	273	332	Base Case	0	9.6	-	3.52	0	0.18%	0.18%	0.03%
2703 243325 05LANTEN	138	246318 05FUSON	138 1	243325	05LANTRN	246318	05FUSON	1	138	205	AEP	205	205	Base Case	0	7.2	-	3.51	0	-0.01%	-0.01%	0.00%
2704 243048 05N WALD	138	243148 05WINDEL	138 1	243048	OSN WALD	243148	05WINDEL	1	138	205	SAFP	164	180	Base Case	0	-5.7	-	3 5	0	0.10%	0.10%	0.06%
2705 245077 05CDTSTMTTT	345	253060 000HEIDY	345 1	245040	OSCRIGTMILI	253060	OGCUETRY	1	245	205/200	AED /DAV	1255	1374	Base Case	0	13.9	_	3.5	0	0.10%	0.10%	-0.26%
2706 245364 OBUTLCA CAD	120	247461 05EDEEDVDD	120 71	245977	OSURICA CAD	233003	05FREEDVRD	71	120	203/203	ALF DAL	202	2/1	Base Case	0	-10.2		3.5	0	0.44%	0.00%	0.00%
2700 245264 05011CA CAD	100	247461 OFFEEBIRD	130 21	245264	OSUTICA CAD	247401	OFFREEDIRD	21	130	203	ALF	293	241	Base Case	0	-10.3		3.5	0	0.00%	0.00%	0.00%
2707 245264 05011CA CAD	130	247461 USFREEBIRD	136 23	245264	OSUTICA CAD	24/401	OSFREEBIRD	43	130	203	AEP	293	341	Base Case	0	-10.3	-	3.5	0	0.00%	0.00%	0.00%
2700 242510 USBAKER	/65	242523 USBAKER	345 3	242510	05BAKER	242523	USBAKER	3	/65/345	203	AEP	2512	2788	Base Case	0	-87.8	-	3.49	0	-0.34%	-0.34%	-0.08%
2709 243298 05GM-FTW	138	244489 USFOGWELL	138 1	243298	05GM-FTW	244489	USFOGWELL	1	138	205	AEP	226	226	Base Case	.0	-7.8	-	3.47	0	0.00%	0.00%	0.00%
2710 242915 05STANVILLE2	138	244008 05STANVILLEI	138 Z1	242915	05STANVILLE2	244008	05STANVILLE1	Z1	138	205	AEP	548	601	Base Case	0	-19	-	3.46	0	-0.01%	-0.01%	-0.17%
2/11 238858 02KHTPQ3	138	238863 02KL Q-3	138 1	238858	02KHTPQ3	238863	02KL Q-3	1	138	202	2 ATSI	273	332	Base Case	0	9.4	-	3.46	0	0.00%	0.00%	0.00%
2712 242997 05E.NEWCONCZ	138	245251 05E.NEWCONC	138 Z1	242997	05E.NEWCONCZ	245251	05E.NEWCONC	Z1	138	205	5 AEP	150	212	Base Case	0	5.2	-	3.45	0	0.00%	0.00%	0.00%
2713 240214 02PENNANTTAP	138	240216 02PENNANT	138 1	240214	02PENNANTTAP	240216	02PENNANT	1	138	202	2 ATSI	160	192	Base Case	0	5.5	-	3.44	0	0.00%	0.00%	0.00%
2714 243037 05MEIGS SS	138	244431 05MEIGS 8	138 Z1	243037	05MEIGS SS	244431	05MEIGS 8	Z1	138	205	5 AEP	95	95	Base Case	0	3.3	-	3.43	0	0.00%	0.00%	0.00%
2715 243324 05LAFAY8	138	244183 05LAFAY C SS	138 Z1	243324	05LAFAY8	244183	05LAFAY C SS	Z1	138	205	5 AEP	251	335	Base Case	0	-8.6	-	3.41	0	0.00%	0.00%	0.00%
2716 250105 08TDHNTR	138	250162 08GARVER	138 1	250105	08TDHNTR	250162	08GARVER	1	138	212	2 DEO&K	516	582	Base Case	0	17.5	-	3.4	0	-0.04%	-0.04%	-0.02%
2717 243495 05DAVIDS	138	246603 05DAVID T1T2	138 Z2	243495	05DAVIDS	246603	05DAVID T1T2	Z2	138	205	5 AEP	670	747	Base Case	0	22.6	-	3.38	0	0.00%	0.00%	0.00%
2718 250038 08GOLFMR	138	250118 08TRMNL2	138 1	250038	08GOLFMR	250118	08TRMNL2	1	138	212	2 DEO&K	299	299	Base Case	0	-10.1	-	3.37	0	-0.03%	-0.03%	-0.03%
2719 238719 02FMCQ12	138	238725 02FMQ12H	138 1	238719	02FMCQ12	238725	02FMQ12H	1	138	202	2 ATSI	176	216	Base Case	0	5.9	-	3.36	0	0.00%	0.00%	0.00%
2720 243253 05BLUFFP	138	247536 05BLUFF P WF	138 1	243253	05BLUFFP	247536	05BLUFF P WF	1	138	205	AEP	572	572	Base Case	0	-19.2	-	3.35	0	-0.01%	-0.01%	-0.01%
2721 243471 05BETHEL	138	243495 05DAVIDS	138 1	243471	05BETHEL	243495	05DAVIDS	1	138	205	5 AEP	335	366	Base Case	0	11.2	-	3.35	0	0.02%	0.02%	0.01%
2722 242935 05E LIMA	345	242936 05FOSTOR	345 1	242935	05E LIMA	242936	05FOSTOR	1	345	205	5 AEP	1025	1318	Base Case	0	-34.1	-	3.33	0	0.62%	0.62%	-0.62%
2723 243002 05FAIRCR	138	243092 05SCANTO	138 1	243002	05FAIRCR	243092	05SCANTO	1	138	205	5 AEP	291	291	Base Case	0	9.7	-	3.33	0	0.16%	0.16%	-0.05%
2724 247372 05MUSKNG1C	138	247374 05MUSKNG2B	138 ZA	247372	05MUSKNG1C	247374	05MUSKNG2B	ZA	138	205	AEP	747	747	Base Case	0	-24.8	-	3.32	0	-0.22%	-0.22%	-0.06%
2725 242958 05BATTLE	138	246176 05TUNNEL R C	138 Z1	242958	05BATTLE	246176	05TUNNEL R C	Z1	138	205	5 AEP	205	205	Base Case	0	6.8	-	3.32	0	0.00%	0.00%	0.00%
2726 243867 05FBCS34	345	246756 05FBCS-2	345 1	243867	05FRCS34	246756	05FRCS-2	1	345	205	5 AEP	1001	1631	Base Case	0	33.2	-	3.31	0	-0.02%	-0.02%	-0.02%
2727 249991 08BUFTN1	138	250077 08MTZION	138 1	249991	08BUETN1	250077	0.8MTZTON	1	138	212	DEORK	298	298	Base Case	0	9.9	-	3,31	0	0.01%	0.01%	-0.12%
2728 243495 05DAVIDS	138	246603 05DAVID T1T2	138 71	243495	05DAVIDS	246603	0504010 1172	71	138	205	5 AEP	685	747	Base Case	0	22.6	-	3 3	0	0.00%	0.00%	0.00%
2729 238699 02ENO-12	138	238719 02FMC012	138 1	238699	02ENO=12	238710	02EMC012	1	138	200	ATST	273	332	Base Case	0	8.9	-	3.28	0	-0.09%	-0.09%	0.00%
2730 243493 05CPCTVS	130	243569 05901200	130 1	230099	05CPCTVC	2/3560	059CTBBO	1	130	202	AIDI	347	317	Base Case	0	3	-	3.20	0	-0.02%	-0.02%	0.00%
2721 243485 05CRCHV5	120	245305 053CIFF0	120 1	243403	05CEDARC	245505	OFFENANCE	1	120	203	ABE	206	270	Base Case	0	-11.5		3.27	0	0.02%	0.02%	0.05%
2731 243680 05CEDARC	130	245915 USREWANEE	130 1	243000	OSCEDARC	243913	OSKEWANEE	75	130	203	ADD	230	510	Base Case	0	24.4		3.20	0	0.00%	0.00%	-0.08%
2732 244024 0550MAC	130	245552 USMIMOSA	138 25	244024	0550MAC	245552	OSMIMOSA	40	130	203	ALF	747	747	Base Case	0	24.4	_	3.26	0	0.00%	0.00%	0.00%
2735 244024 USSUMAC	138	245552 USMIMUSA	138 24	244024	05SUMAC	245552	USMIMOSA	24	138	203	AEP	747	747	Base Case	0	24.4	-	3.26	0	0.00%	0.00%	0.00%
2734 244024 USSUMAC	138	245552 USMIMUSA	138 28	244024	05SUMAC	245552	USMIMOSA	28	138	205	AEP	747	747	Base Case	0	24.4	-	3.26	0	0.00%	0.00%	0.00%
2735 246383 05FOXGLOVE	138	246385 05JUGST /-11	138 29	246383	05FOXGLOVE	246385	05JUGST /-11	Z9	138	205	AEP	/4/	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2736 244024 05SUMAC	138	245552 05MIMOSA	138 Z6	244024	05SUMAC	245552	05MIMOSA	Z6	138	205	AEP	747	747	Base Case	0	24.4	-	3.26	0	0.00%	0.00%	0.00%
2737 246383 05FOXGLOVE	138	246385 05JUGST 7-11	138 Z8	246383	05FOXGLOVE	246385	05JUGST 7-11	Z8	138	205	5 AEP	747	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2738 246383 05FOXGLOVE	138	246385 05JUGST 7-11	138 Z7	246383	05FOXGLOVE	246385	05JUGST 7-11	Z7	138	205	5 AEP	747	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2739 244024 05SUMAC	138	245552 05MIMOSA	138 Z7	244024	05SUMAC	245552	05MIMOSA	Z7	138	205	5 AEP	747	747	Base Case	0	24.4	-	3.26	0	0.00%	0.00%	0.00%
2740 246383 05FOXGLOVE	138	246385 05JUGST 7-11	138 Z6	246383	05FOXGLOVE	246385	05JUGST 7-11	Z6	138	205	5 AEP	747	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2741 246383 05FOXGLOVE	138	246385 05JUGST 7-11	138 ZO	246383	05FOXGLOVE	246385	05JUGST 7-11	Z0	138	205	5 AEP	747	747	Base Case	0	-24.4	-	3.26	0	0.00%	0.00%	0.00%
2742 245952 05DLAWAR1	138	245962 05DLAWAR3	138 Z1	245952	05DLAWAR1	245962	05DLAWAR3	Z1	138	205	5 AEP	670	747	Base Case	0	21.7	-	3.24	0	0.01%	0.01%	0.01%
2743 243363 05REED	138	243384 05TRIER	138 1	243363	05REED	243384	05TRIER	1	138	205	5 AEP	219	251	Base Case	0	7	-	3.22	0	-0.07%	-0.07%	-0.05%
2744 243330 05LINCOLN1	138	243366 05ROB PK12	138 1	243330	05LINCOLN1	243366	05ROB PK12	1	138	205	5 AEP	167	240	Base Case	0	-5.4	-	3.22	0	-0.06%	-0.06%	-0.04%
2745 243388 05W SIDE	138	247828 050LIVERPLOW	138 1	243388	05W SIDE	247828	050LIVERPLOW	1	138	205	5 AEP	282	392	Base Case	0	-9	-	3.21	0	0.03%	0.03%	0.02%
2746 250029 08FOSTER	138	250137 080BANNV	138 1	250029	08FOSTER	250137	080BANNV	1	138	212	2 DEO&K	291	291	Base Case	0	9.3	-	3.2	0	-0.03%	-0.03%	-0.03%
2747 243496 05CONGRES SS	138	244267 05DEGUSSA	138 1	243496	05CONGRES SS	244267	05DEGUSSA	1	138	205	5 AEP	143	143	Base Case	0	4.6	-	3.19	0	0.00%	0.00%	0.00%
2748 243243 05ANDCT	138	249700 08CADIZ	138 1	243243	05ANDCT	249700	08CADIZ	1	138	205/208	AEP/DEI	136	143	Base Case	0	4.3	-	3.18	0	-0.04%	-0.04%	-0.05%
2749 246325 05NOTTINGH56	138	246327 05NOTTINGH78	138 Z6	246325	05NOTTINGH56	246327	05NOTTINGH78	Z6	138	205	5 AEP	747	747	Base Case	0	23.8		3.18	0	-0.16%	-0.16%	0.03%
2750 246325 05NOTTINGH56	138	246327 05NOTTINGH78	138 Z5	246325	05NOTTINGH56	246327	05NOTTINGH78	Z5	138	205	5 AEP	747	747	Base Case	0	23.8	-	3.18	0	-0.16%	-0.16%	0.03%
2751 245948 05MILLBR PK2	138	245949 05MLBRPK ARG	138 ZE	245948	05MILLBR PK2	245949	05MLBRPK ARG	ZE	138	205	5 AEP	240	296	Base Case	0	-7.6	-	3.17	0	0.04%	0.04%	0.04%
2752 242710 05MARROB	138	246923 05NEWSOM	138 1	242710	05MARROB	246923	05NEWSOM	1	138	205	5 AEP	195	22.0	Base Case	0	-6.1	-	3.13	0	0.00%	0.00%	0.00%
2753 243233 05TANNER	345	249565 08EBEND	345 1	243233	05TANNER	249565	08EBEND	1	345	205/212	2 AEP/DEO&K	1409	1409	Base Case	0	-43.9	-	3.11	0	-0.04%	-0.04%	-0.09%
2754 243562 05R058	138	247148 05SBLMSS	138 1	243562	05BOSS	247148	05SBLMSS	1	138	200/212	5 AEP	296	361	Base Case	0	9.1	_	3 08	0	-0.07%	-0.07%	0.01%
2755 242553 05BETH	130	242671 05HOPKIN	138 1	242553	05BETH	242671	05HOPKIN	1	130	200	AEP	105	220	Base Case	0	-6	_	3.00	0	0.00%	0.00%	0.00%
2756 246754 05FONTED	700	246755 05FDCC=1	345 1	216754	05FOWLEP	246755	05FRCS-1	1	730	203	AFP	1001	1502	Base Case	0	-30 5		3 05	0	-0.00%	-0.02%	-0.02%
2757 242624 05DTOWLER	120	240703 0500000	138 1	240/34	05DTCKEN	210133	05SEVTON	1	120	203	APD	150	107	Baco Coco	0	-1 0		3.03	0	0.02%	0.02%	0.02%
2758 242024 USDICKEN	138	242/93 USSEATUN	130 L	242024	OSDICKEN	242/93	05DUMONT		130	203	AD	1740	1000	Dase Case	0	-4.8	-	3.03	0	0.00%	0.00%	0.00%
2750 243200 USDUMUNT	100	243219 USDUMUNT	120 77	243206	03DUMONT	243219	03DUMONT	3	100/340	205	ABP	1/40	1908	Dase Case	0	12.0		3.03	0	0.49%	0.49%	0.07%
2/35 238833 UZJGSQ12	138	239223 UZSTYDCU	130 1	238835		239225	02STIDCO	44	138	202	ATSI	425	522	base Case	0	-12.8	-	3.02	0	-0.02%	-0.02%	0.00%
2/00/243512 05DIAMONDISS	138	24682/ USDIAMOND I	138 1	243512	USDIAMONDISS	246827	I DINOMAIDEU	1	138	205	AEP	227	306	Base Case	0	6.8	-	3	0	0.00%	0.00%	0.00%

	А		В	C	D E		F	G	H I	J	K	Ĺ.	М	N	0	Р	Q	R	S	T U
2761 238775 02GXQ-14	138 238809 02HMLQ14	138 1	238775	02GXQ-14	238809 02HMLQ14		1	138	202 ATSI	176	229	Base Case	0	-5.3	-	2.98	0	0.15%	0.15%	0.02%
2762 242979 05CANNELV	SS 138 243888 05CANNELV8	138 Z1	242979	05CANNELV SS	243888 05CANNELV8	8 Z1		138	205 AEP	145	145	Base Case	0	4.3	-	2.96	0	0.00%	0.00%	0.00%
2763 238954 02MCDOWL	138 239350 02CAMPBL	138 1	238954	02MCDOWL	239350 02CAMPBL		1	138	202 ATSI	278	339	Base Case	0	-8.2	-	2.95	0	0.61%	0.61%	0.00%
2764 242761 05RAGLDZ	138 242810 05SPRIG2	138 1	242761	05RAGLDZ	242810 05SPRIG2	-	1	138	205 AEP	167	167	Base Case	0	-4.9	-	2.95	0	-0.06%	-0.06%	-0.04%
2765 250087 08QUNGT1	138 250124 08WENDEA	138 1	250087	08QUNGT1	250124 08WENDEA		1	138	212 DEO&K	268	268	Base Case	0	-7.9	-	2.95	0	0.01%	0.01%	0.02%
2766 239077 02RVERBD	138 239166 02WCKLIF	138 1	239077	02RVERBD	239166 02WCKLIF		1	138	202 ATSI	223	223	Base Case	0	6.6	-	2.94	0	-0.09%	-0.09%	-0.03%
2767 243295 05GARRETT	N 138 246769 05MINERR	138 1	243295	05GARRETT N	246769 05MINERR		1	138	205 AEP	251	335	Base Case	0	7.4	-	2.94	0	0.05%	0.05%	0.03%
2768 243562 05ROSS	138 243570 05CLAYBN	138 1	243562	05ROSS	243570 05CLAYBN	-	1	138	205 AEP	323	449	Base Case	0	9.5	-	2.94	0	0.00%	0.00%	0.05%
2769 242650 05GLENL1	138 242651 05GLENL2	138 71	242650	05GLENL1	242651 05GLENL2	7.1		138	205 AEP	285	368	Base Case	0	8.3		2.93	0	0.01%	0.01%	-0.17%
2770 242508 05AMOS	765 242516 05MOUNTN	765 1	242508	05AMOS	242516 05MOUNTN		1	765	205 AEP	4047	4571	Base Case	0	118 5	-	2.93	0	-1.98%	-1.98%	3.43%
2771 242705 05LOGAN2	138 242735 05NPOINT	138 1	242705	051.062N2	242735 05NPOINT		1	138	205 AEP	389	559	Base Case	0	11 3	-	2.99	0	0.02%	0.02%	0.31%
2772 239113 028P 0-2	130 242733 03NF0INI	120 1	232103	0.28B 0-2	230212 020101N1	-	1	120	202 ATET	149	151	Base Case	0	11.5	-	2.05	0	-0.18%	-0.10%	0.01%
2772 241029 023702	130 233212 02203102	130 1	239113	0235 Q-2	239212 02A031Q2		1	1.20	202 AISI	140	101	Base Case	0	4.5		2.09	0	-0.10%	-0.1976	0.04%
2774 220127 02AVQ2	130 241929 02AVQ5	130 1	241920	02AVQ2	241929 02AVQ5		1	100	202 A151	999	333	Base Case	0	-20.7	-	2.00	0	-0.09%	-0.09%	0.00%
2774 239127 025TRIKE	138 239351 UZEASTRAIT	138 1	239127	OFWARVE	239351 UZEASTFAT	1	1	138	202 ATS1	210	262	Base Case	0	0.2	-	2.85	0	-0.04%	-0.04%	0.00%
2775 245555 05MARKWEST	138 247156 USSTEAMT	138 22	245555	05MARKWEST	24/156 05STEAMT	22		138	205 AEP	/4/	747	Base Case	0	-21.3	-	2.84	0	0.00%	0.00%	0.00%
2776 245555 05MARKWEST	138 247156 05STEAMT	138 Z3	245555	05MARKWEST	247156 05STEAMT	Z	3	138	205 AEP	747	747	Base Case	0	-21.3	-	2.84	0	0.00%	0.00%	0.00%
2/// 245555 05MARKWEST	138 247156 05STEAMT	138 Z4	245555	05MARKWEST	247156 05STEAMT	Z4	1	138	205 AEP	747	747	Base Case	0	-21.3	-	2.84	0	0.00%	0.00%	0.00%
2//8 245555 05MARKWEST	138 247156 05STEAMT	138 Z1	245555	U5MARKWEST	247156 05STEAMT	Z1		138	205 AEP	747	747	Base Case	0	-21.3	-	2.84	0	0.00%	0.00%	0.00%
2779 238941 02MANSFD	345 240069 02LORDSTOWN	345 1	238941	02MANSFD	240069 02LORDSTON	WN	1	345	202 ATSI	1380	1646	Base Case	0	39	-	2.83	0	0.16%	0.16%	0.10%
2780 243574 05SUNBURY	SS 138 247291 05SUNBURY8	138 Z1	243574	05SUNBURY SS	247291 05SUNBURY8	8 Z1		138	205 AEP	223	223	Base Case	0	6.3	-	2.83	0	0.00%	0.00%	0.00%
2781 238830 02IWQ-16	138 239210 02IOQ-16	138 1	238830	02IWQ-16	239210 02I0Q-16		1	138	202 ATSI	273	332	Base Case	0	7.7	-	2.82	0	0.02%	0.02%	0.00%
2782 250042 08HANDS1	138 250043 08HANDS2	138 Z1	250042	08HANDS1	250043 08HANDS2	ZI	E	138	212 DEO&K	406	454	Base Case	0	-11.4	-	2.82	0	0.02%	0.02%	0.07%
2783 238771 02GTQ-11	138 238792 02HDGQ11	138 1	238771	02GTQ-11	238792 02HDGQ11		1	138	202 ATSI	273	332	Base Case	0	-7.7	-	2.81	0	0.06%	0.06%	-0.02%
2784 246913 05JONES	138 247116 05ALADDIN	138 1	246913	05JONES	247116 05ALADDIN		1	138	205 AEP	205	284	Base Case	0	-5.7	-	2.8	0	-0.02%	-0.02%	-0.01%
2785 242666 05HAZELH	138 242679 05INGSTR	138 1	242666	5 05HAZELH	242679 05INGSTR		1	138	205 AEP	251	325	Base Case	0	7	-	2.78	0	0.00%	0.00%	0.00%
2786 243287 05E.ELKHAP	T 138 243351 05NORTHL	138 1	243287	05E.ELKHART	243351 05NORTHL		1	138	205 AEP	205	284	Base Case	0	5.7	-	2.78	0	0.04%	0.04%	0.02%
2787 238881 02LTFQ16	138 239210 02IOQ-16	138 1	238881	02LTFQ16	239210 02I0Q-16		1	138	202 ATSI	273	332	Base Case	0	-7.5	-	2.75	0	0.02%	0.02%	0.00%
2788 238957 02MFLDQ2	138 239020 02NW Q-2	138 1	238957	02MFLDQ2	239020 02NW Q-2		1	138	202 ATSI	176	229	Base Case	0	-4.8	-	2.73	0	-0.15%	-0.15%	0.04%
2789 242519 05CLOVRD	500 314912 8LEXNGTN	500 1	242519	05CLOVRD	314912 8LEXNGTN		1	500	205/345 AEP/DVP	3610	3610	Base Case	0	-97.1	-	2.69	0	5.58%	5.58%	4.36%
2790 250035 08FTRM11	138 250029 08FOSTER	138 1	250035	08FTRM11	250029 08FOSTER		1	138	212 DE0&K	9999	9999	Base Case	0	268.8	-	2.69	0	0.06%	0.06%	0.01%
2791 242808 05SPORNS	138 246954 05YELLWB	138 2	242808	05SPORNS	246954 05YELLWB		2	138	205 AEP	257	257	Base Case	0	6.9	-	2.68	0	0.00%	0.00%	0.00%
2792 246948 05POLYSS	138 246954 05YELLWB	138 1	246948	05POLYSS	246954 05YELLWB	-	1	138	205 AEP	257	257	Base Case	0	-6.9	-	2.68	0	0.00%	0.00%	0.00%
2793 243493 05CBVERD	138 246633 05ZETGLEB8	138 21	243493	05CRVERD	246633 05ZEIGLEB	8 21	-	138	205 AEP	200	200	Base Case	0	5.4		2.68	0	0.00%	0.00%	0.00%
2794 238695 02FTW+	138 239958 02ELW 052	138 1	238695	02FTW+	239958 02ELW OS2	0 11	1	138	202 2051	160	192	Base Case	0	4 3	-	2.68	0	0.00%	0.00%	0.00%
2795 250107 08TODM15	138 250105 02EEW.Q02	138 1	250107	0.08TODM15	250105 08mDHNmp		1	139	212 DEOLK	0000	0000	Base Case	0	266.7	_	2.00	0	-0.03%	-0.03%	-0.04%
2796 242147 05WTLDCPK	22 128 244645 05WILDORK 9	120 21	242147	OSIGDAID	244645 05WILDORK	0 71	1	120	205 AFD	105	257	Base Case	0	200.7		2.07	0	0.00%	0.00%	0.00%
2797 243147 05WILDCRK	130 244043 05WILDERK 0	130 4	243147	OSWILDCRR SS	244043 05WILDCRK	0 41		1.20	205 AEF	100	257	Base Case	0	4.9	0.05	2.00	0	0.00%	0.00%	0.00%
2797 242808 USSPORNS	138 246948 05POLISS	138 4	242808	05SPORNS	246948 05POLISS		4	138	205 AEP	257	257	Base Case	0	6.8		2.65	0	0.00%	0.00%	0.00%
2798 243497 USDELANO	138 243562 05ROSS	138 2	243497	05DELANO	243562 U5ROSS		2	138	205 AEP	323	449	Base Case	0	-8.5		2.62	0	0.00%	0.00%	0.05%
2799 250001 08COLINV	138 250144 08HUSTRC	138 1	250001	OSCOLINV	250144 08HUSTRC	-	1	138	212 DEO&K	178	178	Base Case	0	4.6	-	2.56	0	-0.06%	-0.06%	-0.06%
2800 242642 05FRANKLIN	138 242643 05FRANK5	138 Z1	242642	2 05FRANKLIN	242643 05FRANK5	ZI		138	205 AEP	329	361	Base Case	0	-8.4	-	2.54	0	0.04%	0.04%	-0.19%
2801 247700 05YAGER	138 247702 05AZALEA	138 1	247700	05YAGER	247702 05AZALEA		1	138	205 AEP	296	413	Base Case	0	7.5	-	2.54	0	0.00%	0.00%	0.00%
2802 250108 08TODM16	138 250105 08TDHNTR	138 1	250108	08TODM16	250105 08TDHNTR		1	138	212 DEO&K	9999	9999	Base Case	0	253.6	~	2.54	0	-0.03%	-0.03%	-0.04%
2803 238850 02JUNIPE	345 239358 02GLENWILLOW	345 1	238850	02JUNIPE	239358 02GLENWILI	LOW	1	345	202 ATSI	1370	1720	Base Case	0	-34.7	-	2.53	0	1.37%	1.37%	-0.41%
2804 250109 08TODM17	138 250105 08TDHNTR	138 1	250109	08TODM17	250105 08TDHNTR		1	138	212 DEO&K	9999	9999	Base Case	0	253.3	-	2.53	0	-0.03%	-0.03%	-0.04%
2805 242809 05SPRIG1	138 242810 05SPRIG2	138 Z1	242809	05SPRIG1	242810 05SPRIG2	ZI	L .	138	205 AEP	296	296	Base Case	0	-7.3		2.48	0	0.02%	0.02%	-0.04%
2806 248013 06PIERCE	345 249564 08BUFTN1	345 1	248013	06PIERCE	249564 08BUFTN1		1	345	206/212 OVEC/DEO&K	971	971	Base Case	0	23.9		2.47	0	0.32%	0.32%	0.06%
2807 242660 05H.RIDG	138 244192 05BALLS GAP	138 1	242660	05H.RIDG	244192 05BALLS GA	AP	1	138	205 AEP	167	167	Base Case	0	-4.1	-	2.46	0	0.06%	0.06%	0.02%
2808 243223 05JACKSON	RD 345 243234 05TWIN B	345 1	243223	05JACKSON RD	243234 05TWIN B		1	345	205 AEP	971	971	Base Case	0	-23.9	-	2.46	0	0.07%	0.07%	0.08%
2809 242647 05G.BRAN	138 242751 05PIGEON	138 1	242647	05G.BRAN	242751 05PIGEON		1	138	205 AEP	287	334	Base Case	0	-7	222	2.44	0	0.00%	0.00%	0.00%
2810 242535 05ALUMRG	138 242610 05CLYTR3	138 1	242535	05ALUMRG	242610 05CLYTR3		1	138	205 AEP	180	227	Base Case	0	-4.4	-	2.43	0	-0.05%	-0.05%	-0.60%
2811 238990 02NB Q18	138 240351 02IV-NB+18	138 ZL	238990	02NB Q18	240351 02IV-NB+18	8 ZI	2	138	202 ATSI	260	309	Base Case	0	-6.3	-	2.42	0	0.00%	0.00%	0.00%
2812 238740 02FWLSQ2	138 239050 02PV Q2	138 1	238740	02FWLSQ2	239050 02PV Q2		1	138	202 ATSI	103	132	Base Case	0	-2.5	-	2.41	0	0.25%	0.26%	0.02%
2813 238596 02IXQ-1	138 238598 02CADQ18	138 1	238596	02IXQ-1	238598 02CADQ18		1	138	202 ATSI	273	332	Base Case	0	-6.6	22	2.41	0	0.00%	0.00%	0.00%
2814 238716 02FIRSTN	138 239144 02URBAN	138 1	238716	02FIRSTN	239144 02URBAN		1	138	202 ATSI	233	249	Base Case	0	5.6	-	2.4	0	0.06%	0.06%	0.06%
2815 243455 05CONES	345 243458 05HYATT	345 1	243455	05CONES	243458 05HYATT		1	345	205 AEP	1217	1245	Base Case	0	29.1	-	2.39	0	0.28%	0.28%	-0.02%
2816 242569 05BRUSHT	138 243945 05LYNBROOK	138 1	242569	05BRUSHT	243945 05LYNBROOF	ĸ	1	138	205 AEP	548	590	Base Case	0	13.1	-	2.39	0	0.01%	0.01%	0.44%
2817 238845 02.JONSON	138 239275 02FLDSTN	138 1	238845	02JONSON	239275 02FLDSTN		1	138	202 ATST	233	282	Base Case	n	5.5	_	2.38	0	-0.04%	-0.04%	-0.02%
2818 238508 02EBER	138 238897 021.TOATR	138 1	238508	02EBER	238897 021.10219		1	138	202 ATST	233	202	Base Case	0	6.6	_	2.55	0	0.00%	0.00%	0.00%
2819 243206 05DUMONT	765 243219 05DUMONT	345 2	243206	05DUMONT	243219 05DUMONT		2 -	765/345	205 AEP	2250	2250	Base Case	0	53	-	2.30	0	0.49%	0.49%	0.57%
2820 240281 021 KGHO1	139 240292 02188002	139 1	240200	021 KGHO1	240282 02188002		1	120	202 705	000	2230	Baco Case	0	-23 5		2.50	0	-0.01%	-0.01%	-0.01%
LOLO 240201 USTUDUAL	TOO SHOROS OSTROUĂS	T 0.0 T	240201	- USUNGINGT	240202 UZENDRUZ		±	130	202 0101	229	239	Lase case	U	23.3		2.00	U	0.01/0	-0.01/0	0.01/0

	А	B C	D	E	F	G	НІ	J	К	L M	N	0	Р	Q	R	S	T U
2821 238720 02FMCQ13 13	38 238741 02FWLSQ3 138 1	238720 02FMCQ13	238741	02FWLSQ3	1	138	202 ATSI	267	332	Base Case 0	-6.3	-	2.35	0	-0.10%	-0.10%	-0.01%
2822 244198 05LEMASTER 13	38 247148 05SBLMSS 138 1	244198 05LEMASTER	247148	05SBLMSS	1	138	205 AEP	296	361	Base Case 0	-6.9	-	2.34	0	-0.07%	-0.07%	0.01%
2823 242995 05EASTOW 13	38 243136 05W LTMA 138 1	242995 05EASTOW	243136	0.5W LITMA	1	138	205 AEP	205	255	Base Case 0	4.8	-	2.34	0	0.01%	0.01%	-0.06%
2824 247700 05YAGER 13	38 247703 05LEESVILLE 138 1	247700 05YAGEB	247703	05LEESVILLE	1	138	205 AEP	296	413	Base Case 0	6.9	-	2 33	0	0.00%	0.00%	0.00%
2825 238714 02FB 0-3 13	38 238762 02GR 0-3 138 1	238714 02FB 0-3	238762	02GB 0-3	1	138	202 ATST	273	332	Base Case 0	-6.4	-	2 33	0	0.18%	0.18%	0.01%
2826 243037 05METCS SS 13	38 244439 05METCS SW27 138 1	243037 05METCE SE	211139	05METCS SW27	1	139	205 AFP	140	140	Base Case 0	-3.3	-	2.33	0	0.10%	0.00%	0.00%
2827 243357 05PENDLETON1 13	38 246656 05PENDLETON2 138 71	243357 05PENDIETON1	246656	05PENDIETON2	71	138	205 AEP	21.0	255	Base Case 0	5.5	-	2.55	0	0.00%	0.03%	0.03%
2027 243337 03FENDLETONT 13	30 240050 USFENDLETONZ 150 21	243337 USPENDLETONI	240030	03CERDLEIONZ	1 1	130	203 AEr	150	101	Base Case 0			2.3	0	0.03%	0.03%	0.03%
2020 230373 02NAFMON 13	20 242142 0ENAVITE 120 1	230373 02NAFMON	2/21/2	OEWNWITE	1	120	205 AFD	251	225	Base Case 0	-3.5		2.3	0	-0.03%	0.03%	-0.01%
2029 245077 05PROMWI 13	20 243142 USWAIVIE 130 1	245077 05PROMW1	243142	05WAIVIE	1	120	205 AEP	150	100	Base Case 0	-5.7	-	2.27	0	0.02%	0.02%	0.01%
2830 245822 USLIGONIERI 13	38 247433 USCHARGER 138 1	245822 USLIGONIERI	247433	05CHARGER	1	138	205 AEP	158	183	Base Case U	-3.6	-	2.27	0	0.00%	0.00%	0.00%
2831 242561 05BOONSBORO 13	38 242765 USREUSENSI 138 1	242561 USBOONSBORO	242765	05REUSENS1	1	138	205 AEP	167	240	Base Case 0	-3.8	-	2.26	0	0.01%	0.01%	-0.51%
2832 243296 05GASTON 13	38 243343 05MISSIS 138 1	243296 05GASTON	243343	05MISSIS	1	138	205 AEP	257	360	Base Case 0	-5.8	-	2.26	0	-0.05%	-0.05%	-0.04%
2833 243057 05NEW LIBRI 13	38 245905 05NEW LIBR2 138 Z1	243057 05NEW LIBR1	245905	05NEW LIBR2	Z1	138	205 AEP	187	240	Base Case 0	-4.2	-	2.26	0	-0.08%	-0.08%	0.06%
2834 253026 09GREENE 13	38 253083 09TREBEI 138 1	253026 09GREENE	253083	09TREBEI	1	138	209 DAY	301	373	Base Case 0	6.8		2.26	0	-0.04%	-0.04%	-0.02%
2835 239078 02RYAN 13	38 239100 02SEVILL 138 1	239078 02RYAN	239100	02SEVILL	1	138	202 ATSI	233	282	Base Case 0	-5.3	-	2.26	0	0.05%	0.05%	0.04%
2836 243294 05FLWRFD8 SS 13	38 246565 05FLWRFD8 138 Z1	243294 05FLWRFD8 SS	246565	05FLWRFD8	Z1	138	205 AEP	195	220	Base Case 0	4.4	-	2.26	0	0.00%	0.00%	0.00%
2837 238777 02HAMIL+ 13	38 238778 02HAMILT 138 1	238777 02HAMIL+	238778	02HAMILT	1	138	202 ATSI	195	195	Base Case 0	4.4	-	2.25	0	0.00%	0.00%	0.00%
2838 242608 05CLYTR1 13	38 242791 05SCHRIS 138 1	242608 05CLYTR1	242791	05schris	1	138	205 AEP	164	167	Base Case 0	-3.7	-	2.25	0	0.13%	0.13%	0.10%
2839 243036 05MEIG 2 13	38 244439 05MEIGS SW2Z 138 1	243036 05MEIG 2	244439	05MEIGS SW2Z	1	138	205 AEP	158	183	Base Case 0	-3.5	-	2.23	0	0.00%	0.00%	0.00%
2840 238698 02ENQ-11 13	38 238806 02HMLQ11 138 1	238698 02ENQ-11	238806	02HMLQ11	1	138	202 ATSI	273	332	Base Case 0	6.1	-	2.22	0	-0.19%	-0.19%	-0.02%
2841 247008 05CLARKB 13	38 247009 05KEYSTO 138 Z1	247008 05CLARKB	247009	05KEYSTO	Z1	138	205 AEP	383	449	Base Case 0	8.5	-	2.22	0	0.00%	0.00%	0.00%
2842 238530 02ALLEN 34	45 238961 02MIDWAY 345 1	238530 02ALLEN	238961	02MIDWAY	1	345	202 ATSI	1364	1627	Base Case 0	-30.1	-	2.21	0	0.37%	0.37%	0.09%
2843 242587 05CELAN 13	38 242731 05NBLACK 138 1	242587 05CELAN	242731	05NBLACK	1	138	205 AEP	205	205	Base Case 0	-4.5	-	2.19	0	0.11%	0.11%	0.25%
2844 240282 02LKSHQ2 13	38 240283 02LKSHQ3 138 1	240282 02LKSHQ2	240283	02LKSHQ3	1	138	202 ATSI	999	999	Base Case 0	-21.9	-	2.19	0	0.14%	0.14%	0.01%
2845 246779 05S.ABINGDN2 13	38 247819 05S.ABINGDN1 138 Z1	246779 05S.ABINGDN2	247819	05S.ABINGDN1	Z1	138	205 AEP	747	747	Base Case 0	16.2		2.17	0	0.00%	0.00%	-0.14%
2846 238665 02DS Q-1 13	38 238666 02DS Q-3 138 ZB	238665 02DS Q-1	238666	02DS Q-3	ZB	138	202 ATSI	999	999	Base Case 0	21.6	-	2.16	0	-0.03%	-0.03%	0.00%
2847 243792 05LOSANTVILL 34	45 243793 05HEADWTR CS 345 1	243792 05LOSANTVILL	243793	05HEADWTR CS	1	345	205 AEP	961	961	Base Case 0	-20.7	-	2.16	0	-0.01%	-0.01%	-0.01%
2848 242540 05APPLE1 13	38 242541 05APPLE2 138 Z1	242540 05APPLE1	242541	05APPLE2	Z1	138	205 AEP	219	255	Base Case 0	4.7	-	2.15	0	-0.03%	-0.03%	0.05%
2849 238742 02FWLS04 13	38 238763 02GR 0-4 138 1	238742 02FWLS04	238763	02GR 0-4	1	138	202 ATSI	148	151	Base Case 0	3.1	-	2.13	0	-0.24%	-0.24%	-0.03%
2850 243322 05KENZIE 13	38 243376 05SODUS 138 1	243322 05KENZIE	243376	05SODUS	1	138	205 AEP	296	361	Base Case 0	6.3	-	2.12	0	0.02%	0.02%	0.02%
2851 246060 05HICKBY CK2 13	38 246994 05RICKMN 138 1	246060 05HICKBY CK2	246994	0.5RTCKMN	1	138	205 AEP	187	202	Base Case 0	3.9	-	2.11	0	0.06%	0.06%	0.02%
2852 243077 05PROMWY 13	38 243134 05W.CANTON1 138 1	243077 05PROMWY	243134	05W.CANTON1	1	138	205 AEP	219	255	Base Case 0	-4.5	-	2.07	0	-0.02%	-0.02%	-0.01%
2853 238596 02TX0-1 13	38 240249 02CHTAO-1 138 1	238596 021X0-1	240249	02CHTA0-1	1	138	202 ATST	273	332	Base Case	5.6	-	2.05	0	0.00%	0.00%	0.00%
2854 239053 02PVM015 13	38 239331 02NASHDING 138 1	239053 02PVM015	239331	02NASHRING	1	138	202 ATST	273	332	Base Case 0	5.6	-	2.00	0	0.08%	0.08%	-0.02%
2855 246974 05MT CS-1 34	45 246977 05MLCS45 345 1	246974 05MLCS-1	216977	05MLCS45	1	345	205 AFP	1296	1900	Base Case 0	-25.5	-	1 00	0	-0.02%	-0.02%	-0.02%
2856 242479 05PDVCHD 13	20 242574 05010545 545 1	240574 05MLCS 1	240577	OSPILICE VIEW	1	120	205 AEF	220	261	Base Case 0	_6 5		1.00	0	0.02%	0.02%	-0.02%
2050 243476 USBRASHR 13	20 243374 USSUNDURI 35 130 1	243470 03BRRSHR	243374	OSSUNBURI SS	1	120	205 AEF	167	167	Base Case 0	-0.5	024	1.50	0	0.04%	0.04%	-0.01%
2057 242341 USAFFLEZ 13	20 242277 DECODENC 120 1	242341 05AFFLE2	243040	OSMERCERVI Z	1	120	205 AEF	257	214	Base Case 0	-5.5		1.97	0	0.03%	0.03%	-0.05%
2650 243313 USHUNT J 13	38 243377 05SORENS 138 1	243313 05HUNT J	243377	OSSORENS	1	138	205 AEP	237	145	Base Case 0	-5		1.96	0	0.09%	0.09%	-0.04%
2059 243081 05R15G5N 13	38 244341 0550FTAIL 55 138 1	243081 05R15G5N	244341	OSSOFTALL SS	1	138	205 AEP	145	145	Base case 0	-2.8	-	1.96	0	0.00%	0.00%	0.00%
2860 242973 USBUCKH8 13	38 247253 05BUCKSS 138 1	242973 05BUCKH8	247253	USBUCKSS	1	138	205 AEP	150	212	Base Case 0	-2.9	-	1.96	0	0.00%	0.00%	0.00%
2861 253025 09GIVENS 13	38 253085 090RBANA 138 1	253025 09GIVENS	253085	09URBANA	1	138	209 DAY	201	220	Base Case 0	3.9	-	1.95	0	0.10%	0.10%	0.03%
2862 243465 05ADDISO 13	38 243561 05RODNEY SS 138 1	243465 05ADDISO	243561	05RODNEY SS	1	138	205 AEP	145	145	Base Case U	-2.8	-	1.94	0	-0.01%	-0.01%	-0.02%
2863 242649 05GARRSN 13	38 242689 USKANAWHAI 138 1	242649 05GARRSN	242689	05KANAWHA1	1	138	205 AEP	219	223	Base Case 0	-4.2	-	1.93	0	0.03%	0.03%	-0.16%
2004 239347 02LEAR 13	38 239348 02WORTHST 138 1	239347 02LEAR	239348	UZWORTHST	1	138	202 ATSI	278	343	Base Case 0	5.4	-	1.93	0	-0.07%	-0.07%	0.00%
2005 244187 05STINK RUN 13	38 244275 05WALHON MTR 138 Z1	244187 USSTINK RUN	244275	USWALHON MTR	Z1	138	205 AEP	205	284	Base Case 0	4	-	1.93	0	0.00%	0.00%	0.00%
2866 243545 05MILTON SS 13	38 246747 05MILTON8 138 Z1	243545 05MILTON SS	246747	05MILTON8	Z1	138	205 AEP	200	246	Base Case 0	3.8	-	1.91	0	0.00%	0.00%	0.00%
2867 242962 05BLDBGZ 13	38 247302 05BLDBG8 138 Z1	242962 05BLDBGZ	247302	05BLDBG8	Z1	138	205 AEP	140	140	Base Case 0	2.6	-	1.89	0	0.00%	0.00%	0.00%
2868 243253 05BLUFFP 13	38 243319 05JAY 138 1	243253 05BLUFFP	243319	05JAY	1	138	205 AEP	257	359	Base Case 0	4.8	-	1.89	0	0.00%	0.00%	0.02%
2869 238696 02ELWOD+ 13	38 238697 02ELWOOD 138 1	238696 02ELWOD+	238697	02ELWOOD	1	138	202 ATSI	164	206	Base Case 0	3.1		1.88	0	0.00%	0.00%	0.00%
2870 243878 05MEADOW 34	45 246975 05MLCS23 345 1	243878 05MEADOW	246975	05MLCS23	1	345	205 AEP	1286	1800	Base Case 0	-24	-	1.87	0	-0.02%	-0.02%	-0.02%
2871 242951 05ADDISONZ 13	38 244938 05ADDISON8 138 Z1	242951 05ADDISONZ	244938	05ADDISON8	Z1	138	205 AEP	205	205	Base Case 0	3.8	-	1.84	0	0.00%	0.00%	0.00%
2872 242508 05AMOS 76	65 242929 05NPROCT 765 1	242508 05AMOS	242929	05NPROCT	1	765	205 AEP	5138	5138	Base Case 0	94.3	-	1.84	0	2.35%	2.35%	1.21%
2873 243561 05RODNEY SS 13	38 246778 05RODNEY8 138 Z1	243561 05RODNEY SS	246778	05RODNEY8	Z1	138	205 AEP	145	177	Base Case 0	2.6	-	1.82	0	0.00%	0.00%	0.00%
2874 246927 05SAND H 13	38 247002 05WAYMSS 138 1	246927 05SAND H	247002	05WAYMSS	1	138	205 AEP	205	255	Base Case 0	-3.7	-	1.81	0	-0.12%	-0.12%	0.05%
2875 243532 05KIRK 13	38 244871 05RIDGELY 138 1	243532 05KIRK	244871	05RIDGELY	1	138	205 AEP	292	328	Base Case 0	5.3	-	1.81	0	-0.08%	-0.08%	0.04%
2876 243154 05WNDSR8 13	38 247277 05WNDSRZ 138 1	243154 05WNDSR8	247277	05WNDSRZ	1	138	205 AEP	205	205	Base Case 0	-3.7	-	1.81	0	0.00%	0.00%	0.00%
2877 243102 05SINK SP8SS 13	38 244942 05SINK SP8 138 Z1	243102 05SINK SP8SS	244942	05SINK SP8	Z1	138	205 AEP	185	249	Base Case 0	3.3	-	1.8	0	0.00%	0.00%	0.00%
2878 250036 08GLNVW1 13	38 250117 08TRMNL1 138 1	250036 08GLNVW1	250117	08TRMNL1	1	138	212 DE0&K	268	268	Base Case 0	-4.8	-	1.78	0	0.03%	0.03%	-0.01%
2879 243040 05MERCERVL 7 13	38 244944 05MERCERVL8 138 71	243040 05MERCERVL 7	244944	05MERCERVL8	Z1	138	205 AEP	200	200	Base Case 0	3.5	-	1.77	0	0.00%	0.00%	0.00%
2880 238547 02AT 34	45 239036 02PERRY 345 1	238547 02AT	239036	02PERRY	1	345	202 ATST	1534	1891	Base Case 0	-26.9	-	1.75	0	-3.28%	-3,28%	0.47%
			0		÷	0.0		2001	2001	0	-0.5		2	5	2.20/0	272070	

	А			В	С	D	E	F	G	НІ	J	К	L	М	N	0	Р	Q	R	S	T U
2881 250132 08WLDER1	138 25013	33 08WLDER2	138 Z1	250132	08WLDER1	250133	08WLDER2	Z1	138	212 DEO&K	468	468	Base Case	0	-8.1	-	1.73	0	-0.03%	-0.03%	-0.02%
2882 243520 05HARGUS	138 24356	69 05SCIPPO	138 1	243520	05HARGUS	243569	05SCIPPO	1	138	205 AEP	223	223	Base Case	0	-3.8	-	1.72	0	0.00%	0.00%	0.00%
2883 238960 02MIDW K	138 23916	63 02WATERV	138 1	238960	02MIDW K	239163	02WATERV	1	138	202 ATSI	308	376	Base Case	0	5.3	-	1.71	0	-0.05%	-0.05%	-0.01%
2884 242938 05MARQUI	345 25307	77 09STUART	345 1	242938	05MARQUI	253077	09STUART	1	345	205/209 AEP/DAY	1233	1372	Base Case	0	-21	-	1.71	0	-1.19%	-1.19%	-1.13%
2885 250054 08LONGBR	138 25007	77 08MTZION	138 1	250054	08LONGBR	250077	08MTZION	1	138	212 DEO&K	254	284	Base Case	0	4.3	-	1.7	0	-0.01%	-0.01%	0.12%
2886 242821 05SUNDL2	138 24282	28 05TENMIL	138 1	242821	05SUNDL2	242828	05TENMIL	1	138	205 AEP	219	223	Base Case	0	-3.7	-	1.69	0	0.03%	0.03%	-0.15%
2887 243336 05MANORZ	138 24640	01 05INDALEXL	138 1	243336	05MANORZ	246401	05INDALEXL	1	138	205 AEP	180	220	Base Case	0	3	-	1.69	0	0.00%	0.00%	0.00%
2888 250073 08MTCHL3	138 25011	10 08CENTRL	138 1	250073	08MTCHL3	250110	08CENTRL	1	138	212 DEO&K	264	264	Base Case	0	4.4	-	1.68	0	-0.03%	-0.03%	-0.02%
2889 242785 055 LYNC	138 24394	44 05GEORGE ST	138 1	242785	05S.LYNC	243944	05GEORGE ST	1	138	205 AEP	287	337	Base Case	0	4.8		1.67	0	-0.01%	-0.01%	-0.44%
2890 246929 05MADDOX	345 24693	30 05BLUECK	345 21	246929	0.5MADDOX	246930	05BLUECK	71	345	205 AEP	2365	2826	Base Case	0	-39.3	-	1.66	0	-0.03%	-0.03%	-0.03%
2891 249994 08CHBLES	138 25012	26 OSWENDWE	138 1	249994	08CHBLES	250126	08WENDWE	1	138	212 DEO&K	234	244	Base Case	0	3.8	-	1.64	0	-0.02%	-0.02%	-0.04%
2892 242972 05BLOOMED SS	138 24538	R4 OSBETHEL CH8	138 21	242972	05BLOOMED SS	245384	05BETHEL CH8	71	138	205 AEP	140	140	Base Case	0	2 3	-	1 64	0	0.00%	0.00%	0.00%
2893 250038 08COLEMP	138 25011	14 08TP7481	138 1	250038	08COLEMP	250114	08727481	1	138	212 DEOSK	406	408	Base Case	0	-6.6	-	1 64	0	0.03%	0.03%	0.03%
2894 243126 057HTVENEP17	138 2462	73 OSTUTVEND CC	139 71	243126	05TUTVENED17	246273	OSTUTVEND CC	71	130	205 AFP	320	361	Base Case	0	5.4	-	1 63	0	0.00%	0.00%	0.00%
2805 242221 05PHCPNF	246 2402	5 7DUNCONUTITE	245 1	243120	05FUCENE	240275	7DUNCONUTLE	1	245	205 /257 AED /AMTI	1602	1702	Base Case	0	27 6		1 62	0	0.62%	0.62%	0.00%
2005 245221 USEUGENE	130 34686	SA OENEGIME	120 1	245221	05EUGENE	340000	A PRIME CONTRACTOR	1	120	203/33/ AEF/AMIL	210	1/55	Base Case	0	27.0		1.03	0	0.03%	0.03%	0.01%
2050 246963 USWESESS	138 24696	04 USWESLMP	130 I	240903	OSWESESS	246964	OSWESLMP		130	205 AEP	202	200	Base Case	0	5.0	-	1.62	0	0.00%	0.00%	0.00%
2007 240187 USWARION HZ	130 24092	28 USWARION HI	130 41	240107	OSWARION HZ	240920	OSWARION HI	41	100	205 AEP	202	449	Base Case	0	0.2	-	1.02	0	0.00%	0.00%	0.00%
2090 242991 USE SIDE	138 24310	J8 USSIRLNI	138 1	242991	USE SIDE	243108	OSTRENI	1	138	205 AEP	251	201	Base case	0	4		1.6	0	-0.15%	-0.15%	-0.07%
2899 242950 USACADEM	138 24315	53 USWMIVER	138 1	242950	USACADEM	243153	USWMIVER	1	138	205 AEP	158	183	Base Case	0	-2.5	-	1.6	0	-0.06%	-0.06%	0.04%
2300 239113 02SP Q-2	138 23911	LO UZSPXFQ2	138 ZB	239113	UZSP Q-2	239116	UZSPXFQ2	ZB	138	ZUZ ATSI	999	999	Base Case	0	15.7	-	1.58	U	0.00%	0.00%	0.00%
2901 242792 05SCOTSV	138 24444	46 USSOAPSTONE	138 1	242792	USSCOTSV	244446	USSOAPSTONE	1	138	205 AEP	167	167	Base Case	0	-2.6	-	1.57	0	-0.30%	-0.30%	-0.65%
2902 238957 02MFLDQ2	138 24192	23 02ELQ3	138 1	238957	U2MFLDQ2	241923	U2ELQ3	1	138	202 ATSI	265	316	Base Case	0	4.1	-	1.56	0	-0.03%	-0.03%	0.01%
2903 250116 08TRENTON 1	138 25014	44 08HUSTRC	138 1	250116	08TRENTON_1	250144	08HUSTRC	1	138	212 DEO&K	178	178	Base Case	0	-2.8	-	1.55	0	-0.06%	-0.06%	-0.06%
2904 246325 05NOTTINGH56	138 24746	60 05NOTTINGH34	138 Z3	246325	05NOTTINGH56	247460	05NOTTINGH34	Z3	138	205 AEP	747	747	Base Case	0	-11.6	-	1.55	0	0.01%	0.01%	0.00%
2905 246325 05NOTTINGH56	138 24746	60 05NOTTINGH34	138 Z4	246325	05NOTTINGH56	247460	05NOTTINGH34	Z4	138	205 AEP	747	747	Base Case	0	-11.6	-	1.55	0	0.01%	0.01%	0.00%
2906 243036 05MEIG 2	138 24495	50 05WILKSVILLE	138 1	243036	05MEIG 2	244950	05WILKSVILLE	1	138	205 AEP	129	161	Base Case	0	2	-	1.54	0	0.00%	0.00%	0.00%
2907 243107 05SPENCR	138 24630	04 05BUCKINGHAM	138 1	243107	05SPENCR	246304	05BUCKINGHAM	1	138	205 AEP	100	130	Base Case	0	1.5	-	1.54	0	0.00%	0.00%	0.00%
2908 239163 02WATERV	138 23919	91 02JMDUTC	138 1	239163	02WATERV	239191	02JMDUTC	1	138	202 ATSI	308	376	Base Case	0	-4.7	-	1.54	0	0.05%	0.05%	0.01%
2909 238595 02BURTON	138 23870	08 02EVRGRN	138 1	238595	02BURTON	238708	02EVRGRN	1	138	202 ATSI	157	192	Base Case	0	2.4		1.53	0	-0.01%	-0.01%	0.00%
2910 238791 02HCQ-14	138 23905	52 02PV Q4	138 1	238791	02HCQ-14	239052	02PV Q4	1	138	202 ATSI	225	295	Base Case	0	3.4	-	1.53	0	0.08%	0.08%	-0.01%
2911 247803 05SEGRETO	345 25601	19 18PALISD	345 2	247803	05SEGRETO	256019	18PALISD	2	345	205/218 AEP/METC	1306	1530	Base Case	0	-19.9	-	1.52	0	0.39%	0.39%	0.08%
2912 243256 05CABOT SS	138 24678	BO 05CABOT	138 Z1	243256	05CABOT SS	246780	05CABOT	Z1	138	205 AEP	205	205	Base Case	0	3.1	-	1.51	0	0.00%	0.00%	0.00%
2913 238534 02ANGOLA	138 23878	86 02HAWTHO	138 1	238534	02ANGOLA	238786	02HAWTHO	1	138	202 ATSI	287	335	Base Case	0	-4.3		1.49	0	0.00%	0.00%	0.01%
2914 238589 02BRUSH	138 23930	07 02HARPERQ-21	138 1	238589	02BRUSH	239307	02HARPERQ-21	1	138	202 ATSI	143	146	Base Case	0	2.1	-	1.49	0	-0.02%	-0.02%	0.08%
2915 243252 05BIXLRT	138 24676	69 05MINERR	138 1	243252	05BIXLRT	246769	05MINERR	1	138	205 AEP	251	335	Base Case	0	-3.7	-	1.48	0	0.05%	0.05%	0.03%
2916 238656 02DBQ-11	138 23925	51 02GEQUTZ	138 1	238656	02DBQ-11	239251	02GEQUTZ	1	138	202 ATSI	258	308	Base Case	0	3.8	-	1.47	0	0.00%	0.00%	0.00%
2917 244020 05MINK	138 24682	26 05MINK T3	138 Z3	244020	05MINK	246826	05MINK T3	Z3	138	205 AEP	747	747	Base Case	0	11	22	1.47	0	0.00%	0.00%	0.00%
2918 247803 05SEGRETO	345 25601	19 18PALISD	345 1	247803	05SEGRETO	256019	18PALISD	1	345	205/218 AEP/METC	1409	1793	Base Case	0	-19.9	-	1.41	0	0.39%	0.39%	0.08%
2919 247146 05DALRD8	138 24783	31 05DALMATN SS	138 Z1	247146	05DALRD8	247831	05DALMATN SS	Z1	138	205 AEP	548	601	Base Case	0	-7.6	-	1.38	0	0.00%	0.00%	0.00%
2920 243206 05DUMONT	765 27064	44 WILTON ;	765 1	243206	05DUMONT	270644	WILTON ;	1	765	205/222 AEP/CE	3555	4105	Base Case	0	49	-	1.38	0	4.16%	4.16%	3.06%
2921 245264 05UTICA CAD	138 24746	61 05FREEBYRD	138 Z4	245264	05UTICA CAD	247461	05FREEBYRD	Z4	138	205 AEP	747	747	Base Case	0	-10.3	2	1.37	0	0.00%	0.00%	0.00%
2922 245264 05UTICA CAD	138 24746	61 05FREEBYRD	138 Z2	245264	05UTICA CAD	247461	05FREEBYRD	Z2	138	205 AEP	747	747	Base Case	0	-10.3		1.37	0	0.00%	0.00%	0.00%
2923 243003 05FAYETTE 7	138 24497	71 05FAYETTE8	138 Z1	243003	05FAYETTE Z	244971	05FAYETTE8	Z1	138	205 AEP	205	205	Base Case	0	2.8	-	1.36	0	0.00%	0.00%	0.00%
2924 238608 02CARLIL	138 2392	75 02FLDSTN	138 1	238608	02CARLJL	239275	02FLDSTN	1	138	202 ATST	233	2.82	Base Case	0	3.1	-	1.35	0	0.04%	0.04%	0.02%
2925 238956 02MELDO1	138 23901	11 02NP 0-1	138 1	238956	02MFLD01	239011	02NP 0-1	1	138	202 ATST	265	316	Base Case	0	-3.5	122	1.34	0	0.02%	0.02%	-0.01%
2926 243692 05HAZED1	138 24370	14 05VICCO	138 1	243692	05HAZRD1	243704	05VICCO	1	138	205 AEP	167	240	Base Case	0	-2.2	-	1 33	0	0.09%	0.09%	0.05%
2927 238578 02BORDMN	138 23890	98 02NEVADA	138 1	238578	02BORDMN	238998	02NEVADA	1	138	202 2051	265	316	Base Case	0	-3.5	_	1 32	0	-0.01%	-0.01%	0.04%
2928 238838 02 TTO-11	138 23900	15 02NHT011	139 1	238838	02 TTO-11	230005	02NHT011	1	130	202 ATOT	200	333	Base Case	0	-3.6	-	1 32	0	0.02%	0.01%	-0.03%
2020 242667 054111	120 2427	DO DENNIGII	120 1	230050	05010 11	242720	05NACEI	1	120	205 AFD	205	205	Dase Case	0	2.0	-	1 22	0	-0.01%	-0.01%	-0.03%
2020 220000 03HILL	120 242/2	DO DOTEMOUN	130 1	230004	OSTEMO P	2320000	OSTEMOVN	70	100	200 AEP	200	205	Page Case	0	2.1		1.32	U	-0.01%	-0.01%	0.10%
2921 242670 05U07 072	100 23885	22 OEMODIAN	100 1	238884	OFUOLOT2	238890	OEMODI N	4B	138	202 ATS1	5/9	743	Dase case	0	-/./		1.32	0	-0.02%	-0.02%	0.00%
2022 242670 USHULST2	130 24272	22 USMORLAN	130 1	242670	05HULSTZ	242722	O SMOKLAN	1	138	205 AEP	205	205	Dase Case	0	-2.1	-	1.31	0	-0.02%	-0.02%	-0.19%
2332 240108 U5KAMMER24	138 24612	20 USKAMMER TO	138 26	246108	USKAMMER24	246120	USKAMMER T6	26	138	205 AEP	383	449	Base Case	0	5	-	1.31	U	0.00%	0.00%	0.00%
2933 242594 05CHERCK	138 24260	J4 USCLIFFT	138 1	242594	USCHERCK	242604	USCLIFFT	1	138	205 AEP	251	335	Base Case	0	-3.3	-	1.3	0	0.04%	0.04%	0.12%
2934 249994 08CHRLES	138 25012	24 USWENDEA	138 1	249994	USCHRLES	250124	USWENDEA	1	138	212 DEO&K	234	244	Base Case	0	3	-	1.28	0	-0.01%	-0.01%	-0.04%
2935 250042 08HANDS1	138 25009	97 USSGROVE	138 1	250042	USHANDS1	250097	USSGROVE	1	138	212 DEO&K	194	194	Base Case	0	-2.5	-	1.28	0	-0.02%	-0.02%	-0.07%
2936 243085 055 CAD	138 24746	52 05STONEPLTSS	138 1	243085	05S CAD	247462	05STONEPLTSS	1	138	205 AEP	293	341	Base Case	0	3.7	-	1.27	0	0.21%	0.21%	-0.03%
293/238801 02HL Q-2	138 24028	B3 02LKSHQ3	138 1	238801	02HL Q-2	240283	02LKSHQ3	1	138	202 ATSI	235	271	Base Case	0	3	-	1.26	0	0.00%	0.00%	0.02%
2938 242704 05LOGAN1	138 24270	05 05LOGAN2	138 Z1	242704	05LOGAN1	242705	05LOGAN2	Z1	138	205 AEP	410	498	Base Case	0	-5.2	-	1.26	0	0.01%	0.01%	-0.14%
2939 247004 05GUYAND	138 24700	05 05MACOAL	138 Z1	247004	05GUYAND	247005	05MACOAL	Z1	138	205 AEP	195	220	Base Case	0	2.4	-	1.23	0	0.00%	0.00%	0.00%
2940 238796 02HGHLND	345 23930	03 02NILES	345 1	238796	02HGHLND	239303	02NILES	1	345	202 ATSI	1415	1745	Base Case	0	17.4	-	1.23	0	-0.76%	-0.76%	0.09%

	A			В	C	D	E	F	G	НІ	J	К	L M	N	0	Р	Q	R	S	T U
2941 243311 05ARN HOGAN	138 246913 05JONE	S	138 1	243311	05ARN HOGAN	246913	05JONES	1	138	205 AEP	257	360	Base Case (-3.1	-	1.22	0	-0.02%	-0.02%	-0.01%
2942 242651 05GLENL2	138 242721 05MORG	AN	138 1	242651	05GLENL2	242721	05MORGAN	1	138	205 AEP	134	167	Base Case (-1.6	-	1.22	0	0.07%	0.07%	0.29%
2943 243483 05CRCLVS	138 246784 05CIRC	V T1T2	138 Z1	243483	05CRCLVS	246784	05CIRCV T1T2	Z1	138	205 AEP	996	996	Base Case	12.1	-	1.21	0	0.00%	0.00%	0.00%
2944 243483 05CBCLVS	138 246784 05CTBC	V T1T2	138 22	243483	05CBCLVS	246784	05CIBCV T1T2	7.2	138	205 AEP	996	996	Base Case	12 1	-	1 21	0	0.00%	0.00%	0.00%
2945 238926 02LTV	138 238928 02LTV+		138 1	238926	021.TV	238928	021.TV+	1	138	202 ATST	153	186	Base Case	-1.9		1 21	0	0.00%	0.00%	0.00%
2946 253310 AC1-085 POT	345 253311 AC1-09	5 MAIN	345 1	253310	AC1-085 POT	253311	AC1-085 MAIN	1	345	209 DAY	9999	0000	Paso Caso	-120.7	-	1.21	0	-0.08%	-0.08%	-0.08%
2947 242497 05CHK TAD 7	120 242512 05DTAN	ONDICE	120 1	233310	ACT UUS TOT	2/2512	ACT 005 MAIN	1	120	205 205	216	242	Page Case	-2.6	100	1.21	0	-0.00%	-0.00%	-0.00%
2049 243467 USCHK TAF 2	130 243512 05DIAM	DD	120 1	243407	OSCHA IAF Z	243312	05DIAMONDI35	1	130	205 AEF	105	105	Dase Case	2.0		1.10	0	-0.01/6	-0.01/6	-0.02%
2040 243042 USMILLER FRI	130 243003 0JFIRE		120 1	243042	OSMILLER PRI	243009	OFILEBR	1	130	205 AEF	150	167	Dase Case	1.0		1.19	0	-0.10%	0.10%	0.02%
2949 242676 USINDIAS	130 242732 UJNBR3	11. m. owi	245 1	242070	001NDIA5	242/32	OSNERSIL OSUVARE ONI	1	130	205 AEP	130	1410	Dase Case	11.9	-	1.19	0	0.00%	0.00%	0.05%
2950 239133 02TANGI	130 240523 USHIAI	T SWI	345 I	239133	02TANGI 05PPPPPVPP	246523	OSHIATT SWI	1	120	202/203 ATS1/AEP	971	1419	Base Case	-11.5		1.10	0	0.42%	0.42%	0.30%
2951 247461 USFREEBIRD	130 24/462 055100	EPLISS	130 1	247461	OSFREEBIRD	24/402	05STONEPLISS	1	130	205 AEP	293	341	Base Case	-5.4	-	1.17	0	0.21%	0.21%	-0.03%
2952 243694 USINEZ	138 244572 USMAR1	IKI	138 1	243694	USINEZ	244572	USMARTIKI	1	138	205 AEP	257	349	Base Case	3	-	1.1/	0	0.00%	0.00%	0.00%
2955 243228 USMERIDN	345 243232 0550RE	NS	345 I	243228	USMERIDN	243232	USSORENS	1	345	205 AEP	897	897	Base Case	-10.4	-	1.10	0	0.50%	0.50%	0.42%
2954 238952 02MCD +	138 238953 02MCD	ST	138 1	238952	02MCD +	238953	02MCD ST	1	138	202 ATSI	195	195	Base Case	2.2	100	1.15	0	0.00%	0.00%	0.00%
2955 242829 05TENNE1	138 242830 05TENN	E2	138 21	242829	USTENNEL	242830	05TENNE2	21	138	205 AEP	483	483	Base Case (5.5	-	1.15	0	0.00%	0.00%	-0.02%
2956 239115 02SP Q-4	138 239117 02SPXF	Q4	138 ZB	239115	02SP Q-4	239117	02SPXFQ4	ZB	138	202 ATSI	999	999	Base Case () 11.4	-	1.14	0	0.00%	0.00%	0.00%
2957 242996 05EMERA8	138 247034 05EMER	SS	138 1	242996	05EMERA8	247034	05EMERSS	1	138	205 AEP	200	200	Base Case (-2.3	-	1.14	0	0.00%	0.00%	0.00%
2958 243378 05SPY RUN2	138 246373 05SPY	RUN1	138 Z1	243378	USSPY RUN2	246373	USSPY RUN1	Z1	138	205 AEP	410	498	Base Case (-4.7		1.14	0	0.00%	0.00%	0.03%
2959 238835 02JGSQ12	138 238881 02LTFC	16	138 1	238835	U2JGSQ12	238881	U2LTFQ16	1	138	202 ATSI	223	286	Base Case (2.5	-	1.14	0	-0.02%	-0.02%	0.00%
2960 243514 05RJF CORP Z	138 246228 05RJF	CORP	138 Z1	243514	USRJF CORP Z	246228	U5RJF CORP	Z1	138	205 AEP	282	366	Base Case	3.2	-	1.12	0	0.00%	0.00%	0.00%
2961 250087 08QUNGT1	138 250088 08QUNG	Т2	138 Z1	250087	08QUNGT1	250088	08QUNGT2	Z1	138	212 DEO&K	406	454	Base Case (-4.5	-	1.12	0	-0.01%	-0.01%	-0.02%
2962 242573 05CABELL	138 242717 05MILT	ON	138 1	242573	05CABELL	242717	05MILTON	1	138	205 AEP	167	167	Base Case (1.9	-	1.12	0	-0.07%	-0.07%	-0.05%
2963 238823 02INQ-14	138 238829 02IVYC	14	138 1	238823	02INQ-14	238829	02IVYQ14	1	138	202 ATSI	399	488	Base Case (-4.4	-	1.11	0	-0.03%	-0.03%	0.02%
2964 238719 02FMCQ12	138 238807 02HMLQ	12	138 1	238719	02FMCQ12	238807	02HMLQ12	1	138	202 ATSI	273	332	Base Case () 3	-	1.11	0	-0.09%	-0.09%	0.00%
2965 243567 05SBLMVL	138 247148 05SBLM	SS	138 Z1	243567	05SBLMVL	247148	05SBLMSS	Z1	138	205 AEP	195	220	Base Case) -2.2	-	1.11	0	0.00%	0.00%	0.00%
2966 242983 05CHANDLERVZ	138 245388 05CHAN	DLERV8	138 Z1	242983	05CHANDLERVZ	245388	05CHANDLERV8	Z1	138	205 AEP	205	205	Base Case (2.2	-	1.09	0	0.00%	0.00%	0.00%
2967 242940 05MUSKNG	345 247832 05LAME	ING	345 1	242940	05MUSKNG	247832	05LAMPING	1	345	205 AEP	915	971	Base Case (-9.8	-	1.07	0	1.65%	1.65%	-0.07%
2968 242646 05FT.ROB SS	138 242729 05NAGE	L	138 1	242646	05FT.ROB SS	242729	05NAGEL	1	138	205 AEP	205	205	Base Case (2.1	-	1.05	0	0.03%	0.03%	-0.09%
2969 247803 05SEGRETO	345 256019 18PALI	SD	345 3	247803	05SEGRETO	256019	18PALISD	3	345	205/218 AEP/METC	1447	1542	Base Case (-15.1	-	1.04	0	0.29%	0.29%	0.06%
2970 235703 01WYLIE R	500 239280 02CRNE	RY	500 1	235703	01WYLIE R	239280	02CRNBRY	1	500	201/202 AP/ATSI	3542	4149	Base Case (36.5		1.03	0	-9.02%	-9.02%	1.62%
2971 245647 05W.CAMP OSU	138 246907 05W.CA	MPUS	138 Z9	245647	05W.CAMP OSU	246907	05W.CAMPUS	Z 9	138	205 AEP	747	747	Base Case (-7.7	-	1.03	0	0.00%	0.00%	0.00%
2972 245647 05W.CAMP OSU	138 246907 05W.CA	MPUS	138 Z8	245647	05W.CAMP OSU	246907	05W.CAMPUS	Z8	138	205 AEP	747	747	Base Case (0 -7.7	-	1.03	0	0.00%	0.00%	0.00%
2973 245647 05W.CAMP OSU	138 246907 05W.CA	MPUS	138 Z7	245647	05W.CAMP OSU	246907	05W.CAMPUS	Z7	138	205 AEP	747	747	Base Case	-7.7	-	1.03	0	0.00%	0.00%	0.00%
2974 243306 05HARPER	138 243342 05MILA	N	138 1	243306	05HARPER	243342	05MILAN	1	138	205 AEP	167	245	Base Case (1.7	-	1	0	-0.03%	-0.03%	-0.02%
2975 243867 05FRCS34	345 243868 05FRCs	-3	345 1	243867	05FRCS34	243868	05FRCS-3	1	345	205 AEP	1001	1631	Base Case (-10	-	1	0	-0.01%	-0.01%	-0.01%
2976 243024 05HOWARD	138 243061 05NLEX	TN	138 1	243024	05HOWARD	243061	05NLEXTN	1	138	205 AEP	200	200	Base Case (2	-	0.99	0	0.01%	0.01%	-0.10%
2977 243455 05CONES	345 243456 05CORF	ID	345 1	243455	05CONES	243456	05CORRID	1	345	205 AEP	1217	1374	Base Case (11.7	-	0.96	0	0.20%	0.20%	-0.13%
2978 249987 08BETHNY	138 250084 08PARK	1	138 1	249987	08BETHNY	250084	08PARK1	1	138	212 DEO&K	394	394	Base Case (-3.8	-	0.96	0	0.06%	0.06%	0.06%
2979 238524 02AD Q-2	138 238915 02LRN	Q2	138 1	238524	02AD Q-2	238915	02LRN Q2	1	138	202 ATSI	265	316	Base Case (-2.5	-	0.96	0	-0.11%	-0.11%	0.00%
2980 238996 02NEQ-15	138 239013 02NSQ-	15	138 1	238996	02NEQ-15	239013	02NSQ-15	1	138	202 ATSI	273	332	Base Case (2.6	-	0.96	0	-0.08%	-0.08%	0.02%
2981 243083 05CAMPSS	138 243121 05ROCK	PO	138 1	243083	05CAMPSS	243121	05ROCKPO	1	138	205 AEP	145	177	Base Case	1.4		0.94	0	0.00%	0.00%	0.00%
2982 243885 05THORSS	138 243886 05COBE		138 1	243885	05THORSS	243886	05COBB	1	138	205 AEP	426	426	Base Case () 4	-	0.94	0	0.00%	0.00%	0.00%
2983 242634 05EDGEMO	138 242636 05FALL	BR	138 1	242634	05EDGEMO	242636	05FALLBR	1	138	205 AEP	167	240	Base Case (-1.6	-	0.94	0	0.06%	0.06%	0.05%
2984 238524 02AD Q-2	138 241928 02AVQ2		138 1	238524	02AD Q-2	241928	02AVQ2	1	138	202 ATSI	273	332	Base Case (2.5	-	0.93	0	-0.11%	-0.11%	0.00%
2985 243476 05BOLINSMLSS	138 246684 05BOLI	NS ML8	138 Z1	243476	05BOLINSMLSS	246684	05BOLINS ML8	Z1	138	205 AEP	200	200	Base Case	1.8		0.92	0	0.00%	0.00%	0.00%
2986 242704 05LOGAN1	138 242726 05MUDF	RK	138 1	242704	05LOGAN1	242726	05MUDFRK	1	138	205 AEP	251	309	Base Case	-2.3		0.91	0	-0.07%	-0.07%	-0.12%
2987 250061 08MDWAY2	138 250118 08TRMN	L2	138 1	250061	08MDWAY2	250118	08TRMNL2	1	138	212 DEO&K	275	275	Base Case	-2.5	-	0.91	0	0.03%	0.03%	-0.01%
2988 249581 08MELDAL	345 342838 7SPURI	OCK	345 1	249581	08MELDAL	342838	7SPURLOCK	1	345	212/320 DE0&K/EKPC	1274	1421	Base Case) 11.4	-	0.89	0	-0.46%	-0.46%	-0.65%
2989 243856 05.11G ST 1-6	138 247805 05SMTT	HMTLL8	138 1	243856	05JUG ST 1-6	247805	05SMTTHMTLL8	1	138	205 AEP	257	360	Base Case	2.3		0.89	0	0.00%	0.00%	0.00%
2990 243353 050LTVE	138 246092 05NEW	CAR BP	138 1	243353	050LTVE	246092	05NEW CAR BP	1	138	205 AEP	187	240	Base Case	1 1 6	-	0.87	0	-0.06%	-0.06%	-0.02%
2991 246092 05NEW CAP PD	138 246994 05PTCF	MN	138 1	2455555	OSNEW CAR BP	246001	05RTCKMN	1	130	205 AEP	1.87	230	Base Case	1 6	-	0.07	0	-0.06%	-0.06%	-0.02%
2992 243118 05511MMEP	138 247156 05cmm	MT	138 1	240092	05SUMMER	247156	05STEAMT	1	130	205 AEP	205	223	Base Case	-1 9		0.07	0	-0.17%	-0.17%	0.05%
2993 250059 08MAINUT	138 250147 08001	MB	138 1	250050	0.8MA TNUT	2501/7	08COLUMB	1	130	212 DEOLK	200	204	Base Case	1 2 6		0.07	0	-0.01%	-0.01%	-0.02%
2994 243379 059TATIVE	138 243384 05mptc	۵ ۳۰۰	138 1	243270	OSCHATTES	2433014/	05TDTED	1	130	205 350	250	220	Baco Caco	1 1 0	-	0.00	0	0.01%	0.01%	0.02%
2005 243671 050ENUED OD1	130 245504 USTRIE	NEE	130 1	243379	OSDEAUED CD1	243364	OSKEWANDE		100	205 AEP	213	201	Page Case	1.3	-	0.05	0	_0.00//6	_0.00/	0.03%
2996 243459 054VER CRI	345 246522 OSKEWA	T CW1	1J0 1	2430/1	05BEAVER CRI	240913	OSUVATE ON1	71	245	205 AEP	1270	1500	Base Case	11 5		0.84	0	0.00%	0.00%	0.06%
2350 243438 USHIATT	130 240323 USHIAT	1 SW1	120 1	243438	OFMAKAHOV	240323	OF ORDINAL	41	120	205 AEP	1370	1503	Dase Case	11.5	-	0.84	0	0.42%	0.42%	0.05%
2337 243920 USMAKAHOY	138 246988 USSTRW	10	138 1	243920	UJMAKAHOY	246988	USSTRWTN	1	138	ZUS AEP	205	284	Dase Case (-1./	-	0.84	0	-0.02%	-0.02%	-0.05%
2330 238938 UZMFLDQ3	138 239016 UZNT Q	10	130 1	238958	02MFLDQ3	239016	OZNT Q15	1	138	ZUZ ATSI	265	316	Dase Case	-2.2	-	0.83	0	0.02%	0.02%	-0.01%
2999 242817 05STONBR	138 24/242 05CHAP	55	138 1	242817	USSTONBR	247242	USCHAPSS	1	138	2U5 AEP	296	378	Base Case (2.4	-	0.82	0	-0.05%	-0.05%	-0.14%
3000 238905 02LNC.PK	138 239077 02RVEF	вD	138 1	238905	UZLNC.PK	239077	UZRVERBD	1	138	202 ATSI	275	333	Base Case (2.1	-	0.78	0	0.04%	0.04%	0.00%

		A		В	C	D	E	F	G	Н	1	Ĵ	К	L	М	Ν	0	Р	Q	R	S	T U
3001 238800 02HL Q-1	138	240281 02LKSHQ1	138 1	238800	02HL Q-1	240281	02LKSHQ1	1	138	202	ATSI	235	271	Base Case	0	-1.8		0.77	0	-0.01%	-0.01%	-0.01%
3002 242772 05BIVERV	138	247641 05GLADSTON	138 1	242772	05RIVERV	247641	0.5GLADSTON	1	138	205	AEP	296	413	Base Case	0	2.2	-	0.76	0	0.00%	0.00%	0.00%
3003 242621 05DARBH1	138	242626 05E HUNTING2	138 1	242621	05DARRH1	242626	5 05E HUNTING2	1	138	205	AEP	296	413	Base Case	0	2.1	-	0.71	0	0.01%	0.01%	0.03%
3004 243944 05CEORCE ST	138	243945 05LYNBROOK	138 1	243944	05GEORGE ST	243945	5 05LYNBROOK	1	138	205	AFP	548	590	Base Case	0	-3 0	-	0.71	0	0.01%	0.01%	0.44%
3005 242799 056AT TV1	130	242789 05651 102	130 1	242799	05CALTUI	2/2790	05CALTU2	71	120	205	750	297	337	Base Case	0	-2	-	0.69	0	0.02%	0.02%	0.13%
2006 238637 03CDD 10	120	242765 055ALIV2	120 1	242700	03CDD IS	242703	0.031KGH02	1	120	203	АПСТ	240	240	Base Case	0	1 6		0.09	0	0.02%	0.15%	0.02%
2007 238637 02CFF L3	130	240282 02163602	130 1	238037	OZCFF LS	240202	OZLKSRQZ	1	130	202	AIDI	240	240	Base Case	0	1.0		0.68	0	-0.13%	-0.13%	-0.02%
2000 242846 USWHARTN	130	242847 USWHARTZ	136 1	242040	USWHARIN	242047	OSWHARTZ	1	130	205	ALP	205	204	Base Case	0	-1.4	_	0.00	0	0.00%	0.00%	0.00%
3008 242649 USGARRSN	138	242776 USROCKHS	138 1	242649	USGARRSN	242776	0 USRUCKHS	1	138	205	AEP	219	223	Base Case	0	1.4	-	0.65	0	0.03%	0.03%	-0.10%
3009 243063 05N.NEWARK1	138	245964 USN.NEWARK2	138 ZI	243063	U5N.NEWARKI	245964	1 USN.NEWARKZ	21	138	205	AEP	164	180	Base Case	0	1.1	-	0.64	0	0.04%	0.04%	-0.12%
3010 246440 05S.OLIVE L8	138	247799 05S.OLIVE SS	138 Z1	246440	05S.OLIVE L8	247799	9 05S.OLIVE SS	Z1	138	205	AEP	296	400	Base Case	0	-1.9	-	0.64	0	0.00%	0.00%	0.00%
3011 238771 02GTQ-11	138	239118 02SSPQ11	138 1	238771	02GTQ-11	239118	3 02SSPQ11	1	138	202	ATSI	273	332	Base Case	0	-1.7	-	0.63	0	-0.06%	-0.06%	0.02%
3012 243695 05JOHNSC	138	246316 05STONE	138 1	243695	05JOHNSC	246316	5 05STONE	1	138	205	AEP	262	332	Base Case	0	1.6	-	0.63	0	-0.09%	-0.09%	-0.05%
3013 238586 02BRKSID	138	239168 02WELNGT	138 1	238586	02BRKSID	239168	3 02WELNGT	1	138	202	ATSI	105	135	Base Case	0	-0.6	-	0.62	0	0.09%	0.09%	-0.09%
3014 250136 08HILCRT	138	250166 HLCRST AB114	138 1	250136	08HILCRT	250166	5 HLCRST AB114	1	138	212	DEO&K	9999	9999	Base Case	0	-60.7	-	0.61	0	-0.04%	-0.04%	-0.04%
3015 238764 02GRANGR	138	239161 02WAKRON	138 1	238764	02GRANGR	239161	02WAKRON	1	138	202	ATSI	233	282	Base Case	0	-1.4	-	0.61	0	0.13%	0.13%	0.01%
3016 247824 05NUTALL	138	247826 05MOLLYS CRK	138 1	247824	05NUTALL	247826	5 05MOLLYS CRK	1	138	205	AEP	316	444	Base Case	0	-1.9	-	0.6	0	-0.14%	-0.14%	0.16%
3017 247702 05AZALEA	138	247703 05LEESVILLE	138 1	247702	05AZALEA	247703	05LEESVILLE	1	138	205	AEP	521	521	Base Case	0	-3.1	-	0.59	0	0.00%	0.00%	0.00%
3018 238586 02BRKSID	138	241111 02ASHLAND	138 1	238586	02BRKSID	241111	02ASHLAND	1	138	202	ATSI	167	245	Base Case	0	1	-	0.59	0	0.21%	0.21%	0.02%
3019 242535 05ALUMRG	138	242640 05FLOYD	138 1	242535	05ALUMRG	242640	05FLOYD	1	138	205	AEP	180	227	Base Case	0	-1	-	0.56	0	0.05%	0.05%	0.60%
3020 242544 05AXTON	138	242620 05DANVL2	138 1	242544	05AXTON	242620	05DANVL2	1	138	205	AEP	296	388	Base Case	0	-1.6	-	0.52	0	0.30%	0.30%	2.94%
3021 243884 05MORISB	138	243885 05THORSS	138 1	243884	05MORISB	243885	05THORSS	1	138	205	AEP	426	426	Base Case	0	-2.2	-	0.52	0	0.00%	0.00%	0.00%
3022 250124 08WENDEA	138	250126 08WENDWE	138 Z1	250124	08WENDEA	250126	5 08WENDWE	Z1	138	212	DEO&K	516	582	Base Case	0	2.7	-	0.51	0	-0.01%	-0.01%	0.00%
3023 250124 08WENDEA	138	250126 08WENDWE	138 2	250124	08WENDEA	250126	08WENDWE	2	138	212	DEO&K	516	582	Base Case	0	2.7	-	0.51	0	-0.01%	-0.01%	0.00%
3024 250123 08WARRN2	138	250147 08COLUMB	138 1	250123	08WARRN2	250147	08COLUMB	1	138	212	DEO&K	298	298	Base Case	0	-1.5	-	0.51	0	-0.01%	-0.01%	-0.02%
3025 243233 05TANNER	345	254524 16HANNA	345 1	243233	05TANNER	254524	1 16HANNA	1	345	205/216	AEP/IPL	1132	1132	Base Case	0	-5.3	-	0.47	0	-0.26%	-0.26%	0.01%
3026 246946 05WLDCAT	138	926101 AC1-089 MAIN	138 1	246946	05WLDCAT	926101	AC1-089 MAIN	1	138	205	AEP	9999	9999	Base Case	0	-45.4	-	0.45	0	-0.03%	-0.03%	-0.03%
3027 242812 05MINEBAL8	138	244283 05MINEBAL SS	138 21	242812	05MINERAL8	244283	05MINERAL SS	21	138	205	AEP	223	223	Base Case	0	-1	-	0.45	0	0.00%	0.00%	0.00%
3028 243082 05BOCKHILL1	138	245516 05ROCKHILL2	138 21	243082	05BOCKHILL1	245516	5 05BOCKHILL2	21	138	205	AEP	187	240	Base Case	0	0.8	_	0.45	0	0.00%	0.00%	-0.03%
3020 243552 05ROCKIII	120	246021 05W JANCAST2	120 1	243002	05ROCKHILDI	245510	05W LANCACE2	1	120	205	AED	206	112	Dase Case	0	1 2	_	0.43	0	-0.09%	-0.09%	-0.03%
3030 242696 05 TENIL DD CC	130	240021 05W. HANCAST2	130 1	240002	05 TEUL DD CC	240021	05NPECKI	1	120	205	AED	205	255	Base Case	0	-0.9		0.42	0	0.03%	0.03%	-0.07%
2021 220000 030EHO BK 33	245	242750 05NBECKL	245 1	242000	OOTEMOVN	242730	1 OMA THC	1	245	203		203	255	Base Case	0	2.6		0.4	0	0.03%	0.50%	0.10%
2022 238854 02KDMD03	120	204333 13MAJIC	120 1	230005	02LEMOIN	204393	O O O MEL DO O	1	120	202/219	AISI/IICI	170	220	Base Case	0	5.0		0.38	0	0.30%	0.30%	0.10%
3032 238854 02KDTPQ3	138	238958 UZMFLDQ3	138 1	238854	02KDTPQ3	238958	3 UZMFLDQ3	1	138	202	ATSI	1/6	229	Base Case	0	-0.7	-	0.38	0	0.14%	0.14%	-0.04%
3033 243497 05DELANO	138	243570 USCLAYBN	138 1	243497	05DELANO	243570	0 USCLAYBN	1	138	205	AEP	323	449	Base Case	0	-1.2	-	0.37	0	0.00%	0.00%	0.05%
3034 246911 05HIGHLA	138	247035 05NMARSS	138 1	246911	05HIGHLA	247035	0 USNMARSS	1	138	205	AEP	223	223	Base Case	0	-0.8	-	0.37	0	0.07%	0.07%	0.05%
3035 242683 05J.EARL	138	244287 USWOLF GLADE	138 1	242683	05J.EARL	244287	/ U5WOLF GLADE	1	138	205.	AEP	219	251	Base Case	0	0.8		0.35	0	-0.02%	-0.02%	-0.06%
3036 243537 05MALIS	138	243538 05MALISX	138 SR	243537	05MALIS	243538	3 05MALISX	SR	138	205.	AEP	820	928	Base Case	0	-2.8	-	0.34	0	0.00%	0.00%	0.00%
3037 247864 05LOGTOWN	138	247926 T131 TR	138 1	247864	05LOGTOWN	247926	5 T131 TR	1	138	205.	AEP	9999	9999	Base Case	0	-31.8	-	0.32	0	-0.02%	-0.02%	-0.02%
3038 243903 05GUNN RD SS	345	247540 U2-072 C	345 Z1	243903	05GUNN RD SS	247540	0 U2-072 C	Z1	345	205.	AEP	9999	9999	Base Case	0	-31.2		0.31	0	-0.02%	-0.02%	-0.02%
3039 242933 05RPMONE	345	243211 05ALLEN	345 1	242933	05RPMONE	243211	05ALLEN	1	345	205	AEP	897	897	Base Case	0	-2.6	-	0.29	0	-0.95%	-0.95%	-0.25%
3040 243209 05ROCKPT	765	247133 05ROCKP WRK1	765 Z7	243209	05ROCKPT	247133	05ROCKP WRK1	Z7	765	205	AEP	6330	7590	Base Case	0	18.3	-	0.29	0	0.00%	0.00%	0.00%
3041 243209 05ROCKPT	765	247135 05ROCKP WRK2	765 Z8	243209	05ROCKPT	247135	5 05ROCKP WRK2	Z8	765	205	AEP	6330	7590	Base Case	0	18.3	-	0.29	0	0.00%	0.00%	0.00%
3042 246407 05CABIN CRK2	138	247064 05KANAWHA2	138 2	246407	05CABIN CRK2	247064	1 05KANAWHA2	2	138	205	AEP	187	240	Base Case	0	-0.5	-	0.26	0	0.08%	0.08%	0.19%
3043 243356 050S0L01	138	247541 050SOL02	138 Z1	243356	050SOL01	247541	050SOLO2	Z1	138	205	AEP	329	361	Base Case	0	-0.9	-	0.26	0	0.04%	0.04%	0.02%
3044 243257 05CALVERTZ	138	246411 05CALVERT	138 Z1	243257	05CALVERTZ	246411	05CALVERT	Z1	138	205	AEP	158	183	Base Case	0	0.4	-	0.25	0	0.00%	0.00%	0.00%
3045 238529 02AIRPK+	138	238703 02ESPRNG	138 1	238529	02AIRPK+	238703	02ESPRNG	1	138	202	ATSI	200	242	Base Case	0	-0.5	-	0.25	0	0.07%	0.07%	0.02%
3046 238880 02LTFQ15	138	240247 02CK TP15	138 1	238880	02LTFQ15	240247	02CK TP15	1	138	202	ATSI	273	332	Base Case	0	0.7	-	0.25	0	0.01%	0.01%	-0.01%
3047 242510 05BAKER	765	242513 05CULLOD	765 1	242510	05BAKER	242513	05CULLOD	1	765	205	AEP	4047	4571	Base Case	0	-9.7	-	0.24	0	1.82%	1.82%	-0.93%
3048 243867 05FRCS34	345	243871 05FRCS-4	345 1	243867	05FRCS34	243871	05FRCS-4	1	345	205	AEP	9999	9999	Base Case	0	-23.2	-	0.23	0	-0.01%	-0.01%	-0.01%
3049 250063 08MHLTY1	138	250069 08MPLKL2	138 1	250063	08MHLTY1	250069	08MPLKL2	1	138	212	DEO&K	266	266	Base Case	0	-0.6	120	0.23	0	-0.01%	-0.01%	0.00%
3050 238913 02LRCRQ2	138	238914 02LRCRQ3	138 ZB	238913	02LRCRQ2	238914	1 02LRCRQ3	ZB	138	202	ATSI	2500	2500	Base Case	0	5.6	-	0.22	0	0.04%	0.04%	-0.01%
3051 243878 05MEADOW	345	930041 AB1-006 C	345 1	243878	05MEADOW	930041	AB1-006 C	1	345	205	AEP	9999	9999	Base Case	0	-20.8	-	0.21	0	-0.01%	-0.01%	-0.01%
3052 243792 05LOSANTVILL	345	247543 V3-007 C	345 Z1	243792	05LOSANTVILL	247543	3 V3-007 C	Z1	345	205	AEP	9999	9999	Base Case	0	-20.8	_	0.21	0	-0.01%	-0.01%	-0.01%
3053 238761 02GPPR +	138	238970 02MRST +	138 1	238761	02GPPR +	238970	02MRST +	1	138	202	ATSI	200	242	Base Case	0	-0.4	-	0.19	0	0.00%	0.00%	0.00%
3054 242591 05CENTER	138	242724 05MOSELEY	138 1	242501	05CENTER	242724	1 05MOSELEY	1	138	202	AEP	167	245	Base Case	0	-0 3	_	0.19	0	-0.04%	-0.04%	-0.24%
3055 238720 02EMC013	138	238808 02HML013	138 1	238720	02FMC013	238800	02HML013	1	130	200	ATST	1 9 1	245	Base Case	0	0.5	_	0.10	0	-0 10%	-0.10%	-0.01%
3056 242574 05CADIN CDV1	130	242689 05KANAMUA1	138 1	2/257/	OSCARIN COVI	2/2600	05KANAMUA1	1	130	202	AFP	191	240	Base Case	0	0.4		0.10	0	-0.08%	-0.08%	-0.19%
3057 245876 050XEOPD MO	130	247462 059TONEDITEC	138 71	242374	050XEORD MO	242003	0.5STONEDI TOO	71	120	205	AFD	205	210	Baco Case	0	-0.3		0.10	0	0.00%	0.00%	0.00%
3058 243319 05 TAV	120	033501 202-176 MATH	138 1	243070	05.TAV	022501	202-176 MATH	1	120	203	AFD	0000	203	Base Case	0	-12 =	_	0.14	0	-0.01%	-0.01%	-0.01%
3059 243035 050AI	1 2 0	242020 05METC17	130 1	243319	05METC 1	2/2020	05METC17	1 1	100	203	APD	1 = 0	100	Page Case	0	-13.3	_	0.13	0	0.00%	0.00%	0.00%
2060 242652 050DANET	130	243030 UJMEIGIZ	120 1	243035	OFCRANDU	243038	AD1 212 map	1	138	205	ADP	861	183	Dase Case	U	-0.2	-	0.13	0	0.00%	0.00%	0.00%
3000 242653 05GRANDV	138	939800 AE1-212 TAP	138 1	242653	USGRANDV	939800	JAE1-212 TAP	1	138	205	AEP	9999	9999	Base Case	0	12.3	-	0.12	0	0.04%	0.04%	0.12%

		A			В	C	D E	F	G	Н	1	J	К	L	М	N	0	Р	Q	R	S	T U
3061 242604 05CLIFFT	138	939800 AE1-212	TAP	138 1	242604	05CLIFFT	939800 AE1-212 TAP	1	138	205	AEP	9999	9999	9 Base Case	0	-12.3	-	0.12	0	0.04%	0.04%	0.12%
3062 246407 05CABIN CRK2	138	246409 05CABIN	С Т8	138 ZL	246407	05CABIN CRK2	246409 05CABIN C T8	ZL	138	205	AEP	369	369	9 Base Case	0	-0.5		0.12	0	0.01%	0.01%	-0.01%
3063 242544 05AXTON	138	242619 05DANVL	1	138 2	242544	05AXTON	242619 05DANVL1	2	1.38	205	AEP	296	398	8 Base Case	0	0.4	-	0.12	0	-0.20%	-0.20%	-1.95%
3064 242735 05NPOINT	138	247242 05CHAPS	s	138 1	242735	05NPOINT	247242 05CHAPSS	1	138	205	AEP	389	559	9 Base Case	0	-0.5	-	0.12	0	-0.02%	-0.02%	-0.31%
3065 242570 05BUCHAN	138	242690 05KEENM	r	138 1	242570	05BUCHAN	242690 05KEENMT	1	138	205	AEP	116	116	6 Base Case	0	-0.1	-	0.11	0	0.00%	0.00%	0.00%
3066 243278 05DESOTO	138	243296 05GASTO	- N	138 1	243278	05055070	243296 05GASTON	1	138	205	AEP	223	310	0 Base Case	0	-0.2	-	0.11	0	-0.05%	-0.05%	-0.04%
3067 243784 055 BTLB	345	247105 05VABNE	R	345 72	243784	055 BTLR	247105 05VARNER	7.2	345	205	AEP	99999	99999	9 Base Case	0	-110	_	0.11	0	0.00%	0.00%	0.00%
3068 243784 058 BTLP	345	247105 05VARNE	P	345 73	243784	055 BTIR	247105 05VARNER	73	345	205	AFD	99999	99999	Base Case	0	-110	-	0.11	0	0.00%	0.00%	0.00%
3069 243784 058 BTLR	345	247105 05VARNE	D	345 21	243704	055.DTDR	247105 05VARIVER	71	345	205	ADI	00000	00000	Base Case	0	_110		0.11	0	0.00%	0.00%	0.00%
3070 243689 0547PPFP	139	247105 05VARAE	u	138 1	243704	05UADBED	243975 0500FTCH	1	139	205	AFD	194	19/	A Baso Caso	0	-0.2	_	0.11	0	0.00%	0.00%	0.00%
2071 242544 053XTON	120	243675 0530F15	v	120 00	243009	0.5 A XTON	243545 0530F13H	CD	120	205	ADD	606	745	7 Page Case	0	-0.7		0.11	0	0.00%	0.00%	0.00%
2072 242030 05MELMOD	130	242343 UJAAION	~	130 BK	242344	0 SAXION	242545 USANIONA	JR 71	130	205	AEF	090	0000	7 Base Case	0	-0.7		0.11	0	0.00%	0.00%	-0.02%
2072 243039 05MELMOR	1 2 0	247551 04-020	~	120 21	243039	0 SMELMOR	247551 04-028 C	21	120	205	AEF	0000	0000	Base Case	0	-10.4		0.1	0	-0.01%	-0.01%	-0.01%
2074 246252 OFUNITIAND2	120	247552 04-029	~	130 21	243039	O SMELMOR	247552 04-029 C	21	100	205	ALF	99999	9995	9 Base Case	0	-10.4	_	0.1	0	-0.01%	-0.01%	-0.01%
3074 246352 USHAVILAND2	138	247563 VI-011		138 1	246352	05HAVILAND2	247563 VI-011	1	138	205	AEP	99999	9999	9 Base case	0	-10.4	-	0.1	0	-0.01%	-0.01%	-0.01%
3075 243000 05EW0051	130	243156 05W0051	5	130 1	243000	05EWOUST	243138 05W0051E	00	130	205	ALP	107	203	Base Case	0	0.2	_	0.1	0	0.19%	0.19%	-0.05%
3076 242855 05WYOMIN	138	242857 05WYOMX	2	138 SR	242855	USWYOMIN	242857 05WYOMX2	SR	138	205	AEP	696	747	7 Base Case	0	-0.7	-	0.09	0	0.00%	0.00%	0.00%
3077 242855 05WYOMIN	138	242856 05WYOMX	1	138 SR	242855	USWYOMIN	242856 05WYOMX1	SR	138	205	AEP	696	/4/	/ Base Case	0	-0.7	-	0.09	0	0.00%	0.00%	0.00%
3078 243689 05HARBER	138	243700 05SPICE	N	138 1	243689	05HARBER	243700 05SPICEW	1	138	205	AEP	219	255	5 Base Case	0	0.2		0.09	0	0.00%	0.00%	0.00%
3079 242776 05ROCKHS	138	242820 05SUNDL	1	138 1	242776	05ROCKHS	242820 05SUNDL1	1	. 138	205	AEP	219	223	3 Base Case	0	-0.2	-	0.08	0	-0.03%	-0.03%	0.16%
3080 243350 05NICKER	138	243376 05SODUS		138 1	243350	05NICKER	243376 05SODUS	1	. 138	205	AEP	219	255	5 Base Case	0	-0.2	-	0.08	0	0.02%	0.02%	0.02%
3081 247926 T131 TR	138	926862 AC1-173	MAIN	138 1	247926	T131 TR	926862 AC1-173 MAIN	1 1	. 138	205	AEP	9999	9999	9 Base Case	0	-7.9	-	0.08	0	-0.01%	-0.01%	-0.01%
3082 250171 080AKBK1	138	250172 08AERO		138 1	250171	080AKBK1	250172 08AERO	1	138	212	DEO&K	301	301	1 Base Case	0	-0.2		0.07	0	-0.01%	-0.01%	-0.01%
3083 238773 02GTQ-13	138	239119 02SSPQ1	3	138 1	238773	02GTQ-13	239119 02SSPQ13	1	. 138	202	ATSI	273	332	2 Base Case	0	-0.2	-	0.07	0	-0.05%	-0.05%	-0.01%
3084 244745 05BABBIT1-2	138	245491 05BABBI	r3-4	138 Z1	244745	05BABBIT1-2	245491 05BABBIT3-4	Z1	138	205	AEP	99999	99999	9 Base Case	0	53.1	-	0.05	0	0.00%	0.00%	0.00%
3085 244745 05BABBIT1-2	138	245491 05BABBI	F3-4	138 Z2	244745	05BABBIT1-2	245491 05BABBIT3-4	Z2	138	205	AEP	99999	99999	9 Base Case	0	53.1	-	0.05	0	0.00%	0.00%	0.00%
3086 238640 02CRISS	138	239073 02ROBER	г	138 1	238640	02CRISS	239073 02ROBERT	1	. 138	202	ATSI	152	179	9 Base Case	0	-0.1	-	0.05	0	0.04%	0.04%	-0.04%
3087 242638 05FIELDALE1	138	244390 05FIELD	ALE3	138 Z1	242638	05FIELDALE1	244390 05FIELDALE3	Z1	138	205	AEP	99999	99999	9 Base Case	0	45	-	0.04	0	0.02%	0.02%	0.58%
3088 244390 05FIELDALE3	138	244904 05FIELD	ALE4	138 ZF	244390	05FIELDALE3	244904 05FIELDALE4	ZF	138	205	AEP	99999	99999	9 Base Case	0	44.9	-	0.04	0	0.02%	0.02%	0.58%
3089 243799 05FIELDALE2	138	244904 05FIELD	ALE4	138 Z2	243799	05FIELDALE2	244904 O5FIELDALE4	Z2	138	205	AEP	99999	99999	9 Base Case	0	-44.9	-	0.04	0	0.02%	0.02%	0.58%
3090 242534 05ALLOY	138	247535 R-076		138 Z1	242534	05ALLOY	247535 R-076	Z1	138	205	AEP	9999	9999	9 Base Case	0	-4.4	-	0.04	0	0.00%	0.00%	0.00%
3091 242566 05BROADF	138	242567 05BROAD	Х	138 SR	242566	05broadf	242567 05BROADX	SR	138	205	AEP	348	370	0 Base Case	0	0.1	-	0.04	0	0.00%	0.00%	0.00%
3092 246931 05BLUECK	115	246932 05BLCKC	S	115 1	246931	05BLUECK	246932 05BLCKCS	1	. 115	205	AEP	99999	99999	9 Base Case	0	-39.3	-	0.04	0	-0.03%	-0.03%	-0.03%
3093 238997 02NEQ-16	138	239014 02NSQ-1	6	138 1	238997	02NEQ-16	239014 02NSQ-16	1	. 138	202	ATSI	278	339	9 Base Case	0	0.1	-	0.04	0	-0.09%	-0.09%	0.03%
3094 243266 05COUNTR	138	247620 Y3-023		138 1	243266	05COUNTR	247620 Y3-023	1	138	205	AEP	9999	9999	9 Base Case	0	-3.6	-	0.04	0	0.00%	0.00%	0.00%
3095 249995 08CLINCO	138	250122 08WARRN	1	138 1	249995	08CLINCO	250122 08WARRN1	1	138	212	DEO&K	198	198	8 Base Case	0	-0.1	-	0.04	0	-0.13%	-0.13%	-0.13%
3096 242684 05J.FERR	138	242685 05J.FER	Х	138 SR	242684	05J.FERR	242685 05J.FERX	SR	138	205	AEP	383	449	9 Base Case	0	0.1	-	0.03	0	0.00%	0.00%	0.00%
3097 238853 02KDTPQ1	138	238956 02MFLDQ	1	138 1	238853	02KDTPQ1	238956 02MFLDQ1	1	. 138	202	ATSI	176	229	9 Base Case	0	0.1	-	0.03	0	-0.14%	-0.14%	0.05%
3098 243856 05JUG ST 1-6	138	246647 05JUG S	г т1	138 Z1	243856	05JUG ST 1-6	246647 05JUG ST T1	Z1	138	205	AEP	99999	99999	9 Base Case	0	30	-	0.03	0	0.00%	0.00%	0.00%
3099 242955 05APPLE VLYZ	138	245566 05APPLE	VLY8	138 Z1	242955	05APPLE VLYZ	245566 05APPLE VLY8	Z1	138	205	AEP	23205	23205	5 Base Case	0	6.7	-	0.03	0	0.00%	0.00%	0.00%
3100 243786 05WILMINGTON	138	247106 05VARNE	R	138 Z1	243786	05WILMINGTON	247106 05VARNER	Z1	138	205	AEP	99999	99999	9 Base Case	0	-28	-	0.03	0	0.00%	0.00%	0.00%
3101 239312 02NS-YORK	138	239348 02WORTH	ST	138 1	239312	02NS-YORK	239348 02WORTHST	1	. 138	202	ATSI	278	343	3 Base Case	0	-0.1		0.03	0	-0.07%	-0.07%	0.00%
3102 242745 05PEAKCK	138	270147 AE1-018	С	138 1	242745	05PEAKCK	270147 AE1-018 C	1	. 138	205	AEP	9999	9999	9 Base Case	0	-2.2		0.02	0	0.00%	0.00%	0.00%
3103 244412 05WTRV SLR C	138	247134 05EWATR	v	138 1	244412	05WTRV SLR C	247134 05EWATRV	1	138	205	AEP	9999	9999	9 Base Case	0	1.8	-	0.02	0	0.00%	0.00%	0.00%
3104 243856 05JUG ST 1-6	138	247065 05JUG S	г т2	138 Z1	243856	05JUG ST 1-6	247065 05JUG ST T2	Z1	138	205	AEP	99999	99999	9 Base Case	0	13.4	-	0.01	0	0.00%	0.00%	0.00%
3105 239099 02SENECA	138	239935 02MARKW	EST	138 1	239099	02SENECA	239935 02MARKWEST	1	138	202	ATSI	312	380	0 Base Case	0	0	-	0.01	0	0.68%	0.68%	-0.05%
3106 243517 05CAP AV	138	247643 Z2-116	c	138 1	243517	05CAP AV	247643 Z2-116 C	1	138	205	AEP	9999	9999	9 Base Case	0	-1	-	0.01	0	0.00%	0.00%	0.00%
3107 243382 05TANNER CK1	138	245407 05TANNE	R CK2	138 Z1	243382	05TANNER CK1	245407 05TANNER CK2	Z1	138	205	AEP	213	280	0 Base Case	0	0	-	0.01	0	0.00%	0.00%	0.00%
3108 242737 050POSSUMCK	138	247765 050POSU	MC CB	138 21	242737	050POSSUMCK	247765 050POSUMC CE	21	138	205	AEP	358	421	1 Base Case	0	0	-	0.01	0	0.00%	0.00%	0.00%
3109 242737 050P0SSUMCK	138	246414 050POSU	MC CA	138 72	242737	050POSSUMCK	246414 050POSUMC CF	7.2	138	205	AEP	410	527	7 Base Case	0	0	-	0.01	0	0.00%	0.00%	0.00%
3110 907200 AD1-103 TAP	345	934760 AD1-103	MATN	345 1	907200	AD1-103 TAP	934760 AD1-103 MATH	1	345	202	ATST	100	100	Base Case	0	0	-	0.01	0	0.00%	0.00%	0.00%
3111 243518 05GROVES	138	246760 05REFUG	E	138 1	243519	05GROVES	246760 05REFUGE	1	138	205	AEP	209	200	9 Base Case	0	0	_	0	0	-0.02%	-0.02%	0.00%
3112 242807 05SPORM	138	247040 05MOUNT	N	138 2	242807	05SPORN	247040 05MOUNTN		130	205	AEP	219	251	1 Base Case	0	0	-	n i	0	0.00%	0.00%	0.00%
3113 242807 058DODM	138	247040 05MOUNT	N	138 1	242007	05SPORM	247040 05MOUNTN	1	130	203	AEP	210	251	1 Base Case	0	0		0	0	0.00%	0.00%	0.00%
3114 934750 AD1-102 TAD	138	934751 AD1-102	MATN	138 1	034750	AD1-102 TAP	934751 AD1-102 MATA		120	200	AEP	9000	0000	9 Base Case	0	0	_	0	0	0.00%	0.00%	0.00%
3115 926010 AC1_070 man	130	926015 AC1-079	MATM	138 1	026010	AC1-079 TAP	926015 AC1-079 MAIN		120	203	ATCT	2222	2225	7 Base Case	0	0		0	0	0.00%	0.00%	0.00%
3116 037246 AD2-162 MATH	120	220013 ACT-0/8	POT	130 1	920010	AD2-162 MATH	037247 AD2-162 DOT		120	202	ANGT	0000	0000	Base Case	0	0		0	0	0.00%	0.00%	0.00%
2117 029700 AF1_000 MAIN	120	020701 AD2-103	1.01	120 1	020700	ADZ-103 MAIN	029701 AF1-002 CON	1	120	202	NIGT	2229	2295	Dase Case	0	0	_	0	0	0.00%	0.00%	0.00%
3118 020000 AE1 012 MAP	100	020001 AE1-092	MAIN	130 I	930700	AF1_012 TAP	020001 AE1-092 GSU		100	209	AFD	200	200	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3119 247712 05000 ABI-212 TAP	700	933001 AE1-212	MAIN	130 I	008666	ADI-ZIZ IAP	033440 202 157 MAIN		245	205	AEF	9999	9995	Pase Case	0	0	-	0	0	0.00%	0.00%	0.00%
2120 247/12 USSULLIVAN	343	935440 ACZ-15/	MAIN	245 L	24//12	UDSULLIVAN	933440 AC2-137 MAIN		345	205	AEF	9999	9999	Dase case	0	0		0	0	0.00%	0.00%	0.00%
5120 24/300 UZ-041 C	343	723130 AB2-170	MAIN	343 I	24/506	U2-041 C	223130 ABZ-1/0 MAIN	- L	. 345	205	ALF	9999	3333	plase case	0	0	-	0	0	0.00%	0.00%	0.00%

A	B C	D E	F	G	H I	J	К	L M	N O	Р	Q	R	S	T U
3121 932050 AC2-015 TAP 138 932051 AC2-015 MAIN 138 1	932050 AC2-015 TAP	932051 AC2-015 MAIN	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3122 243902 05HARDIN SS 345 247506 U2-041 C 345 1	243902 05HARDIN SS	247506 U2-041 C	1	345	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3123 247712 05SULLIVAN 345 930470 AB1-088 MAIN 345 1	247712 05SULLIVAN	930470 AB1-088 MAIN	1	345	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3124 247712 05SULLIVAN 345 930460 AB1-087 MAIN 345 1	247712 05SULLIVAN	930460 AB1-087 MAIN	1	345	205 AEP	9999	9999 B	ase Case 0	0 –	0	0	0.00%	0.00%	0.00%
3125 238704 02ET Q-1 138 240249 02CHIAQ-1 138 1	238704 02ET Q-1	240249 02CHIAQ-1	1	138	202 ATSI	273	332 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3126 243076 05CONESPREPZ 138 247725 05CONESPREP 138 1	243076 05CONESPREPZ	247725 05CONESPREP	1	138	205 AEP	145	177 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3127 247460 05NOTTINGH34 138 926250 AC1-103 GSU1 138 1	247460 05NOTTINGH34	926250 AC1-103 GSU1	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3128 247460 05NOTTINGH34 138 926251 AC1-103 GSU2 138 1	247460 05NOTTINGH34	926251 AC1-103 GSU2	1	138	205 AEP	9999	9999 B	ase Case 0	0 –	0	0	0.00%	0.00%	0.00%
3129 243682 05CONSOL 138 243683 05CONSTP 138 1	243682 05CONSOL	243683 05CONSTP	1	138	205 AEP	205	284 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3130 243902 05HARDIN SS 345 934982 AD1-130 MAIN 345 1	243902 05HARDIN SS	934982 AD1-130 MAIN	1	345	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3131 935040 AD1-140 TAP 138 935041 AD1-140 MAIN 138 1	935040 AD1-140 TAP	935041 AD1-140 MAIN	1	138	202 ATSI	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3132 244198 05LEMASTER 138 244569 05LEMAST CAP 138 Z1	244198 05LEMASTER	244569 05LEMAST CAP	Z1	138	205 AEP	822	902 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3133 243541 05METALC 138 246765 050UTERB 138 1	243541 05METALC	246765 050UTERB	1	138	205 AEP	97	97 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3134 249981 08AKSTEEL2 138 250169 08AK STL CAP 138 1	249981 08AKSTEEL2	250169 08AK STL CAP	1	138	212 DEO&K	84	89 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3135 250106 08TODHJT 138 250168 TRENTON 2 138 1	250106 08TODHJT	250168 TRENTON 2	1	138	212 DEO&K	185	198 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3136 238533 02AMSTED 138 238575 02BLUBEL 138 1	238533 02AMSTED	238575 02BLUBEL	1	138	202 ATSI	50	50 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3137 239038 02PGQ-12 138 239040 02PGTP12 138 1	239038 02PGQ-12	239040 02PGTP12	1	138	202 ATSI	115	115 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3138 247757 05HERLAN SW 138 247843 05HERLAN CAP 138 Z1	247757 05HERLAN SW	247843 05HERLAN CAP	Z1	138	205 AEP	23205	23205 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3139 939390 AE1-170 POI 138 939391 AE1-170 MAIN 138 1	939390 AE1-170 POI	939391 AE1-170 MAIN	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3140 245332 05ANG1-2_CAP 138 246177 05ANGUIN1-2 138 Z1	245332 05ANG1-2 CAP	246177 05ANGUIN1-2	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3141 247106 05VARNER 138 247107 05VARNER CAP 138 Z1	247106 05VARNER	247107 05VARNER CAP	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3142 243575 05ST.CLR 138 247716 05ST.CLR MSC 138 Z1	243575 05ST.CLR	247716 05ST.CLR MSC	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3143 243575 05ST.CLR 138 247010 05ST.CLR TSC 138 Z1	243575 05ST.CLR	247010 05ST.CLR TSC	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3144 242993 05E.LEIPSIC2 138 893021 V2-006 C 138 1	242993 05E.LEIPSIC2	893021 V2-006 C	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3145 239037 02PGQ-11 138 239038 02PGQ-12 138 ZB	239037 02PGQ-11	239038 02PGQ-12	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3146 244300 05GEMINI CAP 138 245994 05GEMINI 138 Z1	244300 05GEMINI CAP	245994 05GEMINI	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3147 242775 05ROCKCAS SS 138 245675 05WHITEHOUS8 138 Z1	242775 05ROCKCAS SS	245675 05WHITEHOUS8	Z1	138	205 AEP	109	133 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3148 242550 05BEARSK 138 314671 4BEARSKN 138 Z1	242550 05BEARSK	314671 4BEARSKN	Z1	138	205/345 AEP/DVP	238	262 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3149 250044 08HEBRN2 138 250045 08HEBRN1 138 Z1	250044 08HEBRN2	250045 08HEBRN1	Z1	138	212 DEO&K	309	349 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3150 238830 02IWQ-16 138 238831 02IWQ-17 138 ZB	238830 02IWQ-16	238831 02IWQ-17	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3151 250005 08CRNEL4 138 250115 08TP7482 138 1	250005 08CRNEL4	250115 08TP7482	1	138	212 DE0&K	266	266 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3152 249989 08BKJ246 138 250165 08BKJDB2 138 1	249989 08BKJ246	250165 08BKJDB2	1	138	212 DE0&K	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3153 249989 08BKJ246 138 250164 08BKJDB1 138 1	249989 08BKJ246	250164 08BKJDB1	1	138	212 DEO&K	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3154 238713 02FB Q-1 138 238714 02FB Q-3 138 ZB	238713 02FB Q-1	238714 02FB Q-3	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3155 244412 05WTRV SLR C 138 247966 05WTRV SLR E 138 1	244412 05WTRV SLR C	247966 05WTRV SLR E	1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3156 249988 08BKJ135 138 249989 08BKJ246 138 Z1	249988 08BKJ135	249989 08BKJ246	Z1	138	212 DE0&K	309	349 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3157 238708 02EVRGRN 138 240077 AB1-015 E 138 1	238708 02EVRGRN	240077 AB1-015 E	1	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3158 242768 05RIDGWX 138 242769 05RIDGWY 138 ZB	242768 05RIDGWX	242769 05RIDGWY	ZB	138	205 AEP	287	299 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3159 238704 02ET Q-1 138 238705 02ET Q-2 138 ZB	238704 02ET Q-1	238705 02ET Q-2	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3160 242767 05RIDGWA 138 242768 05RIDGWX 138 ZB	242767 05RIDGWA	242768 05RIDGWX	ZB	138	205 AEP	287	299 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3161 239046 02PN Q-2 138 239047 02PN TP 138 1	239046 02PN Q-2	239047 02PN TP	1	138	202 ATSI	265	316 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3162 243226 05LAWBG1 345 243227 05LAWBG2 345 Z1	243226 05LAWBG1	243227 05LAWBG2	Z1	345	205 AEP	1701	1813 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3163 239049 02PV Q1 138 239051 02PV Q3 138 ZB	239049 02PV Q1	239051 02PV Q3	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3164 239053 02PVMQ15 138 239054 02PVMQ16 138 ZB	239053 02PVMQ15	239054 02PVMQ16	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3165 249981 08AKSTEEL2 138 250162 08GARVER 138 1	249981 08AKSTEEL2	250162 08GARVER	1	138	212 DEO&K	301	301 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3166 238701 02ERQ-11 138 238702 02ERQ-14 138 ZB	238701 02ERQ-11	238702 02ERQ-14	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3167 243562 05ROSS 138 243836 05ROSS T1T2 138 Z1	243562 05ROSS	243836 05ROSS T1T2	Z1	138	205 AEP	383	449 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3168 243217 05DEQUIN 345 243991 05DEQUIN_REA 345 Z1	243217 05DEQUIN	243991 05DEQUIN_REA	Z1	345	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3169 243562 05ROSS 138 243836 05ROSS T1T2 138 Z2	243562 05ROSS	243836 05ROSS T1T2	Z2	138	205 AEP	383	449 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3170 242586 05CAVE SPR2Z 138 245723 05CAVE SPR 138 Z1	242586 05CAVE SPR2Z	245723 05CAVE SPR	Z1	138	205 AEP	164	180 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3171 242589 05CENTCR 138 242590 05CENTER 138 Z1	242589 05CENTCR	242590 05CENTER	Z1	138	205 AEP	223	310 B	ase Case 0	0 –	0	0	0.00%	0.00%	0.00%
3172 238698 02ENQ-11 138 238699 02ENQ-12 138 ZB	238698 02ENQ-11	238699 02ENQ-12	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3173 243562 05ROSS 138 247357 05ROSS_CAP 138 Z1	243562 05ROSS	247357 05ROSS_CAP	Z1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3174 238818 02ILQ-11 138 238819 02ILQ-12 138 ZB	238818 02ILQ-11	238819 02ILQ-12	ZB	138	202 ATSI	999	999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3175 238692 02ASH_EAST 138 239055 02Q15TAP 138 1	238692 02ASH_EAST	239055 02Q15TAP	1	138	202 ATSI	273	338 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3176 245476 05ROB PK34 138 245505 05ROB PK T6 138 ZH	245476 05ROB PK34	245505 05ROB PK T6	ZH	138	205 AEP	747	747 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3177 247643 Z2-116 C 138 247969 Z2-116 E 138 1	247643 Z2-116 C	247969 Z2-116 E	1	138	205 AEP	99999	99999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3178 239092 02SAMMIS 345 253902 15BVRVAL 345 S1	239092 02SAMMIS	253902 15BVRVAL	S1	345	202/215 ATSI/DLCO	1195	1195 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%
3179 247552 U4-029 C 138 247941 U4-029 E 138 1	247552 U4-029 C	247941 U4-029 E	1	138	205 AEP	99999	99999 B	ase Case 0	0 –	0	0	0.00%	0.00%	0.00%
3180 243130 05TIFFIN 138 247548 V4-010 C 138 Z1	243130 05TIFFIN	247548 V4-010 C	Z1	138	205 AEP	9999	9999 B	ase Case 0	0 -	0	0	0.00%	0.00%	0.00%

		A		В	C	D	E	F	G	н	1	J	K	L	М	N	0	Р	Q	R	S	T U
3181 238815 02IKQ-15	138 23	38817 02IKQ-18	138 ZB	238815	02IKQ-15	238817	02IKQ-18	ZB	138	202 2	ATSI	999	999	Base Case	e 0	0		0	0	0.00%	0.00%	0.00%
3182 243013 05GAVIN1	138 24	16324 05GAVIN CAP	138 Z1	243013	05GAVIN1	246324	05GAVIN CAP	Z1	138	205 2	AEP	329	361	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3183 243127 05TIDD 1-2	138 24	5389 05TIDD B X	138 ZB	243127	05TIDD 1-2	245389	05TIDD B X	ZB	138	2057	AEP	586	598	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3184 247551 114-028 C	138 24	17940 114-028 E	138 1	247551	114-028 C	247940	114-028 E	1	138	205 /	AEP	99999	99999	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3185 247549 V3-028 C	345 24	17948 V3-028 E	345 1	247549	V3-028 C	247948	V3-028 E	1	345	205 2	AFP	99999	99999	Base Case		0	_	0	0	0.00%	0.00%	0.00%
3186 247548 V4-010 C	138 24	17947 VA-010 E	138 1	247549	VJ-010 C	247940	V4-010 E	1	139	205 1	NED	99999	00000	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3187 220116 020DVE02	120 23	0117 0200VE04	120 70	220116	02802502	230117	02CDVE04	70	120	203 2	ADOT	9999	000	Base Case		0		0	0	0.00%	0.00%	0.00%
2100 247542 V2 007 C	130 23	17035 V2 007 F	245 1	239110	123FAFQ2	239117	V2 007 F	1 1	245	202 2	AIDI	999	00000	Dase Case	. 0	0		0	0	0.00%	0.00%	0.00%
2190 247543 V3-007 C	345 24	17033 V3-007 E	345 I	247545	V3-007 C	247555	V3-007 E	1	345	205 2	AEP	999999	00000	Dase Case	. 0	0		0	0	0.00%	0.00%	0.00%
2100 247540 02-072 C	120 24	17932 02-072 E	345 I	247540	02-072 C	247932	02-072 E	1	120	205 2	ALF	999999	99999	Dase Case	. 0	0	_	0	0	0.00%	0.00%	0.00%
2101 242127 058L0FF P WF	138 24	17929 S-071 E	138 1	24/530	OSBLUFF P WF	24/929	S-U/I E	1	138	205 2	AEP	99999	99999	Base Case		0		0	0	0.00%	0.00%	0.00%
3191 243127 USTIDD 1-2	138 24	43129 05TIDD_C_X	138 ZB	243127	0511DD 1-2	243129	OSTIDD_C_X	ZB	138	205 4	AEP	670	/4/	Base Case	0	U	-	0	0	0.00%	0.00%	0.00%
3192 243575 USST.CLR	138 24	TOTO TO OAL R	138 21	243575	USST.CLR	24//1/	USST.CLR_MSR	21	138	205 4	AEP	999999	99999	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3193 247506 02-041 C	345 24	1/919 UZ-041 E	345 1	247506	02-041 C	24/919	02-041 E	1	. 345	205 /	AEP	99999	99999	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3194 243484 05CITYCO	138 29	94/40 P44	138 1	243484	05CITYCO	294740	P44	1	138	205 4	AEP	999	999	Base Case	. 0	0		0	0	0.00%	0.00%	0.00%
3195 243669 05B SAND	138 24	136/8 USBSANDX	138 ZB	243669	05B SAND	243678	USBSANDX	ZB	138	205 4	AEP	287	337	Base Case		U		0	0	0.00%	0.00%	0.00%
2196 238807 02HMLQ12	138 23	38809 02HMLQ14	138 ZB	238807	U2HMLQ12	238809	UZHMLQ14	ZB	138	202 2	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
319/242658 05GREENB	138 31	13/04 4KANAWHATL	138 1	242658	USGREENB	313704	4KANAWHATL	1	138	205/3452	AEP/DVP	95	95	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3198 247506 U2-041 C	345 24	1/549 V3-028 C	345 Z1	247506	U2-041 C	247549	V3-028 C	Z1	345	205 2	AEP	9999	9999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3199 238862 02KL Q-1	138 23	38863 02KL Q-3	138 ZB	238862	02KL Q-1	238863	02KL Q-3	ZB	138	202 2	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3200 238663 02DLQ-15	138 24	10248 02DLQ-18	138 ZB	238663	02DLQ-15	240248	02DLQ-18	ZB	138	202 2	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3201 242941 050HIOCT	345 24	4319 050HIOCT_REA	345 Z1	242941	050HIOCT	244319	050HIOCT_REA	Z1	345	205 /	AEP	99999	99999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3202 238859 02KIQ-11	138 23	38860 02KIQ-14	138 ZB	238859	02KIQ-11	238860	02KIQ-14	ZB	138	202 2	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3203 243100 05SHELGH	138 24	13101 05SHELNS	138 1	243100	05SHELGH	243101	05SHELNS	1	138	205 2	AEP	97	97	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3204 238556 02AYERSV	138 23	38659 02DEFISW	138 1	238556	02AYERSV	238659	02DEFISW	1	138	202 2	ATSI	216	264	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3205 243488 05CONESVILLE	138 24	13489 05CONESV_CAP	138 Z1	243488	05CONESVILLE	243489	05CONESV_CAP	Z1	138	205 2	AEP	99999	99999	Base Case	• 0	0	-	0	0	0.00%	0.00%	0.00%
3206 238867 02KPQ-12	138 23	38868 02KPQ-13	138 ZB	238867	02KPQ-12	238868	02KPQ-13	ZB	138	202 2	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3207 238661 02DKQ-16	138 23	38662 02DKQ-17	138 ZB	238661	02DKQ-16	238662	02DKQ-17	ZB	138	202 2	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3208 238657 02DBQ-14	138 23	39251 02GEQUTZ	138 1	238657	02DBQ-14	239251	02GEQUTZ	1	138	202 2	ATSI	258	308	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3209 238869 02KY Q-1	138 23	38870 02KY Q-3	138 ZB	238869	02KY Q-1	238870	02KY Q-3	ZB	138	202 1	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3210 238798 02HKQ-21	138 23	38799 02HKQ-22	138 ZB	238798	02HKQ-21	238799	02HKQ-22	ZB	138	202 2	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3211 243488 05CONESVILLE	138 24	16914 05CONESV AUX	138 Z5	243488	05CONESVILLE	246914	05CONESV AUX	Z5	138	205 2	AEP	548	601	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3212 243488 05CONESVILLE	138 24	16914 05CONESV AUX	138 ZN	243488	05CONESVILLE	246914	05CONESV AUX	ZN	138	205 2	AEP	548	601	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3213 243488 05CONESVILLE	138 24	16914 05CONESV AUX	138 ZS	243488	05CONESVILLE	246914	05CONESV AUX	ZS	138	205 2	AEP	548	601	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3214 242833 05TRAILF	138 24	17048 O5PINNCK	138 Z1	242833	05TRAILF	247048	05PINNCK	Z1	138	205 2	AEP	185	220	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3215 238856 02KH Q-3	138 23	38870 02KY Q-3	138 1	238856	02KH Q-3	238870	02KY Q-3	1	138	202 2	ATSI	347	423	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3216 238876 02LAQ-12	138 23	38877 02LAQ-13	138 ZB	238876	02LAQ-12	238877	02LAQ-13	ZB	138	202 2	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3217 238656 02DBQ-11	138 23	38657 02DBQ-14	138 ZB	238656	02DBQ-11	238657	02DBQ-14	ZB	138	202 7	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3218 238855 02KH Q-1	138 23	38869 02KY Q-1	138 1	238855	02KH Q-1	238869	02KY Q-1	1	138	202 /	ATSI	355	434	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3219 242946 05TIDD	345 25	53965 15COLLIE	345 S1	242946	05TIDD	253965	15COLLIE	S1	345	205/215 2	AEP/DLCO	1195	1195	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3220 238855 02KH Q-1	138 23	38856 02KH Q-3	138 ZB	238855	02KH Q-1	238856	02KH Q-3	ZB	138	202 2	ATSI	999	999	Base Case	. 0	0	-	Ö	0	0.00%	0.00%	0.00%
3221 242948 05WBELLA	345 24	4329 05W.BELL REA	345 Z1	242948	05WBELLA	244329	05W.BELL REA	Z1	345	205 2	AEP	99999	99999	Base Case	e 0	0	2	0	0	0.00%	0.00%	0.00%
3222 239210 02I0Q-16	138 23	39211 02I0Q-17	138 ZB	239210	02100-16	239211	02I0Q-17	ZB	138	202 1	ATSI	999	999	Base Case	e 0	0	~	0	0	0.00%	0.00%	0.00%
3223 239212 02AUSTQ2	138 23	39213 02AUSTQ1	138 ZB	239212	02AUSTQ2	239213	02AUSTQ1	ZB	138	202 /	ATSI	999	999	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%
3224 243026 05KAMMER13	138 24	16111 05KAMMER T5	138 Z5	243026	05KAMMER13	246111	05KAMMER T5	Z5	138	205 2	AEP	383	449	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3225 238647 02CY Q-1	138 23	38648 02CY Q-2	138 ZB	238647	02CY Q-1	238648	02CY Q-2	ZB	138	202 2	ATSI	999	999	Base Case	. 0	0		0	0	0.00%	0.00%	0.00%
3226 242717 05MILTON	138 93		138 1	242717	05MILTON	930192	AB1-055 E	1	138	205 2	AEP	9999	9999	Base Case	. 0	0	-	0	0	0.00%	0.00%	0.00%
3227 238541 02AS 0-1	138 23	38546 02ASO-11	138 ZB	238541	02AS 0-1	238546	02ASO-11	ZB	138	202 2	ATSI	999	999	Base Case	2 0	0	-	0	0	0.00%	0.00%	0.00%
3228 238540 02ARMCO+	138 23	39196 02ARM+BU	138 1	238540	02ARMCO+	239196	02ARM+BU	1	138	202 7	ATSI	157	189	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3229 239225 02STYDCO	138 23	39226 02STYDCOO11	138 ZB	239225	02STYDCO	239226	02577000011	ZB	138	202 2	ATSI	265	287	Base Case		0	22	0	0	0.00%	0.00%	0.00%
3230 238790 02HCO-13	138 23	38791 02HCO-14	138 ZB	238790	02HCO-13	238791	02HCO-14	ZB	138	202 1	ATSI	999	999	Base Case	0	0	-	0	0	0.00%	0.00%	0.00%
3231 250075 08MTGRY1	138 25	50111 08TP5483	138 1	250075	08MTGRY1	250111	08TP5483	1	138	212 1	DEO&K	198	198	Base Case		0	_	0	0	0.00%	0.00%	0.00%
3232 243044 05MTLLWO	138 24	16941 05MTLL2Z	138 21	243044	05MTLLWO	246941	05MTLL2Z	21	138	205 2	AEP	187	205	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3233 246237 05THIVENED27	138 24	16273 OSTHIVENE CC	138 7.2	246237	05THIVENER27	246273	05THIVENE CC	7.2	138	205 2	AEP	329	361	Base Case		0		0	0	0.00%	0.00%	0.00%
3234 246254 05THIVENER22	138 24	17775 05011110000 88	138 71	240237	05TUNNET PDC	240273	05DTXON SS	21	130	200 2	AED	205	281	Base Case		0	-	0	0	0.00%	0.00%	0.00%
3235 238643 020W 0-1	138 23	88644 020W 0-3	138 70	240234	0.2CW 0-1	230611	02CW 0-3	2B	130	2001	ATST	200	204	Baen Carr		0	_	0	0	0.00%	0.00%	0.00%
3236 238282 0200012	138 23	20293 0200013	139 70	230043	0200 012	230044	02PP0013	70	120	202 1	ATGT	999	999	Base Case		0		0	0	0.00%	0.00%	0.00%
3237 238882 02TE 0-1	138 23	38883 021E 0-2	138 75	237202	O2IE 0-1	230003	0218 0-3	78	120	202 2	ATGT	222	229	Baco Corr		0		0	0	0.00%	0.00%	0.00%
2228 220002 UZLE Q-1	130 23	20005 UZLE V-3	130 45	230002	02KD 0.1	230003	02LE Q-3	4B 7D	130	202 /	4101 ATOT	333	333	Dase Case		0	_	0	0	0.00%	0.00%	0.00%
2220 220021 U2KD Q-1	130 23	00032 UZNU V-3	130 28	238831	02KD Q-1	238832	02KD Q-3	4B	138	202 /	A101	999	999	Dase Case		0		0	0	0.00%	0.00%	0.00%
2240 220245 020TT 25	120 23	00094 UZLE V-4	120 1	230093		238894	02077707	40	138	202 4	A101	999	999	Dase Case		0	-	-	0	0.00%	0.00%	0.00%
3240 239345 02SIL_AE+	138 23	39346 UZSILICA+	138 1	239345	UZSIL_AE+	239346	UZSILICA+	1	138	202 2	ATSÍ	278	343	Base Case	e 0	0	-	0	0	0.00%	0.00%	0.00%

	A	B C	D E F	G	н і	J	K L	M N	0	Р	Q	R	S	T U
3241	238904 02LMQ-11 138 240252 02LMQ-12 138 ZL	238904 02LMQ-11	240252 02LMQ-12 ZL	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3242	243037 05MEIGS SS 138 246310 05MEIGS SW1Z 138 Z1	243037 05MEIGS SS	246310 05MEIGS SW1Z Z1	138	205 AEP	95	95 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3243	238629 02CLVRDL 138 239237 02CLVR-S 138 ZB	238629 02CLVRDL	239237 02CLVR-S ZB	138	202 ATSI	329	413 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3244	242961 05BIGGRC 138 246940 05BIGR2Z 138 1	242961 05BIGGRC	246940 05BIGR2Z 1	138	205 AEP	205	205 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3245	238918 02SLTRQ2 138 238919 02SLTRQ4 138 ZB	238918 02SLTRQ2	238919 02SLTRQ4 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3246	238781 02HANNA 345 253902 15BVRVAL 345 S1	238781 02HANNA	253902 15BVRVAL \$1	345	202/215 ATSI/DLCO	1195	1195 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3247	238620 02CL Q12 138 238621 02CL Q13 138 ZB	238620 02CL Q12	238621 02CL Q13 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3248	243987 05SULLVN REA 345 247712 05SULLIVAN 345 Z1	243987 05SULLVN REA	247712 05SULLIVAN Z1	345	205 AEP	99999	99999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3249	923061 AB1-105 TAP 345 923062 AB1-105 OP 345 1	923061 AB1-105 TAP	923062 AB1-105 OP 1	345	202/3 ATSI/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3250	242816 05STOCKT 138 926461 AC1-117 C 138 1	242816 05STOCKT	926461 AC1-117 C 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3251	243234 05TWIN B 345 243385 05TWIN B 138 6	243234 05TWIN B	243385 05TWIN B 6	345/138	205 AEP	540	540 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3252	240258 02FUQ-13 138 240259 02FUQ-14 138 ZL	240258 02FUQ-13	240259 02FUQ-14 ZL	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3253	243497 05DELANO 138 925342 AC1-001 MAIN 138 1	243497 05DELANO	925342 AC1-001 MAIN 1	138	205 AEP	9999	9999 Base Case	0 0		0	0	0.00%	0.00%	0.00%
3254	913030 Y1-006 TAP 138 913031 Y1-006 MAIN 138 1	913030 Y1-006 TAP	913031 Y1-006 MAIN 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3255	238933 02LYDQ14 138 238935 02LYQ-13 138 ZB	238933 02LYDQ14	238935 02LYQ-13 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3256	242965 05BRIDGEVILZ 138 245839 05BRIDGEVIL 138 Z1	242965 05BRIDGEVILZ	245839 05BRIDGEVIL Z1	138	205 AEP	150	180 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3257	240352 02PM2Q11 138 240353 02PM2Q12 138 ZB	240352 02PM2Q11	240353 02PM2Q12 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3258	238941 02MANSFD 345 253936 15CRESCN 345 S1	238941 02MANSFD	253936 15CRESCN \$1	345	202/215 ATSI/DLCO	1244	1411 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3259	238774 02GTQ-14 138 239222 02CHSTL 138 2	238774 02GTQ-14	239222 02CHSTL 2	138	202 ATSI	278	339 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3260	240359 02BENTLEYQ1 138 240360 02BENTLEYQ3 138 ZB	240359 02BENTLEYQ1	240360 02BENTLEYQ3 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3261	242937 05KAMMER 345 246108 05KAMMER24 138 31	242937 05KAMMER	246108 05KAMMER24 31	345/138	205 AEP	747	747 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3262	243510 05GAHANN 138 246095 05GAHAN T1-4 138 Z2	243510 05GAHANN	246095 05GAHAN T1-4 Z2	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3263	242937 05KAMMER 345 243026 05KAMMER13 138 30	242937 05KAMMER	243026 05KAMMER13 30	345/138	205 AEP	450	450 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3264	242529 05TRISTA 345 242835 05TRISTA 138 3	242529 05TRISTA	242835 05TRISTA 3	345/138	205 AEP	501	535 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3265	238511 02GMC-J 138 238512 02GMC-K 138 ZB	238511 02GMC-J	238512 02GMC-K ZB	138	202 ATSI	222	265 Base Case	0 0	2	0	0	0.00%	0.00%	0.00%
3266	238613 02CF Q-4 138 238614 02CFQ-14 138 ZB	238613 02CF Q-4	238614 02CFQ-14 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3267	243510 05GAHANN 138 246095 05GAHAN T1-4 138 Z3	243510 05GAHANN	246095 05GAHAN T1-4 Z3	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3268	238950 02MBQ-13 138 238951 02MBQ-14 138 ZB	238950 02MBQ-13	238951 02MBQ-14 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3269	238838 02JIQ-11 138 238839 02JIQ-14 138 ZB	238838 02JIQ-11	238839 02JIQ-14 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3270	893021 V2-006 C 138 893022 V2-006 E 138 1	893021 V2-006 C	893022 V2-006 E 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3271	270163 AB2-067 MAIN 765 937371 AD2-189 765 1	270163 AB2-067 MAIN	937371 AD2-189 1	765	205/3 AEP/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3272	270147 AE1-018 C 138 270148 AE1-018 E 138 1	270147 AE1-018 C	270148 AE1-018 E 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3273	243510 05GAHANN 138 246095 05GAHAN T1-4 138 Z4	243510 05GAHANN	246095 05GAHAN T1-4 Z4	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3274	242525 05KANAWH 345 242526 05KANAWZ 345 SC	242525 05KANAWH	242526 05KANAWZ SC	345	205 AEP	1494	1595 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3275	250166 HLCRST AB114 138 930062 AB1-014 E 138 1	250166 HLCRST AB114	930062 AB1-014 E 1	138	212 DEO&K	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3276	246750 05ROCKPT 138 253586 10AEP T 138 1	246750 05ROCKPT	253586 10AEP T 1	138	205/210 AEP/SIGE	143	143 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3277	238972 02MX Q-2 138 238973 02MX Q-4 138 ZB	238972 02MX Q-2	238973 02MX Q-4 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3278	244195 05HOLSTN ARM 138 245222 05W.KINGS_BP 138 Z1	244195 05HOLSTN ARM	245222 05W.KINGS_BP Z1	138	205 AEP	94	105 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3279	933720 AC2-195 TAP 138 933724 AC2-195 MAIN 138 1	933720 AC2-195 TAP	933724 AC2-195 MAIN 1	138	202 ATSI	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3280	238996 02NEQ-15 138 238997 02NEQ-16 138 ZB	238996 02NEQ-15	238997 02NEQ-16 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3281	242807 05SPORN 138 247050 05CLINE 138 Z1	242807 05SPORN	247050 05CLINE Z1	138	205 AEP	167	167 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3282	246889 05BIERSR 138 247356 05BIERSR_CAP 138 Z1	246889 05BIERSR	247356 05BIERSR_CAP Z1	138	205 AEP	99999	99999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3283	250149 08TP5381 138 250161 08T758 138 1	250149 08TP5381	250161 08T758 1	138	212 DEO&K	298	298 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3284	242628 05E.LYNN 138 246320 05NEW EAGLE 138 Z1	242628 05E.LYNN	246320 05NEW EAGLE Z1	138	205 AEP	219	255 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3285	250131 08WILEY2 138 250155 08WILCAP 138 1	250131 08WILEY2	250155 08WILCAP 1	138	212 DEO&K	68	68 Base Case	0 0	2	0	0	0.00%	0.00%	0.00%
3286	242789 05SALTV2 138 923771 AB2-011 C 138 1	242789 05SALTV2	923771 AB2-011 C 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3287	930041 AB1-006 C 345 930042 AB1-006 E 345 1	930041 AB1-006 C	930042 AB1-006 E 1	345	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3288	242789 05SALTV2 138 923761 AB2-010 C 138 1	242789 05SALTV2	923761 AB2-010 C 1	138	205 AEP	9999	9999 Base Case	0 0	-	Ō	0	0.00%	0.00%	0.00%
3289	250117 08TRMNL1 138 250118 08TRMNL2 138 Z1	250117 08TRMNL1	250118 08TRMNL2 Z1	138	212 DEO&K	504	504 Base Case	0 0		0	0	0.00%	0.00%	0.00%
3290	238762 02GR Q-3 138 238763 02GR Q-4 138 ZB	238762 02GR Q-3	238763 02GR Q-4 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3291	250092 08REDBK1 138 250093 08REDBK2 138 Z1	250092 08REDBK1	250093 08REDBK2 Z1	138	212 DEO&K	455	479 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3292	926461 AC1-117 C 138 926462 AC1-117 E 138 1	926461 AC1-117 C	926462 AC1-117 E 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3293	926250 AC1-103 GSU1 138 926251 AC1-103 GSU2 138 1	926250 AC1-103 GSU1	926251 AC1-103 GSU2 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3294	239013 02NSQ-15 138 239014 02NSQ-16 138 ZB	239013 02NSQ-15	239014 02NSQ-16 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3295	239025 02NY Q11 138 239026 02NY Q12 138 ZB	239025 02NY Q11	239026 02NY Q12 ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3296	250091 08RCHLE3 138 913222 Y1-054 E 138 1	250091 08RCHLE3	913222 Y1-054 E 1	138	212 DEO&K	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3297	243464 05ADAMS 138 924372 AB2-085 MAIN 138 1	243464 05ADAMS	924372 AB2-085 MAIN 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3298	924790 AB2-131 TAP 138 924791 AB2-131 C OP 138 1	924790 AB2-131 TAP	924791 AB2-131 C OP 1	138	202/3 ATSI/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3299	923771 AB2-011 C 138 923772 AB2-011 E 138 1	923771 AB2-011 C	923772 AB2-011 E 1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%
3300	238754 02GFQ-12 138 238755 02GFQ-2 138 1	238754 02GFQ-12	238755 02GFQ-2 1	138	202 ATSI	278	287 Base Case	0 0	-	0	0	0.00%	0.00%	0.00%

	A	В	С	D E	F	G	H I	J	К	L	М	Ν	0	P Q	R	S	Т	U
3301	243510 05GAHANN 138 246095 05GAHAN T1-4 138	3 Z1 24351	0 05GAHANN	246095 05GAHAN T1-4	Z1	138	205 AEP	131	164	Base Case	0	0	-	0 0	0.00%	0.00%	0.00%	
3302	2 923761 AB2-010 C 138 923762 AB2-010 E 138	3 1 92376	1 AB2-010 C	923762 AB2-010 E	1	138	205 AEP	9999	9999	Base Case	0	0	-	0 0	0.00%	0.00%	0.00%	
3303	3 238671 02DW Q-1 138 238672 02DW Q-3 138	3 ZB 23867	1 02DW Q-1	238672 02DW Q-3	ZB	138	202 ATSI	999	999	Base Case	0	0	-	0 0	0.00%	0.00%	0.00%	



APPENDIX C.

DFAX Reports and Spreadsheets provided by PJM for Barton 2 Facility



DFAX Analysis of Renewable Resources for AvanGrid

PJM Transmission Planning Wednesday, July 27, 2022

For Public Use



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Study of Renewable Resource Impact on Ohio Transmission Facilities through DFAX Analysis

PJM performed DFAX analysis in order to determine the impact of one windfarm facility outside of the PJM footprint on the transmission facilities inside the state of Ohio that is within the PJM footprint. Below is a summary of those findings:

PJM confirmed that the wind farm (provide facility name) in this study have >5% DFAX on facilities reported in this study. This was confirmed using the 2025 RTEP base case and the TARA software program. Attached is a list of all the BES facilities with DFAX >5% highlighted in yellow in AEP, DEOK, DAYTON and ATSI. Some of the facilities in the list are **outside** of Ohio because the service territories for AEP, ATSI and DEOK extends to other states.

The information below provides some background information on the analysis.

PJM confirmed the required information about the wind farm from MISO to identify the facility in the 2025 RTEP PSS/E case with the information for the facility contained in the list below. A DFAX analysis on approximately 3,000 BES transmission facilities in Ohio and surrounding areas was performed using the TARA program. The buses at which the wind farm is located provided the source for the DFAX analysis, and the generation within the PJM footprint provided the sink for the DFAX analysis. Finally, it was confirmed that there were a number of EHV transmission facilities on which at least 5% of the Maximum Facility Output from the wind resource would be expected to flow if they were to deliver their Maximum Facility Output into PJM. Details of the analysis are in the table attached to this report.

1. Barton Wind II Branch Solar, LLC is a 80 MW Wind farm in Alliant Energy West that connects to Barton 161 kV substation. In the 2025 RTEP case, it is modeled at bus 631151.

Attached file:

PJM DFAX Analysis for Wind Farms July 2022 Request_Final.xlsx

PJM N-1 I	OC Monitored Facility Lo	adings[TAP	RA Ver 2002.2.	0.0 64	-bit - Mon	Jul 25 08	3:25:43 2022]	1		1	1	1	1			1
Loadflow	Case: T:\rtep\Base2025\	Renewable	CEII DFAX for	OH Red	quest\2022	_12_July F	Request \2020RT	EP 2025SU	M_nonFSA_	Final_07012	020.raw					
Study Dat	a File: T:\rtep\Base202	25\Renewabl	LE CEIL DEAX I	or OH H	Request \20.	22_12_JULS	V Request \WF St	ub_0/2022	.sub	al 1 contin	gongiog)					
Monitor F	File. T.\rten\Base2025\B	enewahle (CEIL DEAX for	OH Rem	10st\2022	12 July Re	y Request (dulli	0 mon (0	0% loadir	ar cutoff)	gencies)					
Exclude H	File: not provided		CHIL DIAM IOL	on negi		IZ_OUTY NO		0.111011 (0.	0 0 104411	ig cutorr,						
Pre/Post	Contingency PAR Adjustm	ent: Adius	sted/Fixed													
								Rate	Rate			Base				
Monitored								Base	Cont			Flow	Cont Flow	Final DC	Severity	Barton
Facility	Fr Bus Fr Name	To Bus	To Name	CKT	kVs	Areas	Areas Name	(MVA)	(MVA)	Cont Name	Cont ID	(MW)	(MW)	%Loading	Rank	Wind II
242940 051	242940 05MUSKNG	242947	05WATERFORD	1	345	205	AEP	1025	1318	Base Case	0	-996.7	-	97.24	0	1.01%
243026 05H	243026 05KAMMER13	246067	05NATRIUM34	1	138	205	AEP	205	284	Base Case	0	193.2	-	94.23	0	-0.20%
243353 050	243353 050LIVE	244930	05NEW CARLI1	1	138	205	AEP	287	337	Base Case	0	226	-	78.74	0	-0.71%
250057 08M	250057 08M.FORT	250151	08HEBTAP	1	138	212	DEO&K	238	238	Base Case	0	177.8	-	74.73	0	0.24%
235346 01F	235346 01RONCVRT	242777	05RONCVR	ZB	138	201/205	AP/AEP	104	104	Base Case	0	-75.7	-	72.83	0	0.00%
242835 051	242835 05TRISTA	242842	05W HUNT	1	138	205	AEP	205	284	Base Case	0	148.3	-	72.33	0	0.07%
242935 05E	242935 05E LIMA	242989	05E LIMA	2	345/138	205	AEP	285	368	Base Case	0	205.5	-	72.1	0	-0.01%
242605 050	242605 05CLNCHR	242606	05CLNLFD	1	138	205	AEP	223	310	Base Case	0	159.5	-	71.5	0	0.19%
242701 051	242701 05LEESVI	314667	4ALTVSTA	1	138	205/345	AEP/DVP	205	284	Base Case	0	145.3	-	70.9	0	0.16%
270140 AA2	270140 AA2-116 POI	270141	AA2-116_MAIN	1	345	205	AEP	1239	1239	Base Case	0	-865.3	-	69.84	0	-0.54%
242921 050	242921 05CORNU	242924	05HANG R	1	765	205	AEP	1540	1540	Base Case	0	1066.7	-	69.27	0	-0.67%
242926 05M	242926 05MALIS	243538	05MALISX	1	765/138	205	AEP	820	926	Base Case	0	567.8	-	69.24	0	-0.02%
243012 050	243012 05G WASHGTON	243026	05KAMMER13	1	138	205	AEP	446	621	Base Case	0	-308.1	-	69.08	0	0.39%
238649 021	238649 02DALE	245797	05W.CANTON2	1	138	202/205	ATSI/AEP	233	282	Base Case	0	-160.7	-	68.98	0	0.17%
243537 05M	243537 05MALIS	243538	05MALISX	ZB	138	205	AEP	820	1054	Base Case	0	-564.9	-	68.9	0	-0.02%
239154 020	239154 02W.FREM	243009	05FRMNT	1	138	202/205	ATSI/AEP	296	361	Base Case	0	202.3	-	68.36	0	-0.25%
250145 08M	250145 08MELDAL	250154	08MELDLS	1	138	212	DEO&K	125	125	Base Case	0	-84.2	-	67.4	0	-0.05%
235345 01H	235345 01HINTON	242668	05HINTON	ZB	138	201/205	AP/AEP	23	23	Base Case	0	-15.5	-	67.29	0	0.00%
249581 08M	249581 08MELDAL	250145	08MELDAL	1	345/138	212	DEO&K	126	126	Base Case	0	-84	-	66.7	0	-0.05%
250118 081	250118 08TRMNL2	249575	08TERMNL	1	138/345	212	DEO&K	504	504	Base Case	0	-335.6	-	66.59	0	-0.03%
238514 021	238514 02IRONV	238568	02BAYSHO	1	138	202	ATSI	223	271	Base Case	0	-148.2	-	66.44	0	-0.07%
242987 051	242987 05DEXTER	243619	05ROSEWOODSS	1	138	205	AEP	293	341	Base Case	0	194.6	-	66.41	0	-0.08%
243212 05H	243212 05BENTON	243250	05BENTON	1	345/138	205	AEP	488	521	Base Case	0	323.1	-	66.21	0	-0.74%
243026 05H	243026 05KAMMER13	246940	05BIGR2Z	1	138	205	AEP	205	284	Base Case	0	135.3	-	66.02	0	0.18%
243070 050	243070 050HIOCT	246770	05DRESDN	1	138	205	AEP	680	795	Base Case	0	-448.3	-	65.93	0	-0.28%
242668 05H	242668 05HINTON	242777	05RONCVR	1	138	205	AEP	145	145	Base Case	0	95.3	-	65.74	0	0.00%
243453 05E	243453 05BEATTY	245769	05ADKINS	1	345	205	AEP	1096	1203	Base Case	0	-719.3	-	65.63	0	0.69%
246940 05E	246940 05BIGR2Z	247128	05ASTNSS	1	138	205	AEP	205	284	Base Case	0	134.2	-	65.45	0	0.18%
242943 055	242943 05SCANTO	247463	05SCANTO XFL	Z1	345	205	AEP	1740	1868	Base Case	0	-1128.6	-	64.86	0	3.04%
250117 081	250117 08TRMNL1	249575	08TERMNL	1	138/345	212	DEO&K	498	498	Base Case	0	-322.7	-	64.8	0	-0.08%
238568 028	238568 02BAYSHO	240854	02CLIFFS_NR	1	138	202	ATSI	297	365	Base Case	0	192.1	-	64.69	0	-0.27%
243014 050	243014 05GRBLOP	243300	05GRABIL	Z1	138	205	AEP	19	19	Base Case	0	12.3	-	64.69	0	0.00%
239123 025	239123 02STAR	239160	02WADS	1	138	202	ATSI	221	262	Base Case	0	142.8	-	64.62	0	0.07%
250057 08M	250057 08M.FORT	325014	4CLIFTY TAP2	1	138	212/363	DEO&K/LGEE	129	129	Base Case	0	-83	-	64.32	0	0.19%
242605 050	242605 05CLNCHR	242644	05FREMO1	1	138	205	AEP	223	310	Base Case	0	143.2	-	64.21	0	-0.04%
243537 05M	243537 05MALIS	243553	05POLARS	1	138	205	AEP	223	310	Base Case	0	141.5	-	63.47	0	0.07%
249570 081	249570 08P.UNON	250082	08P.UN1	1	345/138	212	DEO&K	500	500	Base Case	0	316.7	-	63.33	0	-0.16%
248013 061	248013 06PIERCE	250143	08PRCE18	18	345/138	206/212	OVEC/DEO&K	480	501	Base Case	0	303.6	-	63.25	0	-0.10%
242921 050	242921 05CORNU	242934	05CORNU	1	765/345	205	AEP	1698	1698	Base Case	0	-1068.1	-	62.9	0	-0.67%
242639 058	242639 05FLETCH	242801	05SKEGGS BRZ	1	138	205	AEP	196	247	Base Case	0	123.1	-	62.83	0	0.21%
243534 051	243534 05LICK	246738	05JACKSON	Z1	138	205	AEP	43	52	Base Case	0	26.9	-	62.46	0	0.00%
243229 050	243229 050LIVE	243353	050LIVE	2	345/138	205	AEP	766	803	Base Case	0	476.5	-	62.2	0	0.13%
242835 051	242835 05TRISTA	243904	05MARIETT	1	138	205	AEP	531	531	Base Case	0	-330.1	-	62.17	0	-0.23%
238662 021	238662 02DKQ-17	238740	02FWLSQ2	1	138	202	ATSI	103	133	Base Case	0	-63.9	-	62.01	0	0.03%
249991 08B	249991 08BUFTN1	250028	08FLRNC2	1	138	212	DEO&K	266	266	Base Case	0	164.7	-	61.91	0	0.01%

242691 05F	242691 05KENOVA	242835	05TRISTA		1 138	205	AEP	334	466 Base Case	0 -206.7	-	61.9	0	-0.13%
242659 050	242659 05GRNGST	246919	05CHADWICK2		1 138	205	AEP	409	527 Base Case	0 252.7	-	61.78	0	-0.11%
243250 05F	243250 05BENTON	243396	0.5WESTST		1 1.38	205	AEP	167	245 Base Case	0 103.1	_	61.74	0	-0.04%
242835 051	242835 05TRISTA	243681	05CHADWICK1		1 138	205	AEP	251	335 Base Case	0 154 9	-	61 7	0	-0.09%
250081 080	250081 080AKLEY	250092	08BEDBK1		1 138	212	DEO&K	324	324 Base Case	0 -199.8	-	61 65	0	-0.03%
242928 05N	242928 05MARYSV	242939	05MABYSV		2 765/345	205	AEP	1868	1868 Base Case	0 1150 6	-	61 6	0	0.41%
238822 021	238822 02TNO-11	239324	0208		1 138	202	ATST	273	332 Base Case	0 167 9	_	61 51	0	0.08%
242987 051	242987 05DEVTER	246310	05METCS SW17		1 138	202	AIDI	329	361 Base Case	0 -201 4	_	61 21	0	-0.08%
242000 051	242007 05DEXTER	240010	OSDUTIAN		1 120	205	AEL	224	140 Page Case	0 -202.4	_	60.0	0	-0.08%
242576 050	243030 05MEIGIZ	243004	05CUEM 2		1 120	205	AEL	410	569 Page Case	0 -249.7	_	60.65	0	0.00%
232562 025	222570 03CAFIIOLA	292353	03CHEM 2		2 245/120	203	ADD	546	516 Base Case	0 -240.7	_	60.63	0	0.43%
230503 021	230505 02BAI 3h	230300	02BAISHO		1 120	202	AIGI	040	010 Base Case	0 141 1	_	00.02 C0.EE	0	0.02/0
230301 026	238381 02BRBRIN	239619	0ZALCUA		1 1 20	202	AISI	233	202 Base Case	0 141.1	-	60.55	0	0.14%
243062 050	243062 USNMUSKG	24/3/4	05MUSKNG2B		1 138	205	AEP	223	310 Base Case	0 =135	-	60.52	0	-0.26%
253005 098	253005 09BATH	253085	090RBANA		1 138	209	DAY	163	200 Base Case	0 98.5	-	60.46	0	0.20%
243038 051	243038 05MEIG12	246310	USMEIGS SWIZ		1 138	205	AEP	334	480 Base Case	0 201.4	-	60.31	0	-0.08%
248013 065	248013 06PIERCE	250086	08PIERCE	1	/ 345/138	206/212	OVEC/DEO&K	515	537 Base Case	0 309.9	-	60.17	0	-0.14%
238766 020	238766 02GRFD D	238767	02GRFD T		1 138	202	ATSI	26	26 Base Case	0 -15.6	-	60.09	0	0.00%
239093 025	239093 02SAMMIS	239369	U2TORONTO	-	138	202	ATSI	278	339 Base Case	0 -167.1	-	60.09	0	-0.21%
243234 051	243234 05TWIN B	243385	USTWIN B	-	/ 345/138	205	AEP	670	752 Base Case	0 401.6	-	59.93	0	0.13%
243228 05N	243228 05MERIDN	243783	USEWHTLY		L 345	205	AEP	486	550 Base Case	0 290.5	-	59.77	0	0.00%
242741 050	242741 050TTER	314667	4ALTVSTA		1 138	205/345	AEP/DVP	167	245 Base Case	0 -99.4	-	59.52	0	-0.18%
249984 087	249984 08ASHLD8	250093	08REDBK2		1 138	212	DEO&K	240	299 Base Case	0 -141.6	-	59.02	0	-0.05%
242807 055	242807 05SPORN	242808	05SPORNS		1 138	205	AEP	471	642 Base Case	0 -277.5	-	58.91	0	-0.29%
249577 082	249577 08ZIMER	249580	08ZIMERG	Z1	345	212	DEO&K	1793	1793 Base Case	0 -1053.7	-	58.77	0	-0.66%
250057 081	250057 08M.FORT	249567	08M.FORT		9 138/345	212	DEO&K	422.9	474.8 Base Case	0 -247.5	-	58.52	0	-0.13%
243131 051	243131 05TILTON	243143	05WBELLA		1 138	205	AEP	251	335 Base Case	0 -146.8	-	58.49	0	0.72%
250016 08F	250016 08EBNZR	250057	08M.FORT		1 138	212	DEO&K	266	266 Base Case	0 -155.6	-	58.49	0	0.19%
243312 05F	243312 05HUMMEL	244658	05GRNTWN		1 138	205	AEP	219	251 Base Case	0 -127.6	-	58.26	0	0.37%
242607 050	242607 05CLOVRD	242676	05HUNTCT		1 138	205	AEP	251	335 Base Case	0 145.8	-	58.09	0	-0.16%
243224 05F	243224 05KENZIE	243322	05KENZIE		1 345/138	205	AEP	508	535 Base Case	0 295.1	-	58.08	0	-0.10%
249573 085	249573 08SGROVE	250097	08SGROVE		1 345/138	212	DEO&K	495	498 Base Case	0 287.4	-	58.05	0	-0.22%
242687 053	242687 05JOHNMT	242741	050TTER		1 138	205	AEP	167	245 Base Case	0 -96.2	-	57.61	0	-0.18%
250046 08H	250046 08HINKLE	250117	08TRMNL1		1 138	212	DEO&K	275	275 Base Case	0 -158	-	57.47	0	0.07%
242606 050	242606 05CLNLFD	242639	05FLETCH		1 138	205	AEP	223	310 Base Case	0 128.1	-	57.45	0	0.21%
243049 051	243049 05NATRIUM12	246067	05NATRIUM34	Z2	138	205	AEP	187	240 Base Case	0 -107.1	-	57.3	0	-0.10%
243049 051	243049 05NATRIUM12	246067	05NATRIUM34	Z1	138	205	AEP	187	240 Base Case	0 -107.1	-	57.3	0	-0.10%
249567 08N	249567 08M.FORT	250057	08M.FORT	1	345/138	212	DEO&K	442.7	487.9 Base Case	0 253.2	-	57.2	0	-0.13%
243513 050	243513 05GENOA	243591	05SPRNGR		1 138	205	AEP	196	216 Base Case	0 111.9	-	57.1	0	0.02%
243250 05E	243250 05BENTON	243365	05RIVERSIDE1		2 138	205	AEP	136	167 Base Case	0 77.3	-	56.84	0	-0.21%
243547 05N	243547 05MORSE	243577	05STELZR		1 138	205	AEP	187	240 Base Case	0 105.4	-	56.34	0	-0.06%
249574 081	249574 08TDHNTR	250107	08TODM15		1 345/138	212	DEO&K	477	489 Base Case	0 266.8	-	55.94	0	-0.06%
250057 08N	250057 08M.FORT	250131	08WILEY2		1 138	212	DEO&K	198	198 Base Case	0 110.3	-	55.68	0	0.24%
238978 021	238978 02N.STAR	239120	02SSPRNG		1 138	202	ATSI	176	229 Base Case	0 -97.8	-	55.54	0	0.00%
243396 050	243396 05WESTST	247134	05EWATRV		1 138	205	AEP	167	245 Base Case	0 92.5	-	55.36	0	-0.04%
241901 021	241901 02LALLENDORF	241902	020REGON	ZL	345	202	ATSI	1195	1195 Base Case	0 -660.7	-	55.29	0	-0.41%
242948 050	242948 05WBELLA	243143	05WBELLA		3 345/138	205	AEP	680	747 Base Case	0 373.9	-	54.99	0	0.34%
238759 020	238759 02GM WAR	239138	02TOD		1 138	202	ATSI	267	352 Base Case	0 -146.7	-	54.93	0	-0.18%
243529 05F	243529 05KENNY	243560	05ROBERT		1 138	205	AEP	213	282 Base Case	0 -117	-	54.91	0	0.19%
249566 08B	249566 08FOSTER	250035	08FTRM11		1 345/138	212	DEO&K	492	498 Base Case	0 269.1	-	54.69	0	-0.11%
243062 05N	243062 05NMUSKG	243074	05PHILO1		1 138	205	AEP	219	255 Base Case	0 119.4	-	54.53	0	-0.27%
238538 02A	238538 02APR0-1	238836	02JGSQ13		1 138	202	ATSI	205	265 Base Case	0 -111.7	-	54.51	0	-0.02%
250092 08F	250092 08REDBK1	249571	08REDBK1		1 138/345	212	DEO&K	489	501 Base Case	0 -265.1	-	54.22	0	-0.04%
243469 05E	243469 05BEATTY	926010	AC1-078 TAP		1 138	205/202	AEP/ATSI	200	242 Base Case	0 108.4	-	54.2	0	-0.19%
238823 021	238823 02INO-14	239242	02HOLT-A		1 138	202	ATSI	259	304 Base Case	0 140	-	54.05	0	0.00%
242807 055	242807 05SPORN	243084	05RUTLAN		1 138	205	AEP	334	392 Base Case	0 180.2	-	53.95	0	-0.05%
243469 05E	243469 05BEATTY	243586	05WHITER		1 138	205	AEP	191	209 Base Case	0 103	-	53.94	0	0.11%
			1	1				-						-

242687 053	242687 05JOHNMT	242734	05NEWLDN	1	138	205	AEP	167	240 Base Case	0 89.8	-	53.76	0	-0.18%
238539 027	238539 02ARMCO	238540	02ARMCO+	1	138	202	ATSI	159	191 Base Case	0 -85.4	-	53.7	0	0.00%
242605 050	242605 05CLNCHB	243899	0.5LOCKHA	1	1.38	205	AEP	223	310 Base Case	0 119.7	-	53.69	0	-0.07%
247797 059	247797 05STEMPLE	247798	Y2-050 STN	1	345	205	AEP	999	999 Base Case	0 -535 4	-	53 59	0	-0 33%
243563 055	243563 05B0ZELL	243585	05WAVERL	1	138	205	AEP	223	302 Base Case	0 -119 4	-	53.56	0	0.03%
238504 020	238504 02GM-PWB-TBN	241945	AB1-107 TAP	1	138	202	ATST	278	342 Base Case	0 -148 6	-	53 46	0	-0.26%
238540 022	238540 022RMCO+	238906	02LNGVEW		138	202	ATST	160	192 Base Case	0 -85.4	_	53 37	0	0.00%
238620 020	238620 0201 012	239296	02CPPRDG	1	138	202	ATST	187	222 Base Case	0 99.7	-	53.33	0	0.32%
242576 050	242576 05CARITOLH	235250	050000		130	202	AFD	257	360 Base Case	0 136.9	_	53.27	0	0.32%
220107 020	222370 03CAT TOLLI	220024	03UEASTEV	-	120	203	ADI	176	220 Base Case	0 130.5	_	52.24	0	0.75%
242046 055	239107 023HNAGO	2539534	15COLLTE		245	205/215	AIDI AED/DI CO	1220	1201 Page Case	0 650 7	_	52.04	0	1 75%
242940 001	242540 051100	233903	AFCIONER	-	120	203/213	AEF/DLCO	1229	205 Dase Case	0 100.5	_	52.94	0	0.20%
242383 030	242383 03CATAWB	242607	OSCLOVRD		130	203	AEP	205	205 Base Case	0 -108.5	-	52.94	0	-0.20%
242701 051	242701 USLEESVI	242802	USSMITHMIN		138	205	AEP	205	255 Base Case	0 -108.1	-	52.74	0	0.18%
250151 08F	250151 08HEBTAP	250152	08HEBRNG	21	138	212	DEO&K	309	349 Base Case	U 163	-	52.74	0	0.24%
243307 05F	243307 05HARTFO	24/134	U5EWATRV	-	. 138	205	AEP	167	245 Base Case	0 -87.8	-	52.55	0	-0.04%
243008 051	243008 05FREMCT	243009	05FRMNT	1	138	205	AEP	251	251 Base Case	0 -131.9	-	52.54	0	-0.20%
250162 080	250162 U8GARVER	249582	USGARVER	+ - 1	138/345	212	DEO&K	478	4/8 Base Case	0 -249.8	-	52.26	0	-0.06%
242838 051	242838 05TWELVE	243904	USMARIETT		138	205	AEP	695	695 Base Case	0 362.8	-	52.21	0	-0.23%
238977 021	238977 02N MED	239197	02BUCKEY		138	202	ATSI	233	282 Base Case	0 121.5	-	52.13	0	0.20%
243767 050	243767 05GLOBE	246399	USGLOBE MT Z	1 1	138	205	AEP	167	167 Base Case	0 -86.8	-	51.98	0	0.00%
243049 05N	243049 05NATRIUM12	243775	05PITTPL	1	. 138	205	AEP	143	153 Base Case	0 74.2	-	51.85	0	0.00%
242940 05N	242940 05MUSKNG	242941	050HIOCT	1	. 345	205	AEP	1025	1318 Base Case	0 530.3	-	51.73	0	-1.65%
249574 081	249574 08TDHNTR	250109	08TODM17	1	345/138	212	DEO&K	491	503 Base Case	0 253.1	-	51.55	0	-0.06%
249574 081	249574 08TDHNTR	250108	08TODM16	1	. 345/138	212	DEO&K	492	504 Base Case	0 253.6	-	51.55	0	-0.06%
242938 051	242938 05MARQUI	246888	05BIERSR	1	. 345	205	AEP	1390	1390 Base Case	0 716.4	-	51.54	0	0.55%
242932 050	242932 05CANTNC	247797	05STEMPLE	1	. 345	205	AEP	1409	1409 Base Case	0 -725.8	-	51.51	0	-0.87%
243247 05Z	243247 05AUBURN	255125	17DEKALB	1	. 138	205/217	AEP/NIPS	45	45 Base Case	0 23.2	-	51.48	0	-0.02%
250046 08H	250046 08HINKLE	250074	08MTCHL4	1	. 138	212	DEO&K	275	275 Base Case	0 141.1	-	51.31	0	0.07%
249988 08E	249988 08BKJ135	250086	08PIERCE	1	138	212	DEO&K	603	603 Base Case	0 -309.4	-	51.3	0	-0.14%
239161 020	239161 02WAKRON	239619	02ALCOA	1	138	202	ATSI	270	332 Base Case	0 -138.5	-	51.28	0	0.14%
249571 08F	249571 08REDBK1	250093	08REDBK2	1	345/138	212	DEO&K	485	497 Base Case	0 248.2	-	51.18	0	-0.07%
246481 051	246481 05NMUSKG_BP	246490	05PHILO_BP	1	. 138	205	AEP	187	240 Base Case	0 95.6	-	51.15	0	0.24%
242855 050	242855 05WYOMIN	247004	05GUYAND	1	138	205	AEP	205	284 Base Case	0 104.2	-	50.81	0	0.14%
243473 05E	243473 05BIXBY	243536	05LS-II	1	. 138	205	AEP	196	247 Base Case	0 99.6	-	50.81	0	-0.14%
242537 05#	242537 05AMOS	242538	05AMOS_6_XFL	1	138	205	AEP	696	747 Base Case	0 -352.7	-	50.68	0	0.33%
242689 05Þ	242689 05KANAWHA1	247092	05KANAWH_BSZ	ZL	138	205	AEP	285	368 Base Case	0 -144.3	-	50.64	0	0.15%
243034 05N	243034 05MARQUI	243501	05E.BEAV	1	. 138	205	AEP	223	310 Base Case	0 112.8	-	50.6	0	0.17%
242997 05E	242997 05E.NEWCONCZ	246490	05PHILO_BP	1	138	205	AEP	187	240 Base Case	0 -94.3	-	50.44	0	0.24%
247780 05F	247780 05KLINE	255163	17NORTHEAST	1	. 138	205/217	AEP/NIPS	185	229 Base Case	0 93.2	-	50.39	0	0.22%
243549 05N	243549 05MULBRY	243563	05ROZELL	1	138	205	AEP	223	310 Base Case	0 -112.4	-	50.39	0	0.13%
243302 050	243302 05GRANT	244658	05GRNTWN	1	138	205	AEP	251	335 Base Case	0 -126.4	-	50.35	0	0.41%
243224 05F	243224 05KENZIE	270139	AA2-116_TAP2	1	. 345	205	AEP	1409	1409 Base Case	0 -708.5	-	50.29	0	-1.10%
249989 08E	249989 08BKJ246	250143	08PRCE18	1	. 138	212	DEO&K	603	603 Base Case	0 -303	-	50.25	0	-0.10%
238568 02E	238568 02BAYSHO	239029	020REGON	1	138	202	ATSI	287	342 Base Case	0 144.1	-	50.21	0	-0.08%
242637 05F	242637 05FLATWO	247794	05COCO	3	. 138	205	AEP	219	255 Base Case	0 -109.9	-	50.2	0	0.40%
246352 05H	246352 05HAVILAND2	246950	05TIMBSS	1	138	205	AEP	187	240 Base Case	0 -93.5	-	50.01	0	0.61%
250091 08F	250091 08RCHLE3	250118	08TRMNL2	1	138	212	DEO&K	268	275 Base Case	0 -133.9	-	49.95	0	-0.04%
243855 05j	243855 05JUG ST	243856	05JUG ST 1-6	5	345/138	205	AEP	515	544 Base Case	0 257.2	-	49.94	0	-0.01%
242575 050	242575 05CAMDLM	242802	05SMITHMTN	1	138	205	AEP	205	255 Base Case	0 -102.2	-	49.87	0	-0.04%
250105 081	250105 08TDHNTR	250116	08TRENTON 1	1	138	212	DEO&K	302	302 Base Case	0 150.5	-	49.84	0	-0.38%
238847 02J	238847 02JP	240854	02CLIFFS NR	1	138	202	ATSI	312	380 Base Case	0 -155.4	-	49.8	0	-0.27%
246751 051	246751 05VASSEL	247728	05VASSEL XFL		765/345	205	AEP	2403	2772 Base Case	0 1196.4	-	49.79	0	-0.62%
240359 02E	240359 02BENTLEY01	241927	02AV01	1 1	138	202	ATSI	278	339 Base Case	0 -138.3	-	49.76	0	0.36%
242685 05	242685 05J.FERX	242745	05PEAKCK	1	138	205	AEP	251	335 Base Case	0 124.8	-	49.74	0	0.26%
243685 051	243685 05DORTON	243899	05LOCKHA	1	138	205	AEP	223	310 Base Case	0 -110.9	-	49.74	0	-0.07%
250052 081	250052 08KYUNIV	250097	08SGROVE	1	138	212	DEO&K	275	275 Base Case	0 -136.8	-	49.73	0	-0.05%
		-	1											

243055 05N	243055 05NEGLEY	243092 05SCANTO	1	138	205	AEP	251	335	Base Case 0	-124.6	-	49.64	0	0.13%
242728 05N	242728 05MULLNV	247004 05GUYAND	1	138	205	AEP	205	284	Base Case 0	-101.7	-	49.59	0	0.14%
243127 051	243127 05TIDD 1-2	247016 05GABLSS	1	138	205	AEP	287	337	Base Case 0	141.8	-	49.4	0	-0.56%
242689 05Þ	242689 05KANAWHA1	247068 05KANAWH ASZ	ZU	138	205	AEP	285	337	Base Case 0	-140.7	-	49.37	0	0.15%
241930 027	241930 02AVQ4	238551 02AVON	92	138/345	202	ATSI	546	614	Base Case 0	-269.5	-	49.36	0	0.61%
238797 02F	238797 02HGHLND	239138 02TOD	1	138	202	ATSI	329	413	Base Case 0	162.3	-	49.32	0	-0.18%
242980 050	242980 05CANTNC	243139 05WAGENHALS2	2	1.38	205	AEP	2.96	392	Base Case 0	145.4	-	49.14	0	-0.10%
238724 025	238724 02FMEAST	239242 02HOLT-A	1	138	202	ATSI	194	237	Base Case 0	-94.7	_	48.83	0	0.10%
238506 021	238506 02DTXTE	238847 02JP	1	1.38	202	ATST	2.42	296	Base Case 0	-118.1	-	48.81	0	-0.27%
249570 085	249570 08P-UNON	250083 08P.UN2	- 1	345/138	212	DEO&K	500	500	Base Case 0	243.9	_	48.77	0	-0.05%
243458 051	243458 05HYATT	243526 05HYATT	1	345/138	205	AEP	321	363	Base Case 0	156.5	-	48.74	0	0.08%
243088 055	243088 055 POINT1	245948 05MTLLBB PK2	1	138	205	AEP	136	167	Base Case 0	66 1	_	48 63		-0.15%
242968 055	242968 05BBUES	243143 05WBELLA	2	138	205	AEP	205	284	Base Case 0	-99.4	_	48 49	0	0.07%
242980 050	242980 05CANTNC	246267 05WAGENHALS1	1	138	205	AEP	296	392	Base Case 0	143.5	-	48.47	0	-0.11%
243542 05N	243542 05MTEEIN	243577 05STELZB	1	138	205	AEP	209	209	Base Case 0	-101 3	_	48 46		-0.06%
242969 055	242969 05BBUES2	243143 05WBELLA	1	138	205	AEP	205	284	Base Case 0	-99.3	_	48 45	0	0.07%
239353 025	239353 02HABMON	242943 05SCANTO	1	345	202/205	ATSI/AEP	1409	1868	Base Case 0	-680.8	_	48 32		0.00%
249991 08F	249991 08BUFTN1	249564 08BUFTN1	1	138/345	212	DEO&K	485	498	Base Case 0	-233 6	-	48 17	0	0.01%
243678 05E	243678 05BSANDX	243679 05BUSSYV	1	138	205	AEP	223	310	Base Case 0	107 4	-	48 15	0	-0.17%
243034 05N	243034 05MAROUT	243544 05MTLPRD	2	138	205	AEP	223	310	Base Case 0	107.2	_	48.06		-0.02%
238730 025	238730 02FORTIN	239310 028PHUSKY	1	138	202	ATST	241	292	Base Case 0	-115 7	-	47 99	0	-0.24%
243034 05N	243034 05MAROUT	243585 05WAVEBL	1	138	205	AEP	223	302	Base Case 0	107	-	47 97	0	-0.02%
244658 050	244658 05GBNTWN	249800 08MTER	1	138	205/208	AEP/DET	243	243	Base Case 0	116 5	_	47.95		0.02%
250067 08N	250067 08MLHSB2	250082 08P UN1	1	138	203/200	DEO&K	198	198	Base Case 0	-94 8	-	47.88	0	-0.12%
249999 080	249999 08CNSTNC	250044 08HEBBN2	1	138	212	DEOSK	238	238	Base Case 0	-113.8	_	47.82		0.12%
253024 095	253024 09ESTDNY	253068 09SHELBY	1	138	212	DAV	163	220	Base Case 0	-77 9	_	47.02		0.23%
243469 055	243469 05BEATTY	243540 05MCCOMB	1	138	205	AEP	216	243	Base Case 0	103	-	47 7	0	0.10%
238614 020	238614 02CE0-14	241926 02ASTOR014	1	138	202	ATST	176	229	Base Case 0	-83.9	-	47 68	0	0.22%
242807 055	242807 05SPORN	243559 05BTO Z	- 1	138	205	AEP	185	185	Base Case 0	88.1	_	47.6	0	-0.12%
243208 053	243208 05JEFRS0	243209 05ROCKPT	1	765	205	AEP	3854	3854	Base Case 0	-1833.9	_	47.58	0	5.73%
243006 055	243006 05F0ST0B	247172 05EBEBSO	- 1	138	205	AEP	167	245	Base Case 0	79.5	-	47.58	0	-0.34%
238759 020	238759 02GM WAR	238999 02NFALLS	1	138	202	ATST	267	352	Base Case 0	127	_	47 57	0	-0.18%
238620 020	238620 02CL 012	241935 02CLINTON	ZL	138	202	ATSI	260	309	Base Case 0	-123.6	_	47.53	0	0.32%
242560 05E	242560 05BONSCK	242607 05CLOVRD	1	138	205	AEP	205	284	Base Case 0	-97.4	_	47.53	0	-0.10%
242936 055	242936 05F0ST0B	243006 05FOSTOR	- 1	345/138	205	AEP	504	540	Base Case 0	239.3	_	47.47	0	0.11%
250027 085	250027 08FLRNC1	250173 08WDSPNT	1	138	212	DEO&K	266	266	Base Case 0	126.2	_	47.44	0	0.01%
248013 061	248013 06PIERCE	249566 08FOSTER	1	345	206/212	OVEC/DEO&K	1097	1204	Base Case 0	518.5	_	47.27	0	0.67%
238634 020	238634 02COMEBC	238797 02HGHLND	1	1.38	202	ATST	127	158	Base Case 0	-60	-	47.26	0	-0.23%
243691 05H	243691 05HAYSBR	243698 05MORGEK	1	138	205	AEP	68	68	Base Case 0	-32.1	_	47.14	0	0.00%
249988 08E	249988 08BKJ135	249997 08CLRMT2	1	138	212	DEO&K	318	318	Base Case 0	149.7	-	47.08	0	-0.03%
243544 05N	243544 05MILPRD	243585 05WAVERL	2	138	205	AEP	223	302	Base Case 0	105	-	47.07	0	-0.02%
238636 020	238636 02CPPW41	239296 02CPPRDG	1	138	202	ATSI	194	237	Base Case 0	-91.2	-	47	0	0.32%
238976 021	238976 02N MED	238977 02N MED	1	345/138	202	ATSI	347	415	Base Case 0	162.5	-	46.82	0	0.27%
248002 061	248002 06DEARB2	249564 08BUFTN1	1	345	206/212	OVEC/DEO&K	971	971	Base Case 0	454.1	-	46.77	0	1.24%
243089 055	243089 05SBALTM	243150 05WMILLP	1	138	205	AEP	167	167	Base Case 0	-78.1	-	46.77	0	0.08%
238574 02E	238574 02BELPT+	239134 02TANGY	1	138	202	ATSI	160	192	Base Case 0	-74.8	-	46.76	0	-0.12%
239197 02E	239197 02BUCKEY	239618 02LAUREL	1	138	202	ATSI	233	282	Base Case 0	108.9	-	46.73	0	0.20%
243534 051	243534 05LICK	244540 05RHODES	1	138	205	AEP	219	231	Base Case 0	102.2	-	46.67	0	0.07%
243146 050	243146 05WHEBRO	243150 05WMILLP	1	138	205	AEP	167	245	Base Case 0	-77.4	-	46.36	0	-0.10%
238563 02E	238563 02BAY SH	238568 02BAYSHO	1	345/138	202	ATSI	564	673	Base Case 0	261.4	-	46.35	0	0.02%
243278 051	243278 05DESOTO	243369 05ROYERTON	1	138	205	AEP	219	223	Base Case 0	101.3	-	46.27	0	-0.17%
253068 095	253068 09SHELBY	253071 09SIDNEY	1	138	209	DAY	221	272	Base Case 0	102.2	-	46.24	0	-0.02%
246927 055	246927 05SAND H	247468 05CRICKET SS	1	138	205	AEP	219	255	Base Case 0	101.2	-	46.22	0	0.00%
247006 05P	247006 05KENZIE BP	270138 AA2-116 TAP1	1	345	205	AEP	1409	1409	Base Case 0	-650.7	-	46.18	0	1.10%
243534 051	243534 05LICK	243559 05RIO Z	1	138	205	AEP	150	212	Base Case 0	-69.3	-	46.17	0	-0.14%
243322 05F	243322 05KENZIE	243360 05POKAGO	1	138	205	AEP	293	341	Base Case 0	135.2	-	46.13	0	-0.11%

242693 058	242693 05KEYWSS	242850	0.5WOLFH1	1	138	205 AEP	167	245	Base Case	0	-77	-	46.1	0	0.32%
238678 025	238678 02EAKBON	238787	02HAYES+	1	138	202 ATST	233	282	Base Case	0	107 3	-	46.05	0	-0.18%
243264 050	243264 05CONCOR	243266	05COUNTR	1	138	205 AFP	167	167	Base Case	0	76.9	_	46.04	0	0.23%
23204 030	245204 05CONCOR	243200	03COONIR 03 INDD01	-	245/120	203 AET	200	114	Dase Case	0	165.7		40.04	0	0.33%
238850 025	238830 02JUNIPE	238840	0ZJNPRQI 0ENVEL CO	3	345/136	202 AISI	360	414	Base Case	0	165.7	-	46.04	0	0.01%
243347 051	243347 USTIDD 3-4	243779	USWHELGS	1	138	205 AEP	187	205	Base Case	Ű	86.1	-	46.03	0	0.00%
243063 051	243063 05N.NEWARK1	243079	05REFORM	1	138	205 AEP	202	202	Base Case	0	-92.9	-	45.97	0	-0.23%
238796 021	238796 02HGHLND	923061	AB1-105 TAP	1	345	202 ATSI	1413	1743	Base Case	0	648.5	-	45.9	0	-1.59%
243220 05E	243220 05E.ELKHART	247006	05KENZIE_BP	1	345	205 AEP	1409	1409	Base Case	0	-646.4	-	45.88	0	1.10%
238781 02F	238781 02HANNA	923061	AB1-105 TAP	1	345	202 ATSI	1413	1743	Base Case	0	-647.9	-	45.85	0	-1.59%
243055 051	243055 05NEGLEY	243078	05REEDUR	1	138	205 AEP	251	335	Base Case	0	115.1	-	45.85	0	0.13%
238642 020	238642 02CRSLND	238944	02MASURY	1	138	202 ATSI	200	242	Base Case	0	91.6	-	45.78	0	-0.17%
242523 05E	242523 05BAKER	247229	05RIVRSD GEN	1	345	205 AEP	896	896	Base Case	0	-410.2	-	45.78	0	-0.26%
238741 02E	238741 02FWLSQ3	240365	02LRN Q3	1	138	202 ATSI	176	229	Base Case	0	-80.4	-	45.7	0	0.38%
242648 050	242648 05GARDEC	242801	05SKEGGS BRZ	1	138	205 AEP	223	310	Base Case	0	-101.9	-	45.68	0	0.21%
253024 095	253024 09ESTDNY	253065	0 9 OUTNCY	1	1.38	209 DAY	1.63	229	Base Case	0	74.4	-	45.62	0	0.18%
238850 02.	238850 02.TUNT PE	238842	02.TNPRO3	3	345/138	202 ATST	374	471	Base Case	0	170 5	-	45 58	0	-0.01%
243006 058	243006 05FOSTOR	247172	05EBERSO	2	138	205 AEP	150	204	Base Case	0	68 3	_	45 57	0	-0.29%
243385 055	243385 05001001001	2/2517	OSCAR AV	1	120	205 AFD	205	204	Base Case	0	00.0		15.07		0.20%
240000 001	23000 UJIWIN B	24331/	OJCAF AV	1	100	200 AEF	205	204	Dase Case	0	33	-	40.08	0	0.19%
238832 023	238832 UZJACKMA	239219	UZSMUCKER I	1	138	202 ATS1	241	292	Base Case	0	-109	-	45.23	0	-0.26%
24354/051	243547 USMORSE	243591	05SPRNGR	1	138	205 AEP	195	223	Base Case	0	-88.1	-	45.18	0	0.02%
238750 020	238750 02GDYR +	238787	02HAYES+	ZL	138	202 ATSI	233	282	Base Case	0	-105.1	-	45.1	0	-0.18%
242943 055	242943 05SCANTO	243092	05SCANTO	4	345/138	205 AEP	695	695	Base Case	0	313.4	-	45.09	0	-0.48%
253026 090	253026 09GREENE	253040	09KNOLLW	1	138	209 DAY	306	380	Base Case	0	137.6	-	44.97	0	-0.03%
239092 025	239092 02SAMMIS	253902	15BVRVAL	1	345	202/215 ATSI/DLCO	1413	1743	Base Case	0	635.4	-	44.97	0	0.06%
243473 05E	243473 05BIXBY	243480	05BUCKEY	1	138	205 AEP	184	184	Base Case	0	82.7	-	44.95	0	-0.10%
253027 090	253027 09GREENE	253026	09GREENE	2	345/138	209 DAY	448	493	Base Case	0	201.2	-	44.91	0	0.03%
246927 055	246927 05SAND H	246928	05WARTON H1	1	138	205 AEP	219	255	Base Case	0	98.3	-	44.9	0	0.00%
243347 051	243347 05TIDD 3-4	243779	05WHELGS	2	138	205 AEP	187	205	Base Case	0	83.9	-	44.88	0	0.00%
249991 08E	249991 08BUFTN1	249564	08BUFTN1	46	138/345	212 DE0&K	545	559	Base Case	0	-244	-	44.78	0	0.00%
243092 055	243092 05SCANTO	243134	0.5W.CANTON1	1	1.38	205 AEP	219	255	Base Case	0	97.9	-	44.71	0	0.13%
242728 05N	242728 05MULLNV	242754	05PINNAC	1	138	205 AEP	205	255	Base Case	0	91.6	_	44 7	0	0.14%
242522 057	242522 057MOS	242525	0582111110	1	345	205 AFP	897	897	Base Case	0	400.7	_	11.67	0	0.62%
242522 052	242522 05AFIO5	242525	050 DOINT1	1	120	205 AED	202	266	Dase Case	0	124 0	_	44.07	0	_0.02%
242091 0JF	242091 OJKENOVA	243088	OSB.FOINII	1	130	205 AEF	302	000	Dase Case	0	134.9		44.00	0	-0.12/6
2446/2 05F	244672 USROB PK_XFL	245476	USROB PK34	ZI	138	205 AEP	/66	898	Base Case	0	340.9	-	44.51	0	0.36%
238580 02E	238580 02BRADY	238782	02HANNA	1	138	202 ATSI	200	242	Base Case	0	-89	-	44.49	0	-0.06%
238834 023	238834 02JGSQ11	239226	02STYDCOQ11	ZL	138	202 ATSI	265	349	Base Case	0	-117.6	-	44.39	0	-0.01%
243501 05E	243501 05E.BEAV	243534	05LICK	1	138	205 AEP	219	255	Base Case	0	97.2	-	44.39	0	0.18%
238535 02 7	238535 02APQ-2	238834	02JGSQ11	1	138	202 ATSI	265	287	Base Case	0	-117.6	-	44.38	0	-0.01%
243377 055	243377 05SORENS	247132	05ELLISN	1	138	205 AEP	293	341	Base Case	0	129.9	-	44.33	0	0.20%
238568 02E	238568 02BAYSHO	239310	02BPHUSKY	2	138	202 ATSI	241	292	Base Case	0	106.7	-	44.26	0	-0.12%
243516 050	243516 05GREIF	243525	05HUNTLEY1	1	138	205 AEP	196	247	Base Case	0	86.8	-	44.26	0	0.03%
243453 05E	243453 05BEATTY	243469	05BEATTY	4	345/138	205 AEP	675	675	Base Case	0	298	-	44.14	0	0.15%
242567 05E	242567 05BROADX	242803	05SMYTH	1	138	205 AEP	251	334	Base Case	0	110.3	-	43.96	0	0.37%
243526 05H	243526 05HYATT	243537	05MALIS	2	138	205 AEP	338	407	Base Case	0	-148.5	-	43.94	0	-0.10%
246928 050	246928 05WARTON H1	247251	05CALTSS	1	1.38	205 AEP	173	173	Base Case	0	76	-	43.94	0	0.00%
243266 050	243266 05COUNTR	247433	05CHARCER	1	138	205 AFP	167	167	Base Case	0	73 /	_	13.92	0	0.32%
243200 050	243200 05000011	247455	0 EMALTO	1	120	205 AEI	107	210	Dase Case	0	07.0		43.52	0	0.52/0
243320 031	243320 UJRIATT	243337	O SMALLS		100	200 AEP	223	210	Dase Case	0	- 27.9	-	43.9	0	-0.07%
243052 051	243U52 USNECANT	243139	USWAGENHALS2	1	138	2US AEP	205	255	Base Case	0	-89.8	-	43.82	0	-0.05%
242580 050	242580 USCARBND	242689	UJKANAWHAI	1	138	205 AEP	251	335	Base Case	0	-109.9	-	43.77	0	0.44%
249567 08N	249567 U8M.FORT	253090	U9WMILTN	1	345	212/209 DEO&K/DAY	1195	1195	Base Case	0	522.1	-	43.69	0	1.12%
242663 05H	242663 05HANCK1	242708	05M FUNK	1	138	205 AEP	205	284	Base Case	0	-89.5	-	43.68	0	0.09%
238950 021	238950 02MBQ-13	241924	02ELQ4	1	138	202 ATSI	278	287	Base Case	0	-120.8	-	43.46	0	-0.01%
243233 051	243233 05TANNER	249567	08M.FORT	1	345	205/212 AEP/DEO&K	2151	2151	Base Case	0	934.7	-	43.45	0	4.01%
242938 051	242938 05MARQUI	243034	05MARQUI	3	345/138	205 AEP	463	463	Base Case	0	200.8	-	43.37	0	0.10%
239341 021	239341 02LEGEND	245697	05TORREY2	1	138	202/205 ATSI/AEP	187	240	Base Case	0	-81.1	-	43.36	0	-0.41%
243264 050	243264 05CONCOR	243385	05TWIN B	1	138	205 AEP	187	231	Base Case	0	-81.1	-	43.35	0	0.27%

253027 090	253027 09GREENE	253026 09GREENE	1	345/138	209	DAY	448	493 Base Case	0	193.9	-	43.27	0	0.03%
242534 054	242534 05ALLOY	242689 05KANAWHA1	1	138	205	AEP	223	223 Base Case	0	-96.5	-	43.27	0	0.00%
238615 020	238615 02CHAMBB	238781 02HANNA	1	345	202	ATST	1.380	1646 Base Case	0	-596.3	-	43.21	0	-0.59%
243553 055	243553 05POLARS	243590 05WESTAB	1	138	205	AEP	223	310 Base Case	0	96.2	-	43.16	0	0.07%
243469 055	243469 05BEATTY	247896 05BOLTON	1	138	205	AEP	223	223 Base Case	0	96	-	43.05	0	0.07%
238568 025	238568 02BAYSHO	239310 028PHUSKY	1	138	202	ATST	241	292 Base Case	0	103 7	_	43.04	0	-0.12%
243516 050	243516 05GRETE	243526 05HYATT	1	138	205	AEP	223	223 Base Case	0	-96	_	43 04	0	0.03%
238597 020	238597 02CAD017	238662 020K0-17	1	138	203	ATST	148	151 Base Case	0	-63 7	_	43.03	0	0.03%
246481 051	246481 05NMUSKC BP	247374 05MUSKNC2B	1	138	202	AFD	223	310 Base Case	0	-96	_	43.03	0	0.00%
220401 000	239642 020W 0-1	247374 03H03RN92B	1	120	203	ADI	223	222 Page Case	0	_117_4	_	43.03	0	0.24%
238643 020	238643 02CW Q-1	240359 02BENILEIQI	1	130	202	AISI	273	332 Base Case	0	-117.4	-	43.01		0.30%
242943 033	242943 03SCANTO	243092 03SCANTO	1	343/138	203	AEP	660	747 Base Case	0	292.4	-	43		-0.45%
238916 021	238916 UZLRN Q4	238919 02SLTRQ4	1	138	202	ATSI	1/6	229 Base Case	0	/5.6	-	42.96	0	0.37%
253047 091	253047 09MIAMI	253046 09MIAMI	1	345/138	209	DAY	450	495 Base Case	0	193.3	-	42.96	0	0.08%
243453 05E	243453 USBEATTY	243469 05BEATTY	3	345/138	205	AEP	695	695 Base Case	0	298.5	-	42.95	0	0.15%
242695 05F	242695 U5KINCAI	247064 05KANAWHA2	1	138	205	AEP	205	255 Base Case	0	-87.8	-	42.82	0	0.12%
243091 058	243091 05S.CALDWELL	247156 05STEAMT	1	138	205	AEP	205	284 Base Case	0	87.7	-	42.8	0	0.28%
250133 080	250133 08WLDER2	250153 08KYUTB2	1	138	212	DEO&K	264	264 Base Case	0	-113	-	42.8	0	-0.05%
238833 023	238833 02JACKSN	239281 02CRNBRY	1	138	202	ATSI	278	339 Base Case	0	-118.9	-	42.78	0	-0.37%
239237 020	239237 02CLVR-S	243000 05EWOOST	1	138	202/205	ATSI/AEP	161	194 Base Case	0	68.7	-	42.69	0	-0.18%
243474 05E	243474 05BLACKL	243510 05GAHANN	1	138	205	AEP	150	212 Base Case	0	-64	-	42.66	0	0.01%
253068 095	253068 09SHELBY	253150 09HNDAAT	1	138	209	DAY	221	272 Base Case	0	94.1	-	42.59	0	-0.09%
238936 021	238936 02MACLEA	239029 020REGON	1	138	202	ATSI	287	342 Base Case	0	-122.2	-	42.57	0	-0.08%
243349 051	243349 05NEW CARLI2	247489 05BOSSERMAN	2	138	205	AEP	136	167 Base Case	0	57.9	-	42.54	0	-0.60%
238796 02H	238796 02HGHLND	240069 02LORDSTOWN	1	345	202	ATSI	1413	1743 Base Case	0	-600.8	-	42.52	0	-0.44%
238549 027	238549 02AVERY	239290 02HAYES	1	138	202	ATSI	233	282 Base Case	0	-99	-	42.48	0	0.40%
243049 051	243049 05NATRIUM12	247058 05DOMIN	1	138	205	AEP	257	349 Base Case	0	109.1	-	42.44	0	0.00%
243250 05E	243250 05BENTON	245846 05RIVERSIDE2	1	138	205	AEP	167	240 Base Case	0	70.8	-	42.41	0	-0.20%
242836 051	242836 05TURNE1	247091 05LAKEVI	1	138	205	AEP	296	296 Base Case	0	-125.3	-	42.32	0	0.13%
242537 052	242537 05AMOS	247091 05LAKEVI	1	138	205	AEP	296	296 Base Case	0	125.3	-	42.32	0	0.13%
249566 08E	249566 08FOSTER	253079 09SUGRCK	1	345	212/209	DEO&K/DAY	1263	1455 Base Case	0	532.1	-	42.13	0	1.09%
243315 051	243315 05ILLINO	243377 05SORENS	1	138	205	AEP	335	392 Base Case	0	-141	-	42.08	0	0.12%
243091 055	243091 05S.CALDWELL	247372 05MUSKNG1C	2	138	205	AEP	205	284 Base Case	0	-86.2	-	42.05	0	0.44%
242841 050	242841 05W GLOW	242853 05WURNO	1	138	205	AEP	219	255 Base Case	0	92.1	-	42.04	0	0.26%
242708 051	242708 05M FUNK	242756 05POAGES	1	138	205	AEP	167	240 Base Case	0	70.1	-	41.96	0	0.06%
253042 091	253042 09LOGAN	253065 09QUINCY	1	138	209	DAY	160	224 Base Case	0	-67.1	-	41.96	0	0.18%
243089 055	243089 05SBALTM	243149 05W.LANCAST1	1	138	205	AEP	167	167 Base Case	0	70	-	41.93	0	0.08%
243217 051	243217 05DEQUIN	243221 05EUGENE	1	345	205	AEP	1409	1959 Base Case	0	-590.6	-	41.92	0	1.19%
253077 095	253077 09STUART	250167 08DE0 STUART	1	345/138	209/212	DAY/DEO&K	250	275 Base Case	0	104.8	-	41.92	0	-0.05%
246752 05	246752 05VASSEL	247728 O5VASSEL XFL	Z1	345	205	AEP	2855	2897 Base Case	0	-1196.4	-	41.9	0	-0.62%
238570 025	238570 02BEAVER	239318 02HENRTA	1	138	202	ATSI	161	194 Base Case	0	67.4	-	41.89	0	-0.18%
250057 08N	250057 08M.FORT	250060 08MDWAY1	1	138	212	DEO&K	275	275 Base Case	0	115.1	-	41.85	0	0.21%
243511 050	243511 05GAY	243584 05VINE	1	138	20.5	AEP	174	233 Base Case	0	72.8	-	41.82	0	0.02%
242689 058	242689 05KANAWHA1	247333 05PAX BBANCH	1	1.38	205	AEP	205	284 Base Case	0	85.7	-	41.8	0	0.10%
242930 055	242930 05SCANTO	247463 05SCANTO XEL	3	765/345	205	AEP	2703	3108 Base Case	0	1129 3	-	41 78	0	3.04%
242698 051	242698 05LAKIN	242807 05SPORN	1	138	205	AEP	185	185 Base Case	0	-77 2	_	41.75	0	-0 10%
238767 020	238767 02CPED T	238768 02CPNET D	71	138	203	ATGT	105	66 Base Case	0	-27.6	_	41.75	0	0.10%
2/9573 000	249573 089CD0VE	249577 087TMED	1	770	202	DEUCK	1664	1664 Base Case	0	-69/ 2	_	 /1 72		-1 02%
243001 054	243001 050 CAT DWETT	247371 054100010	1	120	212	NED	2004	284 Base Case	0	-054.2	_	 		0 1/02/0
238782 032	239783 0203.CALDWELL	238782 02000011	1	130	205	ADE	202	A54 Base Case	0	-03.5	_			-0 10%
230/03 UZH	230/03 UZHAKUIN 240001 00DIEEM1	250140 00EKDWED	<u> </u>	120	202	DEOLA	347	200 Date Case	0	104 0	-	41.0		-0.10%
249991 USE	249991 U8BUFTN1	2 JUI 48 USEKPWEB	1	138	212	DEU&K	298	298 Base Case	0	124.2	-	41.69		0.14%
239106 028	239106 UZSHNAGO	239936 UZMCCLELLAND	$\frac{1}{1}$	345	202	ATSI	1380	1040 Base Case	0	-5/5	-	41.66		-0.59%
242935 USE	242935 USE LIMA	242989 USE LIMA	1	345/138	205	AEP	513	J/b Base Case	0	213.7	-	41.66		-0.01%
243227 051	243227 U5LAWBG2	243233 05TANNER	2	345	205	AEP	1188	1409 Base Case	0	494.6	-	41.63		-0.31%
238588 U2E	238588 UZBRNSWK	239618 UZLAUREL	$\frac{1}{1}$	138	202	ATSI	233	282 Base Case	0	-96.9	-	41.6		0.20%
243675 05E	243675 U5BELLF1	243968 USIRONWOODSS	+ ¹	138	205	AEP	136	167 Base Case	0	56.5	-	41.55	0	-0.10%
253046 09N	253046 09MIAMI	253056 09NORTHR	1	138	209	DAY	191	234 Base Case	0	79.3	-	41.54	0	0.10%

243491 050	243491 05CORRID	243547 05MORSE	1	138	205	AEP	293	338 Base Case	0	121.7	-	41.52	0	-0.09%
238745 020	238745 02GALION	238746 02GALION	4	345/138	202	ATSI	400	478 Base Case	0	165.9	-	41.48	0	0.38%
247489 05E	247489 05BOSSERMAN	255184 17TRAIL CRK	1	138	205/217	AEP/NIPS	156	156 Base Case	0	64.5	-	41.36	0	-0.85%
243070 050	243070 050HIOCT	243145 05WCOSHC	1	138	205	AEP	185	254 Base Case	0	76.4	-	41.32	0	0.43%
253014 090	253014 09CLINTO	253310 AC1-085 POI	1	345	209	DAY	1255	1374 Base Case	0	-518.5	-	41.31	0	-0.09%
238944 021	238944 02MASURY	239107 02SHNAGO	1	138	202	ATSI	157	196 Base Case	0	-64.8	-	41.31	0	-0.05%
243513 050	243513 0.5GENOA	243537 05MALTS	2	1.38	205	AEP	338	407 Base Case	0	-139.5	-	41.26	0	0.08%
235428 010	235428 01WINDSR	243131 05TILTON	1	138	201/205	AP/AEP	329	361 Base Case	0	-135.7	-	41.25	0	0.86%
244745 05F	244745 05BABBTT1-2	246385 05JUGST 7-11	1	1.38	205	AEP	564	747 Base Case	0	-232.5	-	41.23	0	0.08%
243526 051	243526 05HYATT	243566 05SAWMTL	1	138	205	AEP	340	434 Base Case	0	140.1	-	41.21	0	0.00%
249999 080	249999 08CNSTNC	250007 08CBSNT1	1	138	212	DEO&K	2.38	238 Base Case	0	97.9	-	41.15	0	0.23%
242984 050	242984 05CHATEL	243039 05MELMOR	1	138	205	AEP	167	167 Base Case	0	-68 7	-	41 13	0	0.20%
242745 055	242745 05PEAKCK	242841 05W GLOW	1	138	205	AEP	251	309 Base Case	0	103 2	-	41 1	0	0.26%
238652 021	238652 02DARROW	239136 02TEREX	1	138	202	ATST	50	50 Base Case	0	20.5	-	41.03	0	0.00%
243262 050	243262 05COLLEGE C	250001 08COLINY	1	138	205/212	AEP/DEO&K	167	167 Base Case	0	68.4	-	40.98	0	0.41%
243619 055	243619 05BOSEWOODSS	244198 05LEMASTER	1	138	205	AEP	338	483 Base Case	0	138 4	-	40.96	0	-0.08%
250044 085	250044 08HEBBN2	250152 08HEBBNG	- 71	138	212	DEO&K	309	349 Base Case	0	-126.5	-	40.94	0	0.23%
238782 021	238782 02HANNA	239615 020LDFRG	1	138	202	ATST	233	282 Base Case	0	95.3	-	40.91	0	-0.12%
242522 057	242522 05AMOS	242537 05AMOS	7	345/138	205	AEP	680	696 Base Case	0	278.2	-	40.91	0	0.03%
253026 090	253026 09GREENE	935040 AD1-140 TAP	1	138	209/202	DAY/ATSI	233	282 Base Case	0	95.1	-	40.83	0	0.25%
238623 020	238623 02CLARK	935040 AD1-140 TAP	1	138	202	ATSI	233	282 Base Case	0	-95.1	-	40.83	0	0.25%
242788 058	242788 05SALTV1	242827 05TAZEWE	1	138	205	AEP	296	398 Base Case	0	120.8	-	40.82	0	0.40%
243560 055	243560 05B0BEBT	246907 05W CAMPUS	1	138	205	AEP	324	434 Base Case	0	131 4	-	40.57	0	0.07%
242931 05F	242931 05BEVERL	242940 05MUSKNG	1	345	205	AEP	971	971 Base Case	0	393.8	-	40.56	0	-2.93%
238796 021	238796 02HGHLND	240069 02LOBDSTOWN	2	345	202	ATST	1413	1743 Base Case	0	-572 1	-	40 49	0	-0.41%
239198 020	239198 02CONGRS	239369 02TOBONTO	1	138	202	ATSI	185	189 Base Case	0	-74 7	_	40.4	0	-0.16%
242525 058	242525 05KANAWH	247068 05KANAWH ASZ	Δ	345/138	202	AEP	492	556 Base Case	0	198 7	-	40.39	0	0.10%
249569 08N	249569 08MADISN	249576 08WODSDI	1	345	208/212	DET / DEO&K	1139	1195 Base Case	0	459 4	-	40.33	0	-0.29%
238707 025	238707 02EVANS	238750 02GDYB +	1	1.38	202	ATST	233	282 Base Case	0	-93.8	-	40.28	0	-0.18%
242933 055	242933 058PMONE	246929 05MADDOX	1	345	205	AEP	897	1301 Base Case	0	361.2	-	40.27	0	3.89%
245983 050	245983 05GBTSTMTLL	245994 0.5GEMINT	1	1.38	205	AEP	257	360 Base Case	0	103.5	-	40.27	0	-0.08%
238781 021	238781 02HANNA	238850 02 JUNT PE	1	345	202	ATST	1555	1892 Base Case	0	626 1	-	40.26	0	-1.00%
242537 054	242537 05AMOS	242740 050RTIN	2	138	205	AEP	696	729 Base Case	0	280.2	-	40.26	0	0.31%
243278 051	243278 05DESOTO	243337 05MAYETE	1	138	205	AEP	205	205 Base Case	0	82.5	-	40.24	0	-0.07%
242566 055	242566 05BBOADE	242693 05KEYWSS	1	138	205	AEP	167	245 Base Case	0	-67.2	-	40.22	0	0.32%
238832 02	238832 02JACKMA	239236 02TOLHOS	1	138	202	ATST	216	264 Base Case	0	86.8	-	40.19	0	-0.16%
243231 055	243231 05R0B PK	243232 05SOBENS	1	345	205	AEP	1025	1203 Base Case	0	-411.7	-	40.17	0	-0.04%
238504 020	238504 02GM-PWB-TBN	239219 02SMUCKEB 1	1	1.38	202	ATST	278	343 Base Case	0	111.5	-	40.12	0	-0.26%
243454 05E	243454 05BIXBY	243473 05BIXBY	2	345/138	205	AEP	720	815 Base Case	0	288.6	-	40.08	0	-0.04%
242938 05N	242938 05MARQUI	243034 05MARQUI	2	345/138	205	AEP	501	564 Base Case	0	200.8	-	40.08	0	0.10%
242729 051	242729 05NAGEL	242762 05REEDCR	1	138	205	AEP	205	205 Base Case	0	82.1	-	40.04	0	0.11%
238706 025	238706 02EU TAP	238991 02NCASTL	1	138	202	ATSI	329	413 Base Case	0	-131.6	-	40.01	0	-0.19%
243679 05E	243679 05BUSSYV	243702 05THELMA	1	138	205	AEP	223	310 Base Case	0	89.1	-	39.97	0	-0.17%
242688 053	242688 05JOSHUA	247670 05JOSHUA XFL	1	138	205	AEP	747	747 Base Case	0	-298.4	-	39.95	0	0.65%
243226 051	243226 05LAWBG1	243233 05TANNER	1	345	205	AEP	1239	1409 Base Case	0	494.6	-	39.92	0	-0.31%
242675 05F	242675 05HUFFMN	242684 05J.FERR	1	138	205	AEP	282	348 Base Case	0	-112.3	-	39.82	0	-0.02%
243086 055	243086 05S HICK	247108 05SOWERS	1	138	205	AEP	223	310 Base Case	0	-88.8	-	39.81	0	1.03%
239082 025	239082 02S8-ATT	238544 02ASH 3	8	345/138	202	ATSI	620	701 Base Case	0	246.8	-	39.81	0	-0.64%
249988 08E	249988 08BKJ135	250103 08TBSC01	1	138	212	DEO&K	332	332 Base Case	0	132.1	-	39.8	0	-0.06%
242940 05N	242940 05MUSKNG	242949 05WMILLP	1	345	205	AEP	897	897 Base Case	0	355.5	-	39.63	0	-1.43%
242977 050	242977 05CALDWE	243091 05S.CALDWELL	1	138	205	AEP	205	284 Base Case	0	-81.2	-	39.6	0	0.31%
242748 05F	242748 05PENHOK	242802 05SMITHMTN	1	138	205	AEP	296	392 Base Case	0	-116.8	-	39.47	0	-0.16%
242522 057	242522 05AMOS	242537 05AMOS	8	345/138	205	AEP	696	696 Base Case	0	274.3	-	39.41	0	0.03%
242592 050	242592 05CHEM 1	242593 05CHEM 2	Z1	138	205	AEP	498	498 Base Case	0	196.2	-	39.4	0	0.32%
238575 02E	238575 02BLUBEL	239306 02REPUBLICSM	1	138	202	ATSI	117	147 Base Case	0	-46.1	-	39.39	0	-0.23%
253026 090	253026 09GREENE	253062 090VERL1	1	138	209	DAY	306	380 Base Case	0	120.5	-	39.38	0	-0.05%

250057 08N	250057 08M.FORT	250070 08MRGAN1	1	138	212	DEO&K	268	268 Base Case	0	105.3	-	39.28	0	0.20%
242925 05F	242925 05KAMMER	242930 05SCANTO	1	765	205	AEP	2890	2890 Base Case	0	1132.8	-	39.2	0	3.04%
242621 050	242621 05DARBH1	242835 05TRISTA	1	1.38	205	AEP	167	240 Base Case	0	-65.4	-	39.19	0	-0.03%
243475 05F	243475 05BLENDO	243491 05COBBID	1	1.38	205	AEP	285	338 Base Case	0	-111.5	-	39.14	0	-0.06%
242592 050	242592 05CHEM 1	242740 050BTIN	2	138	205	AEP	685	729 Base Case	0	-267 9	-	39.11	0	0.31%
238850 02.	238850 02.TUNT PE	238843 02.TNPB04	6	345/138	202	ATST	486	579 Base Case	0	190 1	-	39.11	0	0.00%
242807 059	242807 05SPORN	243013 05GAVIN1	1	138	205	AEP	158	183 Base Case	0	61 8	_	39.11	0	-0.09%
250052 088	250052 08KYUNTV	250153 08KVUTB2	71	138	203	DEUER	309	349 Base Case	0	120 7	_	39.07	0	-0.05%
242637 051	242637 05 5 1 0 7 10	247558 05 TAPPETT	1	138	205	AFD	219	255 Base Case	0	85.5	_	39.05	0	0.05%
242037 031	242000 055 1 1MA	247556 050ARRETT	1	120	205	AED	150	192 Page Case	0	61 7	_	20.02	0	0.40%
242303 035	242409 05DI AWAD2	245155 05W.NEWION35	1	120	205	AEF	220	105 Base Case	0	_121 0		20.01	0	-0.10%
243498 031	243498 03DLAWAR2	246/33 USVASSEL	1	130	203	AEP	338	436 Base Case	0	-131.9	-	39.01		-0.10%
238552 022	230332 UZALLINJB	239110 0251L_AV+	1	130	202	AISI	270	343 Base Case	0	100.4	-	39.01		0.24%
238730 02E	238730 02FORTIN	239315 02STER-P	1	138	202	ATSI	241	292 Base Case	0	94	-	38.99		-0.24%
242940 051	242940 05MUSKNG	242949 05WMILLP	2	345	205	AEP	915	1132 Base Case	0	356.4	-	38.95	0	-1.43%
243492 050	243492 05CORWIN	243545 05MILTON SS	1	138	205	AEP	219	255 Base Case	0	-85.3	-	38.95	0	0.10%
238878 021	238878 02LB Q12	241923 02ELQ3	1	138	202	ATSI	273	287 Base Case	0	-106.3	-	38.95	0	-0.01%
242605 050	242605 05CLNCHR	242700 05LEBANO	1	138	205	AEP	446	446 Base Case	0	173.3	-	38.87	0	0.51%
238908 021	238908 02LONDON	926010 AC1-078 TAP	1	138	202	ATSI	277	277 Base Case	0	-107.6	-	38.86	0	-0.19%
242575 050	242575 05CAMDLM	242737 050POSSUMCK	1	138	205	AEP	205	284 Base Case	0	79.5	-	38.8	0	-0.04%
239070 02F	239070 02RICHLD	239269 02RICHLJ	ZB	138	202	ATSI	329	413 Base Case	0	127.6	-	38.79	0	0.21%
242680 051	242680 05ITMANN	242754 05PINNAC	1	138	205	AEP	205	255 Base Case	0	-79.4	-	38.73	0	0.14%
250072 08N	250072 08MTCHL1	250074 08MTCHL4	Z1	138	212	DEO&K	267	267 Base Case	0	-103.4	-	38.71	0	0.06%
238644 020	238644 02CW Q-3	240360 02BENTLEYQ3	1	138	202	ATSI	273	332 Base Case	0	-105.5	-	38.65	0	0.27%
243385 051	243385 05TWIN B	247780 05KLINE	1	138	205	AEP	329	334 Base Case	0	126.9	-	38.59	0	0.22%
243456 050	243456 05CORRID	243491 05CORRID	1	345/138	205	AEP	680	847 Base Case	0	262.4	-	38.58	0	-0.10%
238551 027	238551 02AVON	241928 02AVQ2	91	345/138	202	ATSI	753	849 Base Case	0	290.3	-	38.55	0	0.68%
243231 05F	243231 05ROB PK	244672 05ROB PK_XFL	5	345/138	205	AEP	887	982 Base Case	0	341.1	-	38.46	0	0.36%
239036 021	239036 02PERRY	239334 02L.CENTER	1	345	202	ATSI	1396	1667 Base Case	0	536.7	-	38.45	0	-1.20%
239060 02F	239060 02RDGVL	239070 02RICHLD	1	138	202	ATSI	161	194 Base Case	0	-61.8	-	38.4	0	0.32%
243349 051	243349 05NEW CARLI2	244930 05NEW CARLI1	Z1	138	205	AEP	335	392 Base Case	0	-128.6	-	38.39	0	0.27%
243012 050	243012 05G WASHGTON	246945 05BIGR1Z	1	138	205	AEP	205	205 Base Case	0	78.6	-	38.36	0	0.27%
238649 021	238649 02DALE	238968 02MOORE	1	138	202	ATSI	233	282 Base Case	0	89.4	-	38.36	0	0.16%
243461 05F	243461 05ROBRT1	243560 05ROBERT	1	345/138	205	AEP	671	766 Base Case	0	257.1	-	38.31	0	0.12%
243337 05N	243337 05MAYFIE	246625 05MEDFORD_BP	1	138	205	AEP	180	205 Base Case	0	69	-	38.31	0	-0.07%
238724 021	238724 02FMEAST	239239 02MEDCO	1	138	202	ATSI	194	237 Base Case	0	74.3	-	38.3	0	0.10%
243293 05E	243293 05FISHER	243302 05GRANT	1	138	205	AEP	251	335 Base Case	0	-96	-	38.26	0	0.40%
250065 08N	250065 08MILIKN	250105 08TDHNTR	1	138	212	DEO&K	299	299 Base Case	0	-114.4	-	38.25	0	-0.06%
238626 020	238626 02CLAYBN	239083 02SAKRON	1	138	202	ATSI	157	196 Base Case	0	-60	-	38.24	0	0.08%
242525 05F	242525 05KANAWH	247092 05KANAWH BSZ	в	345/138	205	AEP	539	574 Base Case	0	206	-	38.22	0	0.11%
238751 029	238751 02SMUCKER 2	239315 02STER-P	1	138	202	ATSI	241	292 Base Case	0	-92.1	-	38.22	0	-0.24%
253074 099	253074 09STATAP	253098 09STAUNT	1	138	209	DAY	196	198 Base Case	0	74.9	-	38.2	0	0.01%
242940 05N	242940 05MUSKNG	247501 05MUSK E XFL	E	345/138	205	AEP	713	765 Base Case	0	272.3	-	38.19	0	0.73%
238783 02H	238783 02HARDIN	238850 02JUNIPE	1	345	202	ATSI	1555	1793 Base Case	0	-593.5	-	38.17	0	0.59%
242940 05N	242940 05MUSKNG	247500 05MUSK D XFL	D	345/138	205	AEP	713	765 Base Case	0	271.9	-	38.13	0	0.73%
238783 021	238783 02HARDIN	238794 02HDG013	- 3	345/138	202	ATST	397	488 Base Case	0	151.4	-	38.13	0	-0.10%
243318 05.	243318 05 JACKSON RD	243371 055 STDE	1	138	205	AEP	251	335 Base Case	0	95.6	-	38.09	0	-0.29%
242614 050	242614 05COLLINV SS	242711 05MARTN1	1	138	205	AEP	219	255 Base Case	0	-83.4	-	38.07	0	0.10%
240360 021	240360 02BENTLEYO3	241929 02AVO3	1	138	200	ATST	219	339 Base Case	0	-105 7	-	38.01		0.27%
250152 084	250152 08HEBRNG	342595 4HEBRON	1	138	212/320	DEO&K/EKPC	96	117 Base Case	0	36 5	-	38	0	0.01%
243218 051	243218 05DESOTO	243278 05DESOTO	1	345/138	212, 320	AEP	584	692 Base Case	0	221 8	_	37 98		0.01%
243789 051	243789 055305000	244745 0505010	73	120	203	AFD.	150	183 Base Case	0	_ 221.0		37.97		0.11%
243789 051	243789 05FACEBOOK	244745 05BADD111-2	7.2	130	203	AEP	150	183 Baco Case	0	-00	_	37 07		0.00%
243780 05	243789 05FACEBOOK	244745 05DADD111-2	71	1 2 0	203	AFD.	150	183 Base Case	0	-00	_	37 07		0.00%
242145 055	242145 05WC00UC	247/45 USBABBIII-2	1 1	120	203	APD	105	257 Page Case	0	70 1	-	27.0		0.00%
243143 030	243143 UJWCUBHC 242729 05NACET	245220 05W KINCOPTO	1	120	205	ADE	205	205 Base Case	0	70.1		37 00		0.44%
242129 000	242278 05 DE COMO	243220 UJW.KINGSPT2		100	205	ADF	205	200 base case	0	154 0		27.09		0.17%
243278 USI	2432/8 USDESOTO	∠4/83/USPERCH	1 1	138	205	AEP	409	409 Base Case	0	154.9	-	31.88	U	0.30%

243460 05F	243460 05ROBRT2	243560 05ROBERT	2	345/138	205	AEP	671	766 Base Case	0	253.9	-	37.85	0	0.11%
253007 09E	253007 09BELLBR	253078 09SUGRCK	1	138	209	DAY	301	419 Base Case	0	-113.8	-	37.82	0	0.12%
238678 025	238678 02EAKBON	239615 020LDFBG	1	1.38	202	ATST	221	262 Base Case	0	-83.4	-	37.75	0	-0.12%
243333 05N	243333 05MADTSON1	247420 05CBOSS ST Z	1	138	205	AEP	187	233 Base Case	0	70 6	-	37 73	0	0.07%
243335 05N	243335 05MATN S	243365 058TVE8STDE1	1	138	205	AEP	219	223 Base Case	0	-82 6	-	37.7	0	-0.38%
242855 050	242855 05WYOMIN	242857 05WYOMX2	- 7B	138	205	AFP	696	747 Base Case	0	-261 5	_	37.57		-0.08%
242855 050	242855 05WYOMIN	242856 05WYOMX1	ZB	138	205	AFP	696	747 Base Case	0	-261 5	_	37.57	0	-0.08%
242033 037	242035 05WIOMIN	242802 05 SMITHMEN	1	130	205	AED	358	109 Base Case	0	_134 5	_	37.57	0	-0.14%
222542 027	232542 02ACH 2	242002 035HTHMIN	1	120	203	ADI	200	242 Page Case	0	75 1	_	27.56		0.14%
230343 022	230343 02A3n_2	240300 02FEIMIN	1	120	202	DEOCK	200	242 Base Case	0	-100.4	_	27.49		-0.12%
249994 080	249994 08CHRLES	230091 08RCHLE3	1	130	212	DEDAK	200	202 Base Case	0	-100.4	-	37.40	0	-0.12%
242680 031	242680 0311MANN	242727 USMULLEN	1	130	203	AEP	205	200 Base Case	0	111.0	-	37.40	0	0.14%
250161 081	250161 081758	250162 08GARVER	1	138	212	DEU&K	298	298 Base Case	0	-111.2	-	37.33	0	0.00%
253002 094	253002 09AIRWAY	253026 09GREENE	1	138	209	DAY	191	234 Base Case	0	-/1.2	-	37.3	0	-0.01%
235102 01E	235102 01BELMNT	242920 05BELMON	5	500/765	201/205	AP/AEP	1986	2385 Base Case	0	-740.6	-	37.29	0	7.39%
238678 02E	238678 02EAKRON	239178 02WRAVNA	1	138	202	ATSI	200	242 Base Case	0	-74.6	-	37.29	0	-0.13%
249566 08E	249566 OBFOSTER	253006 09BATH	1	345	212/209	DEO&K/DAY	1263	1455 Base Case	0	470.5	-	37.26	0	0.95%
250121 08t	250121 08UNION	250161 08T758	1	138	212	DEO&K	298	298 Base Case	0	-111	-	37.25	0	0.00%
249565 08E	249565 08EBEND	249575 08TERMNL	1	345	212	DEO&K	1290	1457 Base Case	0	477.9	-	37.05	0	0.82%
235299 01E	235299 01BELMNT	243557 05RENO Z	1	138	201/205	AP/AEP	282	282 Base Case	0	104.4	-	37.03	0	-0.34%
238642 020	238642 02CRSLND	238669 02DUFERC	1	138	202	ATSI	96	96 Base Case	0	35.5	-	37.01	0	0.00%
243214 050	243214 05COLNGW	247105 05VARNER	1	345	205	AEP	1409	1829 Base Case	0	521.3	-	37	0	0.62%
238751 028	238751 02SMUCKER 2	238832 02JACKMA	1	138	202	ATSI	241	292 Base Case	0	89.1	-	36.98	0	-0.24%
250048 08F	250048 08KLEMN1	250060 08MDWAY1	1	138	212	DEO&K	275	275 Base Case	0	-101.7	-	36.98	0	0.21%
243456 050	243456 05CORRID	243491 05CORRID	2	345/138	205	AEP	696	747 Base Case	0	257.3	-	36.97	0	-0.10%
243018 05H	243018 05HEATH	243150 05WMILLP	1	138	205	AEP	205	205 Base Case	0	-75.7	-	36.94	0	0.12%
242560 05E	242560 05BONSCK	242840 05VINTON	1	138	205	AEP	205	252 Base Case	0	75.7	-	36.92	0	-0.10%
238781 02H	238781 02HANNA	238782 02HANNA	1	345/138	202	ATSI	599	684 Base Case	0	221.1	-	36.91	0	-0.11%
243007 05E	243007 05FRAZEY	243070 050HIOCT	1	138	205	AEP	287	337 Base Case	0	-105.7	-	36.83	0	-0.23%
243513 050	243513 05GENOA	243590 05WESTAR	1	138	205	AEP	223	274 Base Case	0	-82.1	-	36.82	0	0.07%
242932 050	242932 05CANTNC	242980 05CANTNC	1	345/138	205	AEP	500	563 Base Case	0	184.1	-	36.82	0	-0.11%
243235 052	243235 0523RD	246625 05MEDFORD BP	1	138	205	AEP	187	240 Base Case	0	-68.8	-	36.78	0	-0.07%
246887 05F	246887 05RAMEY	246919 05CHADWICK2	1	138	205	AEP	409	527 Base Case	0	-150.4	-	36.77	0	-0.10%
243377 055	243377 05SORENS	244183 05LAFAY C SS	1	138	205	AEP	251	335 Base Case	0	92.2	-	36.73	0	0.10%
238665 021	238665 02DS Q-1	238671 02DW Q-1	1	138	202	ATSI	273	332 Base Case	0	-100.2	-	36.72	0	0.36%
238643 020	238643 02CW 0-1	238671 02DW 0-1	1	138	202	ATSI	273	332 Base Case	0	100.2	-	36.72	0	0.36%
250053 08I	250053 08LAFARG	250097 08SGROVE	1	138	212	DEO&K	298	298 Base Case	0	-109.4	-	36.71	0	-0.03%
238821 021	238821 02INLAND	238823 02INO-14	4	345/138	202	ATSI	620	739 Base Case	0	227.5	-	36.69	0	-0.03%
239303 021	239303 02NILES	239008 02NILES	1	345/138	202	ATSI	581	693 Base Case	0	213.2	-	36.69	0	-0.05%
242922 055	242922 05FLTLCK	242928 05MARYSV	1	765	205	AEP	4047	4142 Base Case	0	1483.2	-	36.65	0	-5.87%
249981 087	249981 08AKSTEEL2	250010 08D.CRK2	1	138	212	DEO&K	299	299 Base Case	0	-109.5	-	36.63	0	-0.01%
243017 056	243017 05HAVTLAND1	246352 05HAVILAND2	- 21	138	205	AEP	187	240 Base Case	0	-68 5	-	36.63	0	0.61%
243217 051	243217 05DEOUTN	247712 05SULLIVAN	1	345	205	AEP	971	1318 Base Case	0	-355 3	-	36.59		-0.02%
249981 082	249981 082KSTEEL2	250105 08TDHNTR	1	138	212	DEOSK	273	287 Base Case	0	-99.9	_	36.58		0.01%
239133 027	239133 02TANCY	242939 05MARYSV	1	345	202/205	ATGT /AFP	897	1301 Base Case	0	-327 4	_	36.5		1 23%
250136 081	250136 08HTLCRT	250141 08SCEAST	1	138	202/203	DEOSK	301	301 Base Case	0	109.8	-	36.48	0	-0.03%
220050 001	230130 00000000	220141 005CEAST	1	120	202	ATCT	152	191 Base Case	0	105.0	_	26.45		0.03%
233000 02F	243218 05 DECOMO	239127 0231KIKE	1	245/120	202	AIDI	100	101 Base Case	0	212.0	-	26.42		0.32/0
243210 031	243210 UJDESUTU	243270 UJDESUTU	2	120	205	ADE	204	204 Dase Case	0	212.8	-	26 43		0.11%
243070 050	243070 030H10CT	243073 USPOWELS	1	138	205	ALF	205	Z04 Base Case	0	/4./		26 41		0.08%
243207 030	243207 U3GKNTWN	244030 U3GKNTWN	1	100/138	205	ALT	100	240 Base Case	0	2/3.1		26.22		0.20%
242/36 USE	242/36 USPOAGES	242815 USSTARKE	1	138	205	AEP	167	240 Base Case	0	60.7	-	30.33		0.06%
253006 09E	253006 09BATH	253005 09BATH	2	345/138	209	DAY	450	495 Base Case	0	163.5	-	36.33	0	0.11%
253006 09E	253006 09BATH	253005 09BATH	1	345/138	209	DAY	450	495 Base Case	0	163.5	-	36.33		0.11%
243508 051	243508 05ITALNV	243575 05ST.CLR	1	138	205	AEP	248	313 Base Case	0	-90.1	-	36.32		-0.14%
243353 050	243353 050LIVE	246075 05EDISON1	1	138	205	AEP	251	251 Base Case	0	91.1	-	36.28	0	0.36%
243031 051	243031 05LYNN Z	243155 USW.NEWTONSS	1	138	205	AEP	158	183 Base Case	0	-57.3	-	36.27	0	0.26%
243105 058	243105 05SMILLB	247253 05BUCKSS	1	138	205	AEP	185	257 Base Case	0	-67.1	-	36.27	0	0.44%

238745 020	238745 02GALTON	238746	02GALTON	3	345/138	202 ATST	458	478	Base Case	0	165.7	-	36.19	0	0.38%
243526 051	243526 05HYATT	243566	05SAWMIT.	2	138	205 AEP	388	526	Base Case	0	140 2	-	36 14	0	0.00%
242700 051	242700 051 FRANO	246766	05518672	1	138	205 AFP	116	446	Base Case	0	161	_	36.1	0	0.51%
242700 051	242700 05155400	240700	05CDUTN1	1	120	205 AEF	105	105	Dase Case	0	101		26.00	0	0.31/0
242696 031	242698 USLAKIN	243013	OCULANNA	1	245/120	205 AEP	100	100	Base Case	0	222.2	-	36.08	0	-0.12%
238781 UZF	238781 U2HANNA	230/02	02HANNA	2	343/138	202 AISI	010	090	Base Case	0	222.2	-	36.07	0	-0.11%
24/002 050	247002 05WAYMSS	24/128	05ASTNSS	1	138	205 AEP	205	255	Base Case	0	-/3.9	-	36.05	0	0.18%
243454 05E	243454 05BIXBY	243473	05BIXBY	1	345/138	205 AEP	789	879	Base Case	0	284.4	-	36.05	0	-0.04%
238782 02F	238782 02HANNA	239178	02WRAVNA	1	138	202 ATSI	295	369	Base Case	0	106.3	-	36.04	0	-0.09%
242528 055	242528 05SPORN	242808	05SPORNS	3	345/138	205 AEP	475	544	Base Case	0	171.1	-	36.03	0	-0.12%
250105 081	250105 08TDHNTR	250138	08NICKEL	1	138	212 DEO&K	300	300	Base Case	0	108	-	36.01	0	0.18%
242605 050	242605 05CLNCHR	246894	05VACITY	1	138	205 AEP	670	675	Base Case	0	-240.9	-	35.95	0	-0.15%
242605 050	242605 05CLNCHR	246894	05VACITY	2	138	205 AEP	670	675	Base Case	0	-240.9	-	35.95	0	-0.15%
243473 05E	243473 05BIXBY	243518	05GROVES	2	138	205 AEP	335	392	Base Case	0	120.4	-	35.93	0	-0.04%
243070 050	243070 050HIOCT	243160	05WTRNWY	1	138	205 AEP	205	255	Base Case	0	73.6	-	35.91	0	-0.12%
242999 05E	242999 05EPROCT	243064	05NPROCT	1	138	205 AEP	296	296	Base Case	0	-106.1	-	35.86	0	0.10%
242966 05E	242966 05BROADA	242994	05EAMSTD	1	138	205 AEP	336	393	Base Case	0	120.3	-	35.81	0	-0.17%
238678 02E	238678 02EAKRON	238864	02KNOX	1	138	202 ATSI	185	189	Base Case	0	-66.2	-	35.78	0	-0.04%
249567 08N	249567 08M.FORT	249575	08TERMNL	1	345	212 DEO&K	1509	1509	Base Case	0	539.6	-	35.76	0	1.36%
242732 05N	242732 05NBRSTL	360490	4NBRISTOL VA	Z1	138	205/347 AEP/TVA	242	248	Base Case	0	86.5	-	35.73	0	-0.24%
238821 021	238821 02INLAND	238822	02INO-11	3	345/138	202 ATSI	548	604	Base Case	0	195.6	-	35.69	0	0.00%
242954 052	242954 05APPLEC	243092	0.5SCANTO	1	138	205 AEP	205	205	Base Case	n	-73 2	-	35 69	0	-0.21%
242508 057	242508 055MOS	242538	050MOS 6 VET	- 6	765/138	205 AFP	990	1119	Base Case	0	353	_	35.66	0	0.22%
242900 057	242900 05AH05	242550	05AHOS_0_AFL	1	120	205 AEF	164	100	Base Case	0	-59 5	_	25.65	0	0.33%
242824 031	242824 051AMSM1	24/113	OGPIERSS	1	245/120	205 AEP	104	100	Base Case	0	-58.5	-	33.63	0	0.15%
253079 095	253079 09SUGRCK	253078	09SUGRCK	2	345/138	209 DAY	448	493	Base Case	0	159.7	-	35.64	0	0.00%
247435 051	247435 05MUSKNG_ESZ	247501	05MUSK_E_XFL	ZE	138	205 AEP	766	800	Base Case	0	-272.1	-	35.52	0	0.73%
250014 081	250014 08DNLSN1	250173	08WDSPNT	1	138	212 DEO&K	266	266	Base Case	0	-94.5	-	35.52	0	0.01%
238581 021	238581 02BRBRTN	239123	02STAR	1	138	202 ATSI	196	242	Base Case	0	-69.5	-	35.48	0	0.06%
247434 051	247434 05MUSKNG_DSZ	247500	05MUSK_D_XFL	ZD	138	205 AEP	766	800	Base Case	0	-271.7	-	35.47	0	0.73%
243499 051	243499 05DUBLIN	243566	05SAWMIL	1	138	205 AEP	184	184	Base Case	0	-65.3	-	35.46	0	-0.02%
243480 05E	243480 05BUCKEY	243511	05GAY	1	138	205 AEP	170	209	Base Case	0	60.3	-	35.46	0	-0.10%
239092 025	239092 02SAMMIS	239122	02STAR	1	345	202 ATSI	1435	1742	Base Case	0	508.6	-	35.45	0	-1.44%
238832 023	238832 02JACKMA	239149	02VULCAN	1	138	202 ATSI	216	264	Base Case	0	76.4	-	35.36	0	-0.18%
242528 058	242528 05SPORN	242807	05SPORN	В	345/138	205 AEP	501	564	Base Case	0	176.8	-	35.29	0	-0.12%
238731 021	238731 02FOX	238735	02FOXQ14	4	345/138	202 ATSI	248	288	Base Case	0	87.5	-	35.28	0	-0.21%
242932 050	242932 05CANTNC	242980	05CANTNC	3	345/138	205 AEP	524	605	Base Case	0	184.8	-	35.27	0	-0.11%
242966 05E	242966 05BROADA	243127	05TIDD 1-2	1	138	205 AEP	358	409	Base Case	0	-126	-	35.21	0	-0.17%
242516 05N	242516 05MOUNTN	242920	05BELMON	1	765	205 AEP	4047	4571	Base Case	0	1423.4	-	35.17	0	11.18%
243371 055	243371 055 STDE	243380	0.5STDBKR	1	1.38	205 AEP	251	335	Base Case	0	88.3	-	35.16	0	-0.29%
239043 025	239043 02PTNE	239160	02WADS	1	138	202 ATST	233	282	Base Case	0	-81 9	_	35 15	0	0.07%
246407 050	246407 05CABIN CRK2	246423	05CABNC9 XET	7.2	138	205 AEP	112	136	Base Case	0	39.7	-	25.13	0	0.01%
242566 055	242566 0580000F	240423	05CLAYPT	1	1 20	205 AFP	206	204	Base Case	0	103 0	_	25.1	0	-0.02%
210006 000	249996 08CT PMT1	250100	089MPGD1	1	120	212 DEOLK	200	300	Base Case	0	105 0		35.04	0	-0.02%
243330 080	243330 06CLAMIT	230100	OFFER CDV2	1	130	212 DEGR	302	302	Dase Case	0	103.9		35.00	0	-0.03%
243293 035	243293 USE 1SHER	246031	OF DOT MON		138	2U3 AEP	251	335	Dase Case	0	88	-	35.06	0	0.40%
243519 05F	243519 USHALLRD	24/896	05BOLTON	1	138	205 AEP	223	223	Base Case	0	-/8.1	-	35.03	0	0.07%
238580 02E	238580 02BRADY	238652	02DARROW	1	138	202 ATSI	200	242	Base Case	0	70	-	35.01	0	-0.06%
243319 053	243319 05JAY	247837	05PERCH	1	138	205 AEP	409	409	Base Case	0	-143.2	-	35.01	0	0.30%
238833 025	238833 02JACKSN	238942	02MAPLE	1	138	202 ATSI	278	339	Base Case	0	97.3	-	35	0	-0.37%
238598 020	238598 02CADQ18	238742	02FWLSQ4	1	138	202 ATSI	148	151	Base Case	0	-51.8	-	34.99	0	0.02%
253050 09N	253050 09MONUM2	253063	090VERL2	1	138	209 DAY	221	272	Base Case	0	-77.3	-	34.97	0	-0.05%
243220 05E	243220 05E.ELKHART	243287	05E.ELKHART	2	345/138	205 AEP	495	544	Base Case	0	173.1	-	34.97	0	-0.35%
238541 022	238541 02AS Q-1	238645	02CW TP1	1	138	202 ATSI	265	316	Base Case	0	-92.5	-	34.92	0	0.37%
238648 020	238648 02CY Q-2	238740	02FWLSQ2	1	138	202 ATSI	176	229	Base Case	0	61.4	-	34.9	0	0.40%
243092 055	243092 05SCANTO	243132	05TORREY1	1	138	205 AEP	366	416	Base Case	0	127.7	-	34.89	0	0.10%
242684 05J	242684 05J.FERR	242685	05J.FERX	ZB	138	205 AEP	358	421	Base Case	0	124.7	-	34.84	0	0.26%
242605 050	242605 05CLNCHR	324316	4VIRGINIA CI	1	138	205/363 AEP/LGEE	187	237	Base Case	0	65.1	-	34.83	0	-0.27%
238573 02E	238573 02BELEVU	239236	02TOLHOS	1	138	202 ATSI	216	264	Base Case	0	-75.2	-	34.8	0	-0.16%
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243469 05E	243469 05BEATTY	243593 05ZUBER	1	138	205	AEP	150	212 Base Case	0	52.2	-	34.8	0	0.12%
242956 05E	242956 05BALLHL	242977 05CALDWE	1	138	205	AEP	205	284 Base Case	0	-71.3	-	34.8	0	0.31%
250032 08F	250032 08FRFLD1	250070 08MRGAN1	1	138	212	DEO&K	194	194 Base Case	0	-67.3	-	34.68	0	0.20%
238642 020	238642 02CRSLND	239107 02SHNAGO	2	138	202	ATSI	215	215 Base Case	0	-74.6	-	34.68	0	-0.05%
249985 08E	249985 08BECKET	250105 08TDHNTR	1	138	212	DEO&K	299	299 Base Case	0	-103.4	-	34.6	0	-0.13%
242989 05E	242989 05E LIMA	245516 05ROCKHILL2	1	138	205	AEP	150	204 Base Case	0	51.9	-	34.58	0	-0.01%
239106 025	239106 02SHNAGO	239107 02SHNAGO	1	345/138	202	ATSI	548	688 Base Case	0	189.4	-	34.55	0	0.18%
243007 05F	243007 05FRAZEY	243079 05REFORM	1	138	205	AEP	287	337 Base Case	0	99.2	-	34.55	0	-0.23%
250020 08E	250020 08ESTWD1	250141 08SCEAST	1	138	212	DEO&K	301	301 Base Case	0	-103.9	-	34.53	0	-0.03%
243024 05H	243024 05HOWARD	243039 05MELMOR	1	138	205	AEP	136	167 Base Case	0	-46.9	-	34.49	0	0.20%
243287 05E	243287 05E.ELKHART	243290 05ELCONZ	1	138	205	AEP	251	251 Base Case	0	86.4	-	34.42	0	0.03%
239122 025	239122 02STAR	239123 02STAR	1	345/138	202	ATSI	458	552 Base Case	0	157.5	-	34.4	0	0.00%
239237 020	239237 02CLVR-S	242980 05CANTNC	1	138	202/205	ATSI/AEP	161	194 Base Case	0	-55.4	-	34.38	0	-0.37%
243097 055	243097 05SECANT	243120 05SUNNYSIDE1	1	138	205	AEP	296	392 Base Case	0	101.7	-	34.36	0	-0.06%
242814 055	242814 05ST.ALB	246382 OSTURNER_BP	1	138	205	AEP	271	361 Base Case	0	-93.1	-	34.34	0	-0.05%
243549 05N	243549 05MULBRY	243562 05ROSS	1	138	205	AEP	223	310 Base Case	0	76.5	-	34.32	0	0.13%
238695 028	238695 02ELW+	238706 02EU TAP	1	138	202	ATSI	160	192 Base Case	0	-54.9	-	34.3	0	0.00%
238753 020	238753 02GFQ-11	238792 02HDGQ11	1	138	202	ATSI	399	488 Base Case	0	-136.8	-	34.3	0	-0.01%
239106 025	239106 02SHNAGO	239107 02SHNAGO	2	345/138	202	ATSI	548	659 Base Case	0	187.8	-	34.27	0	0.18%
239093 025	239093 02SAMMIS	239372 02HAGAN	1	138	202	ATSI	185	189 Base Case	0	63.4	-	34.26	0	-0.16%
238956 021	238956 02MFLDQ1	239045 02PN Q-1	1	138	202	ATSI	115	115 Base Case	0	-39.4	-	34.22	0	-0.15%
238961 02N	238961 02MIDWAY	238962 02MIDWAY	3	345/138	202	ATSI	417	504 Base Case	0	142.7	-	34.22	0	0.00%
253079 095	253079 09SUGRCK	253078 09SUGRCK	1	345/138	209	DAY	450	498 Base Case	0	153.9	-	34.2	0	0.06%
242544 05A	242544 05AXTON	242816 05STOCKT	1	138	205	AEP	283	396 Base Case	0	96.7	-	34.19	0	0.09%
243317 051	243317 05IRELAN	243318 05JACKSON RD	1	138	205	AEP	219	251 Base Case	0	-74.9	-	34.18	0	0.18%
249980 08#	249980 08AGSTNE	250133 08WLDER2	1	138	212	DEO&K	291	291 Base Case	0	-99.5	-	34.18	0	-0.10%
242748 055	242748 05PENHOK	243951 05REDWOOD	1	138	205	AEP	296	392 Base Case	0	101.2	-	34.18	0	-0.16%
242858 050	242858 05WYTHE1	242859 05WYTHE2	Z1	138	205	AEP	285	337 Base Case	0	-97.3	-	34.13	0	0.25%
246927 055	246927 05SAND H	246945 05BIGR1Z	1	138	205	AEP	205	205 Base Case	0	-69.8	-	34.04	0	0.27%
250012 081	250012 08DERPK2	250114 08TP7481	1	138	212	DEO&K	266	266 Base Case	0	-90.5	-	34.03	0	0.00%
243070 050	243070 050HIOCT	243094 05SCOSHC	1	138	205	AEP	185	240 Base Case	0	62.9	-	34.01	0	0.56%
243498 051	243498 05DLAWAR2	253021 09DARBY	1	138	205/209	AEP/DAY	196	220 Base Case	0	66.7	-	34.01	0	-0.22%
249574 081	249574 08TDHNTR	249576 08WODSDL	1	345	212	DEO&K	1509	1509 Base Case	0	-513	-	33.99	0	0.38%
249574 081	249574 08TDHNTR	249576 08WODSDL	2	345	212	DEO&K	1509	1509 Base Case	0	-513	-	33.99	0	0.38%
239370 021	239370 02DOWLING	239371 02DOWLING	1	345/138	202	ATSI	386	436 Base Case	0	131.1	-	33.96	0	0.05%
242768 05F	242768 05RIDGWX	242769 05RIDGWY	SR	138	205	AEP	121	121 Base Case	0	-41.1	-	33.96	0	0.08%
243160 050	243160 05WTRNWY	246941 05MILL2Z	1	138	205	AEP	205	205 Base Case	0	69.6	-	33.95	0	-0.12%
242944 055	242944 05SECANT	243097 05SECANT	1	345/138	205	AEP	696	747 Base Case	0	236.1	-	33.93	0	-0.24%
242767 05F	242767 05RIDGWA	242768 05RIDGWX	SR	138	205	AEP	121	121 Base Case	0	-41	-	33.92	0	0.08%
238563 025	238563 02BAY SH	241901 02LALLENDORF	2	345	202	ATSI	1439	1774 Base Case	0	-487.8	-	33.9	0	1.68%
242985 050	242985 05CNTYLN	246927 05SAND H	1	138	205	AEP	219	255 Base Case	0	74.2	-	33.9	0	0.06%
239726 021	239726 02LAKEAVE	239728 02BLKRVR	1	138	202	ATSI	328	396 Base Case	0	111.1	-	33.87	0	0.25%
242524 050	242524 05CLOVRD	242607 05CLOVRD	1B	345/138	205	AEP	410	527 Base Case	0	138.8	-	33.86	0	-0.13%
238879 021	238879 02LB Q13	238935 02LYQ-13	1	138	202	ATSI	148	151 Base Case	0	50.1	-	33.86	0	-0.01%
243531 05P	243531 05KIMBRY	244198 O5LEMASTER	1	138	205	AEP	223	223 Base Case	0	-75.5	-	33.84	0	0.03%
242954 05A	242954 05APPLEC	242978 05CANALR	1	138	205	AEP	205	205 Base Case	0	69.3	-	33.83	0	-0.21%
243102 055	243102 05SINK SP8SS	245948 05MILLBR PK2	1	138	205	AEP	185	185 Base Case	0	-62.5	-	33.81	0	-0.44%
250053 081	250053 08LAFARG	250140 08DAYTON	1	138	212	DEO&K	298	298 Base Case	0	100.6	-	33.76	0	-0.03%
238578 02E	238578 02BORDMN	239107 02SHNAGO	1	138	202	ATSI	130	168 Base Case	0	-43.9	-	33.75	0	-0.11%
242571 05E	242571 05BUCKHO	242827 05TAZEWE	1	138	205	AEP	251	251 Base Case	0	-84.7	-	33.75	0	0.22%
242950 057	242950 05ACADEM	246941 05MILL2Z	1	138	205	AEP	205	205 Base Case	0	-69.2	-	33.73	0	-0.12%
243557 05F	243557 05RENO Z	247809 05LEVEE	1	138	205	AEP	282	282 Base Case	0	95.1	-	33.72	0	-0.34%
242732 051	242732 05NBRSTL	242851 05WOLFH2	1	138	205	AEP	251	330 Base Case	0	-84.6	-	33.71	0	-0.38%
242565 05E	242565 05BRADL2	242695 05KINCAI	1	138	205	AEP	205	255 Base Case	0	-69.1	-	33.7	0	0.08%
243459 05F	243459 05KIRK	243532 05KIRK	5	345/138	205	AEP	675	675 Base Case	0	227.5	-	33.7	0	0.13%
238547 027	238547 02AT	239082 02S8-ATT	1	345	202	ATSI	733	828 Base Case	0	246.8	-	33.67	0	-0.64%
238879 021	238879 02LB Q13	238950 02MBQ-13	1	138	202	ATSI	324	395 Base Case	0	-109	-	33.64	0	-0.01%
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242929 051	242929 05NPROCT	243064 05NPROCT	2	765/138	205	AEP	917	996 Base Case	0	308.2	-	33.61	0	0.16%
250055 081	250055 08LTERL7	250093 08REDBK2	1	138	212	DEO&K	264	264 Base Case	0	-88.7	-	33.6	0	-0.08%
238913 021	238913 02LRCR02	240352 02PM2011	1	138	202	ATSI	273	332 Base Case	0	91.7	-	33.58	0	-0.10%
243063 051	243063 05N.NEWARK1	243098 05SHARPR	1	138	205	AEP	158	183 Base Case	0	53	-	33.57	0	-0.08%
238634 020	238634 02COMERC	239306 02REPUBLICSM	1	138	202	ATSI	152	185 Base Case	0	51	-	33.57	0	-0.23%
239045 025	239045 02PN 0-1	239112 02LRCR01	1	138	202	ATSI	160	192 Base Case	0	-53.7	-	33.57	0	-0.15%
238782 021	238782 02HANNA	239101 02SHALER	1	138	202	ATSI	260	309 Base Case	0	87.1	-	33.51	0	-0.03%
243551 050	243551 050SU	246907 05W.CAMPUS	1	1.38	205	AEP	323	397 Base Case	0	-108.2	-	33.51	0	0.07%
243220 055	243220 05E ELKHABT	255105 17HTPLE	1	345	205/217	AEP/NIPS	1409	1409 Base Case	0	471 7	-	33 48	0	1 44%
242644 055	242644 0.5FBEM01	242645 05FBEM02	7.1	1.38	205	AEP	335	392 Base Case	0	112.1	-	33.46	0	-0.06%
242927 05N	242927 05MAROUT	242938 05MAROUT	1	765/345	205	AEP	2742	3097 Base Case	0	917 4	-	33 46	0	-0.93%
238772 020	238772 026T0-12	239222 02CHSTL	1	138	202	ATST	278	339 Base Case	0	91/1	_	33.45	0	0.00%
239008 020	239008 02NTLES	239120 02SSPRNG	2	138	202	ATSI	225	295 Base Case	0	75.2	_	33.42		0.00%
242937 054	242937 05KAMMER	243026 05KAMMER13	32	345/138	202	ALDI	747	747 Base Case	0	2/0 5	_	33.42		0.12%
242937 031	242337 03RAMMER	243020 03RAMMERIS	32	120	200	ALF	200	222 Dase Case	0	249.0	_	22.20		0.30%
220260 021	230260 02DTCULT	238939 02MARNGS	1	120	202/205	AIGI ATCT /AED	200	223 Base Case	0	74.4		22 27	0	0.02%
239209 021	239209 02RICHL5	242555 05E.LEIF51C2	1	245/120	202/203	AIGI/AEF	223	223 Base Case	0	101 1	_	33.37		0.00%
239289 UZF	239289 02HAIES	239290 02HATES	1	343/138	202	AISI	393	495 Base Case	0	131.1	-	33.36		-0.10%
242774 USF	242774 05R0AN02	246981 0350NSCA	1	130	203	AEP	107	245 Base Case	0	00.0	-	33.31		-0.09%
244183 031	244185 USLAFAI C SS	244489 03FOGWELL	1	130	203	AEP	201	335 Base Case	0	03.0	-	33.3		0.10%
243039 031	243039 03NFINDL	247172 USEBERSU	1	130	205	AEP	107	245 Base Case	0	-55.6	-	33.29		-0.34%
242949 050	242949 USWMILLP	243150 USWMILLP	1	345/138	205	AEP	495	558 Base Case	0	164./	-	33.28		-0.02%
243064 051	243064 05NPROCT	245664 USE.HUNTINGI	1	138	205	AEP	219	251 Base Case	0	/2.8	-	33.25	0	0.05%
238941 021	238941 02MANSFD	253902 ISBVRVAL	2	345	202/215	ATS1/DLCO	1486	1/39 Base Case	0	-493.8	-	33.23		-0.15%
238841 023	238841 02JNPRQ2	239002 02NFLDQ2	1	138	202	ATSI	273	332 Base Case	0	90.7	-	33.23	0	0.20%
239018 021	239018 02FULTON	238738 02FULTON	1	345/138	202	ATSI	346	392 Base Case	0	114.9	-	33.21	0	0.00%
243078 05F	243078 05REEDUR	246471 05MILES AVE	1	138	205	AEP	251	335 Base Case	0	83.3	-	33.18	0	0.13%
243034 05N	243034 05MARQUI	243140 05WAKEFL	1	138	205	AEP	219	223 Base Case	0	72.7	-	33.18	0	0.07%
242989 05E	242989 05E LIMA	246155 05FORD LIMA2	1	138	205	AEP	167	240 Base Case	0	55.4	-	33.17	0	-0.01%
250082 08E	250082 08P.UN1	250157 08CORNTP	1	138	212	DEO&K	198	198 Base Case	0	65.6	-	33.13	0	0.00%
242517 050	242517 05WYOMIN	242857 05WYOMX2	2	765/138	205	AEP	792	855 Base Case	0	262.3	-	33.12	0	-0.08%
242517 050	242517 05WYOMIN	242856 05WYOMX1	1	765/138	205	AEP	792	855 Base Case	0	262.3	-	33.12	0	-0.08%
243491 050	243491 05CORRID	243510 05GAHANN	1	138	205	AEP	335	392 Base Case	0	110.9	-	33.1	0	0.02%
243132 051	243132 05TORREY1	245697 05TORREY2	Z1	138	205	AEP	219	255 Base Case	0	72.4	-	33.05	0	0.07%
253090 090	253090 09WMILTN	253089 09WMILTN	1	345/138	209	DAY	450	495 Base Case	0	148.6	-	33.02	0	0.10%
253090 090	253090 09WMILTN	253089 09WMILTN	2	345/138	209	DAY	450	495 Base Case	0	148.6	-	33.02	0	0.10%
242937 05F	242937 05KAMMER	246108 05KAMMER24	33	345/138	205	AEP	747	747 Base Case	0	246.5	-	33	0	0.50%
238915 021	238915 02LRN Q2	238918 02SLTRQ2	1	138	202	ATSI	265	316 Base Case	0	87.3	-	32.93	0	0.40%
250082 081	250082 08P.UN1	250096 08SEWARD	1	138	212	DEO&K	291	291 Base Case	0	95.6	-	32.86	0	-0.07%
238782 02F	238782 02HANNA	239178 02WRAVNA	2	138	202	ATSI	324	395 Base Case	0	106.3	-	32.82	0	-0.09%
238952 021	238952 02MCD +	239008 02NILES	1	138	202	ATSI	196	228 Base Case	0	-64.3	-	32.79	0	-0.03%
243456 050	243456 05CORRID	246752 05VASSEL	1	345	205	AEP	1245	1245 Base Case	0	-407.1	-	32.7	0	0.21%
243315 051	243315 05ILLINO	243316 05INDUST PK1	1	138	205	AEP	251	335 Base Case	0	82.1	-	32.69	0	0.13%
242960 05E	242960 05BETHLM	242969 05BRUES2	1	138	205	AEP	329	361 Base Case	0	-107.5	-	32.67	0	0.06%
242956 05E	242956 05BALLHL	244095 05SUMMRFD_BP	1	138	205	AEP	205	284 Base Case	0	67	-	32.67	0	0.31%
238914 021	238914 02LRCRQ3	239039 02PGTP11	1	138	202	ATSI	148	151 Base Case	0	48.3	-	32.64	0	-0.15%
238878 021	238878 02LB Q12	240252 02LMQ-12	1	138	202	ATSI	148	151 Base Case	0	48.3	-	32.63	0	-0.01%
242949 050	242949 05WMILLP	243150 05WMILLP	2	345/138	205	AEP	500	540 Base Case	0	163.1	-	32.63	0	-0.02%
243105 055	243105 05SMILLB	243151 05WMILLS	1	138	205	AEP	185	243 Base Case	0	60.3	-	32.61	0	0.45%
249996 080	249996 08CLRMT1	249997 08CLRMT2	Z1	138	212	DEO&K	394	394 Base Case	0	-128.4	-	32.6	0	-0.03%
238581 02E	238581 02BRBRTN	239123 02STAR	2	138	202	ATSI	208	256 Base Case	0	-67.7	-	32.56	0	0.06%
238636 020	238636 02CPPW41	238660 02DIVISN	1	138	202	ATSI	170	193 Base Case	0	55.3	-	32.54	0	0.32%
243064 051	243064 05NPROCT	243675 05BELLF1	1	138	205	AEP	136	167 Base Case	0	44.2	-	32.54	0	-0.02%
238563 O2E	238563 02BAY SH	241901 02LALLENDORF	1	345	202	ATSI	1486	1824 Base Case	0	-483	-	32.5	0	1.67%
242528 055	242528 05SPORN	242940 05MUSKNG	1	345	205	AEP	1188	1539 Base Case	0	386.1	-	32.5	0	1.51%
244095 055	244095 05SUMMRFD_BP	247757 O5HERLAN SW	1	138	205	AEP	205	284 Base Case	0	66.6	-	32.49	0	0.31%

242843 050	242843 05WLAKE	243951 05REDWOOD	1	138	205 AEP	296	392 Base Case	0 -96.1 -	32.48	0	-0.16%
247130 05H	247130 05HOLLOW	247849 05HOLLOW XFL	1	345/138	205 AEP	680	881 Base Case	0 220.7 -	32.46	0	-0.08%
250029 085	250029 08FOSTER	250119 08TWYMT1	1	138	212 DE0&K	2.98	298 Base Case	0 96.7 -	32.45	0	-0.14%
243068 05N	243068 05NZANEV	243075 05 POWELS	1	138	205 AEP	205	284 Base Case	0 -66 5 -	32 42	0	0.08%
242528 059	242528 05SPORN	242808 05SPORNS	4	345/138	205 AEP	545	611 Base Case	0 176 3 -	32.36	0	-0.12%
243856 051	243856 05 TUC ST 1-6	246385 05 HIGST 7-11	71	138	205 AFP	548	601 Base Case	0 177.3 -	32.35	0	0.12%
243030 030	243836 0300G 31 1-0	240385 0500651 7-11	1	120	203 AEF	200	242 Dase Case	0 177.5 -	32.33	0	0.0470
239237 020	239237 02CLVR-S	239341 UZLEGEND	1	138	202 ATS1	200	242 Base Case	0 -64.6 -	32.3	0	-0.41%
243774 050	243774 050RMET	246108 USKAMMER24	1	138	205 AEP	296	398 Base Case	0 95.5 -	32.28	0	-0.06%
243774 050	243774 050RMET	246108 USKAMMER24	4	138	205 AEP	296	296 Base Case	0 95.5 -	32.28	0	-0.06%
243774 050	243774 050RMET	246108 05KAMMER24	3	138	205 AEP	296	296 Base Case	0 95.5 -	32.28	0	-0.06%
243774 050	243774 050RMET	246108 05KAMMER24	2	138	205 AEP	296	398 Base Case	0 95.5 -	32.28	0	-0.06%
238934 021	238934 02LYQ-12	240252 02LMQ-12	1	138	202 ATSI	103	132 Base Case	0 -33.2 -	32.25	0	-0.01%
239726 021	239726 02LAKEAVE	239728 02BLKRVR	2	138	202 ATSI	312	380 Base Case	0 100.6 -	32.24	0	0.23%
238796 02H	238796 02HGHLND	238797 02HGHLND	3	345/138	202 ATSI	532	597 Base Case	0 171.5 -	32.23	0	-0.05%
238794 02H	238794 02HDGQ13	238923 02LTEQ13	1	138	202 ATSI	425	522 Base Case	0 136.9 -	32.21	0	-0.02%
242564 05E	242564 05BRADL1	247333 05PAX BRANCH	1	138	205 AEP	205	284 Base Case	0 -66 -	32.2	0	0.11%
238797 02H	238797 02HGHLND	239120 02SSPRNG	1	138	202 ATSI	277	337 Base Case	0 89.1 -	32.17	0	0.14%
242762 05F	242762 05REEDCR	242798 05SHORT	1	138	205 AEP	205	205 Base Case	0 65.9 -	32.15	0	0.10%
243031 051	243031 05LYNN Z	243103 05SKENTO	1	138	205 AEP	164	180 Base Case	0 52.7 -	32.15	0	0.26%
250027 08F	250027 08FLRNC1	250028 08FLRNC2	Z1	138	212 DEO&K	406	454 Base Case	0 -130.2 -	32.07	0	0.01%
242544 05Z	242544 05AXTON	242711 05MARTN1	1	138	205 AEP	283	396 Base Case	0 90.7 -	32.06	0	0.10%
243669 05E	243669 05B SAND	243678 05BSANDX	SR	138	205 AEP	335	370 Base Case	0 107.4 -	32.05	0	-0.17%
239122 025	239122 02STAR	239353 02HARMON	1	345	202 ATSI	1366	1693 Base Case	0 -437.6 -	32.03	0	0.10%
243469 055	243469 05BEATTY	243588 05WTLSON	1	138	205 AEP	223	223 Base Case	0 71.3 -	31.99	0	0.07%
243522 056	243522 05HARRISON	243550 050BETZ	1	138	205 AEP	164	180 Base Case	0 52 5 -	31 99	0	0.05%
239008 021	239008 02NTLES	239299 02881 745	1	138	202 ATST	117	147 Base Case	0 37.4 -	31 99	0	-0 19%
253077 099	253077 09STILLES	253210 AC1-085 POT	1	345	202 A131	1255	1374 Base Case	0 401 3 -	31.97	0	-0.01%
230107 035	230107 028UNACO	230310 ACT 003 101	1	120	202 3001	176	220 Bage Case	0 56.2 -	21.05	0	0.01%
239107 023	239107 025HNAGO	239934 02REASLET	1	120	202 AISI	1.00	102 Dase Case	0 51.1	31.95	0	0.10%
238374 UZE	238374 02BELP1+	238964 UZMLCRR+	1	130	202 AISI	1400	192 Base Case	0 51.1 -	31.94	0	-0.12%
238941 021	238941 02MANSFD	253902 15BVRVAL	1	345	202/215 ATS1/DLCO	1486	1/39 Base Case	0 -4/4.4 -	31.92	0	-0.15%
242665 USF	242665 05HANSON	242/14 USMEADWV	1	138	205 AEP	167	240 Base Case	0 53.3 -	31.92	0	0.13%
239986 021	239986 02NEWSTACY	246327 05NOTTINGH78	1	138	202/205 ATSI/AEP	200	242 Base Case	0 -63.7 -	31.87	0	0.20%
238944 021	238944 02MASURY	238948 02MAYSVL	1	138	202 ATSI	124	124 Base Case	0 39.5 -	31.86	0	0.03%
243019 05H	243019 05HILLSB	243102 05SINK SP8SS	1	138	205 AEP	185	185 Base Case	0 -58.9 -	31.83	0	-0.44%
243454 05E	243454 05BIXBY	246888 05BIERSR	1	345	205 AEP	1370	1503 Base Case	0 -435.7 -	31.8	0	0.52%
246606 050	246606 O5WETZEL SS	247002 05WAYMSS	1	138	205 AEP	219	255 Base Case	0 -69.6 -	31.78	0	0.00%
238850 023	238850 02JUNIPE	238841 02JNPRQ2	2	345/138	202 ATSI	548	661 Base Case	0 174.1 -	31.77	0	-0.05%
242697 05F	242697 05KUMIS	242708 05M FUNK	1	138	205 AEP	223	223 Base Case	0 -70.8 -	31.74	0	-0.21%
239103 025	239103 02SHARON	239934 O2HEASLEY	1	138	202 ATSI	176	229 Base Case	0 -55.8 -	31.71	0	0.00%
243232 055	243232 05SORENS	243377 05SORENS	1	345/138	205 AEP	711	807 Base Case	0 225.3 -	31.69	0	-0.10%
243518 050	243518 05GROVES	246761 05THREEC	1	138	205 AEP	287	337 Base Case	0 -90.9 -	31.67	0	-0.03%
242566 05E	242566 05BROADF	242567 05BROADX	ZB	138	205 AEP	348	407 Base Case	0 110.2 -	31.67	0	0.37%
249988 08E	249988 08BKJ135	250133 08WLDER2	1	138	212 DE0&K	186	186 Base Case	0 58.9 -	31.64	0	-0.03%
242788 055	242788 05SALTV1	246766 05ELKGAZ	1	138	205 AEP	446	446 Base Case	0 -141 -	31.63	0	0.51%
238849 023	238849 02JRDQ14	239324 02CH	1	138	202 ATSI	265	316 Base Case	0 -83.7 -	31.59	0	0.17%
238543 027	238543 02ASH 2	239097 02SBRNQ3	1	138	202 ATSI	148	151 Base Case	0 46.7 -	31.54	0	-0.10%
242537 05A	242537 05AMOS	246382 OSTURNER BP	1	138	205 AEP	296	398 Base Case	0 93.3 -	31.53	0	-0.05%
243228 05N	243228 05MERIDN	243234 05TWIN B	1	345	205 AEP	897	897 Base Case	0 -282.8 -	31.53	0	1.79%
240069 021	240069 02LORDSTOWN	241936 AA1-123 POT	1	345	202 ATSI	1413	1743 Base Case	0 -445.3 -	31.51	0	-0.27%
238654 021	238654 02DAV-BE	239289 02HAYES	1	345	202 ATST	1.542	1878 Base Case	0 485.9 -	31.51	0	3.21%
235379 011	235379 01NVTENA	243564 05RTVERV N	1	138	201/205 AP/ARP	240	277 Base Case	0 75.6 -	21 5	0	-0 19%
238968 021	238968 02MOORE	239083 0292KRON	1	138	202 ATST	210	282 Base Case	0 70.8 -	31.7	0	0.15%
245407 05	245407 05TANNER CV2	246963 05WEST SS	1	120	205 750	223	255 Base Case	0 67 -	31 /5	0	-0.03%
242047 051	242047 05N DODT	242097 050 1102	1	120	205 AEF	105	195 Page Case	0 -59 1	21 40	0	0.03%
24304/ 031	24304/ UJN PUKI 243026 0523840ED12	245108 0523MMED24	71	120	205 AEP	C01 7/7	TAT Base Case	0 _224 5 .	21 20	0	_0.07%
243020 038	243020 UJKAMMER13	240100 UJKAMMER24	41	100	20J AEP	747	747 Dase Case	0 -234.5 -	31.39	U	-0.03%
∠43026 U5P	243UZ6 USKAMMER13	∠46108 USKAMMER24	ZΚ	138	ZUS AEP	/4/	/4/ Base Case	U -234.5 -	31.39	0	-0.05%

243485 050	243485 05CLINTO	243529 05KENNY	1	138	205 AEP	217	310 Base Case	0 -68.1 -	31.38	0	0.19%
250003 080	250003 08CRLISL	250121 08UNION	1	138	212 DEO&K	291	298 Base Case	0 -91.3 -	31.38	0	0.00%
244658 050	244658 05GRNTWN	249796 08MAPLE	1	138	205/208 AEP/DEI	178	178 Base Case	0 55.8 -	31.34	0	-0.15%
238893 021	238893 02LF 0-2	239002 02NFLD02	1	138	202 ATST	176	229 Base Case	0 -55.1 -	31.32	0	0.19%
239008 021	239008 02NILES	239120 02SSPRNG	1	138	202 ATSI	240	310 Base Case	0 75.1 -	31.28	0	0.12%
243484 050	243484 05CTTYCO	243584 05VINE	1	138	205 AEP	251	274 Base Case	0 -78.4 -	31.25	0	0.00%
246889 055	246889 05BTERSB	246890 05HOPETN	1	138	205 AEP	389	559 Base Case	0 121.5 -	31.23	0	0.04%
243263 050	243263 05COLUMBIA	243361 05BABEB	1	138	205 AEP	1.36	167 Base Case	0 -42.5 -	31.22	0	-0.28%
242622 050	242622 05DARBH2	242866 05MEBBIT	1	138	205 AEP	167	167 Base Case	0 52 1 -	31 21	0	0.11%
239334 021	239334 021. CENTER	239112 02LBCB01	1	345/138	202 ATST	688	849 Base Case	0 214 7 -	31 21	0	-0.07%
243282 050	243282 05DBEWEB	243382 05TANNEB CK1	1	138	205 AEP	213	280 Base Case	0 -66 4 -	31 18	0	-0.03%
238532 022	238532 02ALLN.TB	240978 02AJT-MOD	- 71.	138	202 ATST	160	192 Base Case	0 49 9 -	31.16	0	0.29%
253012 090	253012 09CENTER	253112 09TAP822	1	138	209 DAY	301	374 Base Case	0 -93.8 -	31 16	0	0.04%
253078 095	253078 09SUGBCK	253112 09TAP822	1	138	209 DAY	301	374 Base Case	0 93.8 -	31.16	0	0.04%
250043 085	250043 08HANDS2	250148 08EKPWEB	1	138	212 DE0.6K	301	301 Base Case	0 -93.5 -	31.08	0	0.15%
242663 051	242663 05HANCK1	242764 05BES	1	138	205 AEP	219	231 Base Case	0 68 -	31.07	0	0.00%
244930 05N	244930 05NEW CARLT1	242704 05R05	1	138	205 AEP	187	240 Base Case	0 58 1 -	31.06	0	-0.60%
243092 059	243092 05SCANTO	243776 05S.TIMK	1	138	205 AEP	287	337 Base Case	0 89 -	31 01	0	0.12%
243211 057	243211 05ALLEN	243242 05ALLEN	2	345/138	205 AEP	712	764 Base Case	0 220.7 -	31	0	0.17%
238631 020	238631 02CNTRAL	238952 02MCD +	1	138	202 ATSI	200	242 Base Case	0 -62 -	30.98	0	-0.03%
243313 05H	243313 05HUNT J	249759 08HNTNGT	1	138	205/208 AEP/DET	178	178 Base Case	0 55.1 -	30.96	0	-0.28%
242939 05N	242939 05MARYSV	243458 05HYATT	1	345	205 AEP	1166	1335 Base Case	0 360.8 -	30.94	0	1.55%
246888 05F	246888 05BTERSB	246889 05BTERSB	1	345/138	205 AEP	887	996 Base Case	0 274.4 -	30.93	0	0.03%
242523 05E	242523 05BAKER	247226 05FOOTHL	1	345	205 AEP	896	896 Base Case	0 -277 -	30.91	0	-0.17%
243019 056	243019 05HTLLSB	246946 0.5WLDCAT	1	138	205 AEP	185	185 Base Case	0 -57.2 -	30.91	0	0.17%
243064 05N	243064 05NPBOCT	247277 05WNDSBZ	1	138	205 AEP	167	167 Base Case	0 51.6 -	30.9	0	0.03%
242645 058	242645 05FREM02	243671 05BEAVER CR1	1	138	205 AEP	223	310 Base Case	0 68.9 -	30.89	0	-0.09%
243280 051	243280 05DRAGN	243281 05DRAGNZ	1	138	205 AEP	164	180 Base Case	0 -50.5 -	30.82	0	0.00%
243457 05H	243457 05HAYDEN	243458 05HYATT	1	345	205 AEP	1239	1429 Base Case	0 -381.6 -	30.8	0	-0.11%
253014 090	253014 09CLINTO	253027 09GREENE	1	345	209 DAY	1255	1374 Base Case	0 386.4 -	30.79	0	-0.17%
243143 050	243143 05WBELLA	246108 05KAMMER24	1	138	205 AEP	296	398 Base Case	0 -91.1 -	30.77	0	0.35%
238731 02F	238731 02FOX	238733 02F0X012	5	345/138	202 ATSI	397	488 Base Case	0 122.1 -	30.77	0	-0.29%
243232 055	243232 05SORENS	243377 05SORENS	2	345/138	205 AEP	713	765 Base Case	0 219.4 -	30.76	0	-0.09%
239093 025	239093 02SAMMIS	240218 02GUILFORD	1	138	202 ATSI	217	274 Base Case	0 66.7 -	30.74	0	-0.10%
253069 095	253069 09SHELBY	253068 09SHELBY	1	345/138	209 DAY	448	493 Base Case	0 137.2 -	30.62	0	0.03%
253069 095	253069 09SHELBY	253068 09SHELBY	2	345/138	209 DAY	448	493 Base Case	0 137.2 -	30.62	0	0.03%
239092 025	239092 02SAMMIS	241936 AA1-123 POI	1	345	202 ATSI	1413	1743 Base Case	0 -432.2 -	30.58	0	-0.28%
242524 050	242524 05CLOVRD	242607 05CLOVRD	3	345/138	205 AEP	696	747 Base Case	0 212.7 -	30.55	0	-0.20%
239134 021	239134 02TANGY	239218 02SSCIOT	1	138	202 ATSI	278	339 Base Case	0 84.9 -	30.55	0	0.06%
249989 08E	249989 08BKJ246	250158 088MIRDJ	1	138	212 DE0&K	309	332 Base Case	0 94.3 -	30.53	0	-0.05%
247527 050	247527 05COVERT	247803 05SEGRETO	1	345	205 AEP	1820	2457 Base Case	0 555.1 -	30.5	0	-1.62%
241901 021	241901 02LALLENDORF	242936 05FOSTOR	1	345	202/205 ATSI/AEP	1409	1409 Base Case	0 428.9 -	30.44	0	-0.40%
238644 020	238644 02CW Q-3	238672 02DW Q-3	1	138	202 ATSI	273	332 Base Case	0 82.9 -	30.36	0	0.27%
243087 055	243087 05S LUCA	243140 05WAKEFL	1	138	205 AEP	219	223 Base Case	0 -66.5 -	30.36	0	0.07%
242989 05E	242989 05E LIMA	243083 05CAMPSS	1	138	205 AEP	219	223 Base Case	0 66.5 -	30.35	0	-0.07%
243127 051	243127 05TIDD 1-2	243780 05FGDCDL	ZL	138	205 AEP	180	227 Base Case	0 54.5 -	30.3	0	0.00%
243278 051	243278 05DESOTO	243373 05SELMAP	1	138	205 AEP	167	167 Base Case	0 50.6 -	30.28	0	0.33%
242514 053	242514 05J.FERR	242684 05J.FERR	2	765/138	205 AEP	696	696 Base Case	0 210.8 -	30.28	0	0.06%
250139 08F	250139 08ROCKIE	250162 08GARVER	1	138	212 DE0&K	516	582 Base Case	0 -156.1 -	30.25	0	0.07%
250024 08F	250024 08FINTWN	250117 08TRMNL1	1	138	212 DE0&K	266	266 Base Case	0 -80.4 -	30.23	0	-0.04%
241927 027	241927 02AVQ1	241928 02AVQ2	1	138	202 ATSI	999	999 Base Case	0 -301.7 -	30.2	0	1.00%
245797 050	245797 05W.CANTON2	246471 05MILES AVE	1	138	205 AEP	251	335 Base Case	0 -75.7 -	30.17	0	0.13%
243675 05E	243675 05BELLF1	243676 05BELLF2	Z1	138	205 AEP	285	368 Base Case	0 -85.9 -	30.13	0	-0.10%
243211 05Z	243211 05ALLEN	243242 05ALLEN	1	345/138	205 AEP	504	572 Base Case	0 151.7 -	30.11	0	0.12%
243500 051	243500 05DUCKCR	247809 05LEVEE	1	138	205 AEP	282	282 Base Case	0 -84.7 -	30.04	0	-0.34%
238957 021	238957 02MFLDQ2	239046 02PN Q-2	1	138	202 ATSI	103	115 Base Case	0 -30.9 -	30.02	0	-0.15%

239133 021	239133	02TANGY	239134	02TANGY	4	345/138	202 ATSI	383	473 Base Case	0 114.8	-	29.99	0	0.01%
243262 050	243262	05COLLEGE C	250106	08TODHJT	1	138	205/212 AEP/DEO&K	185	257 Base Case	0 55.5	-	29.98	0	0.40%
243522 055	243522	0.5HARRISON	247233	05HARTS8	1	138	205 AEP	164	180 Base Case	0 49.2	-	29.97	0	0.00%
238684 025	238684	02EASTLK	238685	02EASTLK	62	345/138	202 ATST	784	900 Base Case	0 235	-	29.97	0	-0.17%
239133 021	230133	02TANGY	239134	02TANCY	3	345/138	202 ATST	383	474 Base Case	0 114 5	_	29.97	0	0.17%
242997 051	2/2007	05E NEWCONCZ	243144	0.5WCAMPP	1	138	205 AFP	296	378 Base Case	0 88.2	_	29.81	0	0.01%
242337 035	242337	03CE0 11	243144	03WCAMBR	1	130	203 AEF	2.50	570 Base Case	0 106.2	_	29.01	0	0.24%
238753 020	238753	UZGFQ-II	238921	02LTEQII	1	138	202 ATSI	425	522 Base Case	0 126.7	-	29.81		-0.01%
243012 050	243012	USG WASHGTON	243049	05NATRIUMIZ	1	138	ZUS AEP	187	205 Base Case	0 55.7	-	29.79		-0.22%
242600 050	242600	USCLAYPL	242766	USRICHLA	1	138	205 AEP	296	366 Base Case	0 88.2	-	29.78		-0.02%
238546 027	238546	02ASQ-11	241927	02AVQ1	1	138	202 ATSI	265	316 Base Case	0 -78.9	-	29.78	0	0.28%
243479 05E	243479	05brooks	243566	05SAWMIL	1	138	205 AEP	389	559 Base Case	0 -115.7	-	29.75	0	0.00%
243456 050	243456	05CORRID	246752	05VASSEL	2	345	205 AEP	1370	1503 Base Case	0 -407.1	-	29.72	0	0.21%
242712 05N	242712	05MARTN2	242816	05STOCKT	1	138	205 AEP	283	366 Base Case	0 -84.1	-	29.71	0	0.09%
243212 05E	243212	05BENTON	247803	05SEGRETO	1	345	205 AEP	1409	1868 Base Case	0 -418.3	-	29.69	0	-2.97%
242832 051	242832	05TOLER	242855	05WYOMIN	1	138	205 AEP	329	361 Base Case	0 -97.4	-	29.6	0	-0.15%
246409 050	246409	05CABIN C T8	246421	05CABNC8_XFL	Z1	138	205 AEP	113	136 Base Case	0 33.4	-	29.6	0	0.01%
238646 020	238646	02CW TP3	240365	02LRN Q3	1	138	202 ATSI	273	332 Base Case	0 80.8	-	29.59	0	0.38%
242960 05E	242960	05BETHLM	242985	05CNTYLN	1	138	205 AEP	329	361 Base Case	0 97.3	-	29.58	0	0.06%
245539 05H	245539	05HOLLOWAY56	247849	05HOLLOW XFL	1	138	205 AEP	747	747 Base Case	0 -220.6	-	29.53	0	-0.08%
242650 050	242650	05GLENL1	242760	05PROGPK	1	138	205 AEP	285	337 Base Case	0 -84.1	-	29.51	0	0.24%
243481 050	243481	05CANAL	243539	05MARION	1	138	205 AEP	124	167 Base Case	0 -36.6	-	29.51	0	-0.08%
238654 020	238654	02DAV-BE	907200	AD1-103 TAP	1	345	202 ATST	1435	1742 Base Case	0 422 7	-	29.46	0	3 29%
243283 050	243283	05DUNLAP	243290	05ELCONZ	1	138	205 AEP	243	243 Base Case	0 -71 5	_	29.42	0	0.03%
238840 021	238840	0.2 INPRO1	239001	02NELDO1	1	138	202 ATST	243	332 Base Case	0 80.2	_	29.37	0	0.03%
252040 020	252040	020NIINQ1	252062	02NFHDQ1	1	120	202 A131	275	274 Page Case	0 -00.2	_	20.37	0	-0.05%
233049 09P	233049	0 SMONOMI	233002	OFMILLOD	1	130	205 DAI	240	202 Dase Case	0 -38.4	_	29.37	0	0.03%
243500 051	243500	05DUCKCR	243543	OSMILLCR	1	138	205 AEP	240	282 Base Case	0 /0.4	-	29.34		-0.34%
243311 054	243311	USARN HOGAN	24/420	USCRUSS ST Z	1	138	ZUS AEP	205	278 Base Case	0 -60.1	-	29.34		0.07%
239083 028	239083	UZSAKRON	239198	UZCONGRS	1	138	202 ATS1	200	242 Base Case	0 -58./	-	29.33		-0.16%
243224 051	243224	05KENZIE	243234	O5TWIN B	1	345	205 AEP	1409	1409 Base Case	0 413.3	-	29.33	0	-1.00%
239025 021	239025	02NY Q11	240352	02PM2Q11	1	138	202 ATSI	273	332 Base Case	0 -80	-	29.32	0	-0.10%
249985 08E	249985	08BECKET	250082	08P.UN1	1	138	212 DEO&K	302	302 Base Case	0 88.5	-	29.32	0	-0.13%
238608 020	238608	02CARLIL	239314	02NATBRNZ	1	138	202 ATSI	233	282 Base Case	0 68.3	-	29.31	0	0.34%
253017 090	253017	09CROWN	253057	090нн	1	138	209 DAY	191	234 Base Case	0 -56	-	29.31	0	0.06%
238941 021	238941	02MANSFD	253936	15CRESCN	1	345	202/215 ATSI/DLCO	1244	1411 Base Case	0 364.5	-	29.3	0	0.19%
238861 021	238861	02KIRBY	239218	02SSCIOT	1	138	202 ATSI	278	339 Base Case	0 -81.4	-	29.3	0	0.06%
238569 02E	238569	02BEAVER	907200	AD1-103 TAP	1	345	202 ATSI	1435	1742 Base Case	0 -420.4	-	29.29	0	3.29%
242962 05E	242962	05BLDBGZ	243070	050HIOCT	1	138	205 AEP	205	255 Base Case	0 -60	-	29.26	0	-0.05%
243233 051	243233	05TANNER	245409	05TAN CK 5SZ	5	345/138	205 AEP	570	579 Base Case	0 166.7	-	29.24	0	-0.53%
243382 051	243382	05TANNER CK1	245409	05TAN CK 5SZ	ZK	138	205 AEP	285	368 Base Case	0 -83.3	-	29.23	0	-0.27%
245407 051	245407	05TANNER CK2	245409	05TAN CK 5SZ	ZJ	138	205 AEP	285	368 Base Case	0 -83.3	-	29.23	0	-0.27%
243472 05E	243472	05BEXLEY	243518	05GROVES	1	138	205 AEP	335	392 Base Case	0 -97.8	-	29.19	0	-0.11%
238731 02F	238731	02FOX	238734	02FOXQ13	3	345/138	202 ATSI	423	478 Base Case	0 123.4	-	29.17	0	-0.29%
242508 052	242508	05AMOS	247504	05AMOS 5 XFL	5	765/345	205 AEP	1587	1752 Base Case	0 462.7	-	29.16	0	0.92%
239122 025	239122	02STAR	239123	02STAR	2	345/138	202 ATST	559	660 Base Case	0 162.9	-	29.14	0	0.00%
243080 055	243080	05BILEYC	243083	05CAMPSS	1	138	205 AEP	223	223 Base Case	0 -64 9	-	29.11	0	-0.07%
239368 027	230368	02TORONTO	239369	02TORONTO	2	345/138	202 7001	61.8	731 Base Case	0 179.8	_	29.11	0	-0.16%
239730 021	2323300	02FULTON	200000	0.2 GWANDM	1	120	202 7001	200	346 Baco Coor	0 1/9.0	_	20.05		0.10%
238738 028	230730	OFFRIN	239120	023WANIN	1	100	202 AISI	200	Oct Dase Case	0 83.7	_	29.00	0	0.13%
242331 USE	242001	O DELVA	242380	05DUDATD	1	138	205 AEP	282	220 Page Case	U -81.9		29.00	0	0.42%
242342 USA	242342	UJAININS	242780	O DRUKALK		138	203 AEP	251	SOU BASE Case	0 72.9		29.05		0.3/%
239042 02E	239042	UZPIDGON	240218	UZGUILFORD	1	138	2U2 ATSI	217	2/4 Base Case	0 -63	-	29.04		-0.10%
250029 081	250029	USFOSTER	250150	USENYART	1	138	212 DEO&K	298	298 Base Case	0 86.5	-	29.04	0	-0.07%
238916 021	238916	U2LRN Q4	239314	U2NATBRNZ	1	138	202 ATSI	225	295 Base Case	0 -65.3	-	29.03	0	0.34%
242674 05F	242674	05HUFFCK	242832	05TOLER	1	138	205 AEP	329	361 Base Case	0 -95.5	-	29.03	0	-0.15%
242508 057	242508	05AMOS	242513	05CULLOD	1	765	205 AEP	2312	2312 Base Case	0 671	-	29.02	0	-0.27%
238842 023	238842	02JNPRQ3	239003	02NFLDQ3	1	138	202 ATSI	273	332 Base Case	0 79.1	-	28.98	0	0.18%
249570 08E	249570	08P.UNON	249577	08ZIMER	1	345	212 DE0&K	1492	1492 Base Case	0 -432.1	-	28.96	0	-0.42%

243508 051	243508 05ITALNV	243584 05VINE	1	138	205 AEP	261	376 Base Case	0 75.6 -	28.96	0	-0.14%
238843 023	238843 02JNPRQ4	239004 02NFLDQ4	1	138	202 ATSI	273	332 Base Case	0 78.9 -	28.92	0	0.18%
243271 050	243271 05CBYSTA	243308 05HTCKBY CK1	1	138	205 AEP	187	240 Base Case	0 54 -	28.9	0	-0.29%
244930 05N	244930 05NEW CARLT1	255152 17MAPLE	1	138	205/217 AEP/NTPS	136	138 Base Case	0 39.3 -	28.9	0	-0.38%
246187 050	246187 05WARTON H2	247468 05CBICKET SS	1	138	205 AEP	257	341 Base Case	0 -74 2 -	28.88	0	0.00%
239368 021	239368 02TOBONTO	239369 02TOBONTO	1	345/138	202 ATST	618	730 Base Case	0 178 5 -	28.88	0	-0.16%
249986 085	249986 08BELVUE	250140 08DAYTON	1	138	212 DEO&K	298	298 Base Case	0 -86 -	28.86	0	-0.03%
243215 050	243215 05COOK	243223 05.13CKSON RD	1	345	205 AEP	971	971 Base Case	0 280 -	28.83	0	-0.25%
239070 025	239070 028TCHID	239165 02WAUSEO	1	138	202 7151	158	190 Base Case	0 45 5 -	28.79	0	0.23%
220224 021	220224 021 CENTER	239103 02WR03E0	2	245/120	202 ATOT	747	210 Dase Case	0 214 7 -	20.75	0	-0.07%
259554 021	259554 021.CENTER	259057 02LKCKQ4	1	120	202 AISI 212 DEOCK	201	201 Page Case	0 _96 5 _	20.74	0	-0.07%
246225 050	230122 06WARRN1	230138 USNICKEL	1	120	212 DEUGR	301	301 Base Case	0 -80.5 -	20.73	0	0.18%
246325 031	246325 05NOTTINGH56	247131 05H0LLOWAT12	3	130	205 AEP	200	242 Base Case	0 -57.4 -	20.72	0	0.03%
246325 051	246325 05NOTTINGH56	247131 USHOLLOWAY12	4	138	205 AEP	200	242 Base Case	0 -57.4 -	28.71	0	0.03%
242537 USP	242537 USAMOS	242616 USCURRI	1	138	205 AEP	167	167 Base Case	0 47.9 -	28.69	0	-0.09%
242516 050	242516 USMOUNTN	247183 USMOUNTN	2	/65/345	205 AEP	2/42	3097 Base Case	0 /86.2 -	28.67	0	-1.53%
243528 054	243528 USKARL ROAD	243547 USMORSE	2	138	205 AEP	240	2// Base Case	0 -68.8 -	28.67	0	-0.10%
24350/ 05E	24350/U5F1FTH	243588 USWILSON	1	138	205 AEP	219	223 Base Case	0 -62.8 -	28.66	0	0.09%
253046 09N	253046 09MIAMI	253074 09STATAP	1	138	209 DAY	306	380 Base Case	0 87.7 -	28.64	0	-0.01%
238969 021	238969 U2MRGP +	238970 02MRST +	1	138	202 ATSI	200	242 Base Case	0 57.3 -	28.63	0	0.00%
242542 057	242542 USATKINS	242803 05SMYTH	1	138	205 AEP	292	330 Base Case	0 -83.6 -	28.62	0	0.37%
238890 021	238890 02LEMOYN	238936 02MACLEA	1	138	202 ATSI	329	413 Base Case	0 94.1 -	28.61	0	-0.06%
242727 05N	242727 05MULLEN	247113 05PIERSS	1	138	205 AEP	205	255 Base Case	0 58.6 -	28.6	0	0.13%
243669 05E	243669 05B SAND	243694 05INEZ	1	138	205 AEP	670	741 Base Case	0 191.5 -	28.59	0	-0.06%
242514 053	242514 05J.FERR	242684 05J.FERR	3	765/138	205 AEP	696	696 Base Case	0 198.8 -	28.56	0	0.05%
238836 023	238836 02JGSQ13	238923 02LTEQ13	1	138	202 ATSI	425	522 Base Case	0 -121.2 -	28.51	0	-0.02%
253007 09E	253007 09BELLBR	253107 09ALPHA	1	138	209 DAY	301	374 Base Case	0 85.7 -	28.47	0	0.12%
242989 05E	242989 05E LIMA	247513 05BOUTWELL	1	138	205 AEP	150	212 Base Case	0 42.7 -	28.45	0	0.27%
243046 051	243046 05N CROW	247277 05WNDSRZ	1	138	205 AEP	167	245 Base Case	0 -47.5 -	28.44	0	0.03%
250004 080	250004 08CRNEL1	250157 08CORNTP	1	138	212 DEO&K	266	266 Base Case	0 -75.6 -	28.41	0	0.00%
243578 055	243578 05STRODZ	244198 O5LEMASTER	1	138	205 AEP	223	223 Base Case	0 -63.4 -	28.41	0	0.24%
243497 051	243497 05DELANO	246890 05HOPETN	1	138	205 AEP	383	448 Base Case	0 -108.8 -	28.4	0	0.04%
242652 050	242652 05GOMING	242688 05JOSHUA	1	138	205 AEP	388	484 Base Case	0 -110.2 -	28.39	0	0.18%
243333 051	243333 05MADISON1	245946 05MADISON2	Z1	138	205 AEP	187	240 Base Case	0 -53.1 -	28.39	0	-0.19%
243540 051	243540 05MCCOMB	243854 05REAVER	1	138	205 AEP	223	267 Base Case	0 63.3 -	28.38	0	0.11%
242946 051	242946 05TIDD	242914 05TIDD_C_XFL	С	345/138	205 AEP	503	547 Base Case	0 142.7 -	28.37	0	-0.05%
238731 028	238731 02FOX	238732 02FOXQ11	2	345/138	202 ATSI	419	473 Base Case	0 118.9 -	28.37	0	-0.31%
243499 051	243499 05DUBLIN	247873 05BRITTON	1	138	205 AEP	269	345 Base Case	0 76.3 -	28.35	0	0.02%
238746 020	238746 02GALION	239028 020NTARO	1	138	202 ATSI	317	365 Base Case	0 89.8 -	28.34	0	0.49%
242819 055	242819 05SULVN	304740 4WALTERS138	1	138	205/341 AEP/CPLW	100	100 Base Case	0 -28.3 -	28.34	0	0.07%
243472 05E	243472 05BEXLEY	243575 05ST.CLR	1	138	205 AEP	187	240 Base Case	0 52.9 -	28.31	0	-0.19%
250020 08E	250020 08ESTWD1	250031 08FRDBT2	1	138	212 DEO&K	298	298 Base Case	0 84.1 -	28.24	0	-0.13%
238874 021	238874 02LAKVEW	239030 020TTAWA	1	138	202 ATSI	448	516 Base Case	0 -126.4 -	28.22	0	0.75%
245769 052	245769 05ADKINS	253100 09ATLNTA	1	345	205/209 AEP/DAY	1195	1195 Base Case	0 -337 -	28.2	0	0.93%
242622 051	242622 05DARRH2	242999 05EPROCT	1	138	205 AEP	292	296 Base Case	0 -82.3 -	28.19	0	0.10%
238642 020	238642 02CRSLND	239107 02SHNAGO	1	138	202 ATSI	265	287 Base Case	0 -74.6 -	28.14	0	-0.05%
243287 05E	243287 05E.ELKHART	243346 05MOTTV	1	138	205 AEP	185	185 Base Case	0 52.1 -	28.14	0	-0.02%
250075 081	250075 08MTGRY1	250150 08ENYART	1	138	212 DEO&K	298	298 Base Case	0 -83.8 -	28.13	0	-0.07%
238648 020	238648 02CY Q-2	238918 02SLTRQ2	1	138	202 ATSI	273	332 Base Case	0 -76.8 -	28.12	0	0.40%
243242 057	243242 05ALLEN	243383 05TILLMA	1	138	205 AEP	293	341 Base Case	0 82.3 -	28.08	0	0.60%
244489 05E	244489 05FOGWELL	244967 05ELLISON BP	1	138	205 AEP	205	284 Base Case	0 57.5 -	28.06	0	0.10%
243233 051	243233 05TANNER	248001 06DEARB1	Z1	345	205/206 AEP/OVEC	1097	1204 Base Case	0 -307.6 -	28.04	0	-0.49%
243281 051	243281 05DRAGNZ	243317 05IRELAN	1	138	205 AEP	219	251 Base Case	0 -61.4 -	28.03	0	0.18%
238796 02H	238796 02HGHLND	238797 02HGHLND	2	345/138	202 ATSI	596	690 Base Case	0 166.9 -	28	0	-0.05%
249984 08A	249984 08ASHLD8	250146 08WHITTR	1	138	212 DEO&K	268	268 Base Case	0 75 -	28	0	-0.08%
238914 021	238914 02LRCRQ3	240353 02PM2Q12	1	138	202 ATSI	273	332 Base Case	0 76.4 -	28	0	-0.10%
243276 051	243276 05DELCOR	243292 05FALL C	1	138	205 AEP	223	223 Base Case	0 -62.4 -	27.97	0	0.19%

243681 050	243681 05CHADWICK1	243696 05KYELEC	1	138	205 AEP	219	251 Base Case	0 61.3 -	27.97	0	-0.05%
239026 021	239026 02NY 012	240353 02PM2012	1	138	202 ATSI	273	332 Base Case	0 -76.2 -	27.91	0	-0.10%
244936 05N	244936 05MCKINLEY2	244967 05ELLISON BP	1	138	205 AEP	205	284 Base Case	0 -57.2 -	27.9	0	0.10%
238684 025	238684 02EASTLK	239036 02PERBY	1	345	202 ATST	1396	1667 Base Case	0 -389.4 -	27.9	0	-1.19%
238535 027	238535 02APO-2	238811 02H0 0-2	1	138	202 ATST	205	265 Base Case	0 57.2 -	27.89	0	-0.01%
243262 050	243262 05COLLEGE C	246963 05WESLSS	1	138	205 AEP	223	283 Base Case	0 -62.2 -	27.87	0	-0.03%
242962 055	242962 05BLDBGZ	247278 05MTLL17	1	138	205 AEP	205	205 Base Case	0 57 1 -	27.87	0	-0.05%
243262 050	243262 05COLLEGE C	243282 05DREWER	1	138	205 AEP	223	310 Base Case	0 -62.1 -	27.87	0	-0.03%
238663 020	238663 0201.0-15	238982 02NASO15	1	138	202 ATST	137	174 Base Case	0 38 2 -	27.86	0	-0.03%
243276 050	243276 05DELCOB	245946 05MADISON2	1	138	205 AEP	223	223 Base Case	0 62 -	27.78	0	0.00%
250007 080	250007 08CBSNT1	250124 08WENDEA	1	138	212 DE0&K	268	268 Base Case	0 74 4 -	27.78	0	0.24%
242989 058	242989 055 1.1MA	243067 05NWOODC	1	138	205 AEP	167	240 Base Case	0 46 4 -	27.78	0	0.26%
242769 055	242769 05BTDGWY	306711 4DAN BTV	1	138	205/342 AEP/DUK	149	149 Base Case	0 -41 4 -	27.77	0	0.08%
243372 055	243372 05SATURN	243377 05SORENS	1	138	205 AEP	185	185 Base Case	0 -51.3 -	27.75	0	-0.28%
238921 021	238921 02LTE011	239226 02STYDC0011	1	138	202 ATST	425	522 Base Case	0 117.6 -	27.68	0	-0.01%
238613 020	238613 02CE 0-4	238919 02SLTB04	1	138	202 ATST	273	332 Base Case	0 -75 4 -	27.62	0	0.37%
247489 05F	247489 05BOSSERMAN	255153 17MTCH_CTTY	1	138	205/217 AEP/NTPS	156	156 Base Case	0 43.1 -	27.62	0	-0.86%
253089 090	253089 09WMTT/TN	253139 09ELDEAN	1	138	209 DAY	307	382 Base Case	0 84.8 -	27.61	0	0.04%
242737 050	242737 050P0SSUMCK	242746 05PEAKVT	1	138	205 AEP	164	180 Base Case	0 45.3 -	27.61	0	0.03%
239141 021	239141 02TRACO	239281 02CRNBRY	1	138	202 ATSI	278	339 Base Case	0 -76.7 -	27.6	0	-0.02%
243545 05N	243545 05MTLTON SS	244540 05BHODES	1	138	205 AEP	323	451 Base Case	0 -89.1 -	27.59	0	0.10%
243506 055	243506 05ELLTOT	243619 05BOSEWOODSS	1	138	205 AEP	184	184 Base Case	0 -50.6 -	27.52	0	0.01%
242684 05	242684 05J.FEBB	242760 05PB0GPK	1	138	205 AEP	383	449 Base Case	0 105.2 -	27.48	0	-0.05%
242524 050	242524 05CLOVRD	242607 05CLOVRD	1A	345/138	205 AEP	500	564 Base Case	0 137.3 -	27.47	0	-0.13%
238581 02F	238581 02BBBRTN	238629 02CLVBDL	1	138	202 ATST	233	282 Base Case	0 -64 -	27.45	0	0.04%
242605 050	242605 05CLNCHB	242665 05HANSON	1	138	205 AEP	219	255 Base Case	0 60 1 -	27 44	0	0.13%
238694 025	238694 02ELW-OS	238695 02ELW+	1	138	202 ATST	160	192 Base Case	0 -43.9 -	27.42	0	0.00%
242946 051	242946 05TTDD	243604 05TIDD B XFL	B	345/138	205 AEP	521	556 Base Case	0 142.8 -	27.41	0	-0.05%
235626 01	235626 01 JONESB	242551 05BELVA	- 1	138	201/205 AP/AEP	282	367 Base Case	0 -77.3 -	27.4	0	0.43%
243122 055	243122 05SW LTM	243152 05WMOULT	1	138	205 AEP	223	223 Base Case	0 61.1 -	27.4	0	-0.06%
238541 027	238541 02AS 0-1	238647 02CY 0-1	1	138	202 ATST	265	316 Base Case	0 72.6 -	27.39	0	0.37%
239123 025	239123 02STAR	239142 02TUSC	1	138	202 ATST	233	282 Base Case	0 63.8 -	27.38	0	0.09%
242737 050	242737 050POSSUMCK	242785 05S.LYNC	1	138	205 AEP	335	392 Base Case	0 91.7 -	27.37	0	0.11%
242708 05N	242708 05M FUNK	242796 05SHAWSV	1	138	205 AEP	167	240 Base Case	0 45.6 -	27.33	0	-0.17%
238796 021	238796 02HGHLND	238797 02HGHLND	1	345/138	202 ATST	614	701 Base Case	0 167.8 -	27.32	0	-0.05%
243676 05E	243676 05BELLF2	246887 05RAMEY	1	138	205 AEP	409	527 Base Case	0 -111.6 -	27.29	0	-0.07%
238647 020	238647 02CY 0-1	238739 02FWLS01	1	138	202 ATSI	265	332 Base Case	0 72.3 -	27.29	0	0.37%
245533 05H	245533 05H0LLOWAY34	246327 05NOTTINGH78	1	138	205 AEP	200	242 Base Case	0 54.5 -	27.27	0	0.03%
245533 05H	245533 05HOLLOWAY34	246325 05NOTTINGH56	2	138	205 AEP	200	242 Base Case	0 54.5 -	27.26	0	0.03%
243257 050	243257 05CALVERTZ	245857 05KANKAKEE1	1	138	205 AEP	187	205 Base Case	0 50.9 -	27.24	0	-0.28%
238861 021	238861 02KIRBY	938700 AE1-092 TAP	1	138	202/209 ATSI/DAY	218	269 Base Case	0 59.4 -	27.24	0	-0.17%
239122 025	239122 02STAR	239123 02STAR	3	345/138	202 ATSI	601	765 Base Case	0 163.4 -	27.19	0	0.00%
243685 051	243685 05DORTON	244688 05BEAVER CR2	1	138	205 AEP	223	310 Base Case	0 60.6 -	27.18	0	-0.05%
243159 050	243159 05WPHILO	246010 05PHILO2	1	138	205 AEP	136	167 Base Case	0 -36.9 -	27.17	0	-0.22%
238964 021	238964 02MLCRK+	937247 AD2-163 POI	1	138	202 ATSI	152	179 Base Case	0 41.3 -	27.17	0	-0.12%
253101 09E	253101 09BLUJK	938700 AE1-092 TAP	1	138	209 DAY	218	269 Base Case	0 -59.1 -	27.11	0	-0.17%
238617 020	238617 02CHMBER	239137 02THEIS	1	138	202 ATSI	200	242 Base Case	0 54.2 -	27.11	0	-0.07%
243458 05H	243458 05HYATT	243526 05HYATT	7	345/138	205 AEP	576	583 Base Case	0 156.1 -	27.11	0	0.08%
243249 05E	243249 05BEECH	243385 05TWIN B	1	138	205 AEP	205	284 Base Case	0 -55.5 -	27.1	0	0.17%
235406 010	235406 01WEIRJT	243113 05STORON	1	138	201/205 AP/AEP	136	167 Base Case	0 36.8 -	27.09	0	-0.06%
239134 021	239134 02TANGY	239264 02DBP	1	138	202 ATSI	272	339 Base Case	0 73.6 -	27.07	0	0.09%
242720 05N	242720 05MONETA	242775 05ROCKCAS SS	1	138	205 AEP	409	409 Base Case	0 -110.7 -	27.06	0	-0.14%
249566 08F	249566 08FOSTER	249582 08GARVER	1	345	212 DE0&K	1509	1509 Base Case	0 -408.2 -	27.05	0	0.74%
242620 051	242620 05DANVL2	242631 05EDAN 1	1	138	205 AEP	275	402 Base Case	0 -74.3 -	27.04	0	-0.81%
253012 090	253012 09CENTER	253034 09HEMPST	1	138	209 DAY	191	234 Base Case	0 51.6 -	27.03	0	0.04%
238913 021	238913 02LRCRQ2	239046 02PN Q-2	1	138	202 ATSI	115	115 Base Case	0 31.1 -	27.02	0	-0.15%

243046 05N	243046.05N CROW	243126	05THIVENER1Z	1	138	205 AEP	167	245	Base Case	0	45 1	-	27	0	0.03%
253040 098	253040 09KN0LLW	253063	090VEBL2	1	138	209 DAY	306	373	Base Case	0	82.6	-	26.99	0	-0.03%
242005 051	242895 057000000	247559	05 TADDETT	1	120	205 AFD	257	220	Bage Case	0	-60.3	-	26.99	0	0.03%
243005 051	243885 05110R35	247558	ODURATION	1	130	205 AEF	201	330	Dase Case	0	-09.3	-	20.98	0	0.42/0
253046 091	253046 09MIAMI	253089	09WMILTN	1	. 138	209 DAY	301	330	Base Case	0	-81.2	-	26.97	0	0.12%
242533 05A	242533 05ABINGD	242605	05CLNCHR	1	. 138	205 AEP	201	201	Base Case	0	-54.1	-	26.93	0	-0.25%
253005 09E	253005 09BATH	253083	09TREBEI	1	. 138	209 DAY	301	375	Base Case	0	81	-	26.92	0	0.04%
250065 08N	250065 08MILIKN	250083	08P.UN2	1	. 138	212 DEO&K	299	299	Base Case	0	80.5	-	26.91	0	-0.06%
239278 02E	239278 02BRDVIE	937247	AD2-163_POI	1	138	202 ATSI	152	179	Base Case	0	-40.9	-	26.9	0	-0.12%
242773 05F	242773 05ROANO1	242774	05ROANO2	Z1	138	205 AEP	240	309	Base Case	0	64.6	-	26.9	0	-0.09%
238732 02E	238732 02FOXQ11	241935	02CLINTON	1	138	202 ATSI	347	423	Base Case	0	93.3	-	26.89	0	-0.04%
249993 080	249993 08CDRVL2	250030	08FRDBT1	1	138	212 DEO&K	298	298	Base Case	0	-80.1	-	26.88	0	-0.13%
242571 05F	242571 05BUCKHO	242707	0.5LOWESM	1	1.38	205 AEP	251	251	Base Case	0	67.4	-	26.86	0	0.22%
243669 055	243669 05B SAND	243670	05BAKER	1	138	205 AEP	670	747	Base Case	0	-179 9	-	26.85	0	0.00%
243369 055	243369 05BOYERTON	243393	05WESDEL	1	138	205 AEP	219	223	Base Case	0	58.8	_	26.84	0	-0 17%
220025 021	229825 02102000	230000	0.2MA UNCS	1	120	203 700	210	223	Bage Case	0	-52.7	-	26.04	0	0.17%
238823 021	238823 021VANHO	230939	02MARINGS	1	130	202 AISI	200	242	Dase Case	0	-55.7	-	20.04	0	1 5 20/
242528 058	242528 USSPORN	247183	USMOUNTN	1	. 345	205 AEP	2928	3113	Base Case	0	-/85.8	-	26.84	0	-1.53%
243539 U5N	243539 USMARION	243550	USOBETZ		138	2U5 AEP	149	180	Base Case	0	-40	-	26.84	0	0.05%
243484 050	243484 05CITYCO	243584	U5VINE	2	138	205 AEP	251	274	Base Case	0	-67.3	-	26.81	0	0.00%
243221 05E	243221 05EUGENE	247712	05SULLIVAN	1	. 345	205 AEP	971	1335	Base Case	0	-260.1	-	26.78	0	-0.87%
246325 051	246325 05NOTTINGH56	247700	05YAGER	1	. 138	205 AEP	200	241	Base Case	0	53.5	-	26.76	0	0.04%
249571 08F	249571 08REDBK1	249573	08SGROVE	1	. 345	212 DEO&K	1509	1509	Base Case	0	-403.5	-	26.74	0	-0.81%
243473 05E	243473 05BIXBY	246761	05THREEC	1	. 138	205 AEP	427	481	Base Case	0	114.1	-	26.73	0	-0.03%
239092 025	239092 02SAMMIS	242943	05SCANTO	1	. 345	202/205 ATSI/AEP	1409	1409	Base Case	0	376.2	-	26.7	0	-2.13%
242537 05#	242537 05AMOS	242548	05BANCRO	1	138	205 AEP	334	334	Base Case	0	89.1	-	26.67	0	-0.06%
239728 02E	239728 02BLKRVR	239734	02CHARLESTON	1	. 138	202 ATSI	435	500	Base Case	0	116	-	26.67	0	0.58%
242544 05A	242544 05AXTON	242545	05AXTONX	ZB	138	205 AEP	696	747	Base Case	0	-185.6	-	26.66	0	1.05%
243221 05E	243221 05EUGENE	249504	08CAYSUB	1	. 345	205/208 AEP/DEI	1374	1374	Base Case	0	-366.3	-	26.66	0	-3.03%
242725 05№	242725 05MTAIRY	242859	05WYTHE2	1	138	205 AEP	205	284	Base Case	0	54.6	-	26.63	0	0.37%
239063 025	239063 02BEYNOD	239110	02STL AV+	1	1.38	202 ATSI	278	343	Base Case	0	-73.9	-	26.6	0	0.24%
243383 051	243383 05TTLLMA	246950	05TIMBSS	1	138	205 AEP	283	355	Base Case	0	75.3	-	26 59	0	0.62%
242522 057	242522 05AMOS	247504	05AMOS 5 XEL	25	345	205 AEP	1740	2034	Base Case	0	-462 5	_	26.58	0	0.92%
242522 057	242522 0511100	247904	05TRICE_S_ALL	1	120	205 AFD	206	2004	Base Case	0	702.3	_	26.50	0	0.02%
242557 052	242557 054005	242023	05TRONOR	1	120	205 AED	2.50	200	Dase Case	0	10	-	20.57	0	0.00%
242009 0JF	242009 05h0L311	242029	00TENNE1		130	203 AEF	100	500	Dase Case	0	100.0	_	20.55	0	0.03%
250139 08F	250139 08ROCKIE	250149	08125381	21	138	ZIZ DEO&K	486	502	Base Case	0	128.9	-	26.52	0	0.07%
242688 055	242688 USJOSHUA	242772	U5RIVERV	1	. 138	205 AEP	296	413	Base Case	0	/8.5	-	26.5	0	0.27%
253078 095	253078 09SUGRCK	253255	09GEBHRT	1	. 138	209 DAY	196	241	Base Case	0	51.9	-	26.47	0	-0.09%
242952 058	242952 O5SHEPLER SS	243097	05SECANT	1	. 138	205 AEP	296	296	Base Case	0	-78.3	-	26.46	0	-0.12%
238544 027	238544 02ASH_3	238548	02ATCQ31	1	. 138	202 ATSI	72	135	Base Case	0	19	-	26.45	0	0.00%
250098 085	250098 08SHAKER	250149	08TP5381	1	. 138	212 DEO&K	486	502	Base Case	0	-128.6	-	26.45	0	0.07%
238889 021	238889 02LEMOYN	238890	02LEMOYN	2	345/138	202 ATSI	361	412	Base Case	0	95.5	-	26.44	0	0.14%
242949 050	242949 05WMILLP	243459	05KIRK	1	. 345	205 AEP	1132	1132	Base Case	0	299.1	-	26.42	0	-1.78%
238958 021	238958 02MFLDQ3	239039	02PGTP11	1	138	202 ATSI	103	133	Base Case	0	-27.2	-	26.42	0	-0.15%
238615 020	238615 02CHAMBR	238617	02CHMBER	3	345/138	202 ATSI	516	574	Base Case	0	135.9	-	26.34	0	-0.09%
238906 021	238906 02LNGVEW	239217	02REEDSB	1	. 138	202 ATSI	141	182	Base Case	0	-37.1	-	26.32	0	-0.25%
242992 05E	242992 05E WHEE	243124	05TEXEAS	1	. 138	205 AEP	97	97	Base Case	0	25.5	-	26.32	0	0.00%
243277 051	243277 05DERBY	243335	05MAIN S	1	138	205 AEP	205	205	Base Case	0	-53.9	-	26.3	0	-0.37%
242652 050	242652 05GOMING	242719	05MONEL	1	138	205 AEP	388	409	Base Case	0	102	-	26.28	0	0.18%
238614 020	238614 02CFO-14	238702	02ERQ-14	1	138	202 ATSI	273	332	Base Case	0	71.7	-	26.26	0	0.22%
250092 085	250092 08REDBK1	250114	08TP7481	1	138	212 DE0&K	370	370	Base Case	0	97.2	-	26.26	0	-0.09%
249989 085	249989 08BK.T246	250025	0.8FLDMN1	1	138	212 DEO&K	299	299	Base Case	0	78.5	_	26.25	0	0.07%
238889 021	238889 02LEMOVN	238800	02LEMOYN	1	345/138	202 ATST	362	200	Base Case	0	95.0	_	26.23	0	0 1/1%
238717 02	238717 02-5POTNT+	239371	02DOWLING	1	138	202 ATST	288	353	Base Case	0	-75 5	-	20.23	0	-0 14%
238549 027	238549 023VEPV	230100	02SUNDOK	1	120	202 71101	200	202	Base Case	0	61 1		20.2	0	0.17%
242002 057	242002 05E WHEE	212000	05 TRONWOODCC		120	202 A131	200	1.67	Bage Case	0	-42 7		20.2	0	-0 1 20/
242992 035	242592 UJE WHEE	243968	05DIVEDV N		100	203 AEP 205 AEP	10/	10/	Dase Case	0	-43.7	_	20.19	0	-0.12%
243303 USE	2433U3 USELKEM	243364	OGRUVERV N.		138	203 AEP	240	282	Dase Case	0	-02.9	-	26.19	0	0.00%
238702 02E	238/02 02ERQ-14	238711	UZEYTP14	1	. 138	202 ATSI	273	332	Base Case	0	71.5	-	26.18	0	0.22%

238700 02EPWRTH 239141 02TRACO 1 138 202 ATSI 278 339 Base Case 0 -72.8 - 26.17 246102 05 246102 05CARROLLTN2 247016 05GABLSS 1 138 205 AEP 358 421 Base Case 0 -93.5 - 26.11 243483 05 243483 05CRCLVS 246889 05BIERSR 1 138 205 AEP 389 559 Base Case 0 -101.5 - 26.09 243319 05 243319 05JAY 253250 09FTRECV 1 138 205 AEP 301 375 Base Case 0 78.5 - 26.08 243242 052 243242 054 243340 05MAGLEY 1 138 205 AEP 257 341 Base Case 0 67 - 26.08 242671 05 242671 05HOPKIN 242672 05HOPKINSX SR 138 205 AEP 248 Base Case <th>0 -0.029 0 -0.209 0 0.029 0 0.389 0 0.079 0 -0.059 0 0.199 0 0.1588 0 0.01% 0 -0.21% 0 -0.17% 0 0.06% 0 0.01%</th>	0 -0.029 0 -0.209 0 0.029 0 0.389 0 0.079 0 -0.059 0 0.199 0 0.1588 0 0.01% 0 -0.21% 0 -0.17% 0 0.06% 0 0.01%
246102 05 246102 05 05 247016 05 05 1 138 205 AEP 358 421 Base 0.5 - 26.11 243483 05 243483 05<	0 -0.209 0 0.029 0 0.389 0 0.079 0 -0.059 0 0.199 0 15.589 0 0.019 0 -0.219 0 -0.219 0 -0.219 0 -0.219 0 -0.179 0 0.06% 0 0.019
243483 050 24328 050 24328 050 24328 050 243483 050 242671 050 242672 050 138 205 AEP 257 341 Base Case 0 67 - 26.08 242671 051 242672 0500000000000000000000000000000000000	0 0.029 0 0.389 0 0.079 0 -0.059 0 0.199 0 15.589 0 0.019 0 -0.21% 0 -0.21% 0 -0.21% 0 0.06% 0 0.01%
243319 054 243319 05JAY 253250 09FTRECV 1 138 205/209 AEP/DAY 301 375 Base Case 0 78.5 - 26.08 243242 057 243242 05ALLEN 243334 05MAGLEY 1 138 205/209 AEP 257 341 Base Case 0 67 - 26.08 242671 051 242672 05HOPKINS SR 138 205 AEP 248 248 Base Case 0 67 - 26.08 242609 050 242609 050LYTR2 242634 05EDGEMO 1 138 205 AEP 167 240 Base Case 0 -64.7 - 26.08 242609 050 242609 050LYTR2 242634 05EDGEMO 1 138 205 AEP 167 240 Base Case 0 43.5 - 26.08 243206 050 243206 050UMONT 24699 050ORENS 1 765 205 AEP 4142 4142 <td>0 0.389 0 0.079 0 -0.059 0 0.199 0 15.589 0 0.019 0 -0.21% 0 -0.21% 0 -0.17% 0 0.06% 0 0.01%</td>	0 0.389 0 0.079 0 -0.059 0 0.199 0 15.589 0 0.019 0 -0.21% 0 -0.21% 0 -0.17% 0 0.06% 0 0.01%
243242 057 243242 05ALLEN 243343 05MagLey 1 138 205 AEP 257 341 Base Case 0 67 - 26.08 242671 05H 242671 05HOPKIN 242672 05HOPKINSX SR 138 205 AEP 248 248 Base Case 0 - - 26.08 242609 05 242609 05CLYTR2 242634 05EDGEMO 1 138 205 AEP 167 240 Base Case 0 - - 26.08 243206 05 242609 05CLYTR2 242634 05EDGEMO 1 138 205 AEP 167 240 Base Case 0 43.5 - 26.06 243206 05 243206 05DUMONT 24699 05ORENS 1 765 205 AEP 4142 4142 Base Case 0 1077.4 - 26.01	0 0.079 0 -0.059 0 0.199 0 15.589 0 0.019 0 -0.219 0 -0.219 0 -0.219 0 -0.17% 0 0.06% 0 0.01%
242671 05H 242672 05H0PKIN 242672 05H0PKINSX SR 138 205 AEP 248 248 Base Case 0 -64.7 - 26.08 242670 05E 242609 05CLYTR2 242634 05EDEMO 1 138 205 AEP 167 240 Base Case 0 -64.7 - 26.06 243206 05E 243206 05DUMONT 246999 05SORENS 1 765 205 AEP 4142 4142 Base Case 0 1077.4 - 26.01	0 0.019 0 0.199 0 15.589 0 0.019 0 0.019
242601 CSH 242602 CONFRING 242672 CONFRING SK 138 200 REF 240 240 Ref 240 Ref <td>0 0.199 0 15.889 0 0.019 0 -0.219 0 -0.219 0 -0.219 0 -0.179 0 0.06% 0 0.019</td>	0 0.199 0 15.889 0 0.019 0 -0.219 0 -0.219 0 -0.219 0 -0.179 0 0.06% 0 0.019
242009 050 242009 050 242009 050 1 138 200 APF 101 240 Asse Case 0 43.5 2 26.00 243206 051 243206 05DUMONT 246999 05SORENS 1 765 205 AEP 4142 4142 Base Case 0 1077.4 - 26.01	0 0.13 0 15.589 0 0.019 0 -0.219 0 -0.179 0 0.06% 0 0.01%
243206 031 243206 03D0M0N1 246999 0350RENS 1 763 203 AEP 4142 4142 Base case 0 1077.4 - 26.01	0 0.019 0 -0.219 0 -0.179 0 0.06% 0 0.014
	0 -0.217 0 -0.217 0 -0.179 0 0.06% 0 0.01%
235378 022 235378 025000 02500 02500 02500 02500 02500 02500000000	0 -0.217 0 -0.179 0 0.069 0 0.01%
24209/038 24209/03KWRIS 24273103KBARK 1 138 200 AFF 205 205 Base Case 0 55.2 - 25.36	0 -0.179 0 0.069 0 0.019
238842 02, 238842 02, MPRQ3 239051 022V Q3 1 138 202 ATS1 273 332 Base Case 0 70.8 - 25.95	0 0.069
243322 05 243322 05 KENZIE 245259 05 EDLOWE 1 138 205 A A P 293 341 Base Case 0 76 - 25.92	0 0.019
238708 02E 238708 02EVRGRN 23932102RSYSOH 1 138 202 ATSI 200 242 Base Case 0 51.8 - 25.9	
238621 02CL Q13 240348 02GROVWDQ13 ZB 138 202 ATSI 110 138 Base Case 0 -28.5 - 25.87	0 0.00%
242630 05E 242630 05E.RIVE 242784 05S.BLUE 1 138 205 AEP 205 205 Base Case 0 -53 - 25.85	0 0.18%
235363 01N 235363 01MAHNSL 243347 05TIDD 3-4 1 138 201/205 AP/AEP 187 205 Base Case 0 -48.3 - 25.84	0 0.53%
238502 02H 238502 02BRIM 238890 02LEMOYN 1 138 202 ATSI 252 291 Base Case 0 -65.1 - 25.84	0 -0.14%
242607 050 242607 05CLOVRD 243892 05MEADS8 1 138 205 AEP 348 407 Base Case 0 -89.9 - 25.83	0 -0.14%
239154 02W 239154 02W.FREM 240813 02GROTON 1 138 202 ATSI 278 339 Base Case 0 71.8 - 25.82	0 0.37%
238617 020 238617 02CHMBER 239010 02NORDON 1 138 202 ATSI 200 242 Base Case 0 51.6 - 25.81	0 -0.14%
238823 021 238823 02INQ-14 240284 02LKSHQ4 1 138 202 ATSI 267 352 Base Case 0 68.9 - 25.8	0 -0.19%
242675 05H 242675 05HUFFMN 242755 05PIPERS 1 138 205 AEP 277 277 Base Case 0 71.4 - 25.77	0 -0.02%
243292 05E 243292 05FALL C 243333 05MADISON1 1 138 205 AEP 251 251 Base Case 0 64.6 - 25.74	0 0.20%
243080 05F 243080 05RILEYC 247000 05YELLOW CK1 1 138 205 AEP 223 223 Base Case 0 57.4 - 25.73	0 -0.07%
243109 05\$ 243109 05STEUBN 243127 05TIDD 1-2 1 138 205 AEP 164 180 Base Case 0 -42.2 - 25.72	0 -0.02%
242648 05 242648 05 GARDEC 242661 05HALES1 1 138 205 AEP 219 223 Base Case 0 56.3 - 25.72	0 0.18%
238610 02 238610 02CDR ST 238706 02EU TAP 1 138 202 ATSI 299 360 Base Case 0 -76.8 - 25.67	0 -0.19%
242774 05E 242774 05ROANO2 247631 05BENNINGTON 1 138 205 AEP 240 309 Base Case 0 -61.6 - 25.65	0 -0.14%
242513 05CULLOD 242517 05WYOMIN 1 765 205 AEP 4047 4142 Base Case 0 1037.9 - 25.65	0 1.72%
239321 02E 239321 02RSYSOH 240068 02STAR_FORGE 1 138 202 ATSI 200 242 Base Case 0 51.2 - 25.59	0 0.01%
253077 09\$ 253077 09STURT 253100 09ATLNTA 1 345 209 DAY 1195 1195 Base Case 0 305.7 - 25.58	0 0.94%
238615 02CHAMBR 238617 02CHMBER 4 345/138 202 ATSI 516 574 Base Case 0 132 - 25.58	0 -0.09%
238746 02 238746 02GALION 238891 02LESIDE 1 138 202 ATSI 251 290 Base Case 0 64.1 - 25.55	0 0.46%
243050 05N 243050 05NBELVL 247278 05MILL1Z 1 138 205 AEP 187 240 Base Case 0 -47.8 - 25.54	0 -0.05%
238684 02E 238684 02EASTLK 238685 02EASTLK 61 345/138 202 ATSI 906 1006 Base Case 0 231.3 - 25.53	0 -0.16%
242699 051 242699 05LAVALT 244462 05SHOALS 1 138 205 AEP 251 309 Base Case 0 -64 - 25.51	0 0.03%
242994 05E 242994 05EAMSTD 247704 05PANDA RDSS 1 138 205 AEP 336 393 Base Case 0 85.6 - 25.49	0 -0.18%
243024 05E 243024 05HOWARD 243100 05SHELGH 1 138 205 AEP 72 76 Base Case 0 18.3 - 25.46	0 0.00%
242539 052 242539 05ANGLER 242814 05ST.ALB 1 138 205 AEP 287 337 Base Case 0 -72.8 - 25.37	0 -0.05%
242619 05 242619 05 DANVL1 242620 05 DANVL2 Z1 138 205 AEP 287 337 Base Case 0 -72.8 - 25.37	0 -0.29%
242555 05E 242555 05BLAINE 242843 05WLAKE 1 138 205 AEP 287 337 Base Case 0 -72.8 - 25.36	0 -0.16%
242512 05CLOVRD 242515 05JOSHUA 1 765 205 AEP 1180 1180 Base Case 0 298.9 - 25.33	0 0.65%
246751 05V 246751 05VASSEL 270162 AB2-067 TAP 1 765 205 AEP 4047 4571 Base Case 0 -1023.9 - 25.3	0 -11.36%
238951 02M 238951 02MBQ-14 241925 02ELQ5 1 138 202 ATSI 324 382 Base Case 0 -82 - 25.29	0 -0.16%
238715 02 238715 02FERNWY 239281 02CRNBRY 1 138 202 ATSI 278 339 Base Case 0 -70.3 - 25.28	0 -0.029
242937 05k 242937 05kAMMER 242948 05WBELLA 1 345 205 AEP 1740 1868 Base Case 0 439.7 - 25.27	0 2.859
243229 050 243229 050LIVE 243918 05ELDERBERRY 1 345 205 AEP 1188 1539 Base Case 0 -300 - 25.25	0 -3.109
243473 05E 243473 05BIXBY 244232 05SHANONRSS8 1 138 205 AEP 329 350 Base Case 0 83 - 25.22	0 0.019
243453 05E 243453 05BEATTY 244022 05COLE 1 345 205 AEP 1096 1203 Base Case 0 276.4 - 25.22	0 0.409
243560 05F 243560 05ROBERT 243582 05TRABUE 1 138 205 AEP 223 310 Base Case 0 56.1 - 25.15	0 -0.039
250023 08E 250023 08EVNDL2 250118 08TRMNL2 1 138 212 DEO&K 408 408 Base Case 0 -102.4 - 25.11	0 0.149
243257 050 243257 05CALVERTZ 243318 05JACKSON RD 1 138 205 AEP 205 205 Base Case 0 -51.4 - 25.1	0 -0.289
238783 02H 238783 02HARDIN 238793 02HDGQ12 2 345/138 202 ATSI 429 484 Base Case 0 107.6 - 25.08	0 -0.119
243457 05H 243457 05HAYDEN 243461 05ROBRT1 1 345 205 AEP 1025 1318 Base Case 0 257.1 - 25.08	0 0.129
242725 05N 242725 05MTAIRY 242780 05RURALR 1 138 205 AEP 251 335 Base Case 0 -62.8 - 25.03	0 0.379

249578 08H	249578	08HILCRT	253077	09STUART	1	345	212/209 DEO&K/DAY	1255	1374 Base Case	0 -314	-	25.02	0	-0.86%
243150 050	243150	05WMILLP	243510	05GAHANN	1	138	205 AEP	219	255 Base Case	0 54.8	-	25.01	0	-0.15%
243554 055	243554	0.5 PORTER	243573	0.5SHELL	1	1.38	205 AEP	109	133 Base Case	0 27.3	-	25.01	0	0.00%
242608 050	242608	05CLYTR1	247869	05CLAYTE HV1	1	138	205 AEP	120	151 Base Case	0 -30	_	25.01	0	-0.02%
243214 050	243214	05COLNGW	255105	17HTPLE	1	345	205/217 AEP/NTPS	1409	1409 Base Case	0 -352	_	24.98	0	2 27%
243247 057	243214	05AURURN	247106	05WADNED	1	138	205 AFP	257	360 Base Case	0 -64 2	_	24.90	0	-0.03%
243247 0JF	243247	0 SHOUNDEN	247100	OF CALLER	1	130	205 AEF	2017	4571 Dase Case	0 -04.2	_	24.97	0	-0.03%
242316 035	242316	05MOUNTN	242923	05GAVIN	1	/65	203 AEP	4047	4371 Base Case	0 -1009.3	-	24.94	0	0.59%
242964 USE	242964	OSBOLIVA	243092	05SCANTO	1	130	203 AEP	291	291 Base Case	0 -72.6	-	24.95		-0.09%
243361 05F	243361	U5RABER	243372	05SATURN	1	138	205 AEP	185	185 Base Case	0 -46	-	24.86	0	-0.28%
242865 053	242865	05JEFRSO	248000	06CLIFTY	Z1	345	205/206 AEP/OVEC	1868	1868 Base Case	0 464.3	-	24.85	0	3.02%
243353 050	243353	050LIVE	244173	05SILVER LAK	1	138	205 AEP	223	310 Base Case	0 55.4	-	24.85	0	-0.39%
238568 02E	238568	02BAYSHO	241945	AB1-107 TAP	1	138	202 ATSI	278	342 Base Case	0 -69	-	24.83	0	0.12%
243205 050	243205	05COOK	243206	05DUMONT	1	765	205 AEP	4047	4571 Base Case	0 1004.7	-	24.83	0	-2.05%
243507 05E	243507	05FIFTH	245853	05HESS SOUTH	1	138	205 AEP	187	207 Base Case	0 46.4	-	24.82	0	0.09%
238831 021	238831	02IWQ-17	238843	02JNPRQ4	1	138	202 ATSI	273	332 Base Case	0 -67.7	-	24.8	0	0.07%
250081 080	250081	080AKLEY	250110	08CENTRL	1	138	212 DEO&K	205	205 Base Case	0 50.8	-	24.79	0	-0.11%
243457 05H	243457	05HAYDEN	243460	05ROBRT2	2	345	205 AEP	1025	1318 Base Case	0 253.9	-	24.78	0	0.11%
243265 050	243265	05COREY	245259	05EDLOWE	1	138	205 AEP	296	398 Base Case	0 -73.2	-	24.73	0	0.06%
242979 050	242979	05CANNELV SS	242986	05CROOKS	1	138	205 AEP	187	240 Base Case	0 46.2	-	24.73	0	-0.44%
242636 05F	242636	05FALLBR	242796	05SHAWSV	1	138	205 AEP	167	240 Base Case	0 -41.2	-	24.7	0	-0.17%
238850 023	238850	02JUNIPE	239122	02STAR	1	345	202 ATSI	1534	1891 Base Case	0 -378.7	-	24.69	0	0.79%
238781 02H	238781	02HANNA	238941	02MANSFD	1	345	202 ATSI	1380	1646 Base Case	0 -340.3	-	24.66	0	-0.83%
243023 05H	243023	05HOCKNG	243531	05KIMBRY	1	138	205 AEP	223	310 Base Case	0 -55	-	24.65	0	0.03%
238884 021	238884	02LEMO K	240990	02HOMEDEPOT	1	138	202 ATSI	160	192 Base Case	0 39.4	-	24.64	0	-0.23%
242528 055	242528	05SPORN	242947	05WATERFORD	1	345	205 AEP	1239	1566 Base Case	0 305 2	-	24 64	0	1 44%
242547 055	242547	05BATLS2	242855	0.5WYOMIN	2	138	205 AEP	388	484 Base Case	0 -95 5	_	24 61	0	-0.04%
242708 05N	242708	05M FUNK	247470	05MEUNK2 XEL	7.2	138	205 AEP	696	747 Base Case	0 -171 2	_	24.6	0	-0.09%
243127 057	242700	05TTDD 1-2	245389	05TTDD B Y	CD.	138	205 AEP	580	580 Base Case	0 =142.6	_	24.59	0	-0.05%
243127 051	243127	05TIDD 1 2	243303	05TIDD C X	CD	120	205 AED	500	590 Base Case	0 -142.0	_	24.50	0	-0.05%
243127 051	243127	0511DD 1-2	243129	OSTIDD_C_X	JK 1	120	205 AEP	206	200 Base Case	0 -142.0		24.55	0	-0.03%
242014 050	242014	OJCOLLINV 33	242030	OJFIELDALEI	1	100	205 AEF	2.90	000 Dase Case	0 72.7	_	24.57		0.10%
242537 054	242537	USAMOS	242836	05TURNE1	1	138	205 AEP	296	296 Base Case	0 12.1	-	24.57		0.08%
238848 025	238848	02JRDQII	239324	02CH	1	138	202 ATS1	265	316 Base Case	0 -65.1	-	24.56		0.11%
238563 028	238563	UZBAY SH	238654	02DAV-BE	1	345	202 ATS1	1542	1878 Base Case	0 378.3	-	24.54	0	3.31%
242682 053	242682	05JIM BRANCH	247152	05GARY	1	138	205 AEP	296	398 Base Case	0 72.5	-	24.5	0	0.18%
238708 021	238708	02EVRGRN	238797	02HGHLND	1	138	202 ATSI	200	242 Base Case	0 -49	-	24.49	0	0.03%
238708 02E	238708	02EVRGRN	238797	02HGHLND	2	138	202 ATSI	200	242 Base Case	0 -49	-	24.49	0	0.03%
243219 051	243219	05DUMONT	246955	050LIVE_BP	1	345	205 AEP	897	897 Base Case	0 219.6	-	24.48	0	1.75%
243222 05E	243222	05FALL C	249515	08NOBLSV	1	345	205/208 AEP/DEI	911	956 Base Case	0 -223	-	24.48	0	1.80%
239725 021	239725	02LAKEAVE	239726	02LAKEAVE	2	345/138	202 ATSI	620	740 Base Case	0 151.7	-	24.46	0	0.13%
243232 055	243232	05SORENS	246955	050LIVE_BP	1	345	205 AEP	897	897 Base Case	0 -219.3	-	24.45	0	1.75%
249990 08E	249990	08BROWN	250167	08DEO_STUART	1	138	212 DEO&K	275	275 Base Case	0 -67.2	-	24.45	0	-0.10%
239725 021	239725	02LAKEAVE	239726	02LAKEAVE	1	345/138	202 ATSI	621	740 Base Case	0 151.7	-	24.42	0	0.13%
250106 081	250106	08TODHJT	253057	090нн	1	138	212/209 DEO&K/DAY	221	272 Base Case	0 54	-	24.42	0	0.40%
242983 050	242983	05CHANDLERVZ	243074	05PHILO1	1	138	205 AEP	187	240 Base Case	0 -45.7	-	24.42	0	0.79%
238508 028	238508	02EBER	239128	02SWANTN	1	138	202 ATSI	278	343 Base Case	0 -67.7	-	24.35	0	0.15%
238640 020	238640	02CRISS	239264	02DBP	1	138	202 ATSI	278	339 Base Case	0 -67.7	-	24.34	0	0.09%
243024 05H	243024	05HOWARD	243050	05NBELVL	1	138	205 AEP	136	167 Base Case	0 -33.1	-	24.34	0	-0.05%
243604 051	243604	05TIDD B XFL	245389	05TIDD B X	в	138	205 AEP	586	598 Base Case	0 142.6	-	24.34	0	-0.05%
238546 027	238546	02ASQ-11	238743	02ER-DNB+Q11	1	138	202 ATSI	260	309 Base Case	0 63.3	-	24.34	0	0.28%
243122 055	243122	05SW LIM	243136	05W LIMA	1	138	205 AEP	348	388 Base Case	0 84.6	-	24.31	0	0.00%
243349 05N	243349	05NEW CARLT2	243359	05PINERD	1	138	205 AEP	187	233 Base Case	0 45 5	-	24.3	0	0.47%
249736 080	249736	08GRDALE	250057	08M.FORT	1	138	208/212 DET/DEO&K	486	486 Base Case	0 117 9	-	24.26	0	1.24%
243667 054	243667	0.5STINNE	360452	5PINEVILL KY	1	161	205/347 AEP/TVA	208	208 Base Case	0 -50 4	-	24 25	0	0.28%
242520 051	242520	05.T FERR	242514	05.T FERR	1	500/765	205 AEP	1635	1845 Base Case	0 396 /	-	24 25		1 10%
242629 050	242620	0.5E MONU	242632	05EDAN 2	1	139	205 AEP	251	335 Base Case	0 -60 8	-	24.23		-0.06%
243118 054	2/3110	05STIMMED	242032	OSUEDIAN SM	1	100	205 AFP	205	284 Base Case	0 -10 6	_	21.23		_0 10%
CHOTTO NOS	243118	N THIMPO C C C C	241131	UJUEVIUN 2M	1 1	138	ZUJ AEF	200	204 DASE CASE	0 -49.6	-	24.2	U	-0.19%

238586 02F	238586 02BBKSTD	238938	02MADISN	1 13	8 202 ATST	153	192 Base Case	0	37	-	24 18	0	-0 22%
238906 021	238906 021NGVEW	239196	02ARM+BU	1 13	8 202 ATST	225	295 Base Case	0	-54 3	-	24 15	0	0.49%
242222 051	242222 05/201715	020200	AE1-170 DOT	1 13	205 AFD	225	253 Base Case	0	71 5	_	24.15	0	0.45%
243322 031	243322 03RENZIE	000000	AB1 170 TO1	1 10	0 205 AEI	200	301 Dase case	0	71.5		24.15	0	0.05%
243261 030	243261 03C0LB1TAP55	939390	AEI=170 POI	1 13	6 203 AEP	296	361 Base Case	0	-/1.5	-	24.15	0	0.05%
243542 051	243542 USMIFFIN	243575	USST.CLR	1 1:	8 205 AEP	209	209 Base Case	0	50.5	-	24.14	0	-0.06%
243250 05E	243250 05BENTON	243271	05CRYSTA	1 13	8 205 AEP	296	361 Base Case	0	71.4	-	24.11	0	-0.29%
249998 080	249998 08CMMSVL	250072	08MTCHL1	1 13	8 212 DEO&K	267	267 Base Case	0	-64.3	-	24.07	0	-0.02%
238832 023	238832 02JACKMA	240978	02AJ-MOD	1 13	8 202 ATSI	158	190 Base Case	0	-38	-	24.07	0	0.29%
246999 058	246999 05SORENS	243232	05SORENS	3 765/345	205 AEP	2742	3097 Base Case	0	658.1	-	24	0	-1.42%
242704 05I	242704 05LOGAN1	242752	05PINCKZ	1 13	8 205 AEP	167	167 Base Case	0	40.1	-	23.99	0	-0.12%
238914 021	238914 02LRCRQ3	238917	02STACY	1 13	8 202 ATSI	200	242 Base Case	0	48	-	23.99	0	0.09%
238607 020	238607 02CARLIL	238608	02CARLIL	1 345/138	202 ATSI	577	686 Base Case	0	138.3	-	23.98	0	-0.21%
246399 050	246399 05GLOBE MT Z	247370	05MUSKNG1A ZT	13	8 205 AEP	187	240 Base Case	0	-44.8	-	23.94	0	-0.14%
238781 02H	238781 02HANNA	242932	05CANTNC	1 34	5 202/205 ATSI/AEP	1409	1409 Base Case	0	-337.3	-	23.94	0	1.43%
243490 050	243490 05CORNER	243554	05PORTER	1 13	8 205 AEP	131	143 Base Case	0	31.3	-	23.93	0	0.00%
243243 05A	243243 05ANDCT	243392	05WEBSTR	1 13	8 205 AEP	183	183 Base Case	0	43.8	-	23.92	0	0.03%
242708 05N	242708 05M FUNK	243874	05TECHDR	1 13	8 205 AEP	167	167 Base Case	0	39.9	-	23.88	0	-0.24%
242568 05E	242568 05BROOKV	242785	05S.LYNC	1 13	8 205 AEP	167	245 Base Case	0	-39.8	-	23.86	0	0.01%
242546 05E	242546 05BAILS1	242855	05WYOMIN	1 13	8 205 AEP	388	484 Base Case	0	-92.6	-	23.85	0	-0.03%
238530 02F	238530 02ALLEN	239344	02ALLEN-2	3 345/138	202 ATSI	576	651 Base Case	0	137.3	-	23.84	0	0.35%
238575 02E	238575 02BLUBEL	242980	05CANTNC	1 13	8 202/205 ATSI/AEP	257	338 Base Case	0	-61.3	-	23.83	0	0.58%
238891 021	238891 02LESIDE	239195	02MILIRN	1 13	8 202 ATSI	161	194 Base Case	0	38.4	-	23.82	0	0.45%
243495 051	243495 05DAVIDS	243560	05ROBERT	1 13	8 205 AEP	335	366 Base Case	0	-79.8	-	23.82	0	0.01%
238896 021	238896 02LIMECT	239371	02DOWLING	1 13	8 202 ATSI	288	353 Base Case	0	-68.6	-	23.82	0	0.12%
242539 057	242539 05ANGLBR	242672	05HOPKINSX	1 13	8 205 AEP	272	335 Base Case	0	64.7	-	23.78	0	-0.05%
242951 057	242951 05ADDTSONZ	243126	0.5THIVENER1Z	1 13	8 205 AEP	167	245 Base Case	0	-39.7	-	23.78	0	0.03%
238941 02N	238941 02MANSED	239358	02GLENWILLOW	1 34	5 202 ATST	1380	1646 Base Case	0	327.9	-	23.76	0	-0.53%
244070 05.	244070 05.TUNE BOAD	247704	05PANDA RDSS	1 13	8 205 AEP	296	409 Base Case	0	-70 3	-	23 75	0	-0.18%
243856 051	243856 05 TUC ST 1-6	246385	05 TUCST 7-11 72	13	8 205 AFP	747	747 Base Case	0	177 3	_	23.73	0	0.04%
238575 025	238575 028111881	238864	02KNOX	1 13	8 202 ATST	153	199 Base Case	0	36.3	_	23.73	0	-0.07%
242709 051	242708 05M EUNK	230004	OSMEUNIZI VET 71	1 13	202 AISI	100	747 Base Case	0	-165 1	_	23.75	0	-0.00%
242708 0JP	242708 05M FONK	243043	OSMFONKI_AFL ZI	1 1	0 203 AEF	107	240 Dase Case	0	-105.1	_	23.72	0	-0.03%
235311 010	235311 UICARNEG	243347	05TIDD 3-4	1 13	8 201/205 AP/AEP	187	240 Base Case	0	-44.4	-	23.72	0	0.39%
243246 054	243246 USAUBUNC	243247	USAUBURN	1 13	8 205 AEP	251	335 Base Case	0	-59.5	-	23.71	0	-0.19%
242853 050	242853 U5WURNO	934/50	ADI-IUZ TAP	1 1:	8 205 AEP	251	251 Base Case	0	59.4	-	23.68	0	0.26%
242609 050	242609 05CLYTR2	934750	AD1-102 TAP	1 13	8 205 AEP	251	251 Base Case	0	-59.3	-	23.63	0	0.26%
250041 08H	250041 08HAMLTN	250096	08SEWARD	1 13	8 212 DEO&K	291	291 Base Case	0	-68.7	-	23.61	0	-0.07%
238781 02F	238781 02HANNA	253902	15BVRVAL	1 34	5 202/215 ATSI/DLCO	1486	1739 Base Case	0	-350.5	-	23.58	0	-0.82%
239369 021	239369 02TORONTO	240214	02PENNANTTAP	1 13	8 202 ATSI	278	339 Base Case	0	65.5	-	23.57	0	0.05%
243211 057	243211 05ALLEN	243232	05SORENS	1 34	5 205 AEP	897	897 Base Case	0	-211.3	-	23.56	0	0.98%
243773 051	243773 05LTV1	246267	05WAGENHALS1	1 13	8 205 AEP	296	296 Base Case	0	-69.7	-	23.55	0	0.00%
238661 021	238661 02DKQ-16	238741	02FWLSQ3	1 13	8 202 ATSI	237	287 Base Case	0	-55.8	-	23.54	0	-0.02%
242523 05E	242523 05BAKER	242529	05TRISTA	1 34	5 205 AEP	1409	1409 Base Case	0	331.6	-	23.54	0	0.28%
243143 050	243143 05WBELLA	247756	05GLENCOE	1 13	8 205 AEP	296	413 Base Case	0	69.7	-	23.53	0	-0.10%
253077 095	253077 09STUART	342838	7SPURLOCK	1 34	5 209/320 DAY/EKPC	1240	1532 Base Case	0	-291.6	-	23.51	0	2.24%
242630 05E	242630 05E.RIVE	242786	05S.PRINCETN	1 13	8 205 AEP	205	205 Base Case	0	48.2	-	23.51	0	0.18%
250099 085	250099 08SIMPSN	250120	08TWYMI2	1 13	8 212 DEO&K	298	298 Base Case	0	-69.9	-	23.47	0	-0.14%
242854 050	242854 05W.WELCH SS	242855	05WYOMIN	1 13	8 205 AEP	335	392 Base Case	0	-78.6	-	23.47	0	0.03%
243304 050	243304 05GUARDN	243385	05TWIN B	1 13	8 205 AEP	251	330 Base Case	0	-58.9	-	23.47	0	0.32%
238768 020	238768 02GRNFLD	239290	02HAYES	2 13	8 202 ATSI	233	282 Base Case	0	-54.7	-	23.46	0	0.04%
242818 055	242818 05STOTES	242824	05TAMSM1	1 13	8 205 AEP	150	180 Base Case	0	-35.2	-	23.44	0	0.06%
242787 051	242787 05MIDDLEB SS	253111	09MIDDLE Z1	13	8 205/209 AEP/DAY	196	224 Base Case	0	45.9	-	23.42	0	-0.12%
238588 02E	238588 02BRNSWK	239125	02STONEY	1 13	8 202 ATSI	233	282 Base Case	0	54.5	-	23.41	0	0.20%
242527 05N	242527 05M FUNK	247470	05MFUNK2_XFL	2 345/138	205 AEP	732	828 Base Case	0	171.3	-	23.41	0	-0.09%
238629 020	238629 02CLVRDL	239354	02HARMON	2 13	8 202 ATSI	448	516 Base Case	0	-104.8	-	23.4	0	0.01%
238629 020	238629 02CLVRDL	239354	02HARMON	1 13	8 202 ATSI	448	516 Base Case	0	-104.8	-	23.39	0	0.01%
238530 027	238530 02ALLEN	238500	02ALLEN-1	1 345/138	202 ATSI	492	632 Base Case	0	114.9	-	23.35	0	0.29%

244868 05E	244868 05BRICE	246760	05REFUGE	1	138	205 AEP	191	222 Base Case	0	-44.6	-	23.35	0	0.05%
242684 05	242684 05J. FEBB	242859	0.5WYTHE2	1	138	205 AEP	287	337 Base Case	0	67	-	23.33	0	-0.09%
238569 025	238569 02BEAVER	239289	02HAVES	1	345	202 ATST	1508	1844 Base Case	0	-351 6	_	23.31	0	3 36%
240050 021	230303 02BEAVER	235205	OF DACKARD DD	1	120	202 AISI	2500	207 Dase Case	0	551.0		23.31	0	0.02%
242959 05E	242939 03BELDVL	244943	OSPACKARD BP	1	130	205 AEP	201	327 Base Case	0	-30.5	-	23.3		-0.05%
242509 05A	242509 05AXTON	242545	USAXTONX	1	/65/138	205 AEP	801	906 Base Case	0	186.5	-	23.28	0	1.06%
239079 028	239079 02S EAST	239242	02HOLT-A	1	138	202 ATSI	194	237 Base Case	0	-45.1	-	23.27	0	-0.10%
243222 051	243222 05FALL C	243292	05FALL C	2 3	345/138	205 AEP	713	765 Base Case	0	165.8	-	23.26	0	0.45%
253005 09E	253005 09BATH	253106	09NCARLI	1	138	209 DAY	301	374 Base Case	0	69.9	-	23.21	0	-0.09%
246187 050	246187 05WARTON H2	246191	05WARTON MKW Z1		138	205 AEP	293	341 Base Case	0	68	-	23.21	0	0.00%
242984 050	242984 05CHATFL	932050	AC2-015 TAP	1	138	205 AEP	136	167 Base Case	0	31.5	-	23.15	0	0.20%
243024 05H	243024 05HOWARD	932050	AC2-015 TAP	1	138	205 AEP	136	167 Base Case	0	-31.4	-	23.11	0	0.20%
241929 027	241929 02AV03	241930	02AV04	1	138	202 ATST	999	999 Base Case	0	-230.8	-	23.11	0	0.82%
242720 05N	242720 05MONETA	243892	05MEADS8	1	138	205 AEP	409	409 Base Case	0	94 5	-	23.1	0	-0 14%
240348 020	240348 02GROVWD013	241935	02CLINTON ZL	-	138	202 ATST	347	423 Base Case	0	-80 1	_	23.09	0	0.00%
245977 050	245977 05CDICTMILI	245002	05CDICEMTII	1 1	245/120	205 AFD	450	450 Base Case	0	102.0	_	23.05	0	-0.00%
243377 030	245577 OSGRISIMILL	243903	ODGRISIMILL ODWD DWW		120	203 AEF	450	4JU Base Case	0	103.9	_	23.00	0	-0.08%
238746 020	238746 02GALION	239308	02MR-ETH	1	138	202 ATS1	101	194 Base Case	0	37.1	-	23.04		-0.16%
242719 USM	242/19 05MONEL	242765	U5REUSENS1	1	138	205 AEP	388	409 Base Case	0	89.3	-	23.02	0	0.18%
243674 05E	243674 05BELHAV	243681	05CHADWICK1	1	138	205 AEP	251	251 Base Case	0	-57.7	-	23	0	-0.05%
243139 050	243139 05WAGENHALS2	246267	05WAGENHALS1 Z1		138	205 AEP	329	361 Base Case	0	-75.6	-	22.99	0	0.21%
242641 05E	242641 05FOREST	242734	05NEWLDN	1	138	205 AEP	167	240 Base Case	0	-38.4	-	22.98	0	-0.09%
243532 05F	243532 05KIRK	244020	05MINK	1	138	205 AEP	338	338 Base Case	0	77.7	-	22.98	0	-0.10%
242537 052	242537 05AMOS	242617	05DALEWD	1	138	205 AEP	296	398 Base Case	0	68	-	22.97	0	0.07%
244866 051	244866 05THORPE SS	247152	05GARY	1	138	205 AEP	296	398 Base Case	0	-67.8	-	22.89	0	0.18%
238772 020	238772 02GTQ-12	238793	02HDGQ12	1	138	202 ATSI	273	332 Base Case	0	-62.5	-	22.88	0	-0.14%
250050 081	250050 08KMPER1	250082	08P.UN1	1	138	212 DE0&K	299	299 Base Case	0	-68.4	-	22.87	0	-0.12%
242512 050	242512 05CLOVBD	242514	0.5.J.FERR	1	765	205 AEP	3859	3859 Base Case	0	-881.3	-	22.84	0	8,71%
238570 02F	238570 02BEAVEB	241932	02AMH.MUN2	1	138	202 ATSI	498	573 Base Case	0	113.6	-	22.81	0	0.45%
247106 051	247106 05VABNEB	247108	05SOWERS	1	138	205 AEP	257	360 Base Case	0	58.6	-	22.8	0	0.63%
253057 090	253057 09088	253111	09MTDDLE	1	138	209 DAY	185	185 Base Case	0	-42 2	-	22.8	0	-0.12%
242556 055	242556 05BLUEFLD AV	242707	05LOWESM	1	138	205 AEP	251	251 Base Case	0	-57 2	_	22.78	0	0.12%
242124 055	242124 05W CANTONI	245707	05HOMBON2 71	-	120	205 AED	124	497 Bago Caso	0	06 5	_	22.70	0	0.2270
243134 030	243134 05W.CANTONI	243797	OF DUTION 21	-	100	205 AEF	424	407 Base Case	0	50.5	_	22.70	0	0.0476
242979 030	242979 USCANNELV SS	246010	03PHILO2	1	100	205 AEP	223	310 Base Case	0	-30.8	-	22.76		-0.44%
238386 UZE	238386 02BRK51D	238906	02LNGVEW	1	130	202 AISI	100	192 Base Case	0	34.0	-	22.75		-0.22%
243051 051	243051 USNDELPH	24/864	USLOGTOWN	1	138	205 AEP	296	413 Base Case	0	-67.2	-	22.1	0	0.55%
242738 050	242738 USOREBANK_BP	242850	05WOLFH1	1	138	205 AEP	167	167 Base Case	0	-37.9	-	22.67	0	-0.40%
242924 05F	242924 05HANG R	242927	05MARQUI	1	765	205 AEP	4047	4571 Base Case	0	917.4	-	22.67	0	-0.93%
243481 050	243481 05CANAL	243586	05WHITER	1	138	205 AEP	209	209 Base Case	0	-47.4	-	22.66	0	0.11%
243085 055	243085 05S CAD	247016	05GABLSS	1	138	205 AEP	185	185 Base Case	0	-41.9	-	22.65	0	-0.37%
243138 050	243138 05W.LIBERTYZ	243347	05TIDD 3-4	2	138	205 AEP	187	205 Base Case	0	-42.4	-	22.65	0	-0.26%
243497 051	243497 05DELANO	247862	05TUSCANY	1	138	205 AEP	383	449 Base Case	0	86.8	-	22.65	0	0.01%
238819 021	238819 02ILQ-12	239050	02PV Q2	1	138	202 ATSI	225	295 Base Case	0	-50.9	-	22.64	0	0.14%
238871 021	238871 02KY-HS	239154	02W.FREM	1	138	202 ATSI	251	290 Base Case	0	-56.7	-	22.59	0	-0.04%
238985 021	238985 02NASQ18	240248	02DLQ-18	1	138	202 ATSI	137	174 Base Case	0	-30.9	-	22.58	0	0.02%
238557 02E	238557 02B.M.F.	238715	02FERNWY	1	138	202 ATSI	212	239 Base Case	0	-47.7	-	22.51	0	-0.02%
238597 020	238597 02CAD017	238984	02NAS017	1	138	202 ATSI	137	174 Base Case	0	30.8	-	22.49	0	0.03%
242945 055	242945 0.5SW LTM	243122	0.5SW LITM	2 3	345/138	205 AEP	495	544 Base Case	0	111.3	-	22.48	0	-0.22%
239030 020	239030 020TTAWA	239154	02W.FREM	1	138	202 ATSI	251	290 Base Case	0	-56.4	-	22.47	0	-0.04%
238853 028	238853 02KDTP01	239001	02NFLD01	1	138	202 ATST	273	332 Base Case	0	-61 3	-	22 47	0	0.18%
243099 054	243099 05SHAWNR	243122	0.5SW LIM	1	138	205 AEP	335	388 Base Case	0	-75 2	-	22.44	0	-0.37%
243217 055	243217 05DEOUTN	243878	05MEADOW	1	345	205 AFP	1400	1959 Base Case	0	316 2	-	22 44		0.52%
238852 031	238853 02KDmpo1	230000	021E 0-1	1	120	203 AD1	1705	332 Base Case	0	G1 0	_	22.77		0.02/0
238570 025	238570 02PEAVED	238845	02 TONSON	1	120	202 7131	213	282 Base Case	0	52 1	-	22.37		0.00%
242607 054	242607 05CT OUDD	230043	05MT UNITON	1	120	202 7131	200	335 Baco Case	0	JZ.1	_	22.37		-0.01%
242585 054	242585 05CAVE CDD17	244/40	059111.011101	1	120	205 AEP	107	240 Base Case	0	0.1	_	22.37		-0.01%
242303 030	242505 USCAVE SPRIZ	240981	OSW KINCOPEO 21	T	130	205 AEP	187	240 Base case	0	-41.8		22.30		-0.09%
242049 030	242049 UOW.KINGSPTI	243220	OSDAKED		138	205 AEP	307	SU/ Base Case	0	-68.6		22.30		0.15%
∠4∠⊃∠3 U5E	Z4Z5Z3 USBAKER	2436/0	UJBAKEK	2	343/138	ZUS AEP	805	861 Base Case	0	1/9.9	-	22.35	U	0.00%

246606 050	246606 05WETZEL SS	247165 05SRUNSS	1	138	205	AEP	226	286 Base Case	0	50.5	-	22.34	0	0.00%
238629 020	238629 02CLVRDL	239123 02STAR	1	138	202	ATSI	233	282 Base Case	0	51.9	-	22.29	0	0.03%
238871 021	238871 02KY-HS	239030 020TTAWA	1	1.38	202	ATST	251	290 Base Case	0	55.9	-	22.28	0	-0.04%
238569 02F	238569 02BEAVER	239725 02LAKEAVE	1	345	202	ATST	1.380	1646 Base Case	0	307.2	-	22.26	0	2.23%
238854 028	238854 02KDTPO3	238883 02LE 0-3	1	138	202	ATST	273	332 Base Case	0	60 7	-	22 25	0	0.00%
242739 050	242739 050BEBANK	242798 05SHORT	1	138	205	AEP	187	205 Base Case	0	-41 6	_	22.23		0.10%
243161 059	243161 057ANESV	247083 05NPHISS	1	138	205	AEP	150	212 Base Case	0	-33 3	_	22.20	0	-0.22%
243318 051	243318 05 IACKSON PD	247005 05NTH155	2	138	205	AFP	185	255 Base Case	0	/1 1	_	22.2	0	0.22%
220520 030	222522 023ETTNA	243303 031WIN B	1	120	203	ADI	222	200 Base Case	0	-51 6	_	22.2	0	-0.18%
230520 022	220526 0200000	220105 02MTLTDN	1	120	202	AISI	152	102 Base Case	0	-22.0		22.15		-0.18%
238386 UZE	238386 02BRK51D	239195 02MILIRN	1	130	202	AISI	100	192 Base Case	0	-33.9	-	22.15		0.45%
238843 023	238843 02JONSON	239728 02LAREAVE	2	130	202	AISI	100	192 Base Case	0	-35.4	-	22.14		-0.09%
250013 081	250013 08DIMICK	250083 08P.UN2	1	138	212	DEO&K	198	198 Base Case	0	-43.8	-	22.13	0	0.14%
238821 021	238821 U2INLAND	239358 U2GLENWILLOW	1	345	202	ATSI	1542	1878 Base Case	0	-340.8	-	22.1	0	-0.66%
239280 020	239280 02CRNBRY	239281 02CRNBRY	2	500/138	202	ATSI	/51	902 Base Case	0	165.7	-	22.06		-0.46%
239280 020	239280 02CRNBRY	239281 02CRNBRY	1	500/138	202	ATSI	751	902 Base Case	0	165.7	-	22.06	0	-0.46%
243068 05N	243068 05NZANEV	243161 05ZANESV	1	138	205	AEP	205	284 Base Case	0	45.2	-	22.04	0	0.08%
243572 058	243572 05SHANON	244232 05SHANONRSS8	Z1	138	205	AEP	329	350 Base Case	0	-72.5	-	22.03	0	0.01%
238854 021	238854 02KDTPQ3	239003 02NFLDQ3	1	138	202	ATSI	273	332 Base Case	0	-60.1	-	22.03	0	0.18%
242619 051	242619 05DANVL1	242771 05RIVERS	1	138	205	AEP	251	251 Base Case	0	55.3	-	22.01	0	0.05%
239134 021	239134 02TANGY	240706 02NATIONAL	1	138	202	ATSI	233	282 Base Case	0	51.3	-	22	0	-0.06%
243674 05E	243674 05BELHAV	243676 05BELLF2	1	138	205	AEP	219	251 Base Case	0	48	-	21.92	0	-0.05%
238733 021	238733 02FOXQ12	241935 02CLINTON	1	138	202	ATSI	347	423 Base Case	0	75.8	-	21.83	0	-0.15%
242573 050	242573 05CABELL	242866 05MERRIT	1	138	205	AEP	167	167 Base Case	0	-36.5	-	21.83	0	0.11%
242842 050	242842 05W HUNT	244462 05SHOALS	1	138	205	AEP	335	392 Base Case	0	73.1	-	21.83	0	0.03%
238531 027	238531 02ALLNJ	239129 02SYLVNA	1	138	202	ATSI	308	376 Base Case	0	67.2	-	21.8	0	0.22%
243254 05E	243254 05BURNWO	247433 05CHARGER	1	138	205	AEP	251	335 Base Case	0	-54.7	-	21.79	0	0.32%
238530 02 <i>F</i>	238530 02ALLEN	256583 18MOROCCO	1	345	202/218	ATSI/METC	1517	1793 Base Case	0	-330.1	-	21.76	0	3.02%
249989 08E	249989 08BKJ246	250000 08COLDSP	1	138	212	DEO&K	264	264 Base Case	0	57.4	-	21.74	0	-0.05%
242823 051	242823 05TACKCR	242836 05TURNE1	1	138	205	AEP	296	296 Base Case	0	64.3	-	21.73	0	0.08%
243297 050	243297 05GERMAN	243353 050LIVE	1	138	205	AEP	257	330 Base Case	0	-55.8	-	21.73	0	0.43%
242646 05E	242646 05FT.ROB SS	245802 05FT.ROBINSN	Z1	138	205	AEP	164	180 Base Case	0	35.6	-	21.7	0	0.03%
243688 055	243688 05S.PORT MTR	244686 05VANCEBURG	Z1	138	205	AEP	29	29 Base Case	0	6.3	-	21.67	0	0.00%
242765 05F	242765 05REUSENS1	246229 05REUSENS2	Z1	138	205	AEP	136	167 Base Case	0	29.5	-	21.67	0	0.16%
243312 05F	243312 05HUMMEL	243367 05ROCKCR	1	138	205	AEP	251	273 Base Case	0	54.3	-	21.64	0	0.14%
243217 051	243217 05DEQUIN	243878 05MEADOW	2	345	205	AEP	1409	1959 Base Case	0	304.8	-	21.63	0	0.50%
242925 05F	242925 05KAMMER	242937 05KAMMER	4	765/345	205	AEP	1678	1868 Base Case	0	362.9	-	21.63	0	1.79%
242609 050	242609 05CLYTR2	242721 05MORGAN	1	138	205	AEP	167	167 Base Case	0	36.1	-	21.63	0	-0.12%
242572 05E	242572 05BURLHT	242607 05CLOVRD	1	138	205	AEP	219	223 Base Case	0	-47.3	-	21.61	0	-0.17%
243292 05E	243292 05FALL C	246656 05PENDLETON2	1	138	205	AEP	219	251 Base Case	0	47.3	-	21.61	0	0.12%
250043 08H	250043 08HANDS2	250047 08KENTN1	1	138	212	DEO&K	301	301 Base Case	0	65	-	21.6	0	0.00%
242529 051	242529 05TRISTA	242835 05TRISTA	2	345/138	205	AEP	504	540 Base Case	0	108.9	-	21.6	0	-0.01%
243049 051	243049 05NATRIUM12	243123 05SWITZE	1	138	205	AEP	187	240 Base Case	0	40.4	-	21.59	0	-0.24%
238626 020	238626 02CLAYBN	238873 02LAKMOR	1	138	202	ATSI	157	196 Base Case	0	33.9	-	21.59	0	0.08%
242674 05H	242674 05HUFFCK	242779 05RUMCKZ	1	138	205	AEP	296	413 Base Case	0	63.9	-	21.58	0	-0.15%
242964 05E	242964 05BOLIVA	243060 05NINTIE	1	138	205	AEP	291	291 Base Case	0	62.8	-	21.58	0	-0.69%
239318 02H	239318 02HENRTA	239319 02CAMDEN	1	138	202	ATSI	158	190 Base Case	0	33.9	-	21.43	0	-0.21%
242791 055	242791 05SCHRIS	243874 05TECHDR	1	138	205	AEP	158	167 Base Case	0	-33.8	-	21.42	0	-0.24%
243242 057	243242 05ALLEN	243877 05DAWKNS	1	138	205	AEP	167	245 Base Case	0	35.7	-	21.41	0	-0.13%
243207 050	243207 05GRNTWN	243208 05JEFRS0	1	765	205	AEP	4047	4571 Base Case	0	-864.2	-	21.35	0	-8.81%
243572 054	243572 05SHANON	246760 05REFUGE	1	138	205	AEP	2.0.9	209 Base Case	0	44.6	-	21.35	0	0.01%
242951 052	242951 05ADDTSONZ	243013 05GAVIN1	1	138	205	AEP	167	167 Base Case	0	35 6	-	21 34		0.03%
246325_05N	246325 05NOTTINGH56	247131 05HOLLOWAY12	5	138	205	AEP	278	339 Base Case	0	-59 3	-	21.33	0	0.03%
247131 054	247131 05HOLLOWAY12	247460 05NOTTINGH34	6	138	205	AEP	278	339 Base Case	0	59.3	-	21.32		0.03%
243242 052	243242 05ALLEN	243391 05WAYNET	1	138	205	AEP	260	260 Base Case	0	55 4	-	21.32		-0.36%
242935 055	242935 05E LIMA	246929 05MADDOX	1	345	205	AEP	1868	1868 Base Case	0	-397 8	-	21.3		3.86%
244658 054	244658 05CRNTWN	249719 08DELCO	1	138	205/209	AEP/DET	179	178 Base Case	0	37 0	-	21.29		-0 15%
211000 000	2 1 1 3 3 0 0 3 3 1 1 1 1 1	219/19 000000000	1 1	100	200/200		110	TIO DUDC CASE	0	51.5	I	L + • L J	~	0.10/0

242914 051	242914	05TIDD C XFL	243129	05TIDD C X	ZC	138	205 AEP	670	783 Base Case	0	142.6	-	21.28	0	-0.05%
238664 021	238664	02DOBINS	240214	02PENNANTTAP	1	138	202 ATSI	278	339 Base Case	0	-59.1	-	21.24	0	0.05%
239133 021	239133	02TANGY	239134	02TANGY	5	345/138	202 ATSI	516	655 Base Case	0	109.5	-	21.22	0	0.01%
240246 020	240246	02CK 015	240247	02CK TP15	1	138	202 ATSI	100	129 Base Case	0	-21.2	-	21.21	0	0.00%
243585 050	243585	05WAVERL	246942	05WARERD	1	138	205 AEP	223	310 Base Case	0	47.3	-	21.21	0	-0.16%
239056 02F	239056	02R.M. +	239062	02REACMT	1	138	202 ATSI	57	57 Base Case	0	12.1	-	21.21	0	0.00%
243471 05F	243471	0.5BETHEL	243560	0.5ROBERT	2	1.38	205 AEP	223	226 Base Case	0	-47.2	-	21.18	0	0.02%
243536 051	243536	05LS-II	243539	05MARION	1	138	205 AEP	426	426 Base Case	0	90.1	-	21.15	0	-0.14%
242712 05N	242712	0.5MARTN2	242744	0.5 PATCTR	1	1.38	205 AEP	293	341 Base Case	0	62	-	21.14	0	0.08%
243003 055	243003	0.5FAYETTE Z	245615	0.5S.POINT2	1	1.38	205 AEP	167	167 Base Case	0	-35.3	-	21.12	0	0.05%
238551 027	238551	02AVON	238850	02JUNTPE	1	345	202 ATST	1228	1424 Base Case	0	259.2	-	21.11	0	2.66%
238645 020	238645	02CW TP1	241927	02AV01	1	138	202 ATST	439	516 Base Case	0	-92 6	-	21 1	0	0.37%
246752 051	246752	05VASSEL	246753	05VASSEL	3	345/138	205 AEP	680	847 Base Case	0	143.5	-	21.1	0	-0.10%
238560 025	238560	02BABB	239148	02VALLEY	1	1.38	202 ATST	200	223 Base Case	0	42.2	-	21.08	0	0.07%
243241 052	243241	05ALBION	243254	0.5BURNWO	1	138	205 AEP	219	255 Base Case	0	-46 1	-	21 05	0	0.32%
242605 050	242605	05CLNCHR	242793	05SEXTON	1	138	205 AEP	219	223 Base Case	0	46	_	21.03	0	-0 33%
238600 020	238600	02CAIRNS	239028	020NTABO	1	138	203 AEF	317	365 Base Case	0	-66 6	-	21.03	0	0.33%
245905 05N	245905	05NEW LIBR2	247513	05BOUTWELL	1	138	205 AEP	150	212 Base Case	0	-31 5	_	21.02		0.27%
242529 051	242529	05TRISTA	242835	05D001WEEE	1	345/138	205 AEP	504	540 Base Case	0	105 9	_	21.02		-0.01%
239154 020	239154	02W FREM	239290	02HAVES	1	138	202 ATST	278	339 Base Case	0	58.4	_	21.02		0.01%
242552 055	242552	05BENT M	242708	05M FUNK	1	138	202 MIDI 205 AEP	167	224 Base Case	0	-35 1	_	21.02		0.33%
243543 05N	242502	05MTLLCP	242700	05DEVOLA	1	138	205 AEP	244	282 Base Case	0	51 3	-	21.01		-0.34%
250030 081	250030	09FPDBT1	250031	03DEVOIA	71	138	203 ABI	382	382 Base Case	0	-80.2	_	20 99		-0.13%
243471 051	2/3/71	05PETUEI	2/3/79	05PRODIZ	1	138	205 AFP	389	559 Base Case	0	-81 7	-	20.33	0	0.15%
225404 014	235404	018 CUST	242990	OSE ITVD	1	120	205 ABI	107	205 Base Case	0	20.2	_	20.00		-0.00%
233404 012	233404	013 CHSI	242990	OOL NEAVE	1	120	201/203 AF/AEr	265	200 Base Case	0	-55 6	_	20.98		-0.08%
230043 020	230043	05MUCZD	239720	OZDAREAVE		120	202 AISI 205 AFD	203	794 Base Case	0	-160 6	_	20.97		0.13%
247374 055	247374	05PEECU	247433	05CNTVDD	1 1	120	205 AEF	205	284 Base Case	0	-100.0	_	20.97	0	0.24%
243249 035	243249	OSTECTE	243200	05CNTIKD	1	1.61	205 AEF	203	204 Base Case	0	-12 6	_	20.95		0.17%
243663 031	243003	OOTESLIE	243007	0.9 THINK		120	205 AEP	208	200 Base Case	0	-43.6	-	20.95	0	-0.14%
220702 001	230113	OOLADDIN	220120	02400014	1 1	245/120	202 ATCT	207	199 Base Case	0	02.7	_	20.9		-0.11%
230785 021	230703	02NEWOEDCV	230793	02RDGQ14	1	120	202 AISI	397	400 Base Case	0	57.4	_	20.00		-0.11%
239986 021	239900	05CTTYCO	239900	02FE-POLO	1	120	202 AISI 205 AED	273	266 Base Case	0	5/.4	-	20.00	0	0.20%
245484 050	243404	0 SCITICO	243494	OFVICED	1	120	205 AEF	202	200 Base Case	0	54.0	-	20.00		0.00%
246325 031	240323	03NOTTINGH56	247700	0 3 TAGER	1	130	205 AEP	278	339 Base Case	0	57.9	-	20.04	0	0.04%
230615 020	230013	02CF Q-4	230742	02FWLSQ4	1	130	202 AISI	200	1802 Base Case	0	202.1	-	20.01		0.37%
238613 020	230013	02CHAMBR	230703	OZHARDIN	1	343	202 AISI	1000	1092 Base Case	0	523.2	-	20.78		-0.41%
242022 033	242022	03CDNELD	244000	ODIHORPE SS	1	130	205 AEP	207	337 Base Case	0	-39.6	-	20.70	0	0.18%
230/00 020	230/00	02GRNFLD	239290	O2MD EBU	1	130	202 AISI	270	100 Dasa Case	0	-57.7	-	20.77		0.04%
222015 021	239013	O2LODEKT	239308	02CHARLESTON	1	100	202 ATSI	101	500 Bago Case	0	-33.2		20.77		-0.10%
230550 027	230513	OSPENJED	239/34	OOT AVENUE	1	138	202 ATS1	430	JUU Base Case	0	-09.9	-	20.00		2 200/
230309 UZE	230309	05DEOUTN	239125	O Q ME CEWO	2	345	202 ATS1	1025	10/0 bdse Case	U	210.0		20.64		2.29%
243217 031	243217	OSDEQUIN	249524	USWESIWZ	2	343	203/208 AEP/DEI	1025	1217 Base Case	0	210.9	-	20.57		0.03%
238/3/ UZE	238/3/	02FENKLN	240068	02STAR_FORGE	1	138	202 ATS1	200	242 Base Case	0	-41	-	20.52		0.01%
238570 02E	238570	UZBEAVER	239168	UZWELNGT	1	138	202 ATSI	278	339 Base Case	0	57	-	20.52	0	-0.11%
238746 020	238746	UZGALION	924790	ABZ-131 TAP	1	138	ZUZ ATSI	196	228 Base Case	0	40.2	-	20.51		-0.16%
238585 U2E	238585	UZBRIDGE	238737	UZFKNKLN	1	138	ZUZ ATSI	200	242 Base Case	U	-41	-	20.51		0.01%
238/// U2F	238777	UZHAMIL+	924/90	ABZ-131 TAP	1	138	202 ATS1	196	228 Base Case	0	-40.2	-	20.49		-0.16%
243127 051	243127	USTIDD 1-2	243347	USTIDD 3-4	22	138	205 AEP	946	996 Base Case	0	193.6	-	20.46		0.18%
243127 051	243127	USTIDD 1-2	243347	USTIDD 3-4	21	138	2U5 AEP	946	996 Base Case	0	193.6	-	20.46		0.18%
243139 050	243139	U5WAGENHALS2	244943	USPACKARD BP	1	138	205 AEP	287	327 Base Case	0	58.7	-	20.46		-0.03%
243072 051	243072	U5PACKARD	243134	USW.CANTON1	1	138	205 AEP	205	205 Base Case	0	41.9	-	20.45		-0.05%
242547 05E	242547	U5BAILS2	242696	USKOPPER	1	138	205 AEP	223	223 Base Case	0	45.5	-	20.4		0.08%
243528 05F	243528	U5KARL ROAD	243547	U5MORSE	1	138	205 AEP	338	338 Base Case	0	-68.8	-	20.36		-0.10%
238798 02F	238798	UZHKQ-21	239052	UZPV Q4	1	138	202 ATSI	148	151 Base Case	0	-30.1	-	20.33		-0.02%
239048 02E	239048	UZPPPINE	239281	U2CRNBRY	3	138	202 ATSI	200	241 Base Case	0	-40.7	-	20.33	0	-0.01%
243279 051	243279	USDIAMND	243304	USGUARDN	1	138	205 AEP	226	286 Base Case	0	-45.9	-	20.31	0	0.32%

243120 059	243120 05SUNNYSIDE1	246267 05WAGENHALS1	1	138	205	AEP	296	392	Base Case 0	60.1	-	20.3	0	0.30%
238666 021	238666 02DS 0-3	238672 02DW 0-3	1	138	202	ATSI	273	332	Base Case 0	-55.4	-	20.28	0	0.27%
242939 05N	242939 05MARYSV	242945 05SW LTM	1	345	205	AEP	971	971	Base Case 0	196.3	-	20.22	0	-1.04%
242922 055	242922 05FLTLCK	242923 05GAVIN	1	765	205	AEP	4047	4349	Base Case 0	-818.1	-	20.22	0	-5.46%
238734 025	238734 02F0X013	241935 02CLINTON	1	138	202	ATST	347	423	Base Case 0	70 1	-	20 22	0	-0 14%
243286 055	243286 05EDTSON2	246075 05EDTSON1	7.A	138	205	AEP	277	277	Base Case 0	-56	-	20.2	0	0.36%
242646 055	242646 05ET BOB SS	242738 050REBANK BP	1	138	205	AFP	187	205	Base Case	-37 8	_	2012	0	-0.40%
243150 050	243150 05WMTLLP	242730 03010BBHNNC_B1	1	138	205	AEP	200	200	Base Case 0	40.4	-	20.19	0	0.40%
247064 058	247064 05KANAWHA2	247068 05KANAWH ASZ	- 7.T	138	205	AEP	287	337	Base Case 0	-57.9	_	20.10	0	-0.04%
243033 051	243033 05#402880 99	247000 05HIHHHH 102	1	138	205	AFD	205	283	Base Case	-41 3	-	20.16	0	-0.02%
242569 055	242569 05BRUSHT	247172 05EBER50	1	138	205	AEP	205	203	Base Case 0	-41.3	_	20.10	0	-0.10%
239015 021	239015 02NGTAP	239018 02EULTON	1	345	203	ATST	725	865	Base Case 0	-1/5 9	_	20.10	0	0.10%
242247 055	242247 05#TDD 2-4	247775 05DTYON 88	1	120	202	AED	107	240	Base Case 0	27.6	_	20.13	0	-0.25%
243547 051	243547 0511DD 5-4	247775 05DIXON 55	1	245/120	205	AEF	107	240	Base Case 0	165 0		20.1	0	-0.23%
22202/1 001	222227 03FF FORK	220050 02DV 02	1	120	203	ADI	267	220	Base Case 0	52 6	_	20.07	0	-0.24%
238841 020	238841 020NPRQ2	239030 02PV 02	1	130	202	AISI	207	332	Base Case 0	50.0	-	20.07	0	-0.24%
243139 050	243139 05WAGENHALS2	243772 USLIV2	1	120	203	AEP	290	290	Base Case 0	-42.0	_	20.03	0	0.00%
243309 034	243309 05011110CK	243331 05WAINE1	1	130	203	AEF	219	255	Dase Case 0	-43.9	-	20.03	0	-0.30%
242982 050	242982 03CENPOR	243047 03N PORT	1	130	203	AEP	219	201	Base Case 0	-43.0	-	19.99	0	0.02%
242760 051	242760 USPROGPK	242858 USWITHEI	L 1	138	205	AEP	285	337	Base Case 0	-57	-	19.99	0	0.25%
242364 USE	242364 03BRADLI	242365 03BRADL2	41	130	203	AEP	200	200	Base Case 0	-36.9	-	19.98	0	0.10%
242682 035	242682 0301M BRANCH	242854 05W.WELCH 55	1	130	203	AEP	333	392	Base Case 0	-00.9	-	19.98	0	0.03%
238663 021	238663 02DLQ-15	238739 02FWLSQ1	1	138	202	ATSI	2/3	332	Base Case 0	-54.5	-	19.97	0	-0.03%
243159 050	243159 05WPHILO	247083 USNPHISS	1	138	205	AEP	167	245	Base Case 0	33.3	-	19.95	0	-0.22%
243528 USP	243528 USKARL ROAD	247510 USKARL RD123	21	138	205	AEP	158	183	Base Case 0	31.5	-	19.92	0	0.00%
243528 054	243528 USKARL ROAD	247510 USKARL RD123	22	138	205	AEP	158	183	Base Case 0	31.5	-	19.92	0	0.00%
243528 051	243528 05KARL ROAD	247510 05KARL RD123	Z3	138	205	AEP	158	183	Base Case 0	31.5	-	19.92	0	0.00%
239353 02F	239353 02HARMON	239354 U2HARMON	1	345/138	202	ATSI	609	689	Base Case 0	121.2	-	19.91	0	-0.05%
250037 080	250037 08GLNVW2	250049 08KLEMN2	1	138	212	DEO&K	268	268	Base Case 0	-53.3	-	19.9	0	0.21%
243581 051	243581 05TAYLOR	244020 05MINK	1	138	205	AEP	335	338	Base Case 0	-66.7	-	19.9	0	-0.10%
235383 011	235383 01PARKER	243470 05BELPRE	1	138	201/205	AP/AEP	251	290	Base Case 0	49.9	-	19.88	0	-0.33%
238831 021	238831 02IWQ-17	239211 02I0Q-17	1	138	202	ATSI	273	332	Base Case 0	54.3	-	19.88	0	0.07%
242793 055	242793 05SEXTON	245222 05W.KINGS_BP	1	138	205	AEP	205	205	Base Case 0	40.7	-	19.88	0	-0.33%
253011 090	253011 09CARGIL	253056 09NORTHR	1	138	209	DAY	196	241	Base Case 0	-38.9	-	19.87	0	0.10%
242722 051	242722 05MORLAN	245222 05W.KINGS_BP	1	138	205	AEP	205	205	Base Case 0	-40.7	-	19.85	0	-0.33%
243522 05F	243522 USHARRISON	243593 05ZUBER	1	138	205	AEP	136	167	Base Case 0	-27	-	19.84	0	0.12%
249980 087	249980 08AGSTNE	250126 08WENDWE	1	138	212	DEO&K	277	277	Base Case 0	54.9	-	19.83	0	-0.10%
253010 09E	253010 09BURDOX	253053 09NEEDMO	1	138	209	DAY	196	241	Base Case 0	38.9	-	19.83	0	-0.10%
238813 02F	238813 02HOYTDL	238866 02KOPL S	1	138	202	ATSI	278	339	Base Case 0	55	-	19.79	0	0.00%
243241 057	243241 05ALBION	243375 05SKINNR	1	138	205	AEP	219	251	Base Case 0	43.3	-	19.79	0	0.20%
243058 051	243058 05NEWARK CTR	243488 U5CONESVILLE		138	205	AEP	348	407	Base Case 0	-68.8	-	19.76	0	-0.15%
238573 02E	238573 02BELEVU	239147 02UTTP2	1	138	202	ATSI	216	264	Base Case 0	42.7	-	19.76	0	-0.16%
249986 08E	249986 U8BELVUE	250134 08YORK		138	212	DEO&K	298	298	Base Case 0	58.8	-	19.74	0	-0.03%
242616 050	242616 U5CURRY	242717 USMILTON	1	138	205	AEP	167	167	Base Case 0	33	-	19.74	0	-0.09%
238801 02H	238801 02HL Q-2	238811 02HO Q-2	1	138	202	ATSI	205	265	Base Case 0	-40.5	-	19.74	0	-0.01%
242552 05E	242552 05BENT M	242601 05CLEARB	1	138	205	AEP	158	183	Base Case 0	31.2	-	19.73	0	0.12%
238538 022	238538 02APRQ-1	238810 02HO Q-1	1	138	202	ATSI	265	349	Base Case 0	52.1	-	19.66	0	-0.02%
239353 02F	239353 02HARMON	239354 02HARMON	2	345/138	202	ATSI	612	693	Base Case 0	120.3	-	19.66	0	-0.05%
243285 05E	243285 05E.SIDE	243380 05STDBKR	1	138	205	AEP	251	251	Base Case 0	-49.3	-	19.63	0	-0.16%
242669 05H	242669 05HOLST1	360476 4BOONE HP	1	138	205/347	AEP/TVA	191	191	Base Case 0	-37.5	-	19.63	0	0.15%
238560 021	238560 02BABB	239161 02WAKRON	1	138	202	ATSI	200	242	Base Case 0	-39.2	-	19.62	0	0.13%
243578 055	243578 05STRODZ	243579 05STROUD	1	138	205	AEP	149	180	Base Case 0	29.2	-	19.59	0	-0.01%
250100 085	250100 08SMRSD1	250158 088MIRDJ	1	138	212	DEO&K	301	301	Base Case 0	-59	-	19.59	0	0.02%
243778 051	243778 05TIMKEN B	245001 05TIMKEN C	Z1	138	205	AEP	285	302	Base Case 0	-55.8	-	19.56	0	-0.12%
243014 050	243014 05GRBLOP	245476 05ROB PK34	1	138	205	AEP	219	255	Base Case 0	-42.8	-	19.56	0	0.40%
243313 05H	243313 05HUNT J	243367 05ROCKCR	1	138	205	AEP	257	337	Base Case 0	-50.2	-	19.53	0	0.14%
239217 02F	239217 02REEDSB	246325 05NOTTINGH56	1	138	202/205	ATSI/AEP	233	282	Base Case 0	-45.4	-	19.5	0	-0.25%

243161 052	243161 05ZANESV	247497 05CLOUSE	1	138	205	AEP	150	167 Base Case	0	29.2	-	19.49	0	-0.14%
243526 051	243526 05HYATT	247199 05AMLTN	1	138	205	AEP	564	747 Base Case	0	109.7	-	19.46	0	-0.03%
243003 055	243003 05FAYETTE Z	243095 05SCOTTOWNSS	1	138	205	AEP	167	167 Base Case	0	32 5	-	19 44	0	0.05%
243492 050	243492 05COBWIN	247791 05ELK	1	138	205	AEP	219	255 Base Case	0	42 5	_	19.42	0	0.10%
242607 050	242607 05CLOVRD	243883 05LAKEER	1	138	205	AEP	205	284 Base Case	0	39.8	_	19.12		0.10%
247132 055	247132 05ELLISN	247831 05DAIMATN SS	1	138	205	AFP	203	341 Base Case	0	56.8	_	19.35		0.03%
247132 035	247132 05ELLISN	247631 03DALMAIN 33	1	245	200	AEF	1100	1400 Dase Case	0	20.0	_	19.38		1 010/
243213 030	243213 03COOK	243229 030LIVE	1	120	203	AEP	1100	1409 Base Case	0	230	-	19.36	0	-4.01%
242346 USE	242346 USBAILSI	242339 03B0L1 Z	1	138	203	AEP	223	223 Base Case	0	43.1	-	19.33		0.10%
240346 020	240346 02GROVWDQ11	241935 02CLINTON	ZL	138	202	ATSI	347	423 Base Case	0	-67.1	-	19.33		0.00%
242593 050	242593 05CHEM 2	242617 05DALEWD	1	138	205	AEP	296	398 Base Case	0	-57.1	-	19.28	0	0.07%
239076 02F	239076 02ROSS	239237 02CLVR-S	1	138	202	ATSI	251	290 Base Case	0	-48.4	-	19.26	0	-0.60%
243560 05F	243560 05ROBERT	243588 05WILSON	1	138	205	AEP	196	247 Base Case	0	37.7	-	19.23	0	-0.02%
242989 058	242989 05E LIMA	243066 05NW LIM	1	138	205	AEP	205	205 Base Case	0	39.4	-	19.21	0	0.00%
243485 050	243485 05CLINTO	243576 05ST.CLX	1	138	205	AEP	142	179 Base Case	0	27.3	-	19.2	0	0.09%
242752 051	242752 05PINCKZ	242753 05PINECK	1	138	205	AEP	52	52 Base Case	0	10	-	19.2	0	0.00%
242631 05E	242631 05EDAN 1	242632 05EDAN 2	Z1	138	205	AEP	296	296 Base Case	0	-56.8	-	19.2	0	-0.48%
242586 050	242586 05CAVE SPR2Z	242815 05STARKE	1	138	205	AEP	187	240 Base Case	0	-35.9	-	19.2	0	0.06%
243491 050	243491 05CORRID	243856 05JUG ST 1-6	1	138	205	AEP	747	747 Base Case	0	143.4	-	19.2	0	0.08%
243499 051	243499 05DUBLIN	247199 05AMLIN	1	138	205	AEP	296	413 Base Case	0	-56.8	-	19.19	0	0.03%
243219 051	243219 05DUMONT	243918 05ELDERBERRY	1	345	205	AEP	1409	1868 Base Case	0	-270.3	-	19.18	0	2.74%
242586 050	242586 05CAVE SPR2Z	242663 05HANCK1	1	138	205	AEP	187	205 Base Case	0	35.9	-	19.18	0	0.06%
242945 058	242945 05SW LIM	243122 05SW LIM	1	345/138	205	AEP	574	579 Base Case	0	110.1	-	19.18	0	-0.21%
243698 05N	243698 05MORGFK	244688 05BEAVER CR2	1	138	205	AEP	223	223 Base Case	0	-42.7	-	19.16	0	0.11%
238954 021	238954 02MCDOWL	239934 O2HEASLEY	1	138	202	ATSI	176	229 Base Case	0	-33.7	-	19.14	0	0.39%
243260 050	243260 05CNTYRD	243356 050S0L01	1	138	205	AEP	164	180 Base Case	0	31.4	-	19.14	0	0.17%
243765 05E	243765 05FORD LIMA1	246155 05FORD LIMA2	Z1	138	205	AEP	219	255 Base Case	0	-41.9	-	19.13	0	-0.01%
239728 02E	239728 02BLKRVR	239739 02CROMWELL	2	138	202	ATSI	233	282 Base Case	0	44.5	-	19.11	0	0.23%
239728 02E	239728 02BLKRVR	239739 02CROMWELL	1	138	202	ATSI	233	282 Base Case	0	44.5	-	19.11	0	0.23%
250026 08B	250026 08FLDMN2	250095 08RMNTN2	1	138	212	DEO&K	198	198 Base Case	0	37.8	-	19.1	0	0.07%
238598 020	238598 02CAD018	240248 02DLO-18	1	138	202	ATSI	237	287 Base Case	0	45.2	-	19.08	0	0.02%
242564 055	242564 05BBADL1	242758 05POLEYD	1	1.38	205	AEP	205	205 Base Case	0	39.1	-	19.06	0	-0.08%
243278 050	243278 05DESOTO	246629 05SELMA P BP	1	138	205	AEP	185	185 Base Case	0	35.2	-	19.05	0	0.29%
243878 05N	243878 05MEADOW	255205 17BEYNOLDS	2	345	205/217	AEP/NTPS	1868	1868 Base Case	0	355 7	-	19.00	0	0.49%
242946 051	242946 057700	247797 05STEMPLE	1	345	200,211	AEP	1025	1318 Base Case	0	195.2	_	19.01		-0.53%
243344 05N	243344 05MODOC	246629 05SFIMA P PP	1	138	205	AFP	185	185 Base Case	0	-35.2	_	19.01		0.35%
240080 085	249989 08PK 1246	250080 08NWTWN2	1	138	203	DEOCK	332	332 Base Case	0	63 1	_	19.01	0	-0.08%
242006 051	243006 05E08TOD	230000 000000000	1	120	212	AED	145	145 Base Case	0	27 5	_	19.01		0.00%
243000 031	243000 05F0310R	244341 0330FTATL 33	1	245	205	AEF	1900	14J Base Case	0	27.5	_	10.99		0.04%
243878 USP	243878 05MEADOW	255205 I/REINOLDS	1	120	203/21/	AEP/NIP5	105	2000 Base Case	0	304.0	-	10.90	0	0.46%
243368 USF	243366 USRUSEHI	248656 USPENDLETONZ	1	138	203	AEP	195	220 Base Case	0	- 37	-	10.97		-0.10%
243013 050	243013 05GAVIN1	243069 USFIREBR	1	138	205	AEP	185	185 Base Case	0	35.1	-	18.95	0	-0.17%
243696 USP	243696 USRIELEC	246885 USMOURE HOLW	1	138	205	AEP	296	413 Base Case	0	50	-	18.93		-0.05%
238768 020	238768 U2GRNFLD	238874 U2LAKVEW	1	138	202	ATSI	320	385 Base Case	0	-60.5	-	18.92	0	0.75%
238731 021	238731 02FOX	238783 02HARDIN	2	345	202	ATSI	1195	1195 Base Case	0	-226	-	18.92	0	-0.55%
238851 021	238851 02KD Q-1	238882 02LE Q-1	1	138	202	ATSI	273	332 Base Case	0	-51.6	-	18.91	0	0.00%
243231 05F	243231 05ROB PK	255105 17HIPLE	1	345	205/217	AEP/NIPS	1409	1409 Base Case	0	-266.4	-	18.91	0	2.1/%
243524 05F	243524 05HESS NORTH	243551 050SU	1	138	205	AEP	187	240 Base Case	0	-35.3	-	18.9	0	0.03%
242958 05E	242958 05BATTLE	243138 05W.LIBERTYZ	2	138	205	AEP	205	205 Base Case	0	-38.7	-	18.86	0	-0.26%
242952 055	242952 O5SHEPLER SS	245001 05TIMKEN C	1	138	205	AEP	296	361 Base Case	0	55.8	-	18.84	0	-0.12%
238586 02E	238586 02BRKSID	246325 05NOTTINGH56	1	138	202/205	ATSI/AEP	233	282 Base Case	0	-43.9	-	18.84	0	-0.25%
243291 05E	243291 05ENGLER	247132 05ELLISN	1	138	205	AEP	296	361 Base Case	0	-55.7	-	18.83	0	0.08%
239040 021	239040 02PGTP12	239057 02LRCRQ4	1	138	202	ATSI	148	151 Base Case	0	-27.8	-	18.8	0	-0.15%
238959 021	238959 02MFLDQ4	239040 02PGTP12	1	138	202	ATSI	148	151 Base Case	0	-27.8	-	18.8	0	-0.15%
242998 05E	242998 05EPOINT	243070 050HIOCT	1	138	205	AEP	205	255 Base Case	0	-38.4	-	18.75	0	0.16%
238817 021	238817 02IKQ-18	238840 02JNPRQ1	1	138	202	ATSI	223	286 Base Case	0	-41.8	-	18.73	0	0.05%
242676 05H	242676 05HUNTCT	247631 05BENNINGTON	1	138	205	AEP	329	361 Base Case	0	61.6	-	18.73	0	-0.14%
239161 020	239161 02WAKRON	239614 02BATH	1	138	202	ATSI	196	242 Base Case	0	36.7	-	18.73	0	0.04%

Shall Solver 24222 State Modern and Labora	243098 055	243098	05SHARPR	243153	05WMTVER	1	138	205 AEP	158	183 Base Case	0 29.6	-	18.72	0	-0.09%
2132 B 2132 B 2122 B 212	243217 051	243217	05DEQUIN	249525	08WESTWD	1	345	205/208 AEP/DEI	1025	1217 Base Case	0 191.9	-	18.72	0	0.04%
2113 b (2) 2113 b (2) 2113 (2)	247133 05F	247133	05ROCKP WRK1	243239	05ROCKP WRK1	7	765/138	205 AEP	98	111 Base Case	0 18.3	-	18.71	0	0.00%
22998 23998 23998 2399 <	247135 055	247135	0.5ROCKP WRK2	243240	0.5ROCKP WRK2	8	765/138	205 AEP	98	111 Base Case	0 18.3	-	18.71	0	0.00%
19.94 19.440 </td <td>243580 058</td> <td>243580</td> <td>05SULVNT</td> <td>243854</td> <td>0.5REAVER</td> <td>1</td> <td>1.38</td> <td>205 AEP</td> <td>223</td> <td>267 Base Case</td> <td>0 -41.6</td> <td>-</td> <td>18.67</td> <td>0</td> <td>0.11%</td>	243580 058	243580	05SULVNT	243854	0.5REAVER	1	1.38	205 AEP	223	267 Base Case	0 -41.6	-	18.67	0	0.11%
39377 00 2017 2010 2017 00	241901 021	241901	02LALLENDORF	264612	19MON12	1	345	202/219 ATST/ITCT	1486	1702 Base Case	0 -277.3	-	18.66	0	3.65%
20229 68 42292 50 24000 CP 238 C2 BUP C6 2058 Desc Desc <thdesc< th=""> <thdesc< th=""> <thdesc< th=""></thdesc<></thdesc<></thdesc<>	238772 020	238772	02GTO-12	238819	02110-12	1	138	202 ATST	273	332 Base Case	0 -50 9	-	18 65	0	0.14%
231946 231949 22019 22019 2	242978 050	242978	05CANALR	243000	0.5EWOOST	1	1.38	205 AEP	205	205 Base Case	0 38.2	-	18.64	0	-0.16%
92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 92997 9200 9297 9200 9297 9200 9297 9200 9297 92000 9200 9200 9	238908 021	238908	02LONDON	240709	02N TITUS	1	138	202 ATST	176	229 Base Case	0 32 8	-	18 63	0	-0.12%
24807 0000007 240000 000007 240000 0000007 240000 0000007 240000 0000007 00000007 00000000 000000000 00000000000 000000000000000000000000000000000000	238797 021	238797	02HGHLND	239056	02R 11105	1	138	202 ATST	157	196 Base Case	0 29 3	_	18.62	0	0.12%
Desp Desp <th< td=""><td>247807 051</td><td>247807</td><td>05ROUSE</td><td>247833</td><td>05LAMPING</td><td>1</td><td>138</td><td>202 AISI 205 AEP</td><td>257</td><td>360 Base Case</td><td>0 -47 8</td><td>_</td><td>18.62</td><td>0</td><td>0.01%</td></th<>	247807 051	247807	05ROUSE	247833	05LAMPING	1	138	202 AISI 205 AEP	257	360 Base Case	0 -47 8	_	18.62	0	0.01%
1211 132 125 13 <th< td=""><td>238933 021</td><td>238033</td><td>021 20014</td><td>238951</td><td>02MB0-14</td><td>1</td><td>138</td><td>202 7001</td><td>324</td><td>305 Base Case</td><td>0 -60 2</td><td>_</td><td>18 59</td><td>0</td><td>-0.16%</td></th<>	238933 021	238033	021 20014	238951	02MB0-14	1	138	202 7001	324	305 Base Case	0 -60 2	_	18 59	0	-0.16%
S1214 GO S2	242511 055	242511	05BBOADE	230551	05PBOADE	1	765/120	205 AED	524	606 Base Case	0 120	_	10.55	0	-0.21%
1331 1332 1332 1333 133 133 133	242511 056	242511	05CLOVED	242500	05M FUNK	1	245	205 AEP	1025	1122 Base Case	0 100 5		10.55	0	-0.31%
Cartery of a status Construct and a status <td>242524 050</td> <td>242024</td> <td>OSCLOVED</td> <td>242327</td> <td>O SM FONK</td> <td>1</td> <td>120</td> <td>205 AEP</td> <td>1025</td> <td>261 Base Case</td> <td>0 190.3</td> <td>-</td> <td>10.39</td> <td>0</td> <td>-1.10%</td>	242524 050	242024	OSCLOVED	242327	O SM FONK	1	120	205 AEP	1025	261 Base Case	0 190.3	-	10.39	0	-1.10%
And Lag Big	243261 050	243261	05COLBITAPSS	243386	USVALLY	1	138	205 AEP	296	361 Base Case	0 55	-	18.58	0	0.05%
1211 0 2431 0 2433 0 0500000 1.33 201 Max 1.43 201 Max	244143 054	244143	05KUCHAR	244173	OSSILVER LAK	1	138	205 AEP	251	335 Base Case	0 -46.6	-	18.58	0	-0.39%
44308 00 24308 00 24308 00 -0 -0 -0 -0 -0 -0 -0 1 1.8 200 MDP 10 <td>243475 USE</td> <td>243475</td> <td>USBLENDO</td> <td>243547</td> <td>05MORSE</td> <td>1</td> <td>138</td> <td>205 AEP</td> <td>297</td> <td>338 Base Case</td> <td>0 55.2</td> <td>-</td> <td>18.57</td> <td>0</td> <td>-0.06%</td>	243475 USE	243475	USBLENDO	243547	05MORSE	1	138	205 AEP	297	338 Base Case	0 55.2	-	18.57	0	-0.06%
attess bit bit< bit< bit< bit<	242598 050	242598	USCHNC Z	242705	USLOGANZ	1	138	205 AEP	167	16/ Base Case	0 -30.5	-	18.52		-0.11%
at dors bit constraint 2422	243664 U5F	243664	USHAZARD	243668	USWOOTON	1	161	205 AEP	300	420 Base Case	0 -55.5	-	18.51	0	0.51%
24866 Q2 24866 Q2 24866 Q2 24866 Q2 24866 Q2 24867 Q2 Q2 <td>242696 058</td> <td>242696</td> <td>05KOPPER</td> <td>247795</td> <td>05LACEY BRCH</td> <td>1</td> <td>138</td> <td>205 AEP</td> <td>223</td> <td>223 Base Case</td> <td>0 41.3</td> <td>-</td> <td>18.5</td> <td>0</td> <td>0.08%</td>	242696 058	242696	05KOPPER	247795	05LACEY BRCH	1	138	205 AEP	223	223 Base Case	0 41.3	-	18.5	0	0.08%
33871 02 23871 10 239021 0 <td< td=""><td>238646 020</td><td>238646</td><td>02CW TP3</td><td>241929</td><td>02AVQ3</td><td>1</td><td>138</td><td>202 ATSI</td><td>437</td><td>502 Base Case</td><td>0 -80.8</td><td>-</td><td>18.49</td><td>0</td><td>0.38%</td></td<>	238646 020	238646	02CW TP3	241929	02AVQ3	1	138	202 ATSI	437	502 Base Case	0 -80.8	-	18.49	0	0.38%
23888 02 23888 02 23888 02 23888 02 229043 02484 0 - 18.47 0 - 11.4% 23885 05 0550000000000000000000000000000000000	238717 02-	238717	02-5POINT+	239027	020ILEVS	1	138	202 ATSI	288	346 Base Case	0 53.2	-	18.47	0	-0.14%
242855 09 242855 09 242855 09 242855 09 242855 09 242850 0 54.6 - 16.46 0 0.00% 24205 09 242730 05MBECKL 242628 05LNTN 133 205 AEP 215 1373 Base Case 0 24.6.1 0.03% 242628 05S LNNN 242630 05SLNTK 133 205 AEP 215 223 Base Case 0 -40.3 - 18.4 0 0.03% 242526 05SLNTNN 240630 5VTNE K 1 138 205 AEP 130 138 <case< td=""> 0 - 18.3 0 0.13% 243530 05WSNEAL 24734 05WSNENDER 20 348 205 AEP 147 138 205 AEP 147 147 148 18.3 0 0.02% 24330 05WSNEAL 24733 05WSNEA</case<>	238889 021	238889	02LEMOYN	239370	02DOWLING	1	345	202 ATSI	1542	1878 Base Case	0 284.8	-	18.47	0	-1.14%
239043 028 239043 022 NST 1 138 202 ATT 238 282 Base 0 43 - 18.46 0 0.07% 253047 098 253047 098 253047 098 253047 098 253047 098 253047 098 253047 098 253047 098 253047 098 253047 098 253047 098 25047 098 25047 098 25047 098 25047 098 25047 098 25047 098 2625 058 0.07% 18.4 0.038 0.038 242250 058 243275 05804708 24334 05804807 138 205 AEP 1009 1409 Base 0.0378 - 18.36 0 1.028 24254 05804708 242340 05804707 1 138 205 AEP 109 1409 Base Case 0 -118.36 0 1.028 24254 05804708 243303 0240497 1016 AEP	242855 050	242855	05WYOMIN	247634	05LYBURN SS	1	138	205 AEP	296	413 Base Case	0 54.6	-	18.46	0	-0.10%
24273 0 938 2473 0 958 2627 0 1 138 205 AFP 164 100 Fase Case 0 -30.2 - 18.42 0 -0.028 22364 08 24628 055 LYNN 24269 0 058 LANATZ 1 138 205 AFP 125 137 8 Base Case 0 -40.3 - 18.42 0 0.028 24252 005 24528 055 LYNN 242624 0 055 LYNN 24262 0 055 LYNN 24262 0 055 LYNN 24262 0 0 - 18.4 0 0.0176 24352 055 LYNN 24262 0 055 LYNN 2460 0 055 LYNN 2460 0 055 LYNN 2460 0 0 - 18.3 0 0.127 24352 055 LYNN 2460 0 058 LYNN 2403 0 058 LYNN 2473 0 058 LYNN	239043 021	239043	02PINE	239075	02ROSEMT	1	138	202 ATSI	233	282 Base Case	0 43	-	18.46	0	0.07%
233047 098 233047 099 A345 0.09 DAX 125 1374 Base Case 0 231.2 - 18.4 0 0.035% 242265 052 24225 055 24225 055 24225 055 24225 055 24225 055 24225 055 24225 055 24225 055 24225 055 24225 055 24225 055 24226 055 055 0 0.37.7 - 18.3 0 0.128 242305 055 242936 055 055 242936 055 242942 058 05708 24133 020 24294 058 0000000 000000 000000000000000000000000000000000000	242730 051	242730	05NBECKL	242758	05POLEYD	1	138	205 AEP	164	180 Base Case	0 -30.2	-	18.42	0	-0.08%
242628 058 242629 058.LXNIN 24269 05LAVALT 1 18 203 AEP 219 225 Base Case 0 -40.3 - 18.4 0 0.039% 24327 055 242725 055 05LENNE1 24339 05WSORL 1 138 205 AEP 123 223 Base Case 0 -40.3 - 18.8 0 0.12% 24326 05 24236 05 05KORC 242420 05WSORC 244740 05MUSORL 23 0.12% - 18.8 0 0.12% 24373 05 24737 05 05MUSORC 247474 05MUSORL 247474 05MUSORL 247474 05MUSORL 247474 05MUSORL 247474 05MUSORL 24000 - 18.3 0 0.22% 2303 05 242320 05KANNEK 244392 05LOANNYIL 2 345 C05 AEP 4047 1412 Base Case 0 -149.3 - 18.3 0 0.02% 242320 05KENNE 244323 05KANNYIL 1 138 205 AEP 138 180 Base Case 0 -41.3 - 18.3 0 0.02% 242320 05KANNYI 24367 05FLENIN 1418 138 205 AEP 1	253047 09№	253047	09MIAMI	253069	09SHELBY	1	345	209 DAY	1255	1374 Base Case	0 231.2	-	18.42	0	0.25%
24227 05 24227 05 024227 0 000000000000000000000000000000000000	242628 05E	242628	05E.LYNN	242699	05LAVALT	1	138	205 AEP	219	255 Base Case	0 -40.3	-	18.4	0	0.03%
243524 054 243524 055555 NORT 246094 055555 NORT 246094 055555 NORT 246094 055555 0 033.7 - 18.3 0 0.429 24236 05555070 24236 0557070 242421 055555555 20 113 205 AEF 1409 Base Case 0 -137.2 - 18.3 0 0.4228 33937 022 23933 02PCP11 23933 02PCP11 1336 200 AFF 1409 Base Case 0 -118.3 0 0.0228 24323 05 24333 05FARFEN 1409 AFF 646 646 Base Case 0 -71.9 - 18.33 0 0.0288 242326 055 24330 05FARFEN 1318 205 AFF 158 150 Base Case 0 -77.5 - 18.31 0 0.0288 24369 05LVVLV 24669 05NUFSS 1 138 205 AFF 158 150 Base Case 0 -77.5 -	243275 051	243275	05DELAWR1	243393	05WESDEL	1	138	205 AEP	219	223 Base Case	0 -40.3	-	18.4	0	-0.17%
24236 05 242383 05FOGTOR 242942 05SBERWI 1 345 205 AFF 1409 Base Case 0 259 - 18.38 0 1.41% 24373 05 24373 05% 24733 05% 24733 05% 24733 05% 24733 05% 0.11% - 18.34 0 0.022% 24333 05 243233 057ENINER 24372 05LOANTVILL 2 345 205 AFF 747 747 Base Case 0 -11.1 - 18.34 0 0.022% 24323 057ENINER 24323 05FENINER 243250 05LOANTVILL 2 345 205 AFF 648 648 Base Case 0 -741.9 - 18.33 0 1022% 24300 055 24320 05FINERR 247775 05DIXON S8 1 138 205 AFF 158 180 Base Case 0 -41.3 - 18.33 0 0.00% 24367 05 243670 05DIXON S8 1 138 205 AFF 226 225 Base Case 0 -41.3 - 18.20 0.00% 24367 05 243697 05DUILS 246896 05WOLFS 1 138 <td>243524 05H</td> <td>243524</td> <td>05HESS NORTH</td> <td>246094</td> <td>05VINE_X</td> <td>1</td> <td>138</td> <td>205 AEP</td> <td>183</td> <td>243 Base Case</td> <td>0 33.7</td> <td>-</td> <td>18.39</td> <td>0</td> <td>0.12%</td>	243524 05H	243524	05HESS NORTH	246094	05VINE_X	1	138	205 AEP	183	243 Base Case	0 33.7	-	18.39	0	0.12%
247373 05M0 SKNCAA 247434 05M0 SKNCAA 0413.3 00 0.20% 23037 021007 022007 02207 02107 02107 0211 138 01 0.20% 24323 05 24323 05TANNER 24372 05LOANTVILL 02 345 205 AEP 648 648 Base Case 0 -118.3 0 10.72% 243010 05TENEN 24329 05LNEN 1 138 205 AEP 108 Base Case 0 -11.3 - 18.3 0 10.72% 24364 05LOVELY 24369 05LOVELY 24369 05LOVELY 24369 05LOVELY 24689 05M0LFSS 1 138 202 AEF 128 Base Case 0 -41.3 - 18.20 0 0.00% 24369 05LOVELY 24689 05M0LFSS 1 138 202 AFST 128 B	242936 05E	242936	05FOSTOR	242942	05SBERWI	1	345	205 AEP	1409	1409 Base Case	0 259	-	18.38	0	1.41%
239037 02 239037 02F Q2PQ-11 23033 02 PCTP11 1 118 115	247373 051	247373	05MUSKNG2A	247434	05MUSKNG_DSZ	ZQ	138	205 AEP	747	747 Base Case	0 -137.2	-	18.37	0	0.22%
243233 051 ANNER 243920 05LOGANTVILL 2 345 205 AEP 648 6648 Base Case 0 118.8 - 18.3 0 10.73% 242926 0514116 05FTHENR 247775 05DIXON SS 1 138 205 AEP 205 248 Base Case 0 -741.9 - 18.3 0 -0.25% 243010 05 FTHENR 247775 05DIXON SS 1 138 205 AEP 150 126 Base Case 0 -41.3 - 18.3 0 -0.25% 243694 05LOVELY 24689 05NUERS 1 138 205 AEP 226 251 Base Case 0 41.3 - 18.2 0 0.00% 243694 05LOVELY 24689 05NUERS 1 138 202 AFSI 288 264 264 Base Case 0 44.3 - 18.2 0 0.00% 230120 223142 02TUNC 23952 02TUNC 138 202 AFSI 238 282 Base Case 0 44.3 - 18.2 0 0.00% <	239037 021	239037	02PGQ-11	239039	02PGTP11	1	138	202 ATSI	115	115 Base Case	0 -21.1	-	18.34	0	0.00%
24226 05M 242928 05MARLS 242928 05MARLSV 1 765 205 AEP 4047 4142 Base Case 0 7-741.9 - 18.33 0 10.22% 243010 051 243010 051 PHENR 24773 05 DIXON SS 1 138 205 AEP 158 140 Base Case 0 7-35 - 18.31 0 0.02% 243673 051 243689 05NDEX 246896 05WOLFSS 1 138 205 AEP 226 251 Base Case 0 41.3 - 18.29 0 0.00% 243697 051 05EDVELY 246896 05WOLFSS 1 138 205 AEP 226 251 Base Case 0 -44.3 - 18.29 0 0.00% 230108 02 259108 0EEMWOL1 250056 0ELTRE 1 138 202 ATSI 278 343 <base case<="" td=""/> 0 5.7.7 - 18.23 0<0	243233 051	243233	05TANNER	243792	05LOSANTVILL	2	345	205 AEP	648	648 Base Case	0 118.8	-	18.34	0	-1.49%
243010 05FTHEN 24775 05DLXON SS 1 138 205 AEP 205 248 Base Case 0 -77.5 - 18.31 0 -0.25% 243673 05E 243674 05E 243674 05 243694 05 18.3 0 1.138 205 AEP 226 251 Base Case 0 1.13 - 1.8.2 0 0.00% 243694 05 D5LVELY 24669 05NUFSS 1 1.38 205 AEP 226 251 Base Case 0 -41.3 - 1.8.28 0 0.00% 23018 05 D2FURH 24669 05UTESC 1 1.38 202 ATSI 278 343 Base Case 0 -48.2 - 18.23 0 0.00% 23129 02 239129 021XUNA 239329 021KUNA 1.38 202 ATSI 238 Base Case 0 42.5 - 18.23 0 0.00% 23869 021KUNA 24368 05KNUTA 1 1.38 202 ATSI 128 Base Case 0 42.5	242926 051	242926	05MALIS	242928	05MARYSV	1	765	205 AEP	4047	4142 Base Case	0 -741.9	-	18.33	0	10.72%
243673 05EEPHI 243697 05EEPHI 243697 05EPHI 1138 205 AEP 158 180 Base Case 0 24.9 - 18.3 0 0.04% 243697 051 243697 0510VELY 246896 05WOLFSS 1 138 205 AEP 226 251 Base Case 0 0.41.3 - 18.2 0 0.00% 23069 051VELY 246896 05WOLFSS 1 138 201 De04K 264 264 Base Case 0 0.41.3 - 18.2 0 0.00% 230140 02 2X1VNA 239320 02FURH HOSP 1 138 202 AFSI 278 343 Base Case 0 42.5 - 18.2 0 0.00% <td< td=""><td>243010 05E</td><td>243010</td><td>05FTHENR</td><td>247775</td><td>05DIXON SS</td><td>1</td><td>138</td><td>205 AEP</td><td>205</td><td>284 Base Case</td><td>0 -37.5</td><td>-</td><td>18.31</td><td>0</td><td>-0.25%</td></td<>	243010 05E	243010	05FTHENR	247775	05DIXON SS	1	138	205 AEP	205	284 Base Case	0 -37.5	-	18.31	0	-0.25%
243694 051N2Z 246896 05NDFSS 1 138 205 APP 226 251 Base Case 0 41.3 18.29 0 0.10% 243697 0510V2IY 246896 05NDFSS 1 138 205 APP 226 251 Base Case 0 -41.3 18.28 0 0.10% 243697 0510VEIY 246896 05NDFSS 1 138 202 APF 226 251 Base Case 0 -41.3 18.28 0 -0.08% 239129 02 239142 02TUNA 239320 02FLR HOSP 1 138 202 ATSI 238 Base Case 0 42.5 18.22 0 -0.04% 239469 02ENDUH 239469 02ENDUH 239469 02ENDUH 138 205/320 AEP 128 165 Base Case 0 -51.8 - 18.29 0 0.00% 243680 02ENDUH 243080 05ENCER 243380 0ERKINEY 1 1	243673 05E	243673	05BEEFHI	243687	05FLEMIN	1	138	205 AEP	158	180 Base Case	0 28.9	-	18.3	0	-0.04%
243697 05LOVELY 246696 05NOLFSS 1 138 205 REP 226 251 Base Case 0 -41.3 - 18.28 0 0.00% 25018 08 25019 025VLNA 239320 025VLNR HOSP 1 138 202 ATSI 278 343 Base Case 0 -48.2 - 18.28 0 -0.08% 23912 022 239142 025VLNA 239360 021NOLTA 138 202 ATSI 238 Base Case 0 42.5 - 18.22 0 -0.08% 239142 022 239142 021NOLTA 1 138 202 ATSI 238 Base Case 0 42.5 - 18.22 0 -0.03% 239142 025 243680 025.PORT MTR 342538 MARGENTME 1 138 205/320 AEP/EKPC 10 Base Case 0 -30.9 - 18.28 0 -0.03% 243291 055.NEGRER 243393 05KLNILEY 1 138 202	243694 051	243694	05INEZ	246896	05WOLFSS	1	138	205 AEP	226	251 Base Case	0 41.3	-	18.29	0	0.10%
25018 08EMWOD1 25006 08LTERL8 1 138 212 DEGK 264 264 Base Case 0 -48.2 18.26 0 -0.08% 239142 02S11VNA 239320 02FLMR HOSP 1 138 020 ATSI 278 343 Base Case 0 50.7 - 18.22 0 0.02% 239142 02TUSC 239340 02HWR HOSP 1 138 020 ATSI 233 242 Base Case 0 42.5 - 18.22 0 -0.04% 238660 223869 02ELMOTH 34944 02MASURY 1 138 205/20 AFF 10 10 Base Case 0 -43.9 - 18.21 0 -0.04% 243680 02 SAFK 23914 05KKILLEY 3433 05KKILLEY 1 138 205/20 AFF 250 101 Base Case 0 -41.8 0 0.00% 243680 05KLLEY 23916 02KAYKA 02KAYKA 138 205 AFF <td< td=""><td>243697 051</td><td>243697</td><td>05LOVELY</td><td>246896</td><td>05WOLFSS</td><td>1</td><td>138</td><td>205 AEP</td><td>226</td><td>251 Base Case</td><td>0 -41.3</td><td>-</td><td>18.28</td><td>0</td><td>0.10%</td></td<>	243697 051	243697	05LOVELY	246896	05WOLFSS	1	138	205 AEP	226	251 Base Case	0 -41.3	-	18.28	0	0.10%
239129 02SYLVNA 239320 02FLWR HOSP 1 138 202 ATSI 278 343 Base Case 0 50.7 - 18.23 0 0.22% 239142 02' 239142 02TUNC 239362 02INVOLTA 1 138 202 ATSI 233 282 Base Case 0 42.5 - 18.22 0 0.09% 238696 02E LWOD+ 23894 02EMUO+ 23884 AECENTW 1 138 202 ATSI 128 165 Base Case 0 -2.3.9 - 18.22 0 -0.04% 243688 05S.PORT MTR 342538 AACEENTUM 1 138 205 AEP 285 361 Base Case 0 -51.8 - 18.19 0 -0.03% 243688 05S.PORT MTR 342538 AKCENTUM 1 138 202 ATSI 251 209 Base Case 0 51.8 - 18.18 0 -0.03% 243688 05N.CLAYTOR 247870 05CLAYTR HY2 1	250018 08E	250018	08EMWOD1	250056	08LTERL8	1	138	212 DE0&K	264	264 Base Case	0 -48.2	-	18.26	0	-0.08%
239142 02TUSC 239362 02INVOLTA 1 138 202 ATSI 233 228 Base Case 0 42.5 18.22 00 0.09% 238669 02 23869 02EMOD+ 23944 02MASURY 1 138 202 ATSI 128 165 Base Case 0 -23.3 18.21 00 -0.04% 243680 05 SPORT MTR 342538 4ARGENTUM 1 138 205/320 AEP/EKPC 170 10 Base Case 0 -23.3 18.12 0 0.03% 243291 05ENOLER 24338 05MCNILEY 1 138 205 AEP 251 20 Base Case 0 -45.6 - 18.18 0 0.03% 243291 05ENCLAYTOR 24780 05CLAYTR HY2 1 138 202 AEP 136 167 Base Case 0 -24.7 - 18.18 0.0 -0.07% 247868 05N.CLAYTOR 24790 05CLAYTR HY2 1 138	239129 028	239129	02SYLVNA	239320	02FLWR HOSP	1	138	202 ATSI	278	343 Base Case	0 50.7	-	18.23	0	0.22%
238696 02 238696 02LWOD+ 238944 02MASURY 1 138 202 ATSI 128 165 Base Case 0 -23.3 18.21 0 -0.04% 243688 05 243688 05S.PORT MTR 342538 ARGENTUM 1 138 205/320 AEP/EKPC 170 Base Case 0 -30.9 18.2 0 -0.03% 243291 05ENGLER 243383 05MCKINLY3 1 138 205/320 AEP/EKPC 170 Base Case 0 51.8 18.19 0 -0.03% 243291 05ENGLER 243383 05MCKINLY3 1 138 202 ATSI 215 290 Base Case 0 -45.6 - 18.18 0 -0.60% 247660 247680 05N.CLAYTOR 24780 05LAYTR HY2 1 138 202 ATSI 198 Base Case 0 -45.6 - 18.18 0 -0.07% 243202 25076 08MTGRY2 250904 0RMNTN1 1 138 <td>239142 021</td> <td>239142</td> <td>02TUSC</td> <td>239362</td> <td>02INVOLTA</td> <td>1</td> <td>138</td> <td>202 ATSI</td> <td>233</td> <td>282 Base Case</td> <td>0 42.5</td> <td>-</td> <td>18.22</td> <td>0</td> <td>0.09%</td>	239142 021	239142	02TUSC	239362	02INVOLTA	1	138	202 ATSI	233	282 Base Case	0 42.5	-	18.22	0	0.09%
24368 05. PORT MTR 34253 4AGENTUM 1 138 205/320 AEP/EKPC 170 170 Base Case 0 -30.9 - 18.2 0 -0.03% 243291 05 243291 05ENGLER 243338 05MCKINLEY3 1 138 205/320 AEP 285 361 Base Case 0 -51.8 - 18.19 0 0.03% 238586 02 238586 02 247868 05N.CLAYTOR 24700 05CLAYTR HY2 1 138 202 AEP 316 Base Case 0 -45.6 - 18.18 0 -0.05% 247868 05N.CLAYTOR 24700 05CLAYTR HY2 1 138 202 AEP 136 167 Base Case 0 -24.7 - 18.18 0 -0.01% 243620 05KNCKAKE22 24338 05KNTNT 1 138 202 ATSI 205 188 0 -24.7 - 18.18 0 -0.07% 24320 05KNKAKE22 24338 05W SIDE	238696 02E	238696	02ELWOD+	238944	02MASURY	1	138	202 ATSI	128	165 Base Case	0 -23.3	-	18.21	0	-0.04%
243291 05 243291 05ENGLER 243338 05MCKINLEY3 1 138 205 AEP 285 361 Base Case 0 51.8 - 18.19 0 0.00% 23858 02E 23856 02BKSID 239076 02ROS 1 138 202 ATSI 251 290 Base Case 0 -45.6 - 18.18 0 -0.00% 247668 05N CLAYTOR 247670 05CLAYTR HY2 1 138 205 AEP 136 167 Base Case 0 - 18.18 0 -0.07% 24320 05KANKAKE2 24338 05W SIDE 1 138 205 AEP 205 205 Base Case 0 37.3 - 18.18 0 -0.07% 24320 05KANKAKE2 24338 05W SIDE 1 138 202 ATSI 205 205 Base Case 0 37.3 - 18.18 0 0.08% 23907 02HEIS 02AHTA 23916 02MARON 1 138 202 ATSI 200 242 Base Case 0 36.2 - 18.15 0 0.01%	243688 058	243688	05S.PORT MTR	342538	4ARGENTUM	1	138	205/320 AEP/EKPC	170	170 Base Case	0 -30.9	-	18.2	0	-0.03%
23858 02B XSID 239076 02ROSS 1 138 202 ATSI 251 290 Base Case 0 -45.6 - 18.18 0 -0.06% 247868 051 247868 05N.CLAYTOR 247870 05CLAYTR HY2 1 138 205 AEP 136 167 Base Case 0 -24.7 - 18.18 0 -0.07% 24320 05N.CLAYTOR 24780 05CLAYTR HY2 1 138 205 AEP 136 167 Base Case 0 - 18.18 0 -0.07% 24320 05KANKAKE2 24338 05W SIEE 1 138 202 ATSI 124 124 Base Case 0 37.3 - 18.18 0 0.08% 238528 02 23917 02HEIS 23914 02MAKON 1 138 202 ATSI 20 242 Base Case 0 36.2 - 18.15 0 0.01% 23917 02HEIS 23907 02HEIS 23907 02WALEY 138	243291 05E	243291	05ENGLER	243338	05MCKINLEY3	1	138	205 AEP	285	361 Base Case	0 51.8	-	18.19	0	0.08%
247868 05N.CLAYTOR 247870 05CLAYTR HY2 1 138 205 AEP 136 167 Base Case 0 -24.7 - 18.18 0 -0.01% 250076 08MTGRY2 250094 08MTN1 1 138 212 DE0&K 198 Base Case 0 36 - 18.18 0 -0.07% 243320 05 243320 05KANKAKE2 24338 05W SIDE 1 138 202 AEP 205 205 Base Case 0 37.3 - 18.18 0 0.08% 238528 024 238528 024ETNA 239161 02MARON 1 138 202 ATSI 124 124 Base Case 0 - 18.18 0 0.01% 23917 02HEIS 239149 02VALEY 1 138 202 ATSI 202 223 Base Case 0 - 18.1 0 0.01% 23907 02RVERBD 239109 02WILITN 1 138 202 ATSI 223 <td< td=""><td>238586 02E</td><td>238586</td><td>02BRKSID</td><td>239076</td><td>02ROSS</td><td>1</td><td>138</td><td>202 ATSI</td><td>251</td><td>290 Base Case</td><td>0 -45.6</td><td>-</td><td>18.18</td><td>0</td><td>-0.60%</td></td<>	238586 02E	238586	02BRKSID	239076	02ROSS	1	138	202 ATSI	251	290 Base Case	0 -45.6	-	18.18	0	-0.60%
250076 08MTGRY2 250074 08MTGRY2 243320 05KANKAKE22 243388 05W SIDE 1 138 205 AEP 205 205 Base Case 0 37.3 18.18 0 0.00% 238528 02AETNA 239161 02MARON 1 138 202 ATSI 124 124 Base Case 0 36.2 18.18 0 0.00% 239137 02THEIS 239148 02VALEY 1 138 202 ATSI 200 242 Base Case 0 36.2 18.1 0 0.00% 239137 02THEIS 239149 02VALEY 1 138 202 ATSI 200 242 Base Case 0 36.2 18.1 0 0.00% 239070 02RVERBD 239100 02WILITN 1 138 209 ATSI <td>247868 051</td> <td>247868</td> <td>05N.CLAYTOR</td> <td>247870</td> <td>05CLAYTR HY2</td> <td>1</td> <td>138</td> <td>205 AEP</td> <td>136</td> <td>167 Base Case</td> <td>0 -24.7</td> <td>-</td> <td>18.18</td> <td>0</td> <td>-0.01%</td>	247868 051	247868	05N.CLAYTOR	247870	05CLAYTR HY2	1	138	205 AEP	136	167 Base Case	0 -24.7	-	18.18	0	-0.01%
243320 05 XAXKAKE2 24338 05W SIDE 1 138 205 AEP 205 205 Base Case 0 37.3 - 18.18 0 0.08% 238528 024 238528 02AETNA 239161 02WARRON 1 138 202 ATSI 124 124 Base Case 0 -22.5 - 18.15 0 0.01% 239137 02THEIS 239148 02VALLEY 1 138 202 ATSI 200 242 Base Case 0 - 18.1 0 0.01% 239137 02THEIS 239148 02VALLEY 1 138 202 ATSI 200 242 Base Case 0 - 18.1 0 0.00% 239077 02EVERBD 239120 02SPRNG 1 138 202 ATSI 223 Ease Case 0 -40.4 - 18.1 0 0.00% 239047 02WMIMI 253047 09MIAIMI 253049 09MINITN 1 345 209 DAY 1	250076 081	250076	08MTGRY2	250094	08RMNTN1	1	138	212 DEO&K	198	198 Base Case	0 36	-	18.18	0	-0.07%
238528 02AETNA 239161 02MARRON 1 138 202 ATSI 124 124 Base Case 0 -2.5 - 18.15 0 0.11% 239137 02THEIS 239148 02VALLEY 1 138 202 ATSI 200 242 Base Case 0 36.2 - 18.1 0 -0.07% 239077 02FWERED 239120 02SEPRNG 1 138 202 ATSI 223 223 Base Case 0 -40.4 - 18.1 0 -0.07% 230077 02FWERED 239120 02SEPRNG 1 138 202 ATSI 223 223 Base Case 0 -40.4 - 18.1 0 0.00% 253047 09MIAMI 253090 09MINITN 1 345 209 DAY 1195 Base Case 0 -216.2 - 18.0 0 0.92% 243151 05WONTLS 243158 05WOOSTE 1 138 205 AEP 185 250 Base Case	243320 05F	243320	05KANKAKEE2	243388	05W SIDE	1	138	205 AEP	205	205 Base Case	0 37.3	-	18.18	0	0.08%
239137 02THEIS 239148 02VALLEY 1 138 202 ATSI 200 242 Base Case 0 36.2 - 18.1 0 -0.07% 239077 02RVERBD 239120 02SSPRNG 1 138 202 ATSI 223 223 Base Case 0 -40.4 - 18.1 0 0.00% 253047 09MIAMI 25309 09MMILTN 1 345 209 DAY 1195 1195 Base Case 0 -40.4 - 18.0 0 0.00% 243151 05MMILS 243158 05MOOSTE 1 138 205 AEP 185 250 Base Case 0 -40.4 - 18.09 0 0.92% 243151 05MMILS 243158 05MOOSTE 1 138 205 AEP 185 250 Base Case 0 33.4 - 18.07 0 0.35% 242673 05HUBTWN 24366 05B SAND 1 138 205 AEP 167 167 Base Ca	238528 027	238528	02AETNA	239161	02WAKRON	1	138	202 ATSI	124	124 Base Case	0 -22.5	-	18.15	0	0.11%
239077 02RVERBD 239120 02SSPRNG 1 138 202 ATSI 223 223 Base Case 0 -40.4 - 18.1 0 0.10% 253047 09MIAMI 253049 09MIAIT 25309 09MMILTN 1 345 209 DAY 1195 1195 Base Case 0 -40.4 - 18.0 0 0.00% 243151 05MNILS 243158 05WOOSTE 1 138 205 AEP 185 250 Base Case 0 -40.4 - 18.0 0 0.02% 243151 05WNILS 243158 05WOOSTE 1 138 205 AEP 185 250 Base Case 0 33.4 - 18.07 0 0.35% 242673 05HUBTWN 24366 05B SAND 1 138 205 AEP 167 167 Base Case 0 30.1 - 18.04 0 0.03% 243006 05FOSTOR 24303 05MELMOR 1 138 205 AEP 16	239137 021	239137	02THEIS	239148	02VALLEY	1	138	202 ATSI	200	242 Base Case	0 36.2	-	18.1	0	-0.07%
253047 09MIAMI 25309 09MIAITN 1 345 209 DAY 1195 1195 Base Case 0 -216.2 - 18.09 0.092% 243151 05WNILLS 243158 05WOOSTE 1 138 205 AEP 185 250 Base Case 0 33.4 - 18.09 0.092% 242673 05 242673 05HUBTWN 24366 05B SAND 1 138 205 AEP 292 330 Base Case 0 - 18.09 0.04% 24306 05HUBTWN 24369 05B SAND 1 138 205 AEP 167 167 Base Case 0 30.1 - 18.04 0 0.04% 243006 05FOSTOR 24303 05MELMOR 1 138 205 AEP 167 167 Base Case 0 30.1 - 18.04 0 0.35%	239077 02F	239077	02RVERBD	239120	02SSPRNG	1	138	202 ATSI	223	223 Base Case	0 -40.4	-	18.1	0	0.10%
243151 05WMILLS 243158 05WOOSTE 1 138 205 AEP 185 250 Base Case 0 33.4 - 18.07 0 0.35% 242673 05 242673 05HUBTWN 24366 05B SAND 1 138 205 AEP 292 330 Base Case 0 - 18.07 0 0.035% 242073 05HUBTWN 24366 05B SAND 1 138 205 AEP 292 330 Base Case 0 18.05 0 0.04% 243006 05FOSTOR 24303 05MELMOR 1 138 205 AEP 167 167 Base Case 0 30.1 - 18.04 0 0.35%	253047 09N	253047	09MIAMI	253090	09WMILTN	1	345	209 DAY	1195	1195 Base Case	0 -216.2	-	18.09	0	0.92%
242673 05 242673 05HUBTWN 243669 05B SAND 1 138 205 AEP 292 330 Base Case 0 -52.7 - 18.05 0 0.04% 243006 05 243006 05FOSTOR 243039 05MELMOR 1 138 205 AEP 167 167 Base Case 0 30.1 - 18.04 0 0.35%	243151 050	243151	05WMILLS	243158	05WOOSTE	1	138	205 AEP	185	250 Base Case	0 33.4	-	18.07	0	0.35%
243006 05 243006 05FOSTOR 243039 05MELMOR 1 138 205 AEP 167 167 Base Case 0 30.1 - 18.04 0 0.35%	242673 05H	242673	05HUBTWN	243669	05B SAND	1	138	205 AEP	292	330 Base Case	0 -52.7	-	18.05	0	0.04%
	243006 05F	243006	05FOSTOR	243039	05MELMOR	1	138	205 AEP	167	167 Base Case	0 30.1	-	18.04	0	0.35%

243511 050	243511	05GAY	243580	05SULVNT	1	138	205 AEP	231	277 Base Case	0 -41.6	-	18.02	0	0.11%
247370 05N	247370	05MUSKNG1A	247434	05MUSKNG DSZ	ZR	138	205 AEP	747	747 Base Case	0 -134.5	-	18.01	0	0.50%
242520 05	242520	05J.FERR	306719	8ANTTOCH	1	500	205/342 AEP/DUK	2204	2490 Base Case	0 -396.6	-	17.99	0	1.10%
238904 021	238904	02T.MO=11	241922	02EL02	1	138	202 ATST	324	382 Base Case	0 -58 2	_	17 97	0	-0.20%
242650 050	242650	05GLENL1	242668	05HINTON	1	138	205 AEP	388	416 Base Case	0 69 7	_	17.97		-0.05%
242752 055	242050	05BINCKZ	242761	05PACI DZ	1	138	205 AEP	167	167 Base Case	0 30	_	17.96	0	-0.12%
242752 051	242732	OFUNDERN CC	242701	OSKAGLDZ	1	130	205 AEF	107	107 Base Case	0 1.61	_	17.50		1 260/
243902 05F	243902	OSHARDIN SS	243903	OSGUNN RD SS	1	345	205 AEP	897	1101 Base Case	0 -161	-	17.95		-1.30%
242935 058	242935	USE LIMA	243902	OSHARDIN SS	1	345	ZUS AEP	897	1123 Base Case	0 -161	-	17.95		-1.30%
242/14 USN	242/14	U5MEADWV	242789	USSALTV2	1	138	205 AEP	136	16/ Base Case	0 24.4	-	17.95		0.19%
238568 02E	238568	02BAYSHO	239140	02TOUSNT	1	138	202 ATSI	235	288 Base Case	0 42.1	-	17.93	0	0.35%
243360 051	243360	05POKAGO	246764	05SAUKTR	1	138	205 AEP	335	392 Base Case	0 59.9	-	17.89	0	-0.06%
238777 02F	238777	02HAMIL+	933720	AC2-195 TAP	1	138	202 ATSI	200	242 Base Case	0 35.8	-	17.89	0	-0.16%
238667 021	238667	02DUALR+	933720	AC2-195 TAP	1	138	202 ATSI	200	242 Base Case	0 -35.8	-	17.88	0	-0.16%
242935 05E	242935	05E LIMA	242945	05SW LIM	1	345	205 AEP	971	971 Base Case	0 173.3	-	17.84	0	0.34%
239123 028	239123	02STAR	239238	02SEVM	1	138	202 ATSI	233	282 Base Case	0 41.5	-	17.83	0	-0.17%
242986 050	242986	05CROOKS	243107	05SPENCR	1	138	205 AEP	134	167 Base Case	0 -23.9	-	17.82	0	0.25%
243247 05Z	243247	05AUBURN	247790	05DUNTONLAKE	2	138	205 AEP	323	392 Base Case	0 -57.5	-	17.8	0	-0.05%
243519 05H	243519	05HALLRD	243587	05WILSNZ	1	138	205 AEP	223	223 Base Case	0 39.7	-	17.79	0	0.07%
239278 02E	239278	02BRDVIE	253085	09URBANA	1	138	202/209 ATSI/DAY	221	272 Base Case	0 -39.3	-	17.79	0	0.12%
242550 05E	242550	05BEARSK	242802	05SMITHMTN	1	138	205 AEP	296	296 Base Case	0 -52.6	-	17.78	0	-0.16%
253057 090	253057	090нн	253255	09GEBHRT	1	138	209 DAY	196	241 Base Case	0 -34.8	-	17.76	0	-0.09%
243686 05E	243686	05EXCELT	243695	05JOHNSC	1	138	205 AEP	410	527 Base Case	0 72.8	-	17.76	0	-0.10%
247172 05E	247172	05EBERSO	247893	05FLAG CITY	1	138	205 AEP	150	212 Base Case	0 26.6	-	17.7	0	-0.26%
243215 050	243215	0.5COOK	270139	AA2-116 TAP2	1	345	205 AEP	1409	1409 Base Case	0 249.5	-	17.7	0	0.26%
239144 020	239144	02URBAN	239362	02TNVOLTA	1	138	202 ATST	233	282 Base Case	0 -41 2	-	17.7	0	0.09%
253049 09N	253049	0 9MONUM1	253093	OBWERGTR	1	138	209 DAV	301	374 Base Case	0 53 2	_	17 66	0	-0.05%
242568 055	242568	05BBOOKU	233033	05MCCONVILLE	1	138	205 AFP	167	245 Base Case	0 35.2	_	17.00	0	0.03%
242910 051	242300	0.5 CULUN	24/500/	05RCCONVIELE	1	120	205 AED	117	117 Base Case	0 20.5	_	17.00		0.01%
242019 000	242019	OSSOLVN	244300	O SKIGGS	1	130	205 AEF	117	227 Dase Case	0 20.0	_	17.05		0.07%
243366 USF	243300	OSROB PRIZ	243369	OSWALLEN	1	130	205 AEP	207	337 Base Case	0 50.6	-	17.65	0	-0.02%
242773 USF	242773	USROANOI	242840	05VINTON	1	138	ZUS AEP	240	252 Base Case	0 -42.3	-	17.62		-0.10%
240988 025	240988	UZSHELBY_FS+	240989	02SHELBY_FS	1	138	202 ATS1	161	194 Base Case	0 28.4	-	17.61	0	0.00%
243331 051	243331	05LINWOO	243368	05ROSEHI	1	138	205 AEP	187	240 Base Case	0 -32.9	-	17.6	0	-0.10%
238795 02F	238795	02HDGQ14	238924	02LTEQ14	1	138	202 ATSI	399	488 Base Case	0 70.2	-	17.59	0	0.01%
242536 05A	242536	05AMALOY	242807	05SPORN	1	138	205 AEP	205	205 Base Case	0 -36	-	17.57	0	0.00%
238635 020	238635	02CORTLD	238693	02ELM	1	138	202 ATSI	96	96 Base Case	0 -16.9	-	17.56	0	0.00%
253050 091	253050	09MONUM2	253093	09WEBSTR	1	138	209 DAY	218	269 Base Case	0 38.3	-	17.55	0	-0.06%
238800 02H	238800	02HL Q-1	238810	02HO Q-1	1	138	202 ATSI	205	265 Base Case	0 -35.9	-	17.52	0	-0.02%
242548 05E	242548	05BANCRO	242790	05S.BUFFALO	1	138	205 AEP	334	334 Base Case	0 58.5	-	17.52	0	-0.06%
238654 021	238654	02DAV-BE	238889	02LEMOYN	1	345	202 ATSI	1411	1683 Base Case	0 247.1	-	17.51	0	-3.67%
238977 021	238977	02N MED	239158	02W.MED	1	138	202 ATSI	233	282 Base Case	0 40.8	-	17.51	0	0.07%
247844 050	247844	05CAPITOLH2	247846	05BULLIT ST1	1	138	205 AEP	296	413 Base Case	0 51.8	-	17.5	0	-0.01%
238568 02E	238568	02BAYSHO	238658	02DECANT	1	138	202 ATSI	235	287 Base Case	0 41	-	17.43	0	0.39%
243458 05H	243458	05HYATT	246752	05VASSEL	1	345	205 AEP	1370	1409 Base Case	0 -238.7	-	17.43	0	-0.94%
243333 05N	243333	05MADISON1	243339	05MEADOW	1	138	205 AEP	136	167 Base Case	0 23.7	-	17.42	0	-0.04%
239147 02U	239147	02UTTP2	239149	02VULCAN	ZL	138	202 ATSI	216	264 Base Case	0 37.6	-	17.41	0	-0.16%
243274 051	243274	05DEER CRK1	246968	05DOOVIL	1	138	205 AEP	187	240 Base Case	0 -32.6	-	17.41	0	0.20%
253027 090	253027	09GREENE	253079	09SUGRCK	1	345	209 DAY	1255	1374 Base Case	0 -218.3	-	17.4	0	0.97%
243215 050	243215	0.5COOK	270138	AA2-116 TAP1	1	345	205 AEP	1409	1409 Base Case	0 245.1	-	17.4	0	0.28%
238543 027	238543	02ASH 2	238544	02ASH 3	ZB	138	202 ATSI	999	999 Base Case	0 -173.7	-	17.39	0	-0.45%
243690 054	243690	0.5HATELD	243694	0.5TNEZ	- 1	138	205 AEP	296	392 Base Case	0 -51 3	-	17 33	0	0.01%
249566 081	249566	08FOSTER	249579	08HTLCRT	1	345	212 DEOSK	1455	1455 Base Case	0 -251 2	-	17.00		-0.87%
250032 081	250032	08FRFLD1	250066	08MLHSR1	1	139	212 DEORK	198	198 Base Case	0 _3/ 2	-	17 25		-0 12%
253010 001	253010	OGRIPDOV	253000	OQWEBCTD	1	120	209 DAV	306	380 Base Case	0 -52 7	-	17.22		-0.10%
220052 025	233010	0280 0-2	200000	OSTE 0-3	1	120	202 3007	272	222 Page Case	0 -32.7	_	17 10		0.10%
247804 057	230032	05BEIIBIDCCC	220003	05DOUGE	1	120	202 ATS1	2/3	360 Baco Case	0 -46.9	_	17 10		0.00%
247000 038	24/000	OPE IVNC	24/00/	OF TOQUUD	1	100	20J AEP	207	ARA Dasa Crist	0 -44.2	-	17.10		0.11%
24262/ USB	242627	UDE.LINC	242688	AUHGOLGU	1	138	ZUD AEP	388	404 Base Case	U -66.7	- 1	11.18	U	0.11%

243481 050	243481 05CANAL	243548	05MOUND	1	138	205 AEP	122	165 Base Case	0	20.9	-	17.16	0	0.03%
242633 05E	242633 05EDENSR	242849	05W.KINGSPT1	1	138	205 AEP	167	167 Base Case	0	-28.6	-	17.16	0	0.14%
238600 020	238600 02CAIRNS	239196	02ARM+BU	1	138	202 ATSI	317	365 Base Case	0	54.4	-	17.15	0	0.49%
242634 055	242634 05EDGEMO	242839	0.5VICKER	1	1.38	205 AEP	205	205 Base Case	0	35.2	-	17.15	0	0.08%
242718 05N	242718 05MTNNXM	242822	0.5SWITCHBACK	1	1.38	205 AEP	296	296 Base Case	0	-50.7	-	17.13	0	0.18%
250029 085	250029 08FOSTER	250085	08PARK2	1	138	212 DEO&K	301	301 Base Case	0	51 4	-	17.08	0	-0.08%
242546 055	242546 05BATIS1	242742	05PADEOP	1	138	205 AFP	210	223 Base Case	0	37 3	_	17.00	0	-0.19%
242340 031	242340 05BATHST	242742	OSTADION OSTITUDALE?	1	120	205 AED	107	223 Dase Case	0	_21_0	_	17.05	0	-0.05%
242644 050	242044 UJW.DA35	243799	05FIELDALEZ	1	120	205 AEF	107	234 Base Case	0	-31.9	_	17.00	0	-0.03%
242631 03F	242631 05EDAN 1	246972	OSROCKSP	1	100	205 AEP	237	349 Base Case	0	43.7	-	17.02	0	-0.02%
243082 05F	243082 USROCKHILLI	243/65	OSFORD LIMAI	1	138	205 AEP	107	240 Base Case	0	-28.4	-	10 07	0	-0.01%
2391// 020	239177 02WOODV1	245422	USW.END FOSZ	1	138	202/205 ATS1/AEP	185	185 Base Case	0	31.4	-	16.97	0	-0.10%
242509 05A	242509 05AXTON	242514	05J.FERR	1	765	205 AEP	1099	1099 Base Case	0	-186.5	-	16.97	0	1.06%
250048 081	250048 08KLEMN1	250049	08KLEMN2 Z1		138	212 DEO&K	406	454 Base Case	0	68.9	-	16.96	0	0.21%
238879 021	238879 02LB Q13	239283	02PROQ13	1	138	202 ATSI	347	423 Base Case	0	58.8	-	16.94	0	0.00%
243091 055	243091 05S.CALDWELL	243096	05SCUMBL	1	138	205 AEP	158	183 Base Case	0	26.7	-	16.92	0	0.04%
239132 021	239132 02TALMDG	239320	02FLWR HOSP	1	138	202 ATSI	278	287 Base Case	0	-47	-	16.91	0	0.22%
242528 058	242528 05SPORN	248005	06KYGER	1	345	205/206 AEP/OVEC	1942	2332 Base Case	0	-328.1	-	16.9	0	4.49%
243258 050	243258 05CLEVEL	243517	05CAP AV	1	138	205 AEP	205	284 Base Case	0	-34.5	-	16.82	0	0.17%
242981 050	242981 05CARROLLTN3	246126	05SUNNYSIDE2	1	138	205 AEP	335	392 Base Case	0	56.3	-	16.81	0	-0.10%
243008 05E	243008 05FREMCT	243130	OSTIFFIN	2	138	205 AEP	283	396 Base Case	0	47.5	-	16.78	0	-0.10%
243008 05E	243008 05FREMCT	243130	OSTIFFIN	1	138	205 AEP	283	396 Base Case	0	47.5	-	16.78	0	-0.10%
243070 050	243070 050HIOCT	246010	05PHILO2	2	138	205 AEP	136	167 Base Case	0	22.8	-	16.78	0	0.18%
247829 05#	247829 05AVIATION	247831	05DALMATN SS	1	138	205 AEP	293	341 Base Case	0	-49.1	-	16.77	0	0.12%
250032 08F	250032 08FRFLD1	250131	08WILEY2	1	138	212 DE0&K	198	198 Base Case	0	-33.2	-	16.75	0	0.20%
243146 050	243146 05WHEBRO	243532	05KIRK	1	138	205 AEP	167	245 Base Case	0	28	-	16.74	0	-0.14%
242920 05F	242920 05BELMON	242925	0.5KAMMER	1	765	205 AEP	4047	4571 Base Case	0	677.1	-	16.73	0	3.79%
238544 027	238544 02ASH 3	239098	02SBRN04	1	1.38	202 ATST	148	151 Base Case	0	24.8	-	16.73	0	-0.19%
247527 050	247527 05COVERT	256019	18PALTSD	1	345	205/218 AEP/METC	1722	1919 Base Case	0	287 8	-	16 71	0	1 09%
243305 051	243305 05HACTEN	243366	05BOB PK12	1	138	205 AEP	219	255 Base Case	0	-36.6	-	16.69	0	0.13%
243264 050	243264 05CONCOR	243283	05DUNLAP	1	138	205 AEP	187	233 Base Case	0	-31 2	_	16.69	0	0.15%
253031 095	253031 09HAT TEP	253130	OGELDEAN	1	138	209 DAX	196	241 Base Case	0	_32 7	_	16.68	0	0.03%
242524 051	242524 05HERE NORTH	235155	05UECC COUTU 71	1	120	205 AED	150	192 Page Case	0	-26.2	_	16.00	0	0.03%
243324 031	2245524 05hE55 NORTH	243033	OCDUALDI	1	120	203 AEF	100	114 Page Case	0	-20.3		16.67	0	0.09%
238667 021	238667 02D0ALR+	230000	02DUALRL AVENIBON	1	100	202 AISI	90	114 Base Case	0	10.3	-	10.07	0	0.00%
24/508 055	24/508 USSARDINIA	324267	4KENTON	1	138	205/363 AEP/LGEE	101	185 Base Case	0	-25.2	-	16.66	0	0.20%
253006 098	253006 09BATH	253047	09MIAMI	1 04	345	209 DAY	1255	13/4 Base Case	0	208.7	-	16.63	0	-0.59%
242941 050	242941 050H10CT	243070	050HIOCT	1 34	5/138	205 AEP	/53	830 Base Case	0	125.1	-	16.62	0	0.88%
238905 021	238905 02LNC.PK	238910	02LOWELL	1	138	202 ATSI	155	155 Base Case	0	-25.7	-	16.61	0	0.01%
238661 021	238661 02DKQ-16	238983	02NASQ16	1	138	202 ATSI	233	282 Base Case	0	38.7	-	16.6	0	-0.02%
249574 081	249574 08TDHNTR	249582	08GARVER	1	345	212 DEO&K	1509	1509 Base Case	0	250.4	-	16.6	0	0.94%
239211 021	239211 02IOQ-17	240350	02IV-NB+17	1	138	202 ATSI	273	332 Base Case	0	45.3	-	16.58	0	0.07%
242521 051	242521 05NAGEL	360102	8PHIPPS B NP	1	500	205/347 AEP/TVA	2522	2522 Base Case	0	-417.7	-	16.56	0	3.79%
243885 051	243885 05THORSS	243933	05AMBLER RDG	1	138	205 AEP	296	392 Base Case	0	48.9	-	16.54	0	0.42%
247804 051	247804 05DEVOLA	247806	05BELLRIDGSS	1	138	205 AEP	257	360 Base Case	0	-42.5	-	16.53	0	0.17%
243225 05F	243225 05KEYSTN	243232	05SORENS	1	345	205 AEP	897	1301 Base Case	0	148.1	-	16.51	0	-0.71%
246761 051	246761 05THREEC	246762	05GRFN W	1	138	205 AEP	140	140 Base Case	0	23.1	-	16.5	0	0.00%
243307 05H	243307 05HARTFO	243386	05VALLY	1	138	205 AEP	219	251 Base Case	0	36.1	-	16.49	0	-0.03%
243355 050	243355 050NTWA8 SS	246764	05SAUKTR	1	138	205 AEP	335	392 Base Case	0	-55.2	-	16.48	0	-0.06%
243377 055	243377 05SORENS	246982	05HUNT JT_BP	1	138	205 AEP	136	167 Base Case	0	22.4	-	16.47	0	0.10%
245511 051	245511 05INDUST PK2	246373	05SPY RUN1	1	138	205 AEP	287	337 Base Case	0	47.3	-	16.46	0	0.02%
243374 055	243374 05SELWOO	243920	05MAKAHOY	1	138	205 AEP	158	183 Base Case	0	-25.9	-	16.42	0	-0.01%
243218 051	243218 05DESOTO	243222	05FALL C	1	345	205 AEP	1025	1318 Base Case	0	-168.2	-	16.41	0	1.96%
242986 050	242986 05CROOKS	243104	05SLANCS	1	138	205 AEP	167	167 Base Case	0	27.4	-	16.41	0	-0.13%
238859 021	238859 02KIQ-11	238932	02LYDQ11	1	138	202 ATSI	273	332 Base Case	0	-44.8	-	16.41	0	-0.20%
243387 051	243387 05VANBUR	246982	05HUNT JT BP	1	138	205 AEP	136	167 Base Case	0	-22.3	-	16.39	0	0.10%
242998 05E	242998 05EPOINT	243001	05EZANEV	1	138	205 AEP	205	284 Base Case	0	33.6	-	16.38	0	0.16%
247715 05E	247715 05BLUE RACER	247757	05HERLAN SW	1	138	205 AEP	296	413 Base Case	0	-48.4	-	16.34	0	-0.04%
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243049 051	243049 05NATRIUM12	243119 05SOMERTON Z	1	138	205	AEP	187	240 Base Case	0	30.5	-	16.34	0	-0.21%
243466 054	243466 05ASTOR	244868 05BRICE	1	138	205	AEP	191	222 Base Case	0	-31.2	-	16.33	0	0.05%
243456 050	243456 05CORRID	243855 05JUG ST	1	345	205	AEP	1868	1868 Base Case	0	305	-	16.33	0	-0.01%
238843 02	238843 02JNPB04	239052 02PV 04	1	1.38	202	ATST	2.65	332 Base Case	0	43.2	-	16.31	0	-0.26%
242673 05H	242673 05HUBTWN	242835 05TRISTA	1	138	205	AEP	251	335 Base Case	0	40.9	-	16.3	0	0.04%
243219 050	243219 0.5 DUMONT	255113 17STILLWELL	1	345	205/217	AEP/NIPS	1409	1409 Base Case	0	-229.4	-	16.28	0	6,17%
238840 025	238840 02JNPB01	239049 02PV 01	1	1.38	202	ATST	267	332 Base Case	0	43.4	-	16.27	0	-0.22%
238975 02N	238975 02N EAST	239239 02MEDCO	1	1.38	202	ATST	194	237 Base Case	0	-31.6	-	16.27	0	0.10%
243056 05N	243056 05NEWCOM	243144 05WCAMBR	1	1.38	205	AEP	287	291 Base Case	0	-46.6	-	16.24	0	0.19%
242971 05F	242971 05BBYAN	243029 05LCKWBD	1	138	205	AEP	232	232 Base Case	0	-37 6	-	16.23	0	0.00%
250055 08T	250055 08LTEBL7	250056 08LTEBL8	71	138	212	DEO&K	394	394 Base Case	0	63.9	-	16.23	0	-0.08%
238637 020	238637 02CPP LS	238660 02DTVISN	1	138	202	ATST	170	193 Base Case	0	-27 6	_	16.23		0.32%
238878 021	238878 02LB 012	239282 02PB0012	1	138	202	ATST	355	434 Base Case	0	57.6	_	16.22	0	0.00%
238812 021	238812 02H0YTDL	239936 02MCCLELLAND	1	345	202	ATSI	1380	1646 Base Case	0	-223 5	-	16.2	0	0.00%
238877 021	238877 02LAO-13	239283 02PB0013	1	138	202	ATST	347	423 Base Case	0	-56 1	-	16.18	0	0.00%
242564 055	242564 05BBADL1	242653 05GBANDV	1	138	205	AFP	335	392 Base Case	0	54 2	_	16.18	0	-0.02%
238710 025	238710 02EYO-14	238711 02EYTP14	1	138	203	ATST	347	423 Base Case	0	-56 1	-	16.17	0	0.02%
249987 08F	249987 08BETHNY	250098 08SHAKEB	1	138	212	DEO&K	394	394 Base Case	0	-63 7	-	16.16	0	0.08%
242525 058	242525 05KANAWH	242528 05SPOBN	1	345	205	AEP	943	943 Base Case	0	-152 2	-	16.14	0	0.52%
239739 020	239739 02CROMWELL	241926 02ASTOR014	1	1.38	202	ATST	435	500 Base Case	0	70.2	-	16.13	0	0.45%
243088 055	243088 055. POINT1	245615 05S. POINT2	71	1.38	205	AEP	240	309 Base Case	0	38.7	-	16.12	0	0.03%
242556 055	242556 05BLUEFLD AV	242784 058 BLUE	1	138	205	AEP	251	251 Base Case	0	40 5	-	16.12	0	0.22%
238569 025	238569 02BEAVER	238607 02CABLTL	1	345	202	ATST	1380	1646 Base Case	0	221 9	-	16.08	0	2 19%
243208 05	243208 05JEFBS0	242865 05JEFBS0	2	765/345	205	AEP	2889	3039 Base Case	0	464.3	-	16.07	0	3.02%
247064 051	247064 0.5KANAWHA2	247092 05KANAWH BSZ	7M	1.38	205	AEP	383	449 Base Case	0	-61.5	-	16.06	0	-0.04%
243015 050	243015 05GREENL	243130 05TTEETN	1	138	205	AEP	257	360 Base Case	0	-41 3	-	16.06	0	-0.07%
238896 021	238896 02LTMECT	239227 02-1STSL	1	138	202	ATST	288	353 Base Case	0	46.2	-	16.05	0	0.12%
242705 051	242705 05LOGAN2	247634 05LYBURN SS	1	1.38	205	AEP	296	413 Base Case	0	-47.4	-	16.01	0	-0.10%
242522 057	242522 05AMOS	242528 05SPORN	1	345	205	AEP	897	897 Base Case	0	143.5	-	16	0	-0.16%
238763 020	238763 02GB 0-4	239052 02PV 04	1	1.38	202	ATST	103	132 Base Case	0	-16.4	-	15.95	0	-0.35%
243664 051	243664 05HAZARD	243693 05HAZBD2	1	161/138	205	AEP	350	350 Base Case	0	55.5	-	15.87	0	0.51%
242658 050	242658 05GBEENB	242777 05BONCVB	1	1.38	205	AEP	110	110 Base Case	0	-17.4	-	15.84	0	0.00%
243366 055	243366 05ROB PK12	246993 05PURDUE	1	138	205	AEP	296	392 Base Case	0	46.9	-	15.84	0	-0.02%
243342 05N	243342 05MILAN	243877 05DAWKNS	1	138	205	AEP	167	245 Base Case	0	-26.4	-	15.84	0	-0.13%
249570 081	249570 08P.UNON	249575 08TERMNL	1	345	212	DEO&K	1509	1509 Base Case	0	-238.8	-	15.83	0	1.59%
243703 051	243703 05TOPMOS	244688 05BEAVER CR2	1	138	205	AEP	158	183 Base Case	0	-24.9	-	15.79	0	-0.37%
243279 051	243279 05DIAMND	243890 05WOODSR	1	138	205	AEP	251	335 Base Case	0	39.5	-	15.74	0	0.32%
242540 057	242540 05APPLE1	243095 05SCOTTOWNSS	1	138	205	AEP	167	167 Base Case	0	-26.3	-	15.72	0	0.05%
238876 021	238876 02LAQ-12	239282 02PR0012	1	138	202	ATSI	355	434 Base Case	0	-55.8	-	15.72	0	0.00%
238617 020	238617 02CHMBER	238814 02HUDMUN	1	138	202	ATSI	200	242 Base Case	0	31.4	-	15.69	0	0.04%
242549 05E	242549 05BANSTR	242550 05BEARSK	1	138	205	AEP	335	392 Base Case	0	-52.5	-	15.68	0	-0.16%
246102 050	246102 05CARROLLTN2	246167 05CARROLLTN1	ZP	138	205	AEP	548	555 Base Case	0	85.9	-	15.67	0	-0.20%
245533 05H	245533 05HOLLOWAY34	247131 05HOLLOWAY12	Z2	138	205	AEP	747	747 Base Case	0	116.7	-	15.62	0	0.07%
245533 05H	245533 05HOLLOWAY34	247131 05HOLLOWAY12	Z1	138	205	AEP	747	747 Base Case	0	116.7	-	15.62	0	0.07%
242555 05E	242555 05BLAINE	242773 05ROANO1	1	138	205	AEP	219	223 Base Case	0	34.2	-	15.62	0	0.01%
239316 020	239316 02WASHREC	239988 02FE-POLO	1	138	202	ATSI	275	333 Base Case	0	-42.9	-	15.61	0	0.20%
243218 050	243218 05DESOTO	243792 05LOSANTVILL	2	345	205	AEP	1025	1132 Base Case	0	-159.9	-	15.6	0	-1.51%
242958 05E	242958 05BATTLE	243133 05VALLEY GRV	2	138	205	AEP	205	205 Base Case	0	31.8	-	15.52	0	-0.26%
244022 050	244022 05COLE	244023 05COLE	2	345/138	205	AEP	941	956 Base Case	0	145.9	-	15.51	0	0.06%
238727 021	238727 02WLBCT+	238936 02MACLEA	1	138	202	ATSI	278	343 Base Case	0	-43.1	-	15.5	0	-0.12%
243467 05E	243467 05E.BROAD3	243532 05KIRK	1	138	205	AEP	297	338 Base Case	0	-46	-	15.5	0	-0.05%
242563 05E	242563 05BOXWD	242603 05CLIFFR	1	138	205	AEP	167	167 Base Case	0	25.9	-	15.5	0	0.52%
242986 050	242986 05CROOKS	244560 05ISABELLA	1	138	205	AEP	124	124 Base Case	0	19.2	-	15.46	0	-0.07%
242952 055	242952 O5SHEPLER SS	245109 05AGAGAS	1	138	205	AEP	145	177 Base Case	0	22.4	-	15.44	0	0.00%
238703 02E	238703 02ESPRNG	238908 02LONDON	1	138	202	ATSI	200	242 Base Case	0	-30.9	-	15.43	0	-0.13%
243275 051	243275 05DELAWR1	245803 05DELAWR2	Z1	138	205	AEP	110	120 Base Case	0	17	-	15.43	0	-0.11%

238962 02N	238962 02MIDWAY	239263 02ST	LUKE	1	138	202	ATSI	288	346 Base Case	0 44.4	-	15.43	0	0.01%
243284 051	243284 05DUPONT	243890 05W00	ODSR	1	138	205	AEP	219	255 Base Case	0 -33.7	-	15.4	0	0.32%
243312 055	243312 05HUMMET	246968 0500	OVIL	1	1.38	205	AEP	251	251 Base Case	0 38.5	-	15.35	0	0.20%
242787 05N	242787 05MIDDLEB SS	243019 05HTI	LLSB	1	138	205	AEP	300	300 Base Case	0 -46	-	15 34	0	-0 12%
242589 050	242589 05CENTCB	243883 05LA	KEFR	1	138	205	AEP	167	245 Base Case	0 -25 6	-	15 32	0	0.05%
242772 055	242772 05BIVERV	247632 05AM	HERST	1	138	205	AEP	219	251 Base Case	0 33 5	-	15 29	0	0.27%
243386 051	243386 05VALLY	247329 0555	INGER	1	138	205	AEP	251	251 Base Case	0 38 3	-	15 24	0	0.02%
244023 050	243300 03VALLI	247325 0551	TINGEN	1	138	205	ADD	564	683 Base Case	0 90	_	15.24	0	0.02%
242744 051	244025 05COLL	247100 05ET	ELDATE2	1	120	205	AD	202	241 Base Case	0 44 6		15.24	0	0.00%
242744 031	242744 0JFAICIR	243733 0JEI	CUL D	1	130	200	ADD	295	341 Base Case	0 22 0		15.24	0	0.00%
238783 020	238785 02JOHNMAN-2	239070 02RT	CHLD	1	130	202	AISI	210	204 Base Case	0 -32.3	-	15.23	0	0.00%
238782 UZF	238782 02HANNA	238999 UZNER	ALLS	1	130	202	AISI	273	333 Base Case	0 -41.0	_	15.21	0	-0.16%
242589 050	242589 05CENTCR	242681 0510	Y HL	1	138	205	AEP	167	245 Base Case	0 25.4	-	15.2	0	0.05%
242626 058	242626 05E.HUNTING2	245664 U5E.	HUNTINGI	ZI .	138	205	AEP	287	337 Base Case	0 -43.5	-	15.17	0	0.05%
242989 058	242989 USE LIMA	243125 U5TH	AYER	1	138	205	AEP	219	223 Base Case	0 33.2	-	15.17	0	-0.14%
238664 021	238664 U2DOBINS	238910 02L0	WELL	1	138	202	ATSI	204	209 Base Case	0 30.9	-	15.16	0	0.05%
238528 027	238528 02AETNA	238560 02BAI	BB	1	138	202	ATSI	233	282 Base Case	0 35.3	-	15.15	0	-0.06%
243245 057	243245 05ANTHYZ	245832 05LII	NCOLN2	1	138	205	AEP	251	251 Base Case	0 -38	-	15.13	0	-0.28%
247106 05\	247106 05VARNER	247790 05DUI	NTONLAKE	1	138	205	AEP	257	360 Base Case	0 38.8	-	15.1	0	0.01%
239215 02E	239215 02BRIGHT	239216 02TR	OY	1	138	202	ATSI	157	189 Base Case	0 23.7	-	15.09	0	-0.21%
243933 057	243933 05AMBLER RDG	247793 05LII	NDEN RD	1	138	205	AEP	296	413 Base Case	0 44.6	-	15.07	0	0.42%
245822 051	245822 05LIGONIER1	247433 05CH	ARGER	Z1	138	205	AEP	94	105 Base Case	0 -14.2	-	15.07	0	0.00%
238962 021	238962 02MIDWAY	238979 02NA	PMUN	1	138	202	ATSI	161	194 Base Case	0 24.3	-	15.07	0	-0.20%
238532 027	238532 02ALLNJB	239344 02AL1	LEN-2	ZB	138	202	ATSI	563	563 Base Case	0 -84.8	-	15.07	0	0.28%
242736 050	242736 050AKLEV	243799 05FI	ELDALE2	1	138	205	AEP	223	223 Base Case	0 -33.6		15.05	0	0.12%
238700 025	238700 02EPWRTH	239058 02BR	USHCRK	1	138	202	ATSI	278	339 Base Case	0 41.8	-	15.04	0	-0.02%
239010 021	239010 02NORDON	239617 02SO	UREK	1	138	202	ATSI	200	242 Base Case	0 30.3	. –	15.04	0	-0.14%
243110 055	243110 05STIFFI	243137 05W.1	END FOS1	1	138	205	AEP	167	167 Base Case	0 -25.2	. –	15.03	0	0.22%
243665 051	243665 05LESLIE	243668 05WO	OTON	1	161	205	AEP	192	208 Base Case	0 28.8	-	15.02	0	0.20%
238701 02E	238701 02ERQ-11	238743 02ER	-DNB+Q11	1	138	202	ATSI	273	332 Base Case	0 -42	. –	15.02	0	0.00%
243136 050	243136 05W LIMA	243777 05LIN	MA REFIN	Z2	138	205	AEP	347	347 Base Case	0 52	-	15	0	0.00%
243136 050	243136 05W LIMA	243777 05LIN	MA REFIN	Z1	138	205	AEP	347	347 Base Case	0 52	-	15	0	0.00%
243242 05A	243242 05ALLEN	243330 05LII	NCOLN1	2	138	205	AEP	260	260 Base Case	0 39		14.99	0	-0.19%
253004 09F	253004 09AMSTRD	253150 09HNI	DAAT	1	138	209	DAY	221	272 Base Case	0 -33.3	. –	14.98	0	-0.09%
242993 05E	242993 05E.LEIPSIC2	246354 05E.1	LEIPSIC1	ZG	138	205	AEP	329	361 Base Case	0 49.2	-	14.96	0	0.07%
242549 05E	242549 05BANSTR	242632 05ED	AN 2	1	138	205	AEP	296	296 Base Case	0 44.3	-	14.96	0	-0.16%
238575 02E	238575 02BLUBEL	239299 02BRI	LAKE	1	138	202	ATSI	117	147 Base Case	0 -17.5	-	14.95	0	-0.27%
242510 05E	242510 05BAKER	242511 05BR0	OADF	1	765	205	AEP	4142	4142 Base Case	0 618.9		14.94	0	0.64%
243004 05E	243004 05FINDLC	243033 05TH	ORNWD SS	1	138	205	AEP	200	254 Base Case	0 -29.9		14.94	0	-0.02%
242755 05F	242755 05PIPERS	245117 05W.	CARROLL	1	138	205	AEP	251	251 Base Case	0 37.5	i –	14.93	0	-0.02%
238960 02N	238960 02MIDW K	239371 02001	WLING	1	138	202	ATSI	158	190 Base Case	0 -23.0	-	14.92	0	-0.16%
242767 055	242767 05RIDGWA	242797 05SH	EFLD	1	138	205	AEP	167	167 Base Case	0 24.0		14.91	0	0.05%
242976 055	242976 05BUCYRC	243117 0550	LFRS	1	138	205	AEP	164	180 Base Case	0 -24	-	14.88	0	-0.06%
242959 055	242959 05BET DVT	243142 0.5WA	YVIE	1	1.38	205	AEP	2.51	335 Base Case	0 37	-	14.86	0	-0.03%
242981 050	242981 05CARROLLTN3	246167 05CA	RROLLTN1	ZN	138	205	AEP	548	555 Base Case	0 -81	-	14.83	0	-0.20%
243422 055	243422 05POINTL	247794 0500	0	1	138	205	AEP	180	227 Base Case	0 -26	_	14 81	0	0.04%
243490 050	243490 05CORNER	243496 0500	NGRES SS	1	138	205	AEP	195	220 Base Case	0 -28 8	-	14 79	0	-0 33%
245533 051	245533 05HOLLOWAY34	245539 0500	LLOWAY56	7.4	138	205	AEP	7/7	747 Base Case	0 _110	-	14.75	0	-0.04%
245533 051	245533 05HOLLOWAT34	245520 0500	LLOWAY56	72	120	205	AD	747	747 Base Case	0 -110.3		14.76	0	-0.04%
239371 025	239371 02DOWT TNC	240990 0200	MEDEPOT	1	130	203	ATST	250	291 Base Case	0 _110.	_	11 76	0	-0.23%
244142 05	244142 05MADOUE	240330 02HOI	CUAD	1	100	202	AED	202	231 Dase Case	0 - 37.2		14.70	0	-0.23%
244142 USP	244142 UDMARQUETTE	244143 USKU	UNCO	1	100	205	AD	201	270 Base Case	0 3	-	14./3	0	-0.59%
243080 050	243680 USCEDARC	243695 U5J0	HNSU	1	138	205	AEP	296	3/8 Base Case	0 -43.0	-	14./4	0	-0.31%
2432/4 051	2432/4 USDEEK CRKI	246051 05DE	ER CRKZ	<u>م</u> ل	138	205	ALP	187	240 Base Case	0 -27.5	-	14./1	0	0.21%
239048 021	239048 UZPPPINE	239058 02BR	USHCRK	1	138	202	ATSI	265	316 Base Case	0 -39	-	14.7	0	-0.02%
242669 U5F	242669 U5HOLST1	242/39 050R	EBANK	1	138	205	AEP	167	16/ Base Case	0 -24.5	-	14.68	0	0.10%
243019 05F	243019 05HILLSB	246911 05HI	GHLA	1	138	205	AEP	296	413 Base Case	0 43.4	-	14.67	0	0.13%
238731 02E	238731 02FOX	238783 02HAI	RDIN	1	345	202	ATSI	1542	1878 Base Case	0 -226	-	14.66	0	-0.55%

243285 05E	243285	05E.SIDE	246066	05S.BEND2	1	138	205 AEP	219	251 Base Case	0 32.1	-	14.65	0	-0.16%
270163 AB2	270163	AB2-067 MAIN	270133	AB2-067 GSU	1	765/230	205 AEP	9999	9999 Base Case	0 -1463.6	-	14.64	0	-0.91%
270162 AB2	270162	AB2-067 TAP	270163	AB2-067 MAIN	1	765	205 AEP	9999	9999 Base Case	0 -1463.6	-	14.64	0	-0.91%
238629 020	238629	02CLVBDL	247700	05VAGER	1	138	202/205 ATST/AEP	196	228 Base Case	0 -28 6	_	14 61	0	0.07%
240349 020	240349	02GBOVWD014	241237	02GROV TP	1	138	202 ATST	355	434 Base Case	0 -51.8	-	14.58	0	0.00%
242702 051	240345	051 FETEK	242206	05LOONEY	1	138	205 AFP	195	220 Base Case	0 31.0	_	14.56	0	-0.04%
242702 031	242702	05LEFIFK	242700	OF MUCKIC FOR	1	130	205 AEF	195	ZZU Base Case	0 111 5	-	14.50	0	-0.04%
24/3/1 030	24/3/1	05MUSKNGIB	247433	05MUSKNG_ESZ	26	130	205 AEP	766	764 Base Case	0 -111.5	-	14.56		1.70%
242512 050	242512	USCLOVRD	242524	05CLOVRD	10	/65/345	205 AEP	2250	2250 Base Case	0 327.5	-	14.56	0	1.76%
250000 080	250000	USCOLDSP	250132	08WLDERI	1	138	212 DEO&K	264	264 Base Case	0 38.4	-	14.55	0	-0.05%
243321 051	243321	05KENDAL	243375	05SKINNR	1	138	205 AEP	251	251 Base Case	0 -36.5	-	14.55	0	0.20%
244510 05E	244510	05BLOSSOM TR	245846	05RIVERSIDE2	1	138	205 AEP	136	167 Base Case	0 -19.7	-	14.51	0	-0.03%
242751 05E	242751	05PIGEON	242761	05RAGLDZ	1	138	205 AEP	158	183 Base Case	0 -22.9	-	14.49	0	0.00%
242939 05N	242939	05MARYSV	243903	05GUNN RD SS	1	345	205 AEP	897	1151 Base Case	0 129.9	-	14.48	0	-1.34%
242931 05E	242931	05BEVERL	247566	05LAMPING_BP	1	345	205 AEP	971	971 Base Case	0 140.6	-	14.48	0	2.60%
243104 055	243104	05SLANCS	243149	05W.LANCAST1	1	138	205 AEP	167	167 Base Case	0 -24.2	-	14.48	0	0.12%
247130 05H	247130	05HOLLOW	247566	05LAMPING_BP	1	345	205 AEP	971	971 Base Case	0 -140.3	-	14.45	0	2.60%
242718 05N	242718	05MINNXM	242733	05NEWHOP	1	138	205 AEP	296	296 Base Case	0 42.7	-	14.42	0	0.18%
247712 055	247712	05SULLIVAN	346809	7CASEY	1	345	205/357 AEP/AMIL	1334	1466 Base Case	0 -191.6	-	14.36	0	7.55%
238845 023	238845	02JONSON	238971	02MURRAY	1	138	202 ATSI	196	242 Base Case	0 28	-	14.3	0	0.06%
243527 05F	243527	05HYATTX	245952	05DLAWAR1	1	138	205 AEP	335	380 Base Case	0 47.8	-	14.27	0	0.00%
243526 051	243526	0.5HYATT	243527	0.5HYATTX	SR	1.38	205 AEP	335	380 Base Case	0 47.8	-	14.27	0	0.00%
235378 01N	235378	01NMARTN	246067	05NATRIIM34	1	138	201/205 AP/AEP	148	192 Base Case	0 21 1	-	14 27	0	0.00%
242724 05N	242724	05MOSELEV	240007	05ROANO2	1	138	205 AFP	167	240 Base Case	0 -23.8	_	14.26	0	0.00%
242724 UJP	242724	OPENCELEI	242774	03ROANO2	1	120	203 AEF	107	240 Base Case	0 142.4		14.20	0	-0.05%
238085 028	230003	OZEASILK	241924	OZELQ4	1	130	202 A151	333	999 Base Case	0 142.4	-	14.25		-0.03%
243575 058	243575	USST.CLR	243576	05ST.CLX	SR	138	205 AEP	191	229 Base Case	0 -27.2	-	14.25		0.09%
238864 021	238864	U2KNOX	239316	02WASHREC	1	138	202 ATS1	275	333 Base Case	0 -39.1	-	14.21	0	0.20%
238569 02E	238569	02BEAVER	238570	02BEAVER	2	345/138	202 ATSI	583	741 Base Case	0 82.9	-	14.21	0	-0.10%
250050 081	250050	08KMPER1	250051	08KMPER2	Z1	138	212 DEO&K	406	454 Base Case	0 57.7	-	14.21	0	-0.12%
250066 081	250066	08MLHSR1	250067	08MLHSR2	Z1	138	212 DEO&K	394	394 Base Case	0 -55.9	-	14.2	0	-0.12%
242662 05H	242662	05HALES2	242702	05LEFTFK	1	138	205 AEP	251	335 Base Case	0 35.5	-	14.16	0	-0.04%
243502 05E	243502	05E.BROAD	243581	05TAYLOR	1	138	205 AEP	240	309 Base Case	0 -34	-	14.15	0	-0.10%
235350 011	235350	01IVYDAL	247793	05LINDEN RD	1	138	201/205 AP/AEP	164	206 Base Case	0 -23.2	-	14.14	0	0.04%
243455 050	243455	05CONES	243488	05CONESVILLE	7	345/138	205 AEP	823	948 Base Case	0 116.4	-	14.14	0	0.23%
247105 05\	247105	05VARNER	247106	05VARNER	2	345/138	205 AEP	672	672 Base Case	0 95	-	14.13	0	0.31%
247105 05\	247105	05VARNER	247106	05VARNER	1	345/138	205 AEP	672	672 Base Case	0 95	-	14.13	0	0.31%
242511 05E	242511	05BROADF	242514	05J.FERR	1	765	205 AEP	4047	4142 Base Case	0 572	-	14.13	0	6.90%
200599 26E	200599	26ERIE W	238547	02AT	1	345	226/202 PENELEC/ATSI	1560	1900 Base Case	0 220.5	-	14.13	0	-3.53%
238799 02F	238799	02HKQ-22	239614	02BATH	1	138	202 ATSI	196	242 Base Case	0 -27.6	-	14.09	0	0.04%
238651 021	238651	02DANA	239263	02STLUKE	1	138	202 ATSI	288	353 Base Case	0 -40.6	-	14.09	0	0.01%
250132 080	250132	08WLDER1	250134	08YORK	1	138	212 DEO&K	291	291 Base Case	0 -40.9	-	14.07	0	-0.03%
238640 020	238640	02CRISS	238861	02KTRBY	1	138	202 ATST	1.52	179 Base Case	0 -21 3	-	14.03	0	0.23%
243673 055	243673	05BEEFHT	243685	0.5 DORTON	1	138	205 AEP	202	278 Base Case	0 _21.3	-	14 03	0	-0.04%
242742 051	242742	05PADEOR	247290	05HARMON	1	138	205 AFP	210	223 Base Case	0 30 7	-	14		-0 19%
222560 021	232/32	OPENVED	237250	OODEANED	1	245/120	202 ATET	502	741 Page Case	0 50.7	_	14	0	-0.10%
258509 021	250509	OZBEAVER	250570	OZBEAVER	1	120	202 A151	100	241 Dase Case	0 37.0	-	14	0	-0.10%
253031 09F	203031	09HALTER	233072	OSPRING	1	130	209 DA1	196	241 Base Case	0 27.4	-	12.07		1.40%
243218 U5I	243218	USDESUTO	243233	USTANNER	1	345	205 AEP	897	89/ Base Case	0 -125.3	-	10.05		-1.49%
238998 021	238998	UZNEVADA	239093	UZSAMMIS		138	202 ATSI	265	316 Base Case	0 -37	-	13.95		0.05%
238708 02F	238708	UZEVRGRN	239008	U2NILES	1	138	202 ATSI	240	310 Base Case	0 33.5	-	13.95	0	0.07%
243024 05F	243024	05HOWARD	243117	05SULFRS	1	138	205 AEP	205	205 Base Case	0 28.4	-	13.88	0	-0.06%
243244 052	243244	05ANTHY	243245	05ANTHYZ	1	138	205 AEP	164	180 Base Case	0 -22.8	-	13.87	0	0.01%
243485 050	243485	05CLINTO	243528	05KARL ROAD	1	138	205 AEP	145	145 Base Case	0 -20.1	-	13.83	0	-0.08%
238904 021	238904	02LMQ-11	238932	02LYDQ11	1	138	202 ATSI	324	395 Base Case	0 44.8	-	13.82	0	-0.20%
242704 051	242704	05LOGAN1	242779	05RUMCKZ	1	138	205 AEP	334	421 Base Case	0 -46.1	-	13.82	0	-0.15%
238735 02E	238735	02FOXQ14	240259	02FUQ-14	1	138	202 ATSI	347	423 Base Case	0 47.8	-	13.79	0	-0.22%
238809 02F	238809	02HMLQ14	240259	02FUQ-14	1	138	202 ATSI	347	423 Base Case	0 -47.8	-	13.79	0	-0.22%
244198 051	244198	05LEMASTER	247067	05GOODHP	1	138	205 AEP	196	247 Base Case	0 27	-	13.76	0	-0.10%

243274 051	243274 05DEER CRK1	243343 05MISSIS	1	138	205	AEP	187	240 Base Case	0	25.7	-	13.75	0	0.32%
238502 02E	238502 02BRIM	238962 02MIDWAY	1	138	202	ATSI	164	170 Base Case	0	-22.5	-	13.74	0	0.13%
243133 051	243133 05VALLEY GRV	246927 05SAND H	2	1.38	205	AEP	205	205 Base Case	0	28.1	-	13.72	0	-0.26%
238642 020	238642 02CBSLND	239199 02WN-STL	1	1.38	202	ATST	160	192 Base Case	0	21.9	-	13.72	0	0.06%
243672 055	243672 05BECKHA	243703 05TOPMOS	1	138	205	AEP	158	183 Base Case	0	-21 7	-	13 71	0	-0.37%
243310 055	243310 05HODGIN	243362 05BANDOL	1	138	205	AFP	219	247 Base Case	0	30	_	13 71		-0.20%
247003 050	247003 05005455	247165 05SBUNSS	1	138	205	AFP	219	255 Base Case	0	-30	_	13.7	0	0.00%
238678 021	238678 02EAKBON	238757 02CLCPST	1	130	203	ADI	187	191 Base Case	0	25.6	_	13.69	0	-0.00%
242200 051	242208 0541CVDV CV1	236757 02GLERST	77	120	202	AED	172	172 Page Case	0	23.0	_	12.60	0	0.05%
243308 036	245508 05HICKRI CRI	240000 05HICKRI CK2	1 1	130	200	ALF	173	173 Base Case	0	23.7	_	12.00	0	0.30%
238640 020	238640 UZCRISS	238969 UZMRGP +	1	130	202	AISI	209	1400 Base Case	0	100.4	-	13.00		0.22%
243219 051	243219 05D0MONT	243234 USIWIN B	2	343	205	AEP	1409	1409 Base Case	0	192.4	-	13.66		2.4770
243219 051	243219 05D0MONT	243234 USTWIN B	1	345	205	AEP	1409	1409 Base Case	0	192.4	-	13.66		2.47%
238942 021	238942 U2MAPLE	239180 022ELI-M	1	138	202	ATSI	308	376 Base Case	0	42	-	13.65	0	0.51%
243056 051	243056 USNEWCOM	243094 05SCOSHC	1	138	205	AEP	150	1/3 Base Case	0	-20.5	-	13.64		0.58%
243273 051	243273 05DARDEN	243359 05PINERD	1	138	205	AEP	167	167 Base Case	0	-22.8	-	13.62	0	0.47%
243014 050	243014 05GRBLOP	247108 05SOWERS	1	138	205	AEP	223	310 Base Case	0	30.4	-	13.62	0	0.40%
243064 051	243064 05NPROCT	245615 05S.POINT2	1	138	205	AEP	240	251 Base Case	0	32.7	-	13.62	0	0.01%
238570 02E	238570 02BEAVER	239738 020AKPOINT	1	138	202	ATSI	200	242 Base Case	0	27.2	-	13.62	0	-0.39%
244560 051	244560 05ISABELLA	246308 05NEWARKC_BP	1	138	205	AEP	124	124 Base Case	0	16.9	-	13.61	0	-0.07%
238745 020	238745 02GALION	242941 050HIOCT	1	345	202/205	ATSI/AEP	1228	1330 Base Case	0	-166.9	-	13.59	0	-0.60%
253050 09N	253050 09MONUM2	253096 09WYAND2	1	138	209	DAY	195	195 Base Case	0	26.5	-	13.58	0	0.00%
242638 05E	242638 05FIELDALE1	242831 05THORNT	1	138	205	AEP	150	204 Base Case	0	20.4	-	13.57	0	0.16%
238727 021	238727 02WLBCT+	239162 02WALBRD	1	138	202	ATSI	163	163 Base Case	0	22.1	-	13.57	0	0.00%
244142 05N	244142 05MARQUETTE	247489 05BOSSERMAN	1	138	205	AEP	251	335 Base Case	0	34.1	-	13.57	0	-0.39%
243215 050	243215 05COOK	247803 05SEGRETO	1	345	205	AEP	1409	1868 Base Case	0	-191.1	-	13.56	0	-2.45%
243483 050	243483 05CRCLVS	243522 05HARRISON	2	138	205	AEP	323	451 Base Case	0	43.8	-	13.56	0	0.02%
243483 050	243483 05CRCLVS	243522 05HARRISON	1	138	205	AEP	323	451 Base Case	0	43.8	-	13.56	0	0.02%
250011 081	250011 08DERPK1	250012 08DERPK2	Z1	138	212	DEO&K	406	454 Base Case	0	-55	-	13.55	0	0.00%
245964 051	245964 05N.NEWARK2	246308 05NEWARKC_BP	1	138	205	AEP	124	124 Base Case	0	-16.8	-	13.54	0	-0.07%
238913 021	238913 02LRCRQ2	239113 02SP Q-2	1	138	202	ATSI	148	151 Base Case	0	20	-	13.54	0	0.18%
238906 021	238906 02LNGVEW	238938 02MADISN	1	138	202	ATSI	160	192 Base Case	0	-21.6	-	13.53	0	-0.22%
242628 05E	242628 05E.LYNN	247243 05SHERID	1	138	205	AEP	296	378 Base Case	0	40	-	13.53	0	0.03%
242623 051	242623 05DAWES	247064 05KANAWHA2	1	138	205	AEP	223	223 Base Case	0	-30.1	-	13.5	0	-0.10%
247034 05B	247034 05EMERSS	247508 05SARDINIA	1	138	205	AEP	151	185 Base Case	0	-20.3	-	13.46	0	0.20%
243309 05H	243309 05HILLCR	243390 05WAYNED	1	138	205	AEP	219	251 Base Case	0	-29.4	-	13.44	0	0.34%
243533 051	243533 05LAYMAN	247319 05WOLFCK	1	138	205	AEP	205	255 Base Case	0	-27.5	-	13.44	0	0.60%
238745 020	238745 02GALION	242942 05SBERWI	1	345	202/205	ATSI/AEP	1228	1409 Base Case	0	-164.8	-	13.42	0	1.35%
243311 05A	243311 05ARN HOGAN	245803 05DELAWR2	1	138	205	AEP	205	247 Base Case	0	27.4	-	13.36	0	0.17%
243272 051	243272 05DALEVI	245946 05MADISON2	1	138	205	AEP	187	233 Base Case	0	-24.9	-	13.34	0	0.14%
238673 02E	238673 02E IND	239079 025 EAST	1	138	202	ATSI	194	237 Base Case	0	-25.9	-	13.34	0	-0.10%
238586 02E	238586 02BRKSID	239216 02TROY	1	138	202	ATSI	147	179 Base Case	0	-19.6	-	13.33	0	-0.21%
238815 021	238815 02IKQ-15	238841 02JNPRQ2	1	138	202	ATSI	223	286 Base Case	0	-29.7	-	13.32	0	-0.01%
243029 05I	243029 05LCKWRD	243086 05S HICK	1	138	205	AEP	223	310 Base Case	0	-29.7	-	13.31	0	1.04%
253049 09N	253049 09MONUM1	253095 09WYAND1	1	138	209	DAY	195	195 Base Case	0	25.9	-	13.29	0	0.00%
243686 05E	243686 05EXCELT	243694 05INEZ	1	138	205	AEP	548	601 Base Case	0	-72.8	-	13.29	0	-0.10%
238651 021	238651 02DANA	238786 02HAWTHO	1	138	202	ATSI	288	353 Base Case	0	38.2	-	13.28	0	0.01%
247712 059	247712 05SULLIVAN	254529 16PETE	1	345	205/216	AEP/IPL	1409	1409 Base Case	0	-186.8	-	13.26	0	-1.40%
242760 0.51	242760 05PROGPK	247850 05TOWN CREEK	1	138	205	AEP	296	413 Base Case	0	.39.2	-	13.25	0	-0.04%
243286 0.58	243286 05EDTSON2	244119 05GRAVEL PTT	1	138	205	AEP	1.58	183 Base Case	0	20.9	-	13.23	0	0.36%
239728 025	239728 02BLKRVR	241932 02AMH_MUN2	1	138	202	ATSI	498	573 Base Case	0	-65.8	-	13.21	0	0.43%
250075 081	250075 08MTGRV1	250076 08MTGRV2	21	138	202	DEO&K	406	454 Base Case	0	53.6	-	13.2		-0.07%
243066 051	243066 05NW LTM	243157 05WOODLA	1	138	212	AEP	205	205 Base Case	0	27	- 1	13.2		0.00%
243510 050	243510 05G2H2NN	243523 05HCREAN	1	138	205	AEP	150	212 Base Case	0	19.8	-	13.19		-0 14%
237081 771	237081 222-121 777	242946 05#TDD	1	372	201/205	AP/AEP	1/00	1409 Base Case	0	195 4	-	13.17		-3 /17%
243578 054	243578 05STRODZ	244230 059110Dav 99	1	132	201/203	AEP	250	325 Base Case	0	200.0	-	13.16		0.25%
243485 054	243485 0501 1002	243487 05CUK TAD 7	1	120	200	AEP	105	220 Base Case	0	-25 4	-	13.14		-0.06%
240400 000	240400 UJCLINIU	23340/ UJCHN IAP Z	1 1	100	200	101	190	ZZU DASE CASE	U	-20.0	-	13.14	U	0.00%

242640 05F	242640 05FLOYD	242750	05PHILPOTT Z	1	138	205	AEP	205	280 Base Case	0 -26.9	-	13.14	0	-0.05%
243284 050	243284 05DUPONT	246172	05DUPONT 8	Z1	138	205	AEP	167	245 Base Case	0 21.9	-	13.14	0	0.00%
243057 051	243057 05NEW LIBR1	247893	05FLAG CITY	1	138	205	AEP	150	212 Base Case	0 -19.7	-	13.13	0	-0.26%
235198 018	235198 01KEISTB	239350	02CAMPBL	1	1.38	201/202	AP/ATST	278	339 Base Case	0 36.4	-	13.1	0	-0.53%
238500 027	238500 02ALLEN-1	238532	02ALLNJB	ZB	1.38	202	ATST	563	563 Base Case	0 73.6	-	13.08	0	0.25%
238693 025	238693 02ELM	239031	02PACKRD	1	1.38	202	ATST	157	196 Base Case	0 -20.5	_	13.07	0	0.02%
239354 025	239354 02HARMON	247460	05NOTTINGH34	1	138	202/205	ATST/AEP	273	332 Base Case	0 -35 6	_	13 04	0	0.06%
238733 025	238733 02F0X012	239033	02PDB012	1	138	202,200	ATSI	355	434 Base Case	0 46.3	-	13.04	0	-0.14%
250025 085	250025 08FLDMN1	250026	08FLDMN2	71	138	212	DEO&K	406	454 Base Case	0 52 9	-	13 03	0	0.07%
242526 058	242526 05KANAWZ	242527	05M FUNK	1	345	205	AEP	1132	1132 Base Case	0 147 4	-	13.02	0	0.92%
238696 025	238696 02ELWOD+	238905	02LNC PK	1	138	202	ATST	155	155 Base Case	0 20 2	_	13.01	0	-0.04%
243331 051	243331 05LTNW00	243920	05MAKAHOY	1	138	205	AEP	187	240 Base Case	0 24 2	_	12 96	0	-0.10%
242938 05N	242938 05MAROUT	248005	06KYGER	1	345	205/206	AEP/OVEC	971	971 Base Case	0 -125.8	_	12.95	0	-0.83%
250018 08F	250018 08EMW0D1	250019	0.8EMWOD6	71	138	203/200	DEO&K	273	287 Base Case	0 125.0	-	12.95	0	-0.08%
242656 050	242656 05CRASSH	242736	050AKLEV	1	138	205	AEP	219	223 Base Case	0 -28 3	-	12.90	0	0.12%
242965 055	242965 058PTDCEVIL7	242083	05CHANDI ERVZ	1	138	205	AFD	335	482 Base Case	0 -43 3	_	12.94	0	0.12%
242995 055	242995 05EASTOW	245516	05BOCKHILL2	1	138	205	AEP	187	240 Base Case	0 -24 2	-	12.94	0	0.00%
245533 055	245533 05HOLLOWAY34	247840	05DTLESBTMZ1	1	138	205	AEP	466	564 Base Case	0 -60 3	-	12.94	0	0.14%
243242 052	243242 05ALLEN	247864	05LOGTOWN	1	138	205	AEP	281	281 Base Case	0 36.3	-	12.55	0	0.57%
242801 054	242801 05SKEGGS BR7	246828	05SKEGGS BR	71	138	205	AEP	158	167 Base Case	0 20 3	-	12.5	0	0.00%
242743 055	242743 05PARKHT	242842	05W HUNT	1	138	205	AEP	146	167 Base Case	0 -18.8	-	12.86	0	0.08%
243532 054	243532 05KTRK	247767	05HAZELTON	1	138	205	AEP	564	747 Base Case	0 72 4	-	12.84	0	-0.08%
246887 055	246887 05BAMEY	247652	05HOODSCBK	1	138	205	AEP	251	335 Base Case	0 32 2	-	12.83	0	-0.03%
238658 021	238658 02DECANT	239030	020TTAWA	1	138	202	ATST	242	296 Base Case	0 31	_	12.00	0	0.39%
249578 085	249578 08HTLCBT	250136	08HTLCBT	1	345/138	212	DEO&K	480	501 Base Case	0 61 3	-	12.77	0	0.01%
243354 050	243354 050NTWA8	243355	050NTWA8 SS	1	138	205	AEP	185	185 Base Case	0 -23 6	_	12.77	0	0.01%
242530 055	242530 05EDANV1	304024	6BOXSEP230 T	1	230	205/340	AEP/CPLE	621	771 Base Case	0 -79 2	-	12.75	0	-0.38%
235418 010	235418 01WASHMP	243490	05CORNER	1	138	201/205	AP/AEP	282	332 Base Case	0 -35 9	-	12.75	0	0.00%
239075 025	239075 02805EMT	239161	02WAKBON	1	138	202,200	ATST	233	282 Base Case	0 29 7	_	12.74	0	0.07%
238509 025	238509 02FBEY	239310	02BPHUSKY	1	138	202	ATSI	241	292 Base Case	0 -30 7	-	12.74	0	0.00%
242635 055	242635 05ELKGAB	246766	05ELKGAZ	1	138	205	AEP	145	145 Base Case	0 -18 4	-	12 7	0	0.00%
247319 050	247319 05WOLECK	247370	05MUSKNG1A	1	138	205	AEP	323	437 Base Case	0 -41	_	12.7	0	0.60%
246327 05N	246327 05NOTTINGH78	247461	05FREEBYRD	1	138	205	AEP	296	413 Base Case	0 37 6	_	12.7	0	0.35%
239106 025	239106 02SHNAGO	239303	02NTLES	1	345	202	ATST	1542	1878 Base Case	0 195.8	_	12 7	0	-0.96%
238817 021	238817 02TKO-18	240351	02TV-NB+18	1	1.38	202	ATST	273	332 Base Case	0 34.6	_	12.69	0	0.05%
238762 020	238762 02GB 0-3	239051	02PV 03	1	138	202	ATSI	2.67	332 Base Case	0 -33.9	-	12.69	0	-0.26%
235336 010	235336 01GOFFRN	247793	05LINDEN RD	1	138	201/205	AP/AEP	169	213 Base Case	0 -21 4	_	12 67	0	0.38%
242585 050	242585 05CAVE SPB1Z	245723	05CAVE SPR		138	201,200	AEP	164	180 Base Case	0 20.8	-	12.67	0	0.00%
238825 021	238825 02TVANHO	239031	02PACKRD	1	138	202	ATST	200	242 Base Case	0 25.3	-	12.66	0	0.02%
238989 02N	238989 02NB 017	240350	02TV-NB+17	7.L	1.38	202	ATST	164	206 Base Case	0 -20.8	-	12.66	0	-0.01%
243242 057	243242 05ALLEN	245832	05LINCOLN2	1	138	205	AEP	293	296 Base Case	0 37 1	-	12.66	0	-0.19%
238818 021	238818 02ILO-11	239049	02PV 01	1	138	202	ATSI	225	295 Base Case	0 -28.4	-	12.64	0	0.08%
242827 051	242827 05TAZEWE	247150	05FARADAY	1	138	205	AEP	296	400 Base Case	0 37.2	-	12.56	0	0.09%
239025 02N	239025 02NY 011	239053	02PVM015	1	138	202	ATSI	273	332 Base Case	0 34.3	-	12,56	0	-0.10%
239018 02F	239018 02FULTON	239370	02DOWLING	1	345	202	ATSI	1222	1385 Base Case	0 -153.3	-	12.55	0	-1.19%
238917 029	238917 02STACY	239097	02SBRN03	1	138	202	ATSI	148	151 Base Case	0 -18.6	-	12,54	0	-0.09%
238508 025	238508 02EBER	239169	02WENTWT	1	138	202	ATSI	278	343 Base Case	0 34.8	-	12.52	0	0.15%
238889 021	238889 02LEMOYN	238961	02MIDWAY	1		2.02	ATSI	1380	1646 Base Case	0 172 8	-	12.52	0	-1.19%
242605 050	242605 05CLNCHR	242615	05COPPER	1	138	205	AEP	219	223 Base Case	0 27.4	-	12.51	0	-0.42%
238734 021	238734 02F0X013	240258	02FUO-13	1	138	202	ATSI	425	522 Base Case	0 53.1	-	12.5	0	-0.15%
239063 021	239063 02REYNOD	239146	02UTTP1	1	138	2.02	ATSI	308	376 Base Case	0 38 5	-	12.49	0	0.24%
253026 090	253026 09GREENE	253107	09ALPHA	1	138	202	DAY	301	374 Base Case	0 -37.5	-	12,48	0	0.11%
239057 021	239057 02LRCR04	239115	02SP 0-4	1	138	202	ATSI	148	151 Base Case	0 18 5	-	12.47	0	0.19%
242980 050	242980 05CANTNC	243097	05SECANT	1	138	205	AEP	296	398 Base Case	0 -36.8	-	12.45	0	0.23%
239033 021	239033 02PDB012	240260	02GMC012	1	138	202	ATSI	355	434 Base Case	0 44.1	-	12.44	0	-0.14%
238542 027	238542 02ASH 1	239095	02SBRN01	1	138	202	ATSI	148	151 Base Case	0 18.4	-	12.43	0	-0.17%
L						-		1			1			

243248 05F	243248	0.5BARODA	243277	0.5DERBY	1	138	205 AEP	205	205 Base Case	0 -25.5	-	12.42	0	-0.35%
247373 05N	247373	05MUSKNG2A	247374	05MUSKNG2B	- 21	138	205 AEP	766	898 Base Case	0 95 1	-	12 42	0	0.08%
239110 029	239110	02STL AV+	239346	02511.102+	1	138	202 ATST	278	343 Base Case	0 34 5	_	12 41	0	0.00%
239110 020	230111	02STLTCA	239346	02STLTCA+	1	138	202 ATSI	278	343 Base Case	0 -34.5	_	12.41	0	0.00%
238743 028	238743	02EE-DNB+011	240347	02EOWLESO11	1	138	202 ATST	176	229 Base Case	0 21.8	_	12.39	0	0.00%
238698 021	238698	02ENO_11	240347	02FOWLESQ11	1	138	202 ATGI	176	229 Base Case	0 _21.0	_	12.39	0	0.20%
230090 025	230090	OFI FEDD	240347	02FOWLESQII	1	130	202 AISI	1140	1142 Dase Case	0 =21.0	_	12.30	0	1 070/
242314 033	242314	050.FERR	242317	OSWIOMIN	1	/63	205 AEP	4142	4142 Base Case	0 -512.3	-	12.37	0	1.07 %
242715 051	242715	05MERRIM	242839	05VICKER	1	138	205 AEP	205	205 Base Case	0 -25.3	-	12.35	0	0.08%
242924 05F	242924	USHANG R	243208	05JEFRSO	1	/65	205 AEP	4047	4571 Base Case	0 -499.8	-	12.35	0	11.51%
243466 05A	243466	U5ASTOR	243467	05E.BROAD3	1	138	205 AEP	209	209 Base Case	0 -25.8	-	12.34	0	-0.05%
239026 021	239026	02NY Q12	239054	02PVMQ16	1	138	202 ATSI	278	339 Base Case	0 34.3	-	12.33	0	-0.10%
239151 02\	239151	02VULCTA	239169	02WENTWT	1	138	202 ATSI	278	343 Base Case	0 34.3	-	12.32	0	-0.16%
239054 021	239054	02PVMQ16	239331	02NASHRING	1	138	202 ATSI	278	339 Base Case	0 34.2	-	12.31	0	-0.10%
242820 055	242820	05SUNDL1	244187	05STINK RUN	1	138	205 AEP	205	205 Base Case	0 25.2	-	12.29	0	-0.02%
243325 051	243325	05LANTRN	245803	05DELAWR2	1	138	205 AEP	187	233 Base Case	0 -23	-	12.28	0	0.05%
242786 055	242786	05S.PRINCETN	246898	05HALLSR	1	138	205 AEP	334	334 Base Case	0 41	-	12.28	0	0.36%
243385 051	243385	05TWIN B	246066	05S.BEND2	1	138	205 AEP	335	380 Base Case	0 41.1	-	12.27	0	-0.72%
243514 05F	243514	05RJF CORP Z	247804	05DEVOLA	1	138	205 AEP	282	282 Base Case	0 -34.6	-	12.26	0	0.09%
242584 050	242584	05CATAWZ	242852	05WSALEM	1	138	205 AEP	219	223 Base Case	0 26.8	-	12.24	0	-0.17%
242572 05E	242572	05BURLHT	242584	05CATAWZ	1	138	205 AEP	219	223 Base Case	0 26.8	-	12.24	0	-0.17%
249567 08N	249567	08M.FORT	249576	08WODSDL	1	345	212 DE0&K	1509	1509 Base Case	0 184.6	-	12.23	0	1.28%
247822 050	247822	050UINWOOD	247824	05NUTALL	1	138	205 AEP	316	444 Base Case	0 -38.5	-	12.17	0	0.29%
243495 051	243495	05DAVIDS	247873	05BRITTON	1	138	205 AEP	283	369 Base Case	0 34.4	-	12.15	0	-0.01%
243214 050	243214	0.5COLNGW	243231	0.5ROB PK	1	345	205 AEP	1409	1409 Base Case	0 -171.1	-	12.14	0	-1.65%
243584 051	243584	05VINE	246094	05VINE X	- 7.X	138	205 AEP	278	278 Base Case	0 -33 7	-	12 11	0	0.12%
239100 029	239100	02SEVILL	239238	02SEVM	1	138	202 ATST	233	282 Base Case	0 -28 2	_	12.1	0	-0.17%
247086 055	247086	05BEDHIL	314773	3RED HTL	71	115	205/345 AEP/DVP	48	48 Base Case	0 -5.8	_	12.07	0	0.00%
238884 021	238884	021EMO K	230154	02W EREM	1	138	2007 343 ABE7 DVI	158	10 Base Case	0 -19 1	_	12.07	0	-0.39%
242501 050	242501	05CENTRR	233134	05DELICENC1	1	120	202 AID1	126	167 Base Case	0 -16.4	_	12.00	0	-0.10%
242591 050	292391	03CENTRR	242703	03RE03ENSI	1	120	203 AEF	272	222 Page Case	0 22 0	_	12.03	0	-0.10%
250034 020	250557	02CADQ17	230399	021AQ-2	1	120	202 RISI	275	352 Base Case	0 32.0	_	12.03	0	0.00%
230024 088	230024	OSFINIWN	230064	05MHLIIZ	1	130	212 DE0&K	200	200 Base Case	0 32	-	12.02	0	-0.04%
243390 050	243390	05WAYNED	247829	05AVIATION	1	138	205 AEP	323	451 Base Case	0 -38.8	-	12	0	0.12%
239161 020	239161	U2WAKRON	239617	02SOUREK	1	138	202 ATS1	200	242 Base Case	0 -24	-	11.99	0	-0.14%
242636 05E	242636	05FALLBR	242715	05MERRIM	1	138	205 AEP	293	341 Base Case	0 35.1	-	11.99	0	-0.06%
243294 051	243294	05FLWRFD8 SS	247330	05BRODY	1	138	205 AEP	251	251 Base Case	0 -30	-	11.97	0	0.02%
243688 059	243688	05S.PORT MTR	245949	05MLBRPK_ARG	1	138	205 AEP	205	205 Base Case	0 24.5	-	11.95	0	-0.03%
243267 050	243267	05COUNTY	245476	05ROB PK34	1	138	205 AEP	323	451 Base Case	0 -38.5	-	11.92	0	-0.06%
239149 02\	239149	02VULCAN	239151	02VULCTA	1	138	202 ATSI	288	346 Base Case	0 34.3	-	11.91	0	-0.16%
243314 05H	243314	05HUNTR8	245476	05ROB PK34	1	138	205 AEP	257	360 Base Case	0 -30.5	-	11.87	0	-0.26%
243473 05E	243473	05BIXBY	246696	05BIXBY T3	Z1	138	205 AEP	196	247 Base Case	0 23.3	-	11.86	0	0.00%
238928 021	238928	02LTV+	239073	02ROBERT	ZL	138	202 ATSI	200	242 Base Case	0 -23.7	-	11.85	0	-0.22%
243074 051	243074	05PHILO1	246010	05PHILO2	Z1	138	205 AEP	548	555 Base Case	0 64.9	-	11.84	0	-0.85%
242531 05E	242531	05EDANV2	304094	6YANCY TAP	1	230	205/340 AEP/CPLE	621	771 Base Case	0 -73.5	-	11.83	0	-0.37%
242633 05E	242633	05EDENSR	242678	05INDIAS	1	138	205 AEP	158	167 Base Case	0 18.7	-	11.83	0	0.14%
243558 05F	243558	05RIO	243559	05RIO Z	1	138	205 AEP	145	145 Base Case	0 -17.1	-	11.76	0	0.02%
238859 021	238859	02KIQ-11	239005	02NHTQ11	1	138	202 ATSI	273	332 Base Case	0 32.1	-	11.74	0	-0.20%
238807 02F	238807	02HMLQ12	240260	02GMCQ12	1	138	202 ATSI	355	434 Base Case	0 -41.6	-	11.73	0	-0.14%
244745 05E	244745	05BABBIT1-2	247767	05HAZELTON	1	138	205 AEP	564	755 Base Case	0 -66.1	-	11.73	0	-0.08%
250079 081	250079	08NWTWN1	250080	08NWTWN2	Z1	138	212 DE0&K	394	394 Base Case	0 -46.2	-	11.72	0	-0.08%
243039 05N	243039	05MELMOR	243130	05TIFFIN	1	138	205 AEP	299	423 Base Case	0 -34.9	-	11.69	0	-0.09%
243222 051	243222	05FALL C	254535	16SUNNYS	1	345	205/216 AEP/TPL	956	956 Base Case	0 -111 7	-	11.69	0	0.61%
238557 025	238557	02B.M.F.	239048	02PPPINE	1	138	202 ATST	212	239 Base Case	0 24.8	-	11.69	0	-0.02%
243242 052	243242	05ALLEN	243330	05LTNCOLN1	2	138	205 AEP	167	240 Base Case	0 19.4	-	11 64		-0.10%
243019 051	243010	05HTLLSB	249995	08CLINCO	1	138	205/212 AEP/DEOSK	229	229 Base Case	0 26.6	_	11.6	0	-0.28%
239180 029	239180	02ZELT-M	239943	02MKWEST2	1	139	202 ATST	312	380 Base Case	0 20.0	-	11 59	0	0.51%
243010 022	2/2010	OSETUEND	235543	05gand 4	1	100	205 100	205	255 Baco Coor	0 30.2		11 50		-0.25%
ZHJUIU UJE	243010	OUTINENK	24092/	UJSAND H	1 1	138 1	ZUJ ALF	203	ZJJ DASE LASE	U 23.8		11.33	U	-0.23%

242611 050	242611 05COALFK	242623 05DAWES	1	138	205	AEP	223	223 Base Case	0	-25.8	-	11.57	0	-0.10%
238599 021	238599 02IX0-2	240250 02CHIAO-2	1	138	202	ATSI	273	332 Base Case	0	31.6	-	11.56	0	0.00%
242747 055	242747 0.5PEMBRT	242818 05STOTES	1	1.38	205	AEP	251	335 Base Case	0	-2.9	-	11.56	0	0.06%
238610 020	238610 02CDB_ST	239107 02SHNAGO	1	1.38	202	ATST	278	339 Base Case	0	32.1	-	11.55	0	-0.21%
250054 08T	250054 08LONGBR	342559 4BOONE CO	1	138	212/320	DEO&K/EKPC	229	284 Base Case	0	-26.4	-	11.52	0	0.14%
243587 050	243587 05WTLSNZ	243588 05WTLSON	1	138	205	AEP	223	223 Base Case	0	25.7	-	11 51	0	0.04%
243013 050	243013 05GAVIN1	243766 05LIGHTSTONL	70	138	205	AFP	348	407 Base Case	0	40	_	11.01	0	0.00%
243013 050	243013 05GAVIN1	243766 05LIGHTSTONE	20	138	205	AEP	348	407 Base Case	0	40	_	11.49	0	0.00%
242941 050	242941 050HTOCT	243455 05CONES	1	345	205	AEP	1370	1503 Base Case	0	157 4	_	11.49	0	-1 14%
242941 030	242941 030011001	250062 08METPSP	1	138	200	DEOEK	268	268 Base Case	0	30.8	_	11.49	0	-0.02%
247802 052	247802 05ARENDSR SS	247804 05DEVOLA	1	138	205	AFP	200	413 Base Case	0	-33.9	_	11.40	0	-0.25%
247002 055	247002 05ARENDSR 35	247869 05BEVOLA	71	130	205	AED	5/8	601 Base Case	0	62 7	_	11.47	0	0.23%
2229051 021	232951 02KD 0-1	222505 05BR0E52	1	120	203	лет	272	222 Base Case	0	21 2	_	11.43	0	0.04%
242464 057	230031 02RD Q-1	230037 02KHIPQI	1	120	202	AIDI	273	412 Page Case	0	_22 0	_	11.43	0	-0.16%
243404 032	243404 0JADAMS	240942 03WARERD	1	245	200	ALF	1000	1274 Dase Case	0	-33.0	-	11.45		-0.10%
233027 090	233027 09GREENE	233248 U9SCHARL	1	343	209	DAI	1239	1374 Base Case	0	141.5	-	11.42		2.07%
242559 055	242339 03B0L1 Z	242820 0350NDL1	1	130	205	AEP	223	223 Base Case	0	23.4	-	11.30		0.09%
238804 027	238812 02H011DL	238813 02H011DL	2	120	202	AISI	000	262 Base Case	0	60.0	-	11.34		0.37%
238894 021	238894 UZLF Q-4	239004 02NFLDQ4	1	130	202	AISI	200	262 Base Case	0	-29	-	11.55		0.10%
243320 USP	243320 USKANKAKEE2	243857 USKANKAKEE1	21	138	205	AEP	187	240 Base Case	0	-21.2	-	11.32	0	-0.28%
243316 031	245316 051ND051 PK1	243338 USMCKINLEIS	1	130	203	AEP	201	225 Base Case	0	-20.4	-	11.32		-0.00%
246913 031	246915 05PRINCESS	247652 05H00DSCRK	1	130	205	AEP	251	335 Base Case	0	-20.4	-	11.31		-0.03%
243006 051	243006 05F0ST0R	243137 USW.END FOST	1	138	205	AEP	296	296 Base Case	0	33.5	-	11.31	0	0.35%
239154 020	239154 U2W.FREM	239177 02W00DV1	1	138	202	ATSI	278	342 Base Case	0	31.4	-	11.3	0	-0.42%
243470 03E	243470 03BELPRE	243496 USCONGRES SS	1	130	203	AEP	296	301 Base Case	0	33.4	-	11.29		-0.33%
230019 088	230019 08EMW0D6	230117 081RMNL1	1	130	212	DEOWK	299	299 Base Case	0	-33.0	-	11.24		0.09%
246930 USE	246930 05BLUECK	246931 USBLUECK	1	345/115	205	AEP	350	367 Base Case	0	-39.3	-	11.23		-0.03%
243490 050	243490 05CORNER	243565 USRIVERV S.		138	205	AEP	240	282 Base Case	0	-26.9	-	11.22		-0.10%
243370 055	243370 055.BENDI	246066 055.BEND2	21	138	205	AEP	219	255 Base Case	0	-24.6	-	11.22		-0.89%
243319 05	243319 05JAY	243358 USPENNV1	1	138	205	AEP	257	359 Base Case	0	28.7	-	11.18		-0.13%
242578 050	242578 USCARB 2	242593 USCHEM 2	1	138	205	AEP	296	296 Base Case	0	33	-	11.16		0.05%
238832 025	238832 U2JACKMA	239170 02WESTGT	1	138	202	ATSI	278	343 Base Case	0	31	-	11.15		-0.22%
238735 UZE	238735 02F0XQ14	241935 02CLINTON	1	138	202	ATSI	355	434 Base Case	0	39.6	-	11.15		0.01%
243514 USF	243514 USRJF CORP 2	243521 USHARMRH	1	138	205	AEP	282	282 Base Case	0	31.4	-	11.13		0.09%
238534 024	238534 U2ANGOLA	239169 02WENTWT	1	138	202	ATSI	278	342 Base Case	0	-30.9	-	11.13		-0.01%
243256 050	243256 05CABOT SS	243258 USCLEVEL	1	138	205	AEP	205	284 Base Case	0	-22.8	-	11.11		0.17%
243386 051	243386 USVALLY	244076 USALMENA	1	138	205	AEP	296	413 Base Case	0	32.8	-	11.09		0.01%
245533 05F	245533 05HOLLOWAY34	247852 USDILESBIMZ2	1	138	205	AEP	556	6/8 Base Case	0	-61./	-	11.09		0.14%
238812 02F	238812 02H0YTDL	238813 U2HOYTDL	1	345/138	202	ATSI	533	601 Base Case	0	59.1	-	11.08		0.56%
249988 U8E	249988 08BKJ135	250097 085GROVE	1	138	212	DEO&K	291	291 Base Case	0	-32.2	-	11.08		0.01%
242/03 051	242/03 USLEON A	24394/USRIPLEY	1	138	205	AEP	296	413 Base Case	0	32.8	-	11.08		-0.01%
243229 050	243229 USULIVE	2/0//1 GREENACRE; T	1	345	205/222	AEF/CE	9/1	9/1 Base Case	0	107.3	-	11.05		-3.//%
242598 050	242598 05CHNC Z	242809 055PRIGI	1	138	205	AEP	16/	167 Base Case	0	18.4	-	11.05		-0.13%
242688 055	242688 05JOSHUA	242/3/ 050POSSUMCK	1	138	205	AEP	388	484 Base Case	0	42.8	-	11.04		0.10%
242621 051	242621 U5DARRH1	242622 05DARRH2	21	138	205	AEP	302	302 Base Case	0	33.3	-	11.04	0	0.02%
249992 080	249992 08CDRVL1	249993 08CDRVL2	21	138	212	DEO&K	516	5/3 Base Case	0	-56./	-	11		-0.13%
243697 051	243697 05LOVELY	246923 05NEWSOM	1	138	205	AEP	251	335 Base Case	0	27.5	-	10.95	0	0.10%
247019 051	247019 USNEVILLE SS	247862 USTUSCANY	1	138	205	AEP	427	601 Base Case	0	-46.8	-	10.95	0	0.01%
246950 051	246950 05TIMBSS	246951 05TIMBCS	Z1	138	205	AEP	167	245 Base Case	0	-18.3	-	10.94	0	-0.01%
238595 02E	238595 U2BURTON	239056 02R.M. +	1	138	202	A'I'SI	157	192 Base Case	0	-17.1	-	10.92	0	0.01%
242521 051	242521 05NAGEL	242729 05NAGEL	1	500/138	205	AEP	750	750 Base Case	0	81.9	-	10.92	0	0.55%
238813 02H	238813 02HOYTDL	238991 02NCASTL	2	138	202	ATSI	329	373 Base Case	0	35.9	-	10.92	0	-0.04%
238813 02F	238813 U2HOYTDL	238991 U2NCASTL	1	138	202	A'I'SI	329	413 Base Case	0	35.9	-	10.92	0	-0.04%
238928 021	238928 02LTV+	238969 02MRGP +	1	138	202	ATSI	200	242 Base Case	0	21.8	-	10.92	0	-0.22%
242988 051	242988 U5DOGWOO	242992 05E WHEE	1	138	205	AEP	167	167 Base Case	0	-18.2	-	10.91	0	-0.12%
238829 021	238829 02IVYQ14	240351 02IV-NB+18	1	138	202	ATSI	260	309 Base Case	0	-28.3	-	10.9	0	0.05%
238868 02F	238868 02KPQ-13	238877 02LAQ-13	1	138	202	ATSI	347	423 Base Case	0	-37.8	-	10.9	0	0.00%

243564 05F	243564 05RIVERV N.	243565 05RIVERV S.	Z1	138	205	AEP	248	310	Base Case 0	27	-	10.89	0	-0.10%
242653 050	242653 05GRANDV	242668 05HINTON	1	138	205	AEP	383	449	Base Case 0	41.7	-	10.89	0	0.05%
238815 021	238815 02IKQ-15	238880 02LTFQ15	1	138	202	ATSI	273	332	Base Case 0	29.6	-	10.86	0	-0.01%
243349 051	243349 05NEW CARLI2	246996 05PLETCH	1	138	205	AEP	187	205	Base Case 0	20.3	-	10.85	0	0.40%
243020 05H	243020 05HILLVI	243056 05NEWCOM	1	138	205	AEP	287	337	Base Case 0	-31.1	-	10.84	0	0.70%
238505 021	238505 02DELTA	238738 02FULTON	1	138	202	ATSI	288	346	Base Case 0	-31.1	-	10.81	0	-0.16%
242804 055	242804 0.5SOURWO	247290 05HARMON	1	138	205	AEP	223	223	Base Case 0	-24.1	_	10.79	0	-0.19%
238693 028	238693 02ELM	238825 02IVANHO	1	138	202	ATSI	275	333	Base Case 0	-29.7	_	10.78	0	0.02%
243301 050	243301 05GBANGE	243355 050NTWA8 SS	1	138	205	AEP	2.93	341	Base Case 0	-31.6	_	10.78	0	-0.06%
245358 055	245358 05PENGUINDP1	246177 05ANGUTN1-2	1A	138	205	AEP	492	492	Base Case 0	-53	_	10.78	0	0.00%
245358 051	245358 05PENGUINDP1	246177 05ANGUTN1-2	1B	138	205	AEP	492	492	Base Case 0	-53	_	10.78	0	0.00%
242925 058	242925 05KAMMER	270162 AB2-067 TAP	1	765	205	AEP	4047	4142	Base Case 0	-436	-	10 77	0	10 44%
242763 055	242763 05BENSED	243422 05POINTL	1	138	205	AEP	180	227	Base Case 0	-19 4	-	10 77		0.04%
235707 010	235707 01WYLTE R	239368 02TOBONTO	1	345	201/202	AP/ATST	2504	2868	Base Case 0	269.6	_	10.77	0	-2.80%
247329 055	247329 05STINGER	247330 05BBODY	1	138	205	AEP	323	449	Base Case 0	34 8	-	10 76	0	0.02%
243016 055	243016 05HANTHR	243125 05THAYER	1	138	205	AFP	185	185	Base Case	-19.9	-	10.76		-0 14%
250057 08N	250057 08M FORT	250058 08M FTGT	1	138	212	DEO&K	266	266	Base Case 0	28.6	-	10.74	0	0.08%
242510 055	242510 05BAKER	242924 05HANG B	1	765	205	AFP	4047	4571	Base Case	-434	-	10.72	0	5 84%
242576 050	242576 05CAPITOLH	242324 05CAPTTOLH2	21	138	205	AEP	747	747	Base Case 0	80 1	-	10.72		-0.02%
246051 050	246051 05DEER CBK2	246763 05PTPECK	1	138	205	AEP	257	360	Base Case 0	27 5	-	10.72		0.02%
243364 055	243364 05B1CHMO	243373 05SELMAP	1	138	205	AEP	164	167	Base Case 0	-17.6	-	10.71	0	0.20%
243482 050	243482 05CENTEC	243488 05CONESULLE	1	138	205	AFD	338	338	Base Case 0	-36.2	_	10.71		_0.11%
242563 055	242563 05R0VWD	246229 050000000000000000000000000000000000	1	138	205	AFP	167	167	Base Case 0	_17 8	-	10.68		0.11%
238908 021	238908 02LONDON	240225 05RE05EN52	1	138	203	ADI	233	282	Base Case 0	-24 9	-	10.00	0	-0.06%
243059 051	243059 05NETNDL	243067 05NW00DC	1	138	202	AFP	167	245	Base Case 0	-17.8	-	10.00	0	0.00%
238852 021	238852 02KD 0-3	238858 02847003	1	138	203	ATST	273	330	Base Case 0	20	-	10.67		0.02%
247832 051	247832 05LAMPING	247833 05LAMPING	1	345/138	202	AIDI	450	450	Base Case 0	47 9	-	10.63	0	0.00%
250081 080	250081 0804KLEY	250158 088MTRD.T	1	138	203	DEOSK	332	332	Base Case 0	-35.3	-	10.63	0	-0.07%
253071 099	253071 09STDNEY	253072 09SPRING	1	138	212	DAY	196	241	Base Case 0	-20.8	-	10.03	0	0.07%
238894 021	238894 02LF 0-4	238973 02MX 0-4	1	138	202	ATST	273	332	Base Case 0	20.0	-	10.62	0	0.03%
238754 020	238754 02GE0-12	238793 02HDG012	1	138	202	ATST	425	522	Base Case 0	-45	-	10.6	0	0.02%
238754 020	238754 02GE0-12	238922 02LTE012	1	138	202	ATSI	425	522	Base Case 0	45	-	10.6	0	0.02%
242716 05N	242716 05MTDKTF	247243 05SHEBID	1	138	205	AEP	296	378	Base Case 0	-31.4	_	10.6	0	0.03%
242629 055	242629 05E MONU	242770 05BTGTS	1	138	205	AEP	219	251	Base Case 0	23.2	-	10 58	0	-0.03%
242824 051	242824 05TAMSM1	247557 05MABSCOTT	1	138	205	AEP	158	183	Base Case 0	16.7	-	10.56	0	0.08%
242531 055	242531 05EDANV2	242632 05EDAN 2	4	230/138	205	AEP	696	814	Base Case 0	73.5	_	10.56	0	-0.37%
243486 050	243486 05CLINTX	243551 050SU	1	138	205	AEP	129	171	Base Case 0	13.6	_	10.56	0	-0.04%
247801 055	247801 05BUELT	247802 05ABENDSB SS	1	138	205	AEP	296	413	Base Case 0	-31 2	-	10 55	0	-0.25%
239146 020	239146 02UTTP1	239149 02VULCAN	21	138	202	ATST	290	325	Base Case 0	30.5	_	10.52	0	0.24%
243297 050	243297 05GERMAN	243352 05NTRDAM	1	1.38	205	AEP	257	360	Base Case 0	27	_	10.5	0	0.43%
242945 054	242945 05SW TITM	245977 05GRTSTMTLL	1	345	2.05	AEP	1409	1409	Base Case 0	147.9	_	10.5	0	-0.27%
250172 084	250172 08AERO	250173 08WDSPNT	1	138	212	DEO&K	301	301	Base Case 0	-31.6	-	10.49	0	0.00%
243149 050	243149 05W.LANCAST1	246021 05W.LANCAST2	Z1	138	205	AEP	38.3	449	Base Case 0	40.2	-	10.49	0	-0.05%
241237 020	241237 02GBOV TP	241935 02CLINTON	1	138	202	ATST	278	339	Base Case 0	-29.1	_	10.49	0	-0.32%
243363 05F	243363 05REED	243366 05ROB PK12	1	138	205	AEP	219	251	Base Case 0	-23	_	10.48	0	0.29%
243012 050	243012 05G WASHGTON	247852 05DTLESBTMZ2	1	138	205	AEP	590	590	Base Case 0	61.7	_	10.47	0	0.14%
250032 085	250032 08FRFT.D1	250040 08HATT2	1	138	212	DEO&K	198	198	Base Case 0	-20.7	-	10.45	0	-0.19%
242939 05N	242939 05MARYSV	253251 09DAYMRY	1	.345	205/209	AEP/DAY	1255	1374	Base Case 0	1.31	-	10.44	0	0.01%
238638 020	238638 02CPP NH	239005 02NHT011	ZL	138	202	ATSI	27.3	332	Base Case 0	-28.4	-	10.42	0	-0.10%
243103 055	243103 05SKENTO	243147 05WILDCRK SS	1	138	205	AEP	158	180	Base Case 0	16.5	-	10.42	0	0.25%
245456 051	245456 05NEWBERY	247001 05YELLOW CK2	1	138	205	AEP	296	41.3	Base Case 0	-30.8	-	10.4	0	-0.07%
243012 050	243012 05G WASHGTON	247839 05DILLES BTM	1	138	205	AEP	590	590	Base Case 0	61.2	-	10.37	0	0.14%
242928 05N	242928 05MARYSV	246999 05SORENS	1	765	205	AEP	4047	4142	Base Case 0	-419.3	-	10.36	0	17.00%
242847 050	242847 05WHARTZ	244187 05STINK RUN	1	138	205	AEP	205	284	Base Case 0	-21.2	-	10.35	0	-0.02%
238551 027	238551 02AVON	239725 02LAKEAVE	1	345	202	ATSI	1560	1900	Base Case 0	-161.3	-	10.34	0	2.14%
243692 05H	243692 05HAZRD1	243693 05HAZRD2	Z1	138	205	AEP	187	240	Base Case 0	-19.3	-	10.33	0	0.44%

238699 02E	238699 02ENQ-12	238739 02FWLSQ1	1	138	202	ATSI	265	332 Base Case	0	-27.3	-	10.3	0	0.14%
242521 051	242521 05NAGEL	242729 05NAGEL	3	500/138	205	AEP	795	906 Base Case	0	81.9	-	10.3	0	0.55%
243502 05E	243502 05E.BROAD	243592 05YEARLG	1	138	205	AEP	240	277 Base Case	0	24.7	-	10.29	0	-0.08%
246606 050	246606 05WETZEL SS	247095 05WILLIAM TH	1	138	205	AEP	185	257 Base Case	0	19	-	10.27	0	0.00%
242972 05E	242972 05BLOOMFD SS	243135 05W DOVE	1	138	205	AEP	296	361 Base Case	0	30.3	-	10.25	0	0.79%
238685 028	238685 02EASTLK	241923 02ELO3	1	138	202	ATSI	999	999 Base Case	0	102.2	-	10.23	0	-0.05%
242528 055	242528 05SPORN	242529 05TRISTA	1	345	205	AEP	11.32	1132 Base Case	0	-115.8	-	10.23	0	0.30%
242670 051	242670 05H0LST2	242830 05TENNE2	2	138	205	AEP	68	68 Base Case	0	7	-	10.23	0	-0.05%
247839 050	247839 05DILLES BTM	247840 05DTLESBTMZ1	1	1.38	205	AEP	590	590 Base Case	0	60.4	-	10.23	0	0.14%
242563 055	242563 05BOXWD	247632 05AMHEBST	1	138	205	AEP	219	251 Base Case	0	-22 4	-	10.23	0	0.30%
242750 055	242750 05PHTLPOTT Z	242844 05W.BASS	1	1.38	205	AEP	202	202 Base Case	0	-20.7	-	10.23	0	-0.05%
243060 05N	243060 05NINTIE	243156 05W NEW PHIL	1	138	205	AEP	285	291 Base Case	0	29.1	-	10.22	0	-0.69%
238667 021	238667 02DUALB+	239073 0280BEBT	1	138	202	ATST	190	225 Base Case	0	19.4	-	10.21	0	-0.16%
243294 055	243294 05FLWBED8 SS	243345 05MOOBPK	1	138	205	AEP	251	251 Base Case	0	25.6	-	10.2	0	0.02%
238551 027	238551 02AVON	239725 02LAKEAVE	2	345	202	ATST	1560	1900 Base Case	0	-159	-	10 19	0	2 11%
244287 050	244287 05WOLE GLADE	245117 05W CARROLL	1	138	205	AFP	251	251 Base Case	0	-25 6	_	10.18	0	-0.02%
242766 055	242766 05BTCHLA	247149 05WHITWD	1	138	205	AEP	296	398 Base Case	0	30 1	-	10.17	0	-0.05%
242519 050	242519 05CLOVRD	242524 05CLOVRD	16	500/345	205	AEP	1733	1758 Base Case	0	176	_	10.15	0	-1 66%
242519 050	242519 05CLOVRD	242524 05CLOVRD	15	500/345	205	AEP	1733	1759 Base Case	0	176	_	10.15	0	-1.66%
243030 051	243030 05LTMAOR	242024 030H0VRD	1	138	205	AEP	335	388 Base Case	0	-34	_	10.15		-0.36%
242547 055	242547 05BATLS2	242833 05TRATLE	1	138	205	AEP	334	334 Base Case	0	33 7	_	10.13	0	-0.08%
238605 020	238605 02CARDNT	238746 02GALTON	1	138	203	ATST	145	145 Base Case	0	-14 6	_	10.1	0	-0.03%
239109 029	239109 02SHRPOS	239199 02WN-STL	1	138	202	ATST	160	192 Base Case	0	-16 1	_	10.07	0	0.05%
243490 050	243490 05CORNER	243533 05LAYMAN	1	138	202	AIDI	205	284 Base Case	0	-20.6	_	10.07	0	0.00%
239103 020	239103 029HADON	239109 025488005	1	138	203	ATST	160	192 Base Case	0	-16.1	-	10.05		0.00%
242592 050	242592 05CHEM 1	242836 05TUDNE1	1	138	202	AFD	296	296 Base Case	0	_29 7	_	10.03		0.00%
242651 050	242651 05GLENL2	242749 05PETERM	1	138	205	AEP	205	205 Base Case	0	20.6	_	10.04		0.04%
242943 059	242943 05SCANTO	242944 05SECANT	1	345	205	AEP	1409	1409 Base Case	0	141 2	_	10.02		0.89%
242782 055	242782 05BUTH	242836 05TURNE1	1	138	205	AEP	729	729 Base Case	0	-73	-	10.01	0	0.03%
243378 059	243378 05SPY BUN2	246993 05PURDUE	1	138	205	AEP	296	392 Base Case	0	-29.6	-	10.01	0	-0.02%
243851 050	243851 05CENTRM	243852 05CENT27	1	138	205	AEP	205	205 Base Case	0	-20 5	-	9 99	0	0.00%
250100 089	250100 08SMBSD1	250142 08WARDSC	1	138	212	DEO&K	249	249 Base Case	0	24.8	-	9.96	0	0.00%
243525 055	243525 05HUNTLEY1	243535 05LINWRT	1	1.38	205	AEP	216	216 Base Case	0	21.5	-	9.94	0	-0.04%
250072 08N	250072 08MTCHL1	250073 08MTCHL3	- 21	1.38	212	DEO&K	.394	394 Base Case	0	39.1	-	9.92	0	0.08%
243684 050	243684 05DEWEY	244008 05STANVILLE1	1	138	205	AEP	223	223 Base Case	0	22 1	-	9.89	0	-0.08%
238757 020	238757 02GLCBST	238873 02LAKMOR	1	1.38	202	ATST	157	196 Base Case	0	-15.5	-	9.89	0	0.08%
239055 020	239055 02015TAP	239349 02MTLCHM	1	138	202	ATST	273	332 Base Case	0	27	-	9.88	0	0.00%
238703 025	238703 02ESPBNG	240709 02N TITUS	1	138	202	ATST	200	242 Base Case	0	-19.8	-	9.88	0	-0.12%
242525 058	242525 05KANAWH	242526 05KANAWZ	7B	345	205	AEP	1494	1595 Base Case	0	147.4	-	9.87	0	0.92%
242670 051	242670 05HOLST2	244508 05RIGGS	1	138	205	AEP	117	117 Base Case	0	-11.5	-	9.86	0	0.07%
242681 051	242681 05IVY HL	243857 05COFFEE	1	138	205	AEP	167	245 Base Case	0	16.5	-	9.86	0	0.05%
243263 0.50	243263 05COLUMBIA	255163 17NORTHEAST	1	138	205/217	AEP/NIPS	143	143 Base Case	0	-14.1	-	9.86	0	0.33%
243107 055	243107 05SPENCB	244230 05SUNDAY SS	1	1.38	205	AEP	2.5.9	325 Base Case	0	-25.5	-	9.85	0	0.25%
243493 050	243493 05CRVERD	245962 05DLAWAR3	1	1.38	205	AEP	2.93	341 Base Case	0	-28.8	-	9.85	0	0.10%
242519 050	242519 05CLOVBD	242512 05CLOVBD	14	500/765	205	AEP	2590	2877 Base Case	0	-254.9	-	9.84	0	6.29%
242974 055	242974 05BUCKLB	244341 05SOFTATL SS	1	138	205	AEP	251	251 Base Case	0	-24 7	-	9.84	0	0.04%
239027 020	239027 020TLEVS	239191 02JMDUTC	1	138	202	ATSI	308	376 Base Case	0	30.3	-	9.83		-0.14%
242965 055	242965 05BRTDGEVTLZ	242972 05BLOOMED SS	1	138	205	AEP	335	392 Base Case	0	32.9	-	9.81	0	0.79%
238589 025	238589 02BRUSH	239161 02WAKRON	1	138	202	ATSI	143	146 Base Case	0	-14	-	9.77	0	0.02%
242582 050	242582 05CARWLZ	242833 05TRAILF	1	138	205	AEP	334	334 Base Case	0	-32.6	-	9.77	0	-0.08%
243262 050	243262 05COLLEGE C	243310 05HODGTN	1	138	205	AEP	219	247 Base Case	0	21.4	-	9.75	0	-0.24%
242784 055	242784 05S.BLUE	247850 05TOWN CREEK	1	138	205	AEP	296	413 Base Case	0	-28.9	-	9.75	0	-0.04%
246946 050	246946 05WLDCAT	247034 05EMERSS	1	138	205	AEP	185	185 Base Case	0	-18	-	9.74	0	0.20%
242533 057	242533 05ABINGD	246779 05S.ABINGDN2	1	138	205	AEP	167	240 Base Case	0	16.3	-	9.74	0	-0.33%
242615 050	242615 05COPPER	242667 05HILL	1	138	205	AEP	219	223 Base Case	0	21.3	-	9.72	0	-0.42%
242603 050	242603 05CLIFFR	242613 05COLLEEN SS	1	138	205	AEP	167	167 Base Case	0	16.2	-	9.72	0	0.52%

246988 058	246988 05STRWTN	247116 05ALADDIN	1	138	205	AEP	257	360 Base Case	0	25	-	9.71	0	0.11%
238693 02E	238693 02ELM	238748 02GARDEN	1	138	202	ATSI	157	196 Base Case	0	15.2	-	9.69	0	0.03%
238685 025	238685 02EASTLK	241925 02EL05	1	1.38	202	ATST	999	999 Base Case	0	96.7	-	9.68	0	-0.19%
242530 055	242530 05EDANV1	242631 05EDAN 1	5	230/138	205	AEP	820	926 Base Case	0	79.2	-	9.65	0	-0.38%
247371 05N	247371 05MUSKNG1B	247372 05MUSKNG1C	71	138	205	AEP	766	898 Base Case	0	73.9	-	9.65	0	0.09%
242554 055	242554 05BTM	242847 05WHARTZ	1	138	205	AEP	205	255 Base Case	0	-19.8	_	9.65	0	-0.02%
238705 025	238705 02ET 0-2	240250 02CHTA0-2	1	138	202	ATST	273	332 Base Case	0	-26.2	_	9.00	0	0.00%
250705 021 250079 08N	250705 02E1 Q 2	250092 08PEDEK1	1	138	202	DEOCK	332	332 Base Case	0	31.8	_	9.59	0	-0.08%
242542 057	242542 0500000	242850 05WYTHE2	1	120	212	AED	251	251 Base Case	0	-24 1	_	0.59	0	0.00%
242343 032	242345 05CADOT CC	242000 05W1111E2	1	120	205	AED	205	201 Dase Case	0	10 6	_	0.50	0	0.04%
243236 030	243236 USCABUT 55	243336 USMANORZ	1	1.20	203	AEP	205	204 Base Case	0	19.0	-	9.58	0	0.17%
243473 03E	243473 03B1XB1	243352 05PICKR8	1	130	205	AEP	296	415 Base Case	0	20.4	-	9.58		0.21%
243237 USP	243237 USADAM	243358 USPENNVI	1	138	205	AEP	257	359 Base Case	0	-24.6	-	9.58	0	-0.13%
239016 021	239016 02NT Q15	241924 UZELQ4	1	138	202	ATSI	225	295 Base Case	0	-21.5	-	9.58	0	-0.04%
238/90 02F	238790 02HCQ-13	239051 02PV Q3	1	138	202	ATSI	225	295 Base Case	0	-21.5	-	9.57	0	0.08%
246202 050	246202 USWARTON CC	246928 U5WARTON H1	Z1	138	205	AEP	293	341 Base Case	0	-28	-	9.56	0	0.00%
238516 023	238516 02JOHNMANDEF	238785 02JOHNMAN-2	1	138	202	ATSI	216	264 Base Case	0	-20.6	-	9.54	0	0.00%
238531 027	238531 02ALLNJ	239345 02SIL_AE+	1	138	202	ATSI	278	339 Base Case	0	26.5	-	9.53	0	-0.09%
238517 021	238517 02LYONS	239345 02SIL_AE+	1	138	202	ATSI	278	287 Base Case	0	-26.5	-	9.53	0	-0.09%
247800 05N	247800 05MACKSBURG	247801 05BUELL	1	138	205	AEP	296	413 Base Case	0	-28.2	-	9.52	0	-0.25%
238867 021	238867 02KPQ-12	238876 02LAQ-12	1	138	202	ATSI	355	434 Base Case	0	-33.8	-	9.52	0	0.00%
238768 020	238768 02GRNFLD	238981 02NASA	1	138	202	ATSI	160	192 Base Case	0	15.2	-	9.51	0	0.37%
243671 05E	243671 05BEAVER CR1	243683 05CONSTP	1	138	205	AEP	251	309 Base Case	0	23.8	-	9.5	0	-0.15%
243023 05H	243023 05HOCKNG	243149 05W.LANCAST1	1	138	205	AEP	196	247 Base Case	0	18.6	-	9.49	0	0.00%
243683 050	243683 05CONSTP	243875 05SOFTSH	1	138	205	AEP	251	309 Base Case	0	23.8	-	9.48	0	-0.15%
243020 05H	243020 05HILLVI	243156 05W.NEW PHIL	1	138	205	AEP	277	277 Base Case	0	26.2	-	9.44	0	0.70%
250068 081	250068 08MPLKL1	250131 08WILEY2	1	138	212	DEO&K	308	308 Base Case	0	-29	-	9.41	0	0.04%
238506 021	238506 02DIXIE	238832 02JACKMA	1	138	202	ATSI	235	288 Base Case	0	22.1	-	9.38	0	-0.30%
242513 050	242513 05CULLOD	242923 05GAVIN	1	765	205	AEP	4047	4571 Base Case	0	-379.2	-	9.37	0	-2.51%
250094 08F	250094 08RMNTN1	250095 08RMNTN2	Z1	138	212	DEO&K	298	298 Base Case	0	-27.8	-	9.33	0	0.07%
239215 02E	239215 02BRIGHT	239319 02CAMDEN	1	138	202	ATSI	294	357 Base Case	0	-27.4	-	9.32	0	-0.21%
242537 05#	242537 05AMOS	247013 05CROOKC	1	138	205	AEP	296	296 Base Case	0	27.6	-	9.32	0	-0.08%
242562 05E	242562 05BORLND	243690 05HATFLD	1	138	205	AEP	296	370 Base Case	0	-27.6	-	9.31	0	0.04%
238531 027	238531 02ALLNJ	239344 02ALLEN-2	ZB	138	202	ATSI	563	563 Base Case	0	-52.4	-	9.31	0	0.08%
243123 058	243123 05SWITZE	247757 05HERLAN SW	1	138	205	AEP	205	284 Base Case	0	19.1	-	9.31	0	-0.24%
238893 021	238893 02LF Q-2	238972 02MX Q-2	1	138	202	ATSI	273	332 Base Case	0	25.4	-	9.29	0	0.19%
238972 021	238972 02MX Q-2	239020 02NW Q-2	1	138	202	ATSI	273	332 Base Case	0	25.4	-	9.29	0	0.19%
242555 05E	242555 05BLAINE	242643 05FRANK5	1	138	205	AEP	219	223 Base Case	0	20.3	-	9.29	0	-0.16%
239354 02H	239354 02HARMON	247700 05YAGER	1	138	202/205	ATSI/AEP	200	241 Base Case	0	-18.6	-	9.28	0	0.08%
243457 05H	243457 05HAYDEN	244022 05COLE	1	345	205	AEP	1409	1409 Base Case	0	-130.5	-	9.26	0	0.33%
250091 08F	250091 08RCHLE3	250146 08WHITTR	1	138	212	DEO&K	289	289 Base Case	0	-26.7	-	9.25	0	-0.08%
238837 023	238837 02JGSQ14	240247 02CK TP15	1	138	202	ATSI	223	286 Base Case	0	20.5	-	9.21	0	0.01%
243491 050	243491 05CORRID	243513 05GENOA	1	138	205	AEP	338	407 Base Case	0	31.1	-	9.21	0	-0.15%
242805 05H	242805 05HATCHR	246898 05HALLSR	1	138	205	AEP	334	334 Base Case	0	-30.7	-	9.2	0	0.36%
242574 050	242574 05CABIN_CBK1	246409 05CABIN C T8	ZK	1.38	205	AEP	369	369 Base Case	0	33.9	-	9.19	0	0.00%
243141 050	243141 0.5WARNER	246126 05SUNNYSTDE2	1	1.38	205	AEP	224	287 Base Case	0	-20.6	-	9.19	0	-0.48%
241111 022	241111 02ASHLAND	243024 05HOWARD	1	138	202/205	ATST/AEP	167	245 Base Case	0	-15 3	-	9.18	0	0.51%
243453 055	243453 05BEATTY	253248 09SCHART	1	345	205/209	AEP/DAY	1096	1203 Base Case	0	-100 4	-	9.16	0	2.12%
243485 050	243485 05CLINTO	243486 05CLINTX	SR	138	200,205	AEP	149	162 Base Case	0	13.6	_	9.14	0	-0.04%
245799 050	245799 05WTLLTAM PT	247128 05ASTNSS	21	138	205	AEP	219	255 Base Case	0	-20	-	9 13	- 0	0.00%
245799 050	245799 05WTLLTAM PT	247128 05ASTNSS	7.2	138	205	AEP	210	255 Base Case	0	_20	_	9.13	0	0.00%
245700 05	245799 05WILLIAM FI	247128 05A51N55	73	120	200	AFD	215	255 Base Case	0	_20	_	Q 12		0.00%
242507 054	242597 05CUNC	242598 05CUNC 7	1	130	203	AEP	134	167 Base Case	0	_12 4	_	9 13		0.00%
238836 001	238836 02 700012	240245 0202 012	1	120	203	ATCT	100	132 Base Case	0	12.4	_	Q 11		0.02%
240259 020	240259 02503013	240243 02CK Q13	1	120	202	ATOT	203	132 Dase Case	0	2.4	_	0 1		-0.15%
240230 021	240230 0210Q=13	243234 05MACTEV	1	120	202	ATD ATD	202	350 Base Case	0	/	_	3.1		0.13%
243237 034	243237 UJADAM	243334 UJMAGLEI		100	205	ADF	237	204 Dase Case	0	-23.4	-	9.09		0.10%
∠4∠989 U5E	242989 UDE LIMA	∠43U1/USHAVILAND1	1 1	±38	205	AEP	205	∠84 Base Case	0	-18.5		9.05	U	0.59%

243476 05E	243476 05BOLINSMLSS	247791 05ELK	1	138	205	AEP	323	355 Base Case	0	-29.2	-	9.03	0	0.10%
243238 05A	243238 05AIRCO	247489 05BOSSERMAN	1	138	205	AEP	251	335 Base Case	0	-22.7	-	9.03	0	0.00%
243247 057	243247 05AUBURN	243267 05COUNTY	1	1.38	205	AEP	323	392 Base Case	0	-29.1	-	9.02	0	-0.06%
242662 051	242662 05HALES2	242804 05SOUBWO	1	1.38	205	AEP	223	223 Base Case	0	-20.1	-	9	0	-0.19%
247799 058	247799 05S.OLIVE SS	247800 05MACKSBURG	1	138	205	AEP	296	400 Base Case	0	-26.6	-	8.99	0	-0.25%
238828 021	238828 02TVY011	240350 02TV-NB+17	1	1.38	202	ATSI	273	332 Base Case	0	-24.5	-	8.97	0	0.08%
239011 02N	239011 02NP 0-1	241921 02EL01	1	138	202	ATST	265	316 Base Case	0	-23.8	-	8.97	0	-0.03%
243065 05N	243065 05NSTBAS	243092 05SCANTO	1	138	205	AEP	296	296 Base Case	0	-26.5	-	8.96	0	-0.79%
235104 010	235104 01CABOT	239280 02CBNBBY	1	500	201/202	AP/ATST	3300	3897 Base Case	0	295	-	8 94	0	-7 76%
243668 050	243668 05WOOTON	324148 5HYDEN	1	161	205/363	AEP/LGEE	300	405 Base Case	0	-26.8	-	8 93	0	0 31%
243246 054	243246 05AUBUNC	243295 05GARBETT N	1	138	200,000	AEP	251	335 Base Case	0	22.4	-	8.93	0	-0.19%
243065 05N	243065 05NSTRAS	243114 055TRASB	1	138	205	AEP	287	299 Base Case	0	25.6	_	8 91	0	-0 79%
250013 080	250013 08DTMTCK	250111 08TP5483	1	138	212	DEO&K	198	198 Base Case	0	17.6	_	8 88	0	0 14%
238860 021	238860 02KTO-14	238933 02LVD014	1	138	202	ATST	273	332 Base Case	0	-24 2	-	8 88	0	-0.17%
242657 050	242657 05GBAVES	247887 05MCCONVILLE	1	138	205	AEP	167	245 Base Case	0	-14 8	-	8.87	0	0.01%
243366 055	243366 05808 PK12	245476 05808 PK34		138	205	AEP	946	996 Base Case	0	-83 7	_	8 85	0	0.14%
243366 051	243366 0580B PK12	245476 0580B PK34	ZN	138	205	AEP	946	996 Base Case	0	-83 7	-	8 85	0	0.14%
241936 221	241936 221-123 POT	241942 AA1-123 MAIN	1	345	203	ATST	9999	9999 Base Case	0	-880.8	_	8 81	0	-0.55%
238813 025	238813 02H0YTDL	239281 02CRNBRY	1	138	202	ATSI	278	339 Base Case	0	-24 5	_	8 81	0	-0.51%
242562 055	242562 05BORLND	242599 05CINDER	1	138	202	AFP	2.70	330 Base Case	0	24.3	_	8 81	0	0.01%
242813 059	242813 05SPIDCE	242836 05TURNE1	1	138	205	AFD	729	729 Base Case	0	-63 9	_	8 77	0	0.04%
242015 055	242013 055KIDGE	242030 0510NNE1	1	138	205	AED	205	284 Base Case	0	_18	_	8.76	0	0.00%
243100 055	243120 0550HERTON	245115 0550MERTON 2	71	120	205	AED	205	201 Dase Case	0	20.2	_	0.70	0	-0.26%
250062 08N	250062 08METESE	250088 080UNCT2	1	138	203	DEOEK	268	268 Base Case	0	23.2	_	8.72	0	-0.30%
242217 055	242217 050E0UTN	230088 0800NG12	1	245	212	AFD	200	1100 Base Case	0			0.72		-0.02%
243217 031	243217 05DEQ01N	240734 05FOWLER	1	120	203	AEF	373	261 Dase Case	0	-04.4	_	0.07	0	-0.03%
243030 051	243030 05LIMAOR	243100 USSIRLNI 247022 054EDNC4	1	120	205	AEP	329	720 Base Case	0	20.0	-	0.00		-0.30%
242762 005	242762 05R01n	247022 05HERNSH	1	130	203	AEF	729	729 Base Case	0	22.2	-	0.04		0.11%
246763 031	246763 USPIPECK	246988 USSIRWIN	1	130	205	AEP	237	360 Base Case	0	22.2	-	0.04	0	0.20%
247022 USF	247022 USHERNSH	247792 USFIELDS CRK	1	138	205	AEP	129	729 Base Case	0	62.9	-	8.62	0	0.11%
243407 031	243407 051ANNER CR2	243946 USMADISON2	1	130	205	AEP	107	223 Base Case	0	10.1	-	0.02	0	-0.24%
243320 USP	243320 USKANKAKEE2	244119 USGRAVEL PIT		138	205	AEP	187	240 Base Case	0	-16.1	-	8.62	0	0.30%
250039 08F	250039 08HALLI	250040 08HALL2	21	138	212	DEO&K	406	454 Base Case	0	35	-	8.61	0	-0.19%
24/3/5 USE	24/3/5 USBLUERACER8	247715 USBLUE RACER	1	138	205	AEP	555	220 Base Case	0	-47.8	-	8.61	0	0.00%
239014 021	239014 02NSQ-16	239331 UZNASHRING	1	138	202	ATSI	278	339 Base Case	0	-23.9	-	8.59	0	-0.10%
238517 021	238517 U2LYONS	238/12 U2FAYET	1	138	202	ATSI	224	266 Base Case	0	19.2	-	8.59	0	-0.09%
238768 020	238768 U2GRNFLD	238974 U2N DEPT	1	138	202	ATSI	200	242 Base Case	0	17.2	-	8.59		0.41%
253077 098	253077 09STUART	253352 ABI-169 MAIN	1	345	209	DAY	9999	9999 Base Case	0	-857.3	-	8.5/	0	-0.55%
239036 021	239036 02PERRY	239358 02GLENWILLOW	1	345	202	ATSI	1542	1878 Base Case	0	131.8	-	8.55	0	-1.17%
242//8 USF	242778 USRUM CK	242779 05RUMCKZ	1	138	205	AEP	205	251 Base Case	0	-17.5	-	8.54	0	0.00%
242657 050	24265/U5GRAVES	246229 U5REUSENS2	$+$ $\frac{1}{-}$	138	205	AEP	167	245 Base Case	0	-14.2	-	8.51		-0.01%
238656 021	238656 02DBQ-11	238701 02ERQ-11	$+$ $\frac{1}{-}$	138	202	ATSI	273	332 Base Case	0	-23.2	-	8.51	0	0.00%
242625 051	242625 U5DINGES	246923 USNEWSOM	+ 1	138	205	AEP	251	335 Base Case	0	-21.3	-	8.5	0	0.10%
235340 010	235340 UIGRASSY	247822 USQUINWOOD	1	138	201/205	AP/AEP	282	332 Base Case	0	-24	-	8.5	0	0.36%
243211 057	243211 05ALLEN	243231 05ROB PK	2	345	205	AEP	971	971 Base Case	0	-82.5	-	8.5	0	1.72%
238525 02F	238525 U2AD Q-4	241929 02AVQ3	1	138	202	ATSI	273	332 Base Case	0	-23.2	-	8.49	0	0.03%
243454 05E	243454 05BIXBY	243459 05KIRK	1	345	205	AEP	1409	1409 Base Case	0	-119.3	-	8.47	0	-1.92%
243476 05E	243476 05BOLINSMLSS	244283 O5MINERAL SS	1	138	205	AEP	323	361 Base Case	0	27.3	-	8.45	0	0.10%
243211 057	243211 05ALLEN	243231 05ROB PK	1	345	205	AEP	971	971 Base Case	0	-82	-	8.45	0	1.70%
238590 02E	238590 02BRWELL	238974 U2N DEPT	1	138	202	ATSI	189	230 Base Case	0	-16	-	8.45	0	0.41%
242521 051	242521 05NAGEL	360106 8SULLIVAN TN	1	500	205/347	AEP/TVA	2522	2522 Base Case	0	212.9	-	8.44	0	2.44%
243515 050	243515 05GORSCH	243521 05HARMRH	1	138	205	AEP	248	282 Base Case	0	-20.9	-	8.42	0	0.09%
243515 050	243515 05GORSCH	243564 U5RIVERV N.	1	138	205	AEP	248	282 Base Case	0	20.9	-	8.42	0	0.09%
242608 050	242608 05CLYTR1	242666 05HAZELH	1	138	205	AEP	167	240 Base Case	0	14.1	-	8.42	0	-0.13%
242537 057	242537 05AMOS	246768 USLANHAM	1	138	205	AEP	251	335 Base Case	0	21		8.39	0	0.00%
253021 091	253021 09DARBY	253245 09EAGLE	+ 1	138	209	DAY	201	220 Base Case	0	16.8	-	8.38	0	-0.14%
243568 058	243568 05SCIOTO	24/221 05DUPT_N	1	138	205	AEP	150	191 Base Case	0	12.6	-	8.38	0	0.00%

239112 021	239112 02LRCR01	239213 02AUSTO1	1	138	202	ATSI	148	151 Base Case	0	12.4	-	8.37	0	0.18%
239095 028	239095 02SBRN01	239213 02AUST01	1	138	202	ATSI	148	151 Base Case	0	-12.4	-	8.35	0	0.18%
243091 055	243091 055.CALDWELL	247799 058.0LIVE SS	1	1.38	205	AEP	296	413 Base Case	0	-24.7	-	8.35	0	-0.25%
238823 021	238823 02TNO-14	239324 02CH	1	138	202	ATST	273	332 Base Case	0	22.8	-	8.34	0	0.20%
238808 021	238808 02HML013	240261 02GMC013	1	138	202	ATSI	355	434 Base Case	0	-29.6	-	8.33	0	-0.15%
243261 050	243261 05COLBYTAPSS	247745 05COLBY	1	138	205	AEP	195	220 Base Case	0	16.2	-	8.32	0	0.00%
242946 051	242946 05TTDD	247130 05HOLLOW	1	345	205	AEP	971	971 Base Case	0	80.7	-	8.31	0	-2.68%
243522 051	243522 05HABBISON	247067 05GOODHP	1	138	205	AEP	296	413 Base Case	0	-24.6	-	8.31	0	-0.10%
239176 020	239176 02W00D+	239177 02WOODVT	1	138	202	ATST	278	342 Base Case	0	23	-	8 26	0	0.32%
250029 085	250029 08FOSTER	250059 08MATNVI	1	138	212	DEO&K	298	298 Base Case	0	24 6	-	8 24	0	0.06%
238516 025	238516 02 JOHNMANDEF	238659 02DEFISW	1	138	202	ATST	216	264 Base Case	0	17.8	-	8.22	0	0.00%
245023 051	245023 05TEBEBN	247715 05BLUE BACEB	1	138	205	AEP	296	413 Base Case	0	-24 3	-	8 21	0	0.00%
238542 024	238542 02ASH 1	239055 02015TAP	1	138	202	ATST	329	399 Base Case	0	27	_	8 2	0	0.00%
239290 021	239290 02HAYES	240813 02GBOTON	1	138	202	ATSI	278	339 Base Case	0	-22.7	_	8.17	0	0.29%
238665 021	238665 02DS 0-1	241237 02GBOV TP	1	138	202	ATSI	278	339 Base Case	0	22.7	-	8 16	0	0.32%
244024 059	244024 05SUMAC	247199 053MLTN	71	138	202	AFD	747	747 Base Case	0	-60.9	_	8 15	0	0.02%
244024 059	244024 0550MAC	247199 05AMLIN	7.2	138	205	AEP	747	747 Base Case	0	-60.9	_	8 15	0	0.00%
238890 021	238890 021.EMOYN	239176 02W00D+	1	138	203	ATST	282	347 Base Case	0	23	_	8 15	0	0.32%
244198 051	244198 05LEMASTER	244283 05MINERAL SS	1	138	202	AEP	323	451 Base Case	0	-26.3	_	8 13	0	0.02%
247738 05F	247738 05BOONE	247792 05FIELDS CBK	1	138	205	AEP	296	413 Base Case	0	-24 1	-	8 13	0	-0.02%
243684 051	243684 05DEWEY	243702 05THELMA	1	138	205	AEP	223	223 Base Case	0	-18 1	_	8 12	0	-0.02%
249984 082	249984 0825HLD8	250110 08CENTRI	1	138	203	DEOER	225	266 Base Case	0	-21 6	_	8 12	0	-0.04%
238798 021	238798 02460-21	239307 02470050-21	1	138	202	ATGT	148	151 Base Case	0	12	_	8 1	0	-0.02%
242950 057	242950 05aCaDEM	242955 05APPLE VLVZ	1	138	202	AIDI	251	251 Base Case	0	20 3	_	8 1	0	0.02%
242550 052	242330 05ACADEM	242555 05ATTLE VII2	1	138	205	ADI	201	3/1 Base Case	0	20.5	_	8 1	0	0.04%
243336 05N	243336 05MANOP7	243351 05NOPTHI	1	138	205	AFP	205	284 Base Case	0	16.6	_	8 1	0	0.04%
243536 050	243536 05MANORZ	243331 05NORTHL	1	138	205	AFP	203	335 Base Case	0	-20.3	_	8 09	0	0.17%
242334 050	246988 055TPWTN	242747 051EMBRT	1	138	205	ADI	251	360 Base Case	0	-20.3	_	8.07	0	-0.01%
242950 050	240500 050511WIN	240505 05WED C5	1	120	205	AEL	205	205 Base Case	0	16 5	_	0.07	0	0.01%
238685 025	238685 02EACTIK	243831 03CENTRM	1	138	203	ADE	205	203 Base Case	0	80.2	_	8.00	0	-0.10%
242656 050	242656 05CPASSH	241922 025502	1	138	202	ATD1	219	255 Base Case	0	17.6	_	8 02	0	0.10%
242650 050	242559 05001 m	242550 05POLT 7	1	120	205	AEL	210	255 Base Case	0	_17.0	_	0.02	0	0.00%
2425568 059	242556 058011	242339 03B0L1 2	1	138	205	AFP	427	601 Base Case	0	-17.5	_	8	0	0.01%
220026 025	230026 02MCCLELLAND	241013 03NEVILLE 35	1	245	203	ADI	127	001 Dase Case	0	-700	_	7 00	0	-0.50%
242909 054	242808 05 CDODNE	241913 AA1-044 COL	1	120	202	ALD	257	257 Base Case	0	20 5	_	7.99	0	0.00%
242000 000	242000 055FORNS	243632 UJCENIZ/	1	245	205	AEF	071	1225 Page Case	0	20.5		7.90	0	-1.02%
242545 050	242545 05WMILLE	247741 05HIAI1 5W2	1	120	203	AEF	150	102 Dase Case	0	10.0	_	7.90		-1.02%
243672 USE	243072 USBECKHA	243704 03VICCO		130	203	AEP	247	Too Base Case	0	12.0	-	7.90	0	-0.57%
245316 051	243316 USINDUSI PRI	245311 USINDUSI PK2	1 1	130	203	AEP	747	747 Base Case	0	39.5	-	7.90		0.00%
222007 021	243436 USNEWBERI	240334 03E.LEIFSICI	1	120	203	ADE	207	220 Page Case	0	-22.0		7.00		0.07%
242582 054	242582 05CADWI 7	247008 0501 ADVD	1	120	202	ALDI	2/0	334 Base Case	0	-21.9	_	7 00		-0.10%
242582 050	242582 USCARWLZ	247008 USCLARRB	71	120	203	AEP	596	534 Base Case	0	20.3	-	7.00	0	-0.08%
243323 036	243323 05HUNILEII	240370 05H0N1LE12	21	120	203	AEF	200	222 Page Case	0	-17 5		7.07		0.07%
243111 058	243111 0351MAR1	243132 05WM00L1	41	130	203	AEP	121	172 Base Case	0	-17.5	-	7.00	0	0.00%
243346 031	243348 USMOUND	243878 USSI.CAX	1	130	203	AEP	131	175 Base Case	0	-10.5	-	7.03		-0.03%
242710 050	242/16 USMIDKIF	242817 USSIONER		130	203	AEP	290	370 Base Case	0	23.1	-	7.01	0	0.03%
2423/9 030	242379 USCARBMA	242030 USTURNEL	1	138	205	ADF	383	522 Pase Case	0	-29.9	-	7.01		0.02%
238837 025	238837 02JGSQ14	238924 U2LTEQ14	1	138	202	ATSI	425	522 Base Case	0	-33.2	-	7.8	0	0.01%
243231 USE	243231 USBIALEK	243232 USBIALKT	1	130	205	ALP	195	220 Base Case	0	-15.2	-	7.0		0.00%
242009 054	242009 UJKANAWHAI	242/03 USRENSFU	1	138	205	ALF	100	167 Base Case	0	-14	-	7.76		0.04%
243039 051	243039 USMELMUK	243110 055TIFF1		138	205	ALP	10/	10/ Base Case	0	-13	-	/./0		0.21%
238/1/ 02-	230/1/UZ-SPUINT+	2409/9 UZDELAFULL	71	130	202	AISI	288	303 Base Case	0	_14 -	-	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		-0.10%
243303 USF	243303 USRIVERSIDEL	243040 USRIVERSIDEZ	1	138	205	ALF	18/	202 Base Case	0	-14.5	-	1.13		-0.18%
242991 USE	242991 USE SIDE	243US1 USNDELPH	1	138	205	AEP	251	201 Base Case	0	-19.4	-	1.13	0	0.51%
23011/ 014	23311/ UIKAMMER	242925 USKAMMER	1	120	201/205	AF/AEP	2986	3/92 Base Case	0	-230.3	-			9.02%
230000 U2L	230000 UZUS Q-3	241955 UZCLINTUN 247168 0EMTOUNS	1	138	202	AIDI	2/8	104 Page Case	0	21.4	-	7.0		0.32%
∠4334Z U3N	243342 UJMILAN	24/100 UJMICHN3	1 1	138	205	ALL	104	IU4 BASE Case	0	8	-	1.09	U	0.00%

Diamo de Jatimo Dataka Diatak I Jatimo Dataka Diatak I Jatimo Dataka Diataka Diataka <th>243523 05H</th> <th>243523 05HCREAN</th> <th>243547 05MORSE</th> <th>1</th> <th>138</th> <th>205 AEP</th> <th>150</th> <th>180 Base Case</th> <th>0 11.5 -</th> <th>7.69</th> <th>0</th> <th>-0.14%</th>	243523 05H	243523 05HCREAN	243547 05MORSE	1	138	205 AEP	150	180 Base Case	0 11.5 -	7.69	0	-0.14%
20099 20199 2019 <	238570 02E	238570 02BEAVER	238981 02NASA	1	138	202 ATSI	160	192 Base Case	0 -12.3 -	7.68	0	0.37%
2.5466 3.5466 3.5466 3.5466 3.5466 3.546 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.55	240979 021	240979 02DELAFOTI	240980 02FTVEPOINT	1	138	202 ATST	288	353 Base Case	0 22.1 -	7.67	0	0.00%
Displic Or Displic Or <thdisplic or<="" th=""> Displic Or DisplicO</thdisplic>	242669 055	242669 05HOLST1	242670 05H01.ST2	7B	138	205 AEP	285	337 Base Case	0 21 7 -	7 63	0	0.20%
1233 10 2203 10 2030 17-00 7.00 1 1.38 200 APF 2.10 2.21 2.22 Dase Case 0 1.6.6 - 7.56 6 0.00 1232 10 1232 200 1233 200 1233 200 APF 2.10 2.21 Dase Case 0 -1.6.6 - 7.56 6 0.005 12426 10 12462 50	238996 02N	238996 02NEO-15	241921 02EL01	1	138	202 ATST	273	332 Base Case	0 -20.8 -	7.61	0	0.09%
9.3397 9.3497 0.943977 0.943977 0.94397 <t< td=""><td>242543 057</td><td>242543 05AUSTIN</td><td>913030 Y1-006 TAP</td><td>1</td><td>138</td><td>205 AEP</td><td>219</td><td>251 Base Case</td><td>0 16.6 -</td><td>7 57</td><td>0</td><td>0.04%</td></t<>	242543 057	242543 05AUSTIN	913030 Y1-006 TAP	1	138	205 AEP	219	251 Base Case	0 16.6 -	7 57	0	0.04%
2268 2268 211 bast 2268 211 bast 2269 211 bast 2269 212 bast	243357 055	243357 05PENDLETON1	243382 05TANNER CK1	1	138	205 AEP	213	223 Base Case	0 -16 1 -	7.56	0	-0 24%
22222 02 22222 02 22222 02 22221 02 22221 02 22221 02 22221 02 22221 02 22221 02 22221 02 22221 02 22221 02 22222 02 22221 02 2221 02	242683 05.	242683 05.1 EARL	913030 V1-006 TAP	1	138	205 AEP	219	251 Base Case	0 -16.6 -	7.56	0	0.24%
22256 33 24258 20 24258 20 24278 33 24278 34 2478 34	242642 055	242642 05EPANKI IN	242831 05THORNT	1	138	205 AFP	150	204 Base Case	0 -11 3 -	7.55	0	0.04%
12172 60 242705 (SMARRER 12122 (SCALARSE 1 128 128 128 129 129 129 120 1	242042 051	242596 05CHECED	242031 051100001	1	120	205 AEI	720	720 Base Case	0 _55 _	7.55	0	0.10%
0 0	242390 030	242390 05CHESIK	242013 055KIDGE	1	120	205 AEF	206	279 Base Case	0 -22.3 -	7.55	0	0.03%
Charge Contract	242795 053	242793 033HARFL	247242 0JCHAF55	1	100	205 AEF	2.90	220 Dase Case	0 14 7	7.54	0	0.00%
242.0 2.93.0 </td <td>24//04 058</td> <td>247704 USPANDA RDSS</td> <td>247730 05PANDA RD</td> <td>1</td> <td>138</td> <td>205 AEP</td> <td>195</td> <td>220 Base Case</td> <td>0 14.7 -</td> <td>7.54</td> <td>0</td> <td>0.00%</td>	24//04 058	247704 USPANDA RDSS	247730 05PANDA RD	1	138	205 AEP	195	220 Base Case	0 14.7 -	7.54	0	0.00%
2428.0 2428.1 200.0000 as 2474.2 200.0000 b 248.0 200.0000 b 248.0 200.0000 b 200.0000	238727 020	238727 U2WLBCT+	239194 U2CALPH	1	138	202 ATSI	278	343 Base Case	0 20.9 -	7.53	0	-0.12%
23888 02 23888 02 23888 02 24388 02	242613 050	242613 USCOLLEEN SS	244423 USJAMES RIVR	1	138	205 AEP	167	167 Base Case	0 12.6 -	7.52	0	0.52%
2448 () Disk Labo 2447 () Disk Labo 1 1 1 20 PAPP 1.61 Lisk hase Case 0 1 - 7.40 0 0 24270 02 24271 02 24271 02 24271 02 02 0	238889 021	238889 UZLEMOYN	242936 05FOSTOR	1	345	202/205 ATS1/AEP	1390	1390 Base Case	0 103.9 -	7.48	0	-0.26%
2/2017 00 2/2017 00 <t< td=""><td>243497 051</td><td>243497 05DELANO</td><td>246123 05DELANO T1</td><td>Z1</td><td>138</td><td>205 AEP</td><td>161</td><td>186 Base Case</td><td>0 12 -</td><td>7.48</td><td>0</td><td>0.00%</td></t<>	243497 051	243497 05DELANO	246123 05DELANO T1	Z1	138	205 AEP	161	186 Base Case	0 12 -	7.48	0	0.00%
24937 088 24937 0822081 24937 0822081 1 345 212 2004 100	238729 021	238729 02FORD B	238767 02GRFD T	1	138	202 ATSI	160	192 Base Case	0 -11.9 -	7.45	0	0.00%
placed upsiloned 247793 0124724 (0) 24247 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24779 (0) 24771 (0) 24371 (0)	2495/1 08F	249571 08REDBK1	249575 08TERMNL	1	345	212 DEO&K	1509	1509 Base Case	0 -112.4 -	7.45	0	0.70%
2/2290 00 2/2291 000 2/24091 0000 2/24091 00000000000000000000000000000000000	242821 058	242821 05SUNDL2	247795 05LACEY BRCH	1	138	205 AEP	223	223 Base Case	0 -16.6 -	7.44	0	0.09%
243471 (058 #24471 (058#THEL 24355 (05.1NHET 1 136 205 REP 150 151 Ree Case 0 1.1. - 7.43 0 0.03% 238940 (021 23894) (024 CMURCH 231940 (021 2387ER) 218 (05 REP) 225 (05 REP) 226 (05 REP) 225 (05 REP) 225 (05 REP) 226 REP) 226 REP 0 16.6 - 7.37 0 0.005K 23897 021 238975 (021 REP) 2395 REP 226 REP 18 (05 REP) 225 REP 194 (027 REE) 236 REP 0 16.6 - 7.37 0 0.005K 242840 05 242840 (05 REP) 242850 (021 CMURCH) 24 REE 23882 (021 VN11 1 138 202 RES 164 149 RES CASE 0 14.1 - 7.3 0 0.005K 23890 021 238820 (021 VN11 1 138 202 RES 186 (23 REP) 164 (2 RES) 7.5 - 7.3 0 0.005K 238820 (021 VN11 1 138 <td>242590 050</td> <td>242590 05CENTER</td> <td>242591 05CENTRR</td> <td>Z1</td> <td>138</td> <td>205 AEP</td> <td>223</td> <td>310 Base Case</td> <td>0 -16.6 -</td> <td>7.43</td> <td>0</td> <td>0.00%</td>	242590 050	242590 05CENTER	242591 05CENTRR	Z1	138	205 AEP	223	310 Base Case	0 -16.6 -	7.43	0	0.00%
228944 02H 238942 02H 228940 02H 228940 02H 228940 02H 228940 02H 1 138 2021ATSI 128 1618 Rase Case 0 9.5. - 7.43 0 -0.02% 243842 05 243820 02 DEXEMPSC 1 138 2021ATSI 273 333 Rase Case 0 2.1. - 7.37 0 -0.02% 24382 05 243825 02S DEXEMPSC 240400 DEXEMPSC 1 138 2021ATSI 252 293 Rase Case 0 1.6.6 - 7.37 0 -0.00% 23897 022 238975 021 238975 021 238975 021 238975 020 238971 020 24840 58. 1.138 2021ATSI 563 Base Case 0 8. - 7.34 0 0.00% 238920 0214401 238920 021441 238920 021441 238920 021441 238920 021441 - 7.32 0 0.00% 238920 0214201 238920 0214201 1 138 2021ATSI 156 Base Case 0 1.4.1 - 7.24	243471 05E	243471 05BETHEL	243535 05LINWRT	1	138	205 AEP	150	151 Base Case	0 11.1 -	7.43	0	0.04%
228830 022 228830 027 -228830 027 -228830 027 -22873 332 Rase Case 0 -20.2 - 7.41 0 -0.038 238478 057 24342 055 Rase Case 0 16.6 - 7.37 0 -0.038 238975 028 238576 028 238576 028 Rase Case 0 16.6 - 7.37 0 0.0098 242849 055 242849 058 058 Rase Case 0 18.3 - 7.34 0 0.0098 242849 058 0242849 058 0242849 058 13.8 202 Parti 196 338 Rase Case 0 14.2 - 7.34 0 0.0098 23862 022 Parti 138 202 Parti 196 231 Rase Case 0 14.1 - 7.24 0 0.0098 23867 02528 0277 0524885 0277 0524885 0277 0524885 0277 <td>238944 021</td> <td>238944 02MASURY</td> <td>239120 02SSPRNG</td> <td>1</td> <td>138</td> <td>202 ATSI</td> <td>128</td> <td>165 Base Case</td> <td>0 9.5 -</td> <td>7.43</td> <td>0</td> <td>-0.21%</td>	238944 021	238944 02MASURY	239120 02SSPRNG	1	138	202 ATSI	128	165 Base Case	0 9.5 -	7.43	0	-0.21%
24382 05 24342 05 24342 05 052878 02 23887 02 238878 02 23882 02 23882 02 23882 02 23882 02 23882 02 23882 02 23882 02 23882 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 23887 02 27.5 - 7.3 0 0.0098 23887 02 23887 02 21887 02 1 1 18 202 A751 194 23 Base Case 0 14.1 - 7.2 0 0.0098 24250 02 242578 05CAR8 2 242600 0	238830 021	238830 02IWQ-16	238842 02JNPRQ3	1	138	202 ATSI	273	332 Base Case	0 -20.2 -	7.41	0	-0.02%
238578 021 238578 021 238578 021 238578 021 225 225 225 Base Case 0 16.6 - 7.37 0 -0.069% 242849 05 242849 05 242849 05 050440 020000000 13 202 ATSI 194 237 Base Case 0 18.6 - 7.35 0 0.009% 242849 05 242849 05 0504.100 242849 0504.000 13 Base Case 0 41.2 - 7.34 0 0.009% 238222 021 238202 0218671 021801 1 138 202 ATSI 553 Base Case 0 41.1 - 7.3 0 -0.009% 238207 054871 021801 1 138 202 ATSI 154 138 202 ATSI 154 - 7.3 0 0.009% 243136 0541404 242570 05 242581 054288 0 - 7.23 0 0.009% 243136 0541404 242504 0540404 138 20	243482 050	243482 05CENTBG	243583 05TRENT	1	138	205 AEP	285	338 Base Case	0 21 -	7.37	0	-0.11%
238975 021 238975 021 021 1 1 1 1 020 APSI 1 133 Base Case 0 1 1.3 - 7,35 0 0.00% 238000 0242840 05K.NURSPT 242840 05K.NURSPT 242840 05K.NURSPT 242840 05K.NURSPT 242840 05K.NURSPT 242840 05K.NURSPT 242840 05K.NURSPT 242870 0000% 238200 021223822 021741 1 138 202 APSI 563 563 Base Case 0 -14.1 - 7.3 0 0.00% 24257 05CAR8 2 1 138 202 APSI 164 180 Base Case 0 -14.4 - 7.24 0 0.00% 24250 05AEEENT 241740 05CAR8 1 138 202 APSI 139 335 Base Case 0 -14.4 - 7.24 0 0.00% 238900 0228890 028EENT 24140 05UTTN 1 138 205<	238578 02E	238578 02BORDMN	239166 02WCKLIF	1	138	202 ATSI	225	295 Base Case	0 16.6 -	7.37	0	-0.06%
242849 058 242849 058 244195 05800 224809 024850 <t< td=""><td>238975 021</td><td>238975 02N EAST</td><td>240240 02NEORSD</td><td>1</td><td>138</td><td>202 ATSI</td><td>194</td><td>237 Base Case</td><td>0 14.3 -</td><td>7.35</td><td>0</td><td>0.10%</td></t<>	238975 021	238975 02N EAST	240240 02NEORSD	1	138	202 ATSI	194	237 Base Case	0 14.3 -	7.35	0	0.10%
233500 02/2 236500 [22ALEM-1] 236820 [22ALEM-1] 236820 [22ALEM-1] 1388 [202 ATSI] 563 [ase Case] 0 41.2 - 7.32 0 0.005% 238220 02 [238820 [22RW-1] 23826 [22RV01] 1 138 202 ATSI 376 465 [ase Case] 0 -11.1 - 7.27 0 0.005% 242577 05 242577 [05CARB 8 242577 [05CARB 8 242577 [05CARB 8 24257 [05CARB 8] 24257 [05CARB 8] 24316 (35M L1NA) 44157 [05K002LA] 1 138<[205 AEF	242849 050	242849 05W.KINGSPT1	244195 05HOLSTN ARM	Z1	138	205 AEP	109	133 Base Case	0 8 -	7.34	0	0.00%
23822 02 23820 02100-11 23828 021V0011 1 138 202 ArS1 376 665 Base Case 0 27.5 - 7.3 0 0.008% 238267 022 023867 020 238673 022 ND 1 138 202 ArS1 194 237878 020 0 - 7.29 0 0.008% 242577 05 242577 05 242578 05CARB 8 242578 05CARB 2 1 138 205 AFP 205 Base Case 0 14.4 - 7.23 0 0.009% 24356 0 024 23589 025KENNT 247149 05NHITNU 1 138 202 ArS1 130 Base Case 0 14.4 - 7.23 0 0.009% 23585 0 021 23585 0224 23580 05KENNT 247490 05KENNT 247490 05KENNT 243620 05KENNT 247497 05K PCR 1 138 205 AFP 251 135 Base Case 0 14.4 - 7.22 0 0.009% 243042 05 242601 05CLEARB 24774 05KOARD 1 138 205 AFP 161 Base Case 0 11.3 - 7.16 0 0.019% 242601 05CLEARB 242774 05KOAND	238500 027	238500 02ALLEN-1	238531 02ALLNJ	ZB	138	202 ATSI	563	563 Base Case	0 41.2 -	7.32	0	0.05%
238637 02CPF LS 238673 02E TND 1 138 202 AFST 194 237 Base Case 0 -14.1 - 7.28 0 0.00% 24377<02C	238822 021	238822 02INQ-11	238828 02IVYQ11	1	138	202 ATSI	376	465 Base Case	0 27.5 -	7.3	0	-0.08%
242577 05CARB 8 242578 05CARB 2 1 138 205 APP 164 100 Base Case 0 11.9 - 7.27 0 0.00% 243136 058 243136 058 11.9 243156 025 Base Case 0 -14.8 - 7.23 0 0.00% 243569 022 238590 028 NEENM 243174 05 NEENM 1 138 202 AFSI 189 233 Base Case 0 -14.8 - 7.23 0 0.00% 242600 052 242601 05 SEENM 243142 05MILLBR PKI 243042 05MILLBR PKI 243047 05N PORT 1 138 205 AEP 165 185 Base Case 0 13.3 - 7.22 0 0.00% 242601 05 CURARB 24774 05N CANADZ 1 138 205 AEP 167 167 Base Case 0 11.3 - 7.19 0 0.02% 24261 05 CAREEM 24269 05KEENMT <	238637 020	238637 02CPP LS	238673 02E IND	1	138	202 ATSI	194	237 Base Case	0 -14.1 -	7.29	0	-0.10%
243136 05W LIMA 243157 05WODLA 1 138 205 APP 205 205 Pase Case 0 -14.8 - 7.24 0 0.00% 236590 022 236590 05KEENMT 247149 05WITWD 1 138 202 AFST 169 230 Base Case 0 14.4 - 7.23 0 0.00% 236590 228 585 02KILER PKL 23825 02TANNO 1 138 202 AFST 200 242 Base Case 0 14.4 - 7.22 0 0.00% 230520 05L 243025 05JUNCTN 24747 05LOUSE 1 138 205 APP 186 185 Base Case 0 11.3 - 7.19 0 0.00% 242650 05JUNCTN 24747 05RADO2 1 138 205 APP 158 188 Base Case 0 11.3 - 7.18 0 0.21% 242650 05GRABCK 242630 05GRABCK 242630 05GRABCK 1 138 <t< td=""><td>242577 050</td><td>242577 05CARB 8</td><td>242578 05CARB Z</td><td>1</td><td>138</td><td>205 AEP</td><td>164</td><td>180 Base Case</td><td>0 11.9 -</td><td>7.27</td><td>0</td><td>0.02%</td></t<>	242577 050	242577 05CARB 8	242578 05CARB Z	1	138	205 AEP	164	180 Base Case	0 11.9 -	7.27	0	0.02%
238590 028kwELL 238728 022kvED 1 138 202 APST 189 230 Base Case 0 13.7 - 7.2.3 0 0.01% 242690 058 242690 058 242690 058 242690 058 242690 058 243055 028kvEnxt 241140 05kwEnxt 1 138 202 APST 200 242 Base Case 0 14.4 - 7.2.2 0 0.00% 243025 024042 05KLEARK PA1470 05KDONC 1 138 205 AEP 185 Base Case 0 1.1.3 - 7.2.2 0 0.00% 242601 05 243025 05XUNCTN 244707 05KDONC 1 138 205 AEP 158 183 Base Case 0 1.1.3 - 7.18 0 0.00% 242601 05 243015 05KRENT 243015 05KENTN 21 138 205 AEP 251 335 Base Case 0 18.4 -	243136 050	243136 05W LIMA	243157 05WOODLA	1	138	205 AEP	205	205 Base Case	0 -14.8 -	7.24	0	0.00%
242690 05K 242690 05KEENMT 247149 05MILTRD 1 138 205 AEP 251 335 Base Case 0 -18.1 - 7.23 0 0.00% 238580 02 243042 05 MILLBR PK1 243047 05 NFOR 1 138 205 AEP 165 Base Case 0 11.3 - 7.2 0 0.00% 243025 05 243042 05 05UNCTN 247497 05CLOUSE 1 138 205 AEP 167 167 Base Case 0 1.1.3 - 7.18 0 0.00% 242654 05 CCRASCK 247040 05KENNC 1 138 205 AEP 158 183 Base Case 0 1.1.8 - 7.17 0 0.00% 242654 05 CRASCK 243043 05KEENNI 243043 05KEENNI 21 138 205 AEP 151 168 Base Case 0 18.4 - 7.1.1 0 0.00% 243055 <td>238590 02E</td> <td>238590 02BRWELL</td> <td>238728 02FORD</td> <td>1</td> <td>138</td> <td>202 ATSI</td> <td>189</td> <td>230 Base Case</td> <td>0 13.7 -</td> <td>7.23</td> <td>0</td> <td>0.41%</td>	238590 02E	238590 02BRWELL	238728 02FORD	1	138	202 ATSI	189	230 Base Case	0 13.7 -	7.23	0	0.41%
23855 022 23852 022RUANGC 1 138 202 ATSI 200 242 Base Case 0 14.4 - 7.22 0 0.01% 243042 05MILLBR PK1 243047 05N PORT 1 138 205 AEP 165 165 Base Case 0 13.3 - 7.2 0 -0.04% 243025 05_UNCTN 24707 05CLOUSE 1 138 205 AEP 165 185 Base Case 0 11.3 - 7.18 0 -0.04% 242654 05CLARBE 24274 05RONO2 1 138 205 AEP 251 335 Base Case 0 14.4 - 7.16 0 -0.07% 242654 05CRASCK 242690 05KEENNT 21 138 205 AEP 157 Base Case 0 18.4 - 7.16 0 -0.06% 243557 05RENC 244637 05RENC 21 138 202 ATSI 1517 168 Base Case 0	242690 05F	242690 05KEENMT	247149 05WHITWD	1	138	205 AEP	251	335 Base Case	0 -18.1 -	7.23	0	0.00%
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243025 05. 243025 05. 244302 05. 0.	243042 05N	243042 05MILLBR PK1	243047 05N PORT	1	138	205 AEP	185	185 Base Case	0 13.3 -	7.2	0	-0.04%
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250036 08G LNVW1 250037 08GLNVW2 Z1 138 212 DE0&K 516 573 Base Case 0 -36.8 - 7.13 0 0.21% 243557 055 243557 05RENO Z 244637 05RENO Z1 138 205 AEP 129 161 Base Case 0 9.2 - 7.11 0 0.00% 238530 02ALEN 238520 02ALEN 238527 02-15TSL 1 138 202 ATSI 1517 1863 Base Case 0 107.8 - 7.14 0 0.00% 243352 02 238520 02ALEN 23927 02-1STSL 1 138 202 ATSI 251 335 Base Case 0 17.7 - 7.04 0 0.22% 243314 05HUNTR8 24326 05LNERPK_ARG Z1 138 202 ATSI 1509 Base Case 0 16.9 - 7.03 0 0.02% 243420 05 24956 08FOSTER 249570	243015 050	243015 05GREENL	243039 05MELMOR	1	138	205 AEP	257	360 Base Case	0 18.4 -	7.16	0	-0.06%
243557 05 243557 05 24367 05 05 21 138 205 AEP 129 161 Base Case 0 9.2 - 7.11 0 0.00% 238530 022 238530 02ALLEN 239018 02FULTON 1 345 202 ATSI 1517 1863 Base Case 0 107.8 - 7.11 0 119% 238523 02C 238523 02CHRYTE 239227 02-1STSL 1 138 202 ATSI 288 346 Base Case 0 -20.3 - 7.04 0 0.12% 243314 05HUNTR8 24326 0SLAOTTO 1 138 205 AEP 251 335 Base Case 0 17.7 - 7.04 0 0.08% 243042 0SMILBR PK1 245949 0SMIBRPK ARG 21 138 205 AEP 210 296 Base Case 0 -16.9 - 7.02 0 0.08% 243042 0SMILBR PK1 245949 0SMUR	250036 080	250036 08GLNVW1	250037 08GLNVW2	Z1	138	212 DE0&K	516	573 Base Case	0 -36.8 -	7.13	0	0.21%
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249566 08FOSTER 249570 08F.UNON 1 345 212 DE0&K 1509 1509 Base Case 0 -105.9 - 7.02 0 1.39% 238749 02 238749 02GATES 238971 02MURAY 1 138 202 ATSI 196 210 Base Case 0 -13.7 - 6.99 0 0.06% 250099 08S 250099 08SIMPSN 250102 08SOCUVL 1 138 212 DE0&K 298 298 Base Case 0 -13.7 - 6.99 0 0.06% 243245 052 243245 05ANTHYZ 243379 05STATES 1 138 205 AEP 219 251 Base Case 0 15.2 - 6.99 0 -0.29% 243493 05C 243493 05CRVERD 243915 05BERRYWOOD 1 138 205 AEP 338 338 Base Case 0 23.5 - 6.99 0 0.10% 243493 05C <t< td=""><td>243042 05N</td><td>243042 05MILLBR PK1</td><td>245949 05MLBRPK_ARG</td><td>Z1</td><td>138</td><td>205 AEP</td><td>240</td><td>296 Base Case</td><td>0 -16.9 -</td><td>7.03</td><td>0</td><td>0.08%</td></t<>	243042 05N	243042 05MILLBR PK1	245949 05MLBRPK_ARG	Z1	138	205 AEP	240	296 Base Case	0 -16.9 -	7.03	0	0.08%
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	240069 021	240069 02LORDSTOWN	240074 02 22-028	1	345	202 ATSI	9999	9999 Base Case	0 -688.6 -	6.89	0	-0.43%
243472 05 243472 05 EXLEY 243592 05 YEARLG 1 138 205 AEP 164 180 Base Case 0 -11.3 - 6.89 0 -0.08%	243472 05E	243472 05BEXLEY	243592 05YEARLG	1	138	205 AEP	164	180 Base Case	0 -11.3 -	6.89	0	-0.08%
242564 05H 242564 05BRADL1 247826 05MOLLYS CRK 1 138 205 AEP 136 167 Base Case 0 9.4 - 6.88 0 0.26%	242564 05E	242564 05BRADL1	247826 05MOLLYS CRK	1	138	205 AEP	136	167 Base Case	0 9.4 -	6.88	0	0.26%
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1244 00 (2011) 20133 20133 20134 1000 1 1 134 2013 2014 134 14 134 2014 134 1	242532 051	242532	05NAGEL	304781	6CANERV230 T	1	230	205/341 AEP/CPLW	598	598 Base Case	0	41 -	6.86	0	0.25%
19792 29792 19792 19792 1979 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 247 200 <t< td=""><td>243487 050</td><td>243487</td><td>05CHK TAP Z</td><td>243528</td><td>05KARL ROAD</td><td>1</td><td>138</td><td>205 AEP</td><td>338</td><td>338 Base Case</td><td>0 -23</td><td>.1 -</td><td>6.83</td><td>0</td><td>-0.13%</td></t<>	243487 050	243487	05CHK TAP Z	243528	05KARL ROAD	1	138	205 AEP	338	338 Base Case	0 -23	.1 -	6.83	0	-0.13%
01220 0 01210 0 <t< td=""><td>238728 021</td><td>238728</td><td>02FORD</td><td>239738</td><td>020AKPOINT</td><td>1</td><td>138</td><td>202 ATSI</td><td>200</td><td>242 Base Case</td><td>0 13</td><td>.7 -</td><td>6.83</td><td>0</td><td>0.41%</td></t<>	238728 021	238728	02FORD	239738	020AKPOINT	1	138	202 ATSI	200	242 Base Case	0 13	.7 -	6.83	0	0.41%
Difference Difference <thdifference< th=""> Difference Differen</thdifference<>	243210 055	243210	0.5SULLTVAN	247712	0.5SULLTVAN	1	765/345	205 AEP	1737	1737 Base Case	0 118	.5 -	6.82	0	-3.52%
2010.0 2010.0<	238783 021	238783	02HARDIN	239334	02L.CENTER	1	345	202 ATSI	1555	1793 Base Case	0 -105	.8 -	6.8	0	-1.06%
9432 0 9432 0 9432 0 9432 0 9430 0<	250010 081	250010	08D.CRK2	250105	08TDHNTR	1	1.38	212 DEO&K	299	299 Base Case	0 -20	.3 -	6.8	0	0.04%
02000 03101 0 24101 0 24101 0	243212 055	243212	05BENTON	243215	05000K	1	345	205 AEP	1409	1868 Base Case	0 95	1 -	6.75	0	-2 23%
20192 201912 201912 201912 201912 201912 20192	243070 050	243070	050HTOCT	243076	0.5CONESPREPZ	1	1.38	205 AEP	446	601 Base Case	0 30	.1 -	6.75	0	-0.50%
2x333 0xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	238812 021	238812	02HOYTDI.	238941	02MANSED	1	345	202 ATST	1542	1878 Base Case	0 1	14 –	6.75	0	-1 03%
Daily Carle Daily Carle <thdaily carle<="" th=""> <thdaily carle<="" th=""></thdaily></thdaily>	242932 050	2/2032	05CANTNC	2/20/1	05SECANT	1	345	205 AFR	1409	1409 Base Case	0	95 -	6.74	0	_1 13%
Darma Core Darma Core <thdarma core<="" th=""> Darma Core Darma Co</thdarma>	238714 021	238714	02FB 0-3	238741	02EWLSO3	1	138	203 AEI 202 ATST	267	332 Base Case	0 -	18 -	6.74	0	0.26%
D1814 D181 D202 D181 D202 D181 D202 D210 D220 D210 D210 <thd210< th=""> D210 D210 <th< td=""><td>238799 021</td><td>238799</td><td>02480-23</td><td>2300/41</td><td>0200 01</td><td>1</td><td>138</td><td>202 ATSI</td><td>153</td><td>199 Base Case</td><td>0 10</td><td>3 _</td><td>6.74</td><td>0</td><td>0.20%</td></th<></thd210<>	238799 021	238799	02480-23	2300/41	0200 01	1	138	202 ATSI	153	199 Base Case	0 10	3 _	6.74	0	0.20%
000000 0000000 000000000000000000000000000000000000	220014 021	220010	02100222	220057	0210 01	70	120	202 ATOI	2500	2500 Rago Case	0 _169	1 _	6.72	0	-0.12%
Cale of a control of	250022 001	250022	02ERCRQ5	259057	02LKCKQ4	4D 1	120	202 AISI 212 DEOCK	2000	200 Base Case	0 -108	1 -	6.72	0	-0.12%
Chronic District Chronic Distric C	230022 085	230022	OFCOLLTNUL CC	230031	05KMFEKZ		130	212 DEO&A	150	190 Dase Case	0 -20		6.71	0	-0.12%
2128 09 24128 24128 24128 24128 2428 <td>242614 050</td> <td>242014</td> <td>OSCOLLINV SS</td> <td>247109</td> <td>OSCOLLINV</td> <td>21</td> <td>130</td> <td>205 AEP</td> <td>100</td> <td>100 Base Case</td> <td>0 10</td> <td>.0 -</td> <td>6.71</td> <td>0</td> <td>0.00%</td>	242614 050	242014	OSCOLLINV SS	247109	OSCOLLINV	21	130	205 AEP	100	100 Base Case	0 10	.0 -	6.71	0	0.00%
Parke 03	24/150 058	247150	05FARADAY	24/153	OSBERWIN	1	138	205 AEP	296	413 Base Case	0 19	./ -	6.66	0	0.14%
12100 00 24205 00 24205 00 13.6 - 5.6 0 0009 1212 56 2011 05.00017.0 24590 05.00017.0 1 1.33 205.APP 255 251 05.00018.88 0 -1.15 - 6.6.5 0 40085 21215 05 24705 05.00018.00 24305 05840.00 1 1.33 205.42P 223 223 8ase Case 0 -14.6 - 6.55 0 40085 21010 02017 016 24020 0584.0001 1 133 202.4731 223 291.888 0.428 0 -14.6 - 6.55 0 40085 21010 02017 058.00010.00 24071 05100.0000 1.33 202.4731 251.2018.886 0.41.3 - 6.55 0 40085 210710 052.0007400 244010 05700879 1 1.33 202.4731 051.888 0.388 0.41.6 - 6.51 0 00095 242790 053.007740.0	242946 051	242946	05TIDD	242948	05WBELLA	1	345	205 AEP	971	1318 Base Case	0 -64	.6 -	6.66	0	2.51%
21152 00000007 241944 00000007 11 <t< td=""><td>242955 USA</td><td>242955</td><td>USAPPLE VLYZ</td><td>243061</td><td>USNLEXTN</td><td>1</td><td>138</td><td>205 AEP</td><td>205</td><td>205 Base Case</td><td>0 13</td><td>.6 -</td><td>6.62</td><td>U</td><td>0.04%</td></t<>	242955 USA	242955	USAPPLE VLYZ	243061	USNLEXTN	1	138	205 AEP	205	205 Base Case	0 13	.6 -	6.62	U	0.04%
24279 001 24279 001 24279 001 24279 001 24279 001 24279 001 24279 001 24279 001 24279 001 24279 001 24279 001 24193 001 1138 220 222 223 Base 01 14.4 - 6.55 0 002 229017 021 29017 021 2901 0217 11 138 220 221 2386 01 -14.4 - 6.55 0 002 238866 221 23866 228866 01 -21.5 - 6.53 0 000 000 001 138 021730 58 24378 051 01.0 - 6.51 0 000 000 001.5 - 6.51 0 000 000 000 001.5 - 6.51 0 000 000 001.5 - 6.51 0 000 <td< td=""><td>243152 050</td><td>243152</td><td>05WMOULT</td><td>245994</td><td>05GEMINI</td><td>1</td><td>138</td><td>205 AEP</td><td>257</td><td>360 Base Case</td><td>0 -</td><td></td><td>6.6</td><td>0</td><td>-0.08%</td></td<>	243152 050	243152	05WMOULT	245994	05GEMINI	1	138	205 AEP	257	360 Base Case	0 -		6.6	0	-0.08%
242706 058 242706 058 242706 058 242706 058 242706 058 242706 058 242302 0258 Association - 6.56 0 -0.038 243000 058 243000 058716C4 243000 058716C4 243000 027804 - 6.55 0 -0.028 239866 02180411 239050 02180411 239050 021804 - 6.53 0 0.027% 239868 02180411 243050 0578478 1 136 202 1371 052 1288 0 - 6.53 0 0.027% 242790 058 207710 058 0277140 246162 058.007714 22 138 205 NPP 158 138 Base Case 0 10.3 - 6.51 0 0.00% 242790 058 0279 058.007714.0 246162 058.007714 21 138 205 NPP 158 133 Base Case 0 10.3 - 6.51 0 <	242759 051	242759	05POPLAR	247013	05CROOKC	1	138	205 AEP	296	361 Base Case	0 -19	.5 -	6.59	0	-0.08%
239017 028 239017 028 239017 028 239017 028 239017 028 239017 028 241220 02872 04 0 - 6.56 0 -0028 238000 02 238806 02 24870 058.000000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	242708 05N	242708	05M FUNK	242852	05WSALEM	1	138	205 AEP	223	223 Base Case	0 -14	.7 -	6.58	0	-0.1/%
243002 058 243002 058741CR 243092 058741CR 243092 028784 021 291	239017 021	239017	02NT Q16	241925	02ELQ5	1	138	202 ATSI	225	295 Base Case	0 -14	.8 -	6.56	0	-0.03%
23806 02 23806 02 021000011 23903 02 0200011 1 138 202 ATS1 355 438 Base Case 0 23.2 6.53 0 0.000% 243778 05 243778 055 0571MKN B 246331 0570MEFY BP 1 138 202 AEP 129 255 Base Case 0 -18.6 - 6.53 0 0.000% 24279 05 055.00FFAL0 24610 055.80FF1-4 32 138 205 AEP 158 183 Base Case 0 10.3 - 6.51 0 0.000% 24279 05 055.00FFAL0 24610 055.80FT1-4 41 138 205 AEP 158 183 Base Case 0 10.3 - 6.51 0 0.000% 24279 055 055.00FFAL0 246105 055.80FT1-4 41 138 205 AEP 158 183 Base Case 0 10.3 - 6.51 0 0.000% 24374 05 02280405 026004000000000000000000000000000000000	243002 051	243002	05FAIRCR	243097	05SECANT	1	138	205 AEP	291	291 Base Case	0 -19	.1 -	6.55	0	-0.28%
2.39988 0.23 3.39988 0.2778 0.571 0.572 0.000% 2.43778 0.571 0.571 0.572 0.571 0.572 0.571 0.572 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.571 0.000%	238806 02F	238806	02HMLQ11	239032	02PDBQ11	1	138	202 ATSI	355	434 Base Case	0 -23	.2 -	6.53	0	-0.27%
24378 051 24378 051 24378 052 Base Case 0 -18.6 - 6.53 0 0.028 242790 055 242790 055 DUFFALO 246162 DSS.BUFFALO 246162	239988 021	239988	02FE-POLO	247727	05POLO ROAD	1	138	202/205 ATSI/AEP	219	255 Base Case	0 14	.3 -	6.53	0	0.00%
24279 00 53.80FFALO 246162 (05.8.00FT1-4 22 138 203 AEP 158 183 Base Case 0 10.3 - 6.5.1 0 0.00% 24279 00 55.80FFALO 246162 (05.8.00FT1-4 21 138 203 AEP 158 1133 Base Case 0 10.3 - 6.5.1 0 0.00% 24279 00 55.80FFALO 246162 (05.8.00FT1-4 21 138 203 AEP 158 1133 Base Case 0 10.3 - 6.5.1 0 0.00% 238620 022 238623 020LLIN 228640 2286400 243040 55.80FT1-4 21 138 202 AEP 158 133 Base Case 0 -6.5 0 0.00% 238764 022 248623 020000000000000000000000000000000000	243778 051	243778	05TIMKEN B	246837	05TORREY_BP	1	138	205 AEP	285	302 Base Case	0 -18	.6 -	6.53	0	0.12%
24279 05 24279 05 S.BUFFALO 246162 05.BUF T1-4 23 138 205 AEP 158 183 Base Case 0 10.3 - 6.51 0 0.00% 24279 00 55.BUFFALO 246162 05.BUF T1-4 24 138 205 AEP 158 183 Base Case 0 10.3 - 6.51 0 0.00% 24279 00 55.BUFFALO 246162 05.BUF T1-4 24 138 202 AFSI 198 127 Base Case 0 1.2.6 - 6.51 0 0.00% 23873 02 223873 02CLIN 23863 02CF NHH 1 138 202 AFSI 233 282 Base Case 0 -15.1 - 6.5 0 0.20% 24374 05 24374 05 55.TIMK 24657 05CURER 1 138 205 AEF 237 337 Base Case 0 14.5 - 6.49 0 0.01% 24374 05 524376 05.LINE1 243370 05.LINE1 243370 05.LINE1 243370 05.LINE1 243370 05.LINE1 243370 05.LINE1 24376 05.LINE1 24376 05.LINE1 24376 05.LINE1 24376	242790 055	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z2	138	205 AEP	158	183 Base Case	0 10	.3 -	6.51	0	0.00%
242790 055.242790 055.BUFFALD 246162 055.BUF	242790 055	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z3	138	205 AEP	158	183 Base Case	0 10	.3 -	6.51	0	0.00%
242790 053.242790 053.00FFLO 246162 053.00FFLO 246162 053.00FFLO 138 202 AFF 158 183 Base Case 0 10.3 - 6.51 0 0.00% 238632 023652 0236530 0250NEY 1 138 202 ATSI 233 282 Base Case 0 -11.1 - 6.5 0 0.00% 23024 054040 0540NABD 243101 0554EUNS 1 138 203 AEP 233 108 Base Case 0 14.5 - 6.49 0 0.00% 24374 055 24376 055.01ENK 246637 0500NRET_BP 1 138 205 AEP 136 167 Base Case 0 14.6 - 6.48 0 0.00% 24376 055 24376 0550ENRNI 138 205 AEP 156 167 Base Case 0 10.2 - 6.46 0 0.00% 243784 05528HNB 25509 188 Base Case 0 12.7<	242790 055	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z1	138	205 AEP	158	183 Base Case	0 10	.3 -	6.51	0	0.00%
228632 02 23864 022 (220LLIN 238764 022 (220LLIN 238764 022 (238764 026ANGR 239125 (2270NEY 1 138 202 ATSI 233 232 Base Case 0 -15.1 - 6.5.5 0.00% 238764 022 (238764 026ANGR 239125 (2270NEY 1 138 202 ATSI 233 282 Base Case 0 - 6.49 0 0.00% 243474 055 243474 05ELAKL 246765 050TERB 1 138 205 AEP 221 310 Base Case 0 14.5 - 6.49 0 0.01% 243776 055 243776 055 244374 (5ELKHA B 25503 (5FUREM 1 138 205 AEP 136 167 Base Case 0 18.6 - 6.46 0 0.02% 24378 055 24478 (5ELKHA B 255051 SINEDIX 1 138 205 AEP 158 183 Base Case 0 12.7 - 6.45 0 0.02% 2478 04 05 2478 04 05ELKHA B 253074 09E DAK 1 138 205 AEP 127 - 6.45 0 0.02% 2478 04 05 24784 05ELKHA B 0520105	242790 055	242790	05S.BUFFALO	246162	05S.BUF T1-4	Z 4	138	205 AEP	158	183 Base Case	0 10	.3 -	6.51	0	0.00%
23876 02 23874 02 23870 027 1 138 202 AFSI 233 262 Base Case 0 - -6.5 0 0.00% 243024 051 243024 051 243074 051 243474 051 24377 055 24377 055 243774 055 24377 055 7377 Base Case 0 16.6 - 6.6.49 0 0.00% 24375 055 24377 055 LARK 243376 0570REV P 1 138 205 AEP 237 1677 Base Case 0 18.6 - 6.6.46 0 0.00% 24375 055 243757 0518 AURANE 243876 0570NEW 1 38 052 AEP 136 1677 Base Case 0 9.9.9 - 6.6.46 0 0.00% 242660 0.528044 0551AFLANE 245507 05488600T 1 138 2052/218 AEP/METC 1407 1407 1407 1407 1407 1407 1407 1407 1407 1409 1409 1409 1409 1409 1409 1409 1409 1207 <t< td=""><td>238632 020</td><td>238632</td><td>02COLLIN</td><td>238638</td><td>02CPP NH</td><td>1</td><td>138</td><td>202 ATSI</td><td>194</td><td>237 Base Case</td><td>0 -12</td><td>.6 -</td><td>6.51</td><td>0</td><td>-0.10%</td></t<>	238632 020	238632	02COLLIN	238638	02CPP NH	1	138	202 ATSI	194	237 Base Case	0 -12	.6 -	6.51	0	-0.10%
24302 05 24304 05 24307 05 24307 05 2437 05 2440 0 200 N2 240 05 2470 05 250 N1 NB 2500 N1 NB <td>238764 020</td> <td>238764</td> <td>02grangr</td> <td>239125</td> <td>02STONEY</td> <td>1</td> <td>138</td> <td>202 ATSI</td> <td>233</td> <td>282 Base Case</td> <td>0 -15</td> <td>.1 -</td> <td>6.5</td> <td>0</td> <td>0.20%</td>	238764 020	238764	02grangr	239125	02STONEY	1	138	202 ATSI	233	282 Base Case	0 -15	.1 -	6.5	0	0.20%
243474 055 24374 055 24374 055 24375 050 24375 050 24375 050 24375 050 24375 050 24375 050 24375 050 24375 050 24375 050 24375 050 24375 050 24375 050 24375 050 24376 050 24376 050 24376 050 24376 050 24376 050 550ELAWR 24505 05 24786 05 24268 05 24268 05 24268 05 24268 05 24268 05 24268 05 24268 05 050MABSCOTT 1 138 205 AEP 158 138 Base Case 0 90.7 - 6.45 0 0.00% 24324 055 243794 055. 244794 055. 244784 058. 1345 Base Case 0 90.7 - 6.44 0 0.00% 24324 057 24324 057.218 Base Case 12.7 - 6.44	243024 05H	243024	05HOWARD	243101	05SHELNS	1	138	205 AEP	93	93 Base Case	0	6 –	6.49	0	0.00%
243776 05S.TXM 24637 05TORKY_PP 1 138 205 AEP 287 337 Base Case 0 18.6 - 6.48 0 0.12% 243275 05E 243275 05ELAMRI 243375 05ENANBUR 1 138 205 AEP 136 167 Base Case 0 8.8 - 6.46 0 0.07% 242686 05_242686 05_JEHU BR SS 24757 05MABSCOTT 1 138 205 AEP 188 Base Case 0 12.7 - 6.45 0 0.00% 247894 052 247894 052.ELKHA BP 255101 17HIPLE 1 345 205/217 AEP/NIPS 1409 Base Case 0 90.7 - 6.44 0 0.00% 243240 052 24260 052.ELKHA BP 253074 052.EKHA BP 263071 3138 205/218 AEP/NTC 1374 1409 Base Case 0 16.5 - 6.44 0 0.00% 24203 051.ELKHA BP 243080 052.ECNA 11	243474 05E	243474	05BLACKL	246765	050UTERB	1	138	205 AEP	223	310 Base Case	0 14	.5 -	6.49	0	0.01%
243275 05DELAWR1 243387 05VANBUR 1 138 205 AEP 136 167 Base Case 0 6.8 - 6.66 0 -0.7% 247694 05E 247684 05E ELKHA BP 25603 18WEEDLK 1 345 205/218 AEP 1407 Base Case 0 -0.09 - 6.46 0 -0.7% 247680 052 242686 05JEHU BR SS 247570 05MBASCOTT 1 138 205 AEP 158 183 Base Case 0 -10.2 - 6.45 0 0.02% 247304 05E ZHABP 255105 17HIPE 1 345 205/217 AEP/NIPS 1409 Base Case 0 90.7 - 6.44 0 2.03% 242808 05E ZHABP 24384 05E CENTAN 138 205/217 AEP/NIPC 1409 Base Case 0 91.5 - 6.44 0 0.0% 24260 05E CELMAN 243840 05ENDNA 2480	243776 058	243776	05S.TIMK	246837	05TORREY_BP	1	138	205 AEP	287	337 Base Case	0 18	.6 -	6.48	0	0.12%
247894 05E 247894 05E 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 242686 05 247894 05E 253074 09 253074 09 253074 09 253074 09 253074 09 247894 05E 247894 05E 253074 09 255105 1711PLE 1 345 205/217 ABE/METC 1374 1409 Base Case 0 90.7 - 6.44 0 0.00% 242808 05 242808 05ESPORNS 1 138 205 AEP 255 256 Base Case 0 16.5 - 6.44 0 0.00% 242608 05 242805 05CENNA 242694 05KIMBAL 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.4	243275 051	243275	05DELAWR1	243387	05VANBUR	1	138	205 AEP	136	167 Base Case	0 8	.8 -	6.46	0	-0.07%
242660 05_ZE4U BR SS 247557 05MABSCOTT 1 138 205 AEP 158 138 Base Case 0 -10.2 - 6.45 0 0.08% 253074 09STATAP 253139 09STATAP 253139 09ELDEAN 1 345 205/217 AEP/NTPS 1409 Base Case 0 12.7 - 6.45 0 -0.02% 247894 055 EEKKAN BP 255105 17HIFLE 1 345 205/217 AEP/NTPS 1409 Base Case 0 90.7 - 6.44 0 -0.02% 242608 055 24208 055EVNN 243830 05EVNN 1 138 205 AEP 257 257 Base Case 0 16.5 - 6.44 0 0.00% 242600 05EVNN 242630 05EVNN 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.44 0 0.00% 242630 05EVNN 243240 05EAVNA 248850 05ENNA	247894 05E	247894	05E.ELKHA BP	256509	18WEEDLK	1	345	205/218 AEP/METC	1407	1407 Base Case	0 -90	.9 -	6.46	0	-1.20%
253074 09 253074 09 253074 09 253074 09 253074 09 253074 09 253074 09 253074 09 253074 09 253074 09 253074 09 253074 09 255074 243234 055 244284 055 244324 055 244324 055 244326 055 243234 057 243234 1409 Base Case 0 90.7 - 6.44 0 2.03% 242808 055 243203 05500RNS 24350 05500RNS 1 138 205 AEP 257 257 Base Case 0 16.5 - 6.44 0 0.00% 242600 05 DENNA 24268 05500RNS 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.44 0 0.00% 242680 05 24250 05 DEABNA 24694 05KIMBAL 1 138 205 AEP 205 205 Base Case 0	242686 053	242686	05JEHU BR SS	247557	05MABSCOTT	1	138	205 AEP	158	183 Base Case	0 -10	.2 -	6.45	0	0.08%
247894 05 247894 05E.LKHA BP 255105 17HIPLE 1 345 205/217 AEP/NIPS 1409 Base Case 0 90.7 - 6.44 0 2.03% 243234 05 243224 05ENUN B 25000 16ARCNTA 1 345 205/218 AEP/METC 1374 1409 Base Case 0 88.5 - 6.44 0 2.03% 242080 05ENENK 242808 05ENORNS 242808 05ENORNS 1 138 205 AEP 256 256 Base Case 0 1.18 - 6.44 0 0.00% 242600 05ENENL 24269 05ENENL 1 138 205 AEP 205 205 Base Case 0 1.31 - 6.44 0 0.00% 243248 05E 243248 05ANCNA 24696 05ENCH 1 138 205 AEP 205 205 Base Case 0 17.5 - 6.34 0 0.03% 243248 05ANCNA 24696 05ENCH 1 <	253074 095	253074	09STATAP	253139	09ELDEAN	1	138	209 DAY	197	269 Base Case	0 12	.7 -	6.45	0	-0.02%
24324 05T 24324 05TWIN B 256000 18ARGNTA 1 345 205/218 AEP/METC 1374 1409 Base Case 0 88.5 - 6.44 0 0.00% 242808 055 242808 0550RNS 243850 05CENT33 3 138 205 AEP 2257 257 Base Case 0 16.5 - 6.44 0 0.00% 242650 05G 242703 05LEON A 242808 05SPORNS 1 138 205 AEP 226 206 Base Case 0 13.1 - 6.4 0 0.00% 242650 05GLENL1 242694 05KIMBAL 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.38 0 0.00% 243248 05E 243248 05BAROA 24696 05PLETCH 1 138 205 AEP 766 898 Base Case 0 48.7 - 6.36 0 0.00%	247894 058	247894	05E.ELKHA BP	255105	17HIPLE	1	345	205/217 AEP/NIPS	1409	1409 Base Case	0 90	.7 -	6.44	0	-1.20%
242808 055 242808 055PORNS 243850 05CENT33 3 138 205 AEP 257 257 Base Case 0 16.5 - 6.44 0 0.00% 242703 051 242703 05LEON A 242808 05SPORNS 1 138 205 AEP 296 296 Base Case 0 - 6.4 0 0.00% 242605 055 CLENL1 242604 05KIMBAL 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.4 0 0.00% 243865 024263 05LENL1 24696 05KIMBAL 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.38 0 0.00% 243248 05BARODA 246996 05FUETCH 1 138 205/217 AEP 205 205 Base Case 0 13.1 - 6.38 0 0.00% 243240 05ALBION 245164 17NORTHPORT 1 138 <t< td=""><td>243234 051</td><td>243234</td><td>05TWIN B</td><td>256000</td><td>18ARGNTA</td><td>1</td><td>345</td><td>205/218 AEP/METC</td><td>1374</td><td>1409 Base Case</td><td>0 88</td><td>.5 -</td><td>6.44</td><td>0</td><td>2.03%</td></t<>	243234 051	243234	05TWIN B	256000	18ARGNTA	1	345	205/218 AEP/METC	1374	1409 Base Case	0 88	.5 -	6.44	0	2.03%
242703 051 242703 05LEON A 242808 05SPORNS 1 138 205 AEP 296 Base Case 0 -18.9 - 6.4 0 0.05% 242650 05 242650 05GLENL1 242694 05KIMAAL 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.4 0 0.00% 238857 02 238857 02KHTPQ1 238862 02KLQ-1 1 138 202 ATSI 273 332 Base Case 0 17.5 - 6.3 0 0.00% 243248 05BAROA 2499 05FLETCH 1 138 205 AEP 265 265 Base Case 0 14.3 - 6.38 0 0.55% 243241 05A 243243 05ALBION 255164 17NORTHPORT 1 138 205 AEP 185 Base Case 0 -11.7 - 6.33 0 0.00% 243265 05COREY 243364 05MOTV 1 </td <td>242808 055</td> <td>242808</td> <td>05SPORNS</td> <td>243850</td> <td>05CENT33</td> <td>3</td> <td>138</td> <td>205 AEP</td> <td>257</td> <td>257 Base Case</td> <td>0 16</td> <td>.5 -</td> <td>6.44</td> <td>0</td> <td>0.00%</td>	242808 055	242808	05SPORNS	243850	05CENT33	3	138	205 AEP	257	257 Base Case	0 16	.5 -	6.44	0	0.00%
242650 05GLENL1 242694 05KIMBAL 1 138 205 AEP 205 Base Case 0 13.1 - 6.4 0 0.20% 238857 02K 238857 02KHTPQ1 238862 02KL Q-1 1 138 202 ATSI 273 332 Base Case 0 17.5 - 6.39 0 0.00% 243248 05E 243248 05BARODA 246996 05FLETCH 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.38 0 -0.35% 247370 05MUSKNG1A 247371 05MUSKNG1B 21 138 205 AEP 766 898 Base Case 0 48.7 - 6.36 0 0.00% 243241 05ALBION 25164 17NORTHPORT 1 138 205 AEP 185 185 Base Case 0 -11.7 - 6.34 0 0.06% 243265 05 COREY 243246 05MORTV 1 138 205 <	242703 051	242703	05LEON A	242808	05SPORNS	1	138	205 AEP	296	296 Base Case	0 -18	.9 -	6.4	0	0.05%
238857 02K 238857 02KHTPQ1 238862 02KLQ-1 1 138 202 ATSI 273 332 Base Case 0 17.5 - 6.39 0 0.00% 243248 05E 243248 05BARDA 246996 05FLETCH 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.38 0 -0.35% 247370 05MUSKNG1A 247371 05MUSKNG1B Z1 138 205 AEP 766 898 Base Case 0 48.7 - 6.38 0 0.00% 243241 05AUSKNG1A 247371 05MUSKNG1B Z1 138 205/217 AEP/NIPS 148 181 Base Case 0 - 6.34 0 0.00% 243245 05COREY 243346 05MOTV 1 138 205 AEP 185 Base Case 0 -11.7 - 6.33 0 0.00% 242750 05 242750 05PHILPOTT Z 247720 05PHILPOTT Z 138	242650 050	242650	05GLENL1	242694	05KIMBAL	1	138	205 AEP	205	205 Base Case	0 13	.1 -	6.4	0	0.20%
243248 05B 243248 05BARODA 246996 05PLETCH 1 138 205 AEP 205 205 Base Case 0 13.1 - 6.38 0 -0.35% 247370 05N 247370 05MUSKNGIA 247371 05MUSKNGIB 21 138 205 AEP 766 898 Base Case 0 48.7 - 6.38 0 0.05% 243241 05AUSKNGIA 247370 05MUSKNGIA 243741 17NORTHPORT 1 138 205/217 AEP/NIPS 148 181 Base Case 0 -9.4 - 6.34 0 0.05% 243241 05AUSKNGIA 24346 05MOTV 1 138 205/217 AEP/NIPS 148 181 Base Case 0 -11.7 - 6.34 0 -0.05% 242750 05PHILPOTT 24733 05PHILPOTT 1 138 205 AEP 101 145 Base Case 0 -6.4 - 6.33 0 -0.33% 242713 05PHILPOTT 247	238857 021	238857	02KHTPQ1	238862	02KL Q-1	1	138	202 ATSI	273	332 Base Case	0 17	.5 -	6.39	0	0.00%
247370 05M 247370 05MUSKNG1A 247371 05MUSKNG1B 21 138 205 AEP 766 898 Base Case 0 48.7 - 6.36 0 0.05% 243241 054 243241 054LBION 255164 17NORTHPORT 1 138 205/217 AEP/NIPS 148 181 Base Case 0 -9.4 - 6.34 0 0.05% 243265 05COREY 243346 05MOTV 1 138 205/217 AEP 185 Base Case 0 -11.7 - 6.34 0 0.05% 242750 05 242750 05PHILPOTT 247723 05PHILPOTT 1 138 205 AEP 101 145 Base Case 0 -6.4 - 6.33 0 0.00% 242810 05SPRING 24781 05SPRINGDNI 1 138 205 AEP 167 240 Base Case 0 -6.4 - 6.33 0 -0.03% 242731 05N CATRIN 24786 05S.ABINGDNI	243248 05E	243248	05BARODA	246996	05PLETCH	1	138	205 AEP	205	205 Base Case	0 13	.1 -	6.38	0	-0.35%
243241 052 243241 054 05ALBION 255164 17NORTHPORT 1 138 205/217 AEP/NIPS 148 181 Base Case 0 -9.4 - 6.34 0 0.16% 243265 05 243265 05COREY 243346 05MOTTV 1 138 205 AEP 185 185 Base Case 0 -11.7 - 6.34 0 -0.05% 242750 05 242750 05PHILPOTT z 247723 05PHILPOTT 1 138 205 AEP 101 145 Base Case 0 -6.4 - 6.33 0 0.00% 242811 05SPRING 247819 05S.ABINGDN1 1 138 205 AEP 167 240 Base Case 0 -6.4 - 6.33 0 0.00% 242811 05SPRING 247819 05S.ABINGDN1 1 138 205 AEP 167 240 Base Case 0 -10.6 - 6.33 0 0.01% 242733 05N EWHOP 242786 05S.FRINCETN 1	247370 05N	247370	05MUSKNG1A	247371	05MUSKNG1B	Z1	138	205 AEP	766	898 Base Case	0 48	.7 -	6.36	0	0.05%
243265 05COREY 243346 05MOTTV 1 138 205 AEP 185 185 Base Case 0 -11.7 - 6.34 0 -0.05% 242750 05 242750 05PHILPOTT Z 247723 05PHILPOTT 1 138 205 AEP 101 145 Base Case 0 -6.4 - 6.33 0 0.00% 242811 05S 242811 05SPRING 247819 05S.ABINGDN1 1 138 205 AEP 167 240 Base Case 0 -6.4 - 6.33 0 0.00% 242811 05SPRING 247819 05S.ABINGDN1 1 138 205 AEP 167 240 Base Case 0 -10.6 - 6.32 0 -0.33% 242733 05N 242733 05NEWHOP 242786 05S.PRINCETN 1 138 205 AEP 334 334 Base Case 0 21 - 6.33 0 0.18% 0.18% 250022 08EVNDL1 250023 0	243241 057	243241	05ALBION	255164	17NORTHPORT	1	138	205/217 AEP/NIPS	148	181 Base Case	0 -9	.4 -	6.34	0	0.16%
242750 05 242750 05PHILPOTT Z 247723 05PHILPOTT Z 247723 05PHILPOTT Z 138 205 AEP 101 145 Base Case 0 -6.4 - 6.33 0 0.00% 242811 055 242811 05SPRING 247819 05S.ABINGDN1 1 138 205 AEP 167 240 Base Case 0 -10.6 - 6.33 0 0.00% 242733 05N 242733 05NEWHOP 242786 05S.PRINCETN 1 138 205 AEP 334 334 Base Case 0 -10.6 - 6.32 0 -0.33% 242733 05NEWHOP 242786 05S.PRINCETN 1 138 205 AEP 334 334 Base Case 0 21 - 6.33 0 0.18% 250022 08EVNDL1 250023 08EVNDL2 21 138 212 DE06K 498 498 Base Case 0 -31.3 - 6.29 0 0.12% 0.12% 0.12% 0.12%	243265 050	243265	05COREY	243346	05MOTTV	1	138	205 AEP	185	185 Base Case	0 -11	.7 -	6.34	0	-0.05%
242811 05SPRING 247819 05S.ABINGDN1 1 138 205 AEP 167 240 Base Case 0 -10.6 - 6.32 0 -0.33% 242733 05N 242733 05NEWHOP 242786 05S.PRINCETN 1 138 205 AEP 334 334 Base Case 0 21 - 6.32 0 0.18% 250022 08E 250022 08EVNDL1 250023 08EVNDL2 21 138 212 DE0&K 498 498 Base Case 0 -31.3 - 6.29 0 0.12% 242988 05D 05W00 243042 05MILLBR PK1 1 138 205 AEP 136 167 Base Case 0 13.3 - 6.29 0 0.12% 242988 05D 05W00 243042 05MILLBR PK1 1 138 205 AEP 136 167 Base Case 0 8.5 - 6.28 0 -0.12% 238632 02C 238632 02COLLIN 240240	242750 051	242750	05PHILPOTT Z	247723	05PHILPOTT	1	138	205 AEP	101	145 Base Case	0 -6	.4 -	6.33	0	0.00%
242733 05N EWHOP 242786 05S.PRINCETN 1 138 205 AEP 334 334 Base Case 0 21 - 6.3 0 0.18% 250022 08E 250022 08EVNDL1 250023 08EVNDL2 21 138 212 DE0&K 498 498 Base Case 0 - 6.29 0 0.12% 242988 051 242988 05D0GWOO 243042 05MILLBR PK1 1 138 205 AEP 136 167 Base Case 0 8.5 - 6.28 0 -0.12% 238632 02C 238632 02COLLIN 240240 02NEORSD 1 138 202 ATSI 194 237 Base Case 0 -12.2 - 6.27 0 0.10%	242811 055	242811	05SPRING	247819	05S.ABINGDN1	1	138	205 AEP	167	240 Base Case	0 -10	.6 -	6.32	0	-0.33%
250022 08EVNDL1 250023 08EVNDL2 21 138 212 DE0&K 498 498 Base Case 0 -31.3 - 6.29 0 0.12% 242988 051 242988 05D0GWOO 243042 05MILLBR PK1 1 138 205 AEP 136 167 Base Case 0 8.5 - 6.29 0 -0.12% 238632 02C 238632 02COLLIN 240240 02NEORSD 1 138 202 ATSI 194 237 Base Case 0 -12.2 - 6.27 0 0.10%	242733 05N	242733	05NEWHOP	242786	05S.PRINCETN	1	138	205 AEP	334	334 Base Case	0	21 -	6.3	0	0.18%
242988 051 242988 05D0GWOO 243042 05MILLBR PK1 1 138 205 AEP 136 167 Base Case 0 8.5 - 6.28 0 -0.12% 238632 02C 238632 02COLLIN 240240 02NEORSD 1 138 202 ATSI 194 237 Base Case 0 - 6.28 0 -0.12%	250022 08E	250022	08EVNDL1	250023	08EVNDL2	Z1	138	212 DE0&K	498	498 Base Case	0 -31	.3 -	6.29	0	0.12%
238632 02C 238632 02COLLIN 240240 02NEORSD 1 138 202 ATSI 194 237 Base Case 0 -12.2 - 6.27 0 0.10%	242988 051	242988	05DOGWOO	243042	05MILLBR PK1	1	138	205 AEP	136	167 Base Case	0 8	.5 -	6.28	0	-0.12%
	238632 020	238632	02COLLIN	240240	02NEORSD	1	138	202 ATSI	194	237 Base Case	0 -12	.2 -	6.27	0	0.10%
242651 05d 242651 05GLENL2 242805 05HATCHR 1 138 205 AEP 334 334 Base Case 0 -20.9 - 6.27 0 0.36%	242651 050	242651	05GLENL2	242805	05HATCHR	1	138	205 AEP	334	334 Base Case	0 -20	.9 -	6.27	0	0.36%

243509 055	243509	05FISHRD	243587	∩5WTLSNZ	1	138	205 AEP	223	310 Base Case	0 -14	_	6.26	0	0.02%
243114 059	2433000	059TEDARB	243135	05WIBONE	1	138	205 AEP	223	335 Base Case	0 19	_	6.26	0	-0.79%
243114 055	243114	05511A5B	243133	OSW DOVE	1	100	205 ABI	207	167 Dase Case	0 10 3		6.20		0.75/0
243262 030	243262	USCOLLEGE C	243364	0 SRICHMO	1	138	203 AEP	164	167 Base Case	0 -10.3	-	6.25		0.31%
243241 05A	243241	05ALBION	243288	05EGE	1	138	205 AEP	187	202 Base Case	0 -11.7	-	6.24	0	-0.26%
243147 050	243147	05WILDCRK SS	244566	05LA RUE	1	138	205 AEP	185	185 Base Case	0 11.5	-	6.23	0	0.25%
242759 051	242759	05POPLAR	244192	05BALLS GAP	1	138	205 AEP	167	167 Base Case	0 10.4	-	6.23	0	-0.08%
242565 05E	242565	05BRADL2	242618	05DAMERN	1	138	205 AEP	195	220 Base Case	0 12.1	-	6.22	0	-0.02%
242800 055	242800	05SISSON	246768	05LANHAM	1	138	205 AEP	251	330 Base Case	0 -15.6	-	6.21	0	0.00%
243016 05H	243016	05HANTHR	243768	05GOE	1	138	205 AEP	205	205 Base Case	0 12.7	-	6.19	0	0.00%
239193 020	239193	02CONAGR	239194	02CALPH	1	138	202 ATSI	278	343 Base Case	0 -17.2	-	6.19	0	-0.12%
239192 020	239192	02WALGRN	239193	02CONAGR	1	138	202 ATSI	278	343 Base Case	0 -17.2	-	6.19	0	-0.12%
242963 05H	242963	05HEDDSS	243153	05WMTVER	1	138	205 AEP	220	255 Base Case	0 -13.6	-	6.18	0	-0.24%
243568 058	243568	05SCIOTO	243569	05SCIPPO	1	138	205 AEP	246	246 Base Case	0 15.2	-	6.17	0	0.01%
247151 051	247151	05YUKON	247153	05BERWIN	1	138	205 AEP	296	413 Base Case	0 -18.3	-	6.17	0	0.14%
243209 05F	243209	0.5ROCKPT	243210	0.5SULLIVAN	1	765	205 AEP	3859	3859 Base Case	0 237.2	-	6.15	0	-7.05%
243076 050	243076	05CONESPREPZ	243488	05CONESVILLE	1	138	205 AEP	446	601 Base Case	0 27 4	-	6 13	0	-0 50%
238813 025	238813	02HOYTDI.	238942	02MAPLE	1	138	202 2751	278	339 Base Case	0 17	-	6 11	0	0.71%
242265 050	242265	05CODEV	242200	05UVDDAMATTC	1	120	205 AFD	2.70	251 Base Case	0 15 2	_	6.00	0	-0.01%
242611 050	243203	05COALEK	243233	05TENMII	1	138	205 AET	210	223 Base Case	0 13.3	_	6.08	0	-0.10%
243270 050	242011	05CPOSSS	242020	05CDOSS ST 7	1	138	205 AET	164	180 Base Case	0 _10.0	_	6.07	0	0.10%
243270 050	243270	OSE BROAD	247420	05CK055 51 Z	1	120	205 AEI	240	200 Base Case	0 -14 5	_	6.02	0	0.00%
246220 054	245502	05E.BROAD	240703	05CLARKE	1	120	205 AEI	240	205 Base Case	0 _17.0	_	6.03	0	-0.02%
240220 053	240220	OSSWITCHB_BP	247008	0 JCLARRB	1	130	205 AEF	2.95	295 Base Case	0 17.8	_	6.03	0	-0.08%
246220 033	240220	035WITCHB_BP	247029	OCHORSPN	1	130	205 AEP	293	295 Base Case	0 1/.8	-	6.03		-0.08%
238544 024	238544	UZASH_3	238692	0ZASH_EAST	1	138	ZUZ ATSI	2/3	338 Base Case	0 16.5	-	6.03		0.00%
242692 051	242692	USKEYWOD	242693	USKEYWSS	1	138	205 AEP	158	180 Base Case	0 -9.5	-	6	0	0.00%
243119 058	243119	05SOMERTON Z	247757	05HERLAN SW	1	138	205 AEP	205	284 Base Case	0 12.3	-	6	0	-0.30%
238732 021	238732	02FOXQ11	239032	02PDBQ11	1	138	202 ATSI	425	522 Base Case	0 25.5	-	5.99	0	-0.27%
239078 02F	239078	02RYAN	239158	02W.MED	1	138	202 ATSI	233	282 Base Case	0 -13.9	-	5.98	0	0.07%
243339 05N	243339	05MEADOW	243357	05PENDLETON1	1	138	205 AEP	185	185 Base Case	0 -11.1	-	5.98	0	0.01%
242608 050	242608	05CLYTR1	242610	05CLYTR3	Z1	138	205 AEP	329	361 Base Case	0 19.6	-	5.97	0	-0.12%
253044 09N	253044	09MECHAN	253245	09EAGLE	1	138	209 DAY	221	272 Base Case	0 -13.2	-	5.95	0	-0.14%
242937 051	242937	05KAMMER	247832	05LAMPING	1	345	205 AEP	971	971 Base Case	0 57.7	-	5.94	0	-2.46%
238913 021	238913	02LRCRQ2	239112	02LRCRQ1	ZB	138	202 ATSI	2500	2500 Base Case	0 -148.4	-	5.94	0	-0.10%
238712 02E	238712	02FAYET	239351	02EASTFAYT	1	138	202 ATSI	221	262 Base Case	0 13.1	-	5.93	0	-0.09%
238525 027	238525	02AD Q-4	238916	02LRN Q4	1	138	202 ATSI	176	229 Base Case	0 10.4	-	5.93	0	0.03%
250102 085	250102	08SOCLVL	250111	08TP5483	1	138	212 DEO&K	298	298 Base Case	0 -17.6	-	5.9	0	0.14%
247000 051	247000	05YELLOW CK1	247001	05YELLOW CK2	Z1	138	205 AEP	747	747 Base Case	0 44.1	-	5.9	0	-0.07%
243289 05E	243289	05ELCONA	243290	05ELCONZ	1	138	205 AEP	251	335 Base Case	0 -14.8	-	5.9	0	0.00%
238652 021	238652	02DARROW	238814	02HUDMUN	1	138	202 ATSI	190	225 Base Case	0 -11.2	-	5.9	0	0.04%
238703 02E	238703	02ESPRNG	239278	02BRDVIE	1	138	202 ATSI	160	192 Base Case	0 -9.4	-	5.87	0	0.07%
243259 050	243259	05CNTRVL	243344	05MODOC	1	138	205 AEP	185	185 Base Case	0 -10.9	-	5.87	0	0.30%
238716 02F	238716	02FIRSTN	239083	02SAKRON	1	138	202 ATSI	196	210 Base Case	0 -11.4	-	5.84	0	-0.08%
239013 021	239013	02NSO-15	239331	02NASHRING	1	138	202 ATSI	273	332 Base Case	0 -15.9	-	5.83	0	-0.09%
242577 050	242577	05CARB 8	242579	0.5CARBMA	1	1.38	205 AEP	205	205 Base Case	0 -11.9	_	5.82	0	0.02%
247150 055	247150	0.5FARADAY	247160	0.5BEARWA	1	1.38	205 AEP	296	413 Base Case	0 17.2	_	5.81	0	-0.05%
242561 055	242561	05BOONSBORO	242641	05EOREST	1	138	205 AEP	167	240 Base Case	0 -9.7	-	5.81	0	-0.09%
238619 020	238619	02CL 011	240346	02GROVWDO11		138	203 1101	273	332 Base Case	0 -15.8	_	5.8	0	0.00%
242599 050	242599	05CINDER	242810	05SPRIG2	1	138	205 AEP	296	369 Base Case	0 17.2	_	5.8	0	0.00%
243259 050	243259	05CNTRVI	2432620	05COLLEGE C	1	138	205 AEP	1.85	185 Base Case	0 10 7	_	5 79	0	0 37%
245476 057	245474	05BOB PK34	243202	05DUNTONIAKE	2	130	205 750	200	451 Baco Caco	0 10.7	_	5.79		-0.06%
243470 031	243470	OSTEON N	241190	050 DURIONLAKE	2	100	205 AEP	323	AJI DASE CASE	U 18./	-	5.70		-0.00%
242/03 001	242703	OSLEON A	242/90	0500DENC	1	138	205 AEP	296	290 Base Case	U -1/.1	-	5.76		-0.00%
243218 051	243218	USDESUTU	243232	0550RENS	2	345	2US AEP	9/1	9/1 Base Case	U 56	-	5.76		-0.00%
24328/ U5E	243287	USE.ELKHART	24/541	USUSULUZ	1	138	2U5 AEP	205	284 Base Case	0 11.8	-	5.75		-0.18%
238959 U2N	238959	UZMFLDQ4	238973	UZMX Q-4		138	202 ATSI	265	316 Base Case	0 -15.2	-	5./4		0.18%
238960 U2N	238960	UZMIDW K	239165	UZWAUSEO	1	138	202 ATS1	158	190 Base Case	0 9.1	-	5./4		-0.19%
239192 020	239192	U2WALGRN	240988	02SHELBY_FS+	1	138	202 ATSI	278	343 Base Case	0 16	-	5.74	0	-0.12%

238720 02E	238720 02FMC013	238726 02FMQ13H	1	138	202 ATSI	103	133 Base Case	0 5.9 -	5.73	0	0.00%
243918 05E	243918 05ELDERBERRY	244130 05ST.JOE CTR	1	345	205 AEP	9999	9999 Base Case	0 -570.2 -	5.7	0	-0.36%
243243 057	243243 05ANDCT	249781 08LAPL JT	1	1.38	205/208 AEP/DET	136	143 Base Case	0 7.7 -	5.69	0	-0.22%
243073 055	243073 05PATRT8	246273 05THIVENE SS	1	138	205 AEP	95	95 Base Case	0 -5 4 -	5 66	0	0.00%
239935 02N	239935 02MARKWEST	239943 02MKWEST2	1	138	202 ATST	312	380 Base Case	0 -17 7 -	5 66	0	0.51%
249992 080	249992 08CDRVI.1	250137 080BANNV	1	138	212 DEO&K	291	291 Base Case	0 16.5 -	5 66	0	-0.13%
243458 056	243458 0547277	247741 05HYATT SW2	7.2	345	205 AEP	1370	1503 Base Case	0 -77 5 -	5.66	0	-1 02%
238505 021	238505 02DELTA	240842 02NFF	1	138	202 ATST	278	343 Base Case	0 15 7 -	5.64	0	-0.16%
247019 051	247019 05NEVITLE SS	247222 050072 8	1	138	205 AFP	270	310 Base Case	0 12.6 -	5.64	0	0.10%
24/019 050	247019 050LOPE MT 7	247222 050011_5	711	120	205 AEL	223	747 Base Case	0 -42 1 -	5.04	0	0.00%
240399 030	240399 0501 AWAD2	247373 05M05KNG2A	20	120	205 AEF	670	747 Base Case	0 27 7 -	5.63	0	0.14%
243498 031	243456 05DLAWAR2	243962 03DLAWARS	1 1	130	205 AEF	101	250 Dase Case	0 10 7	5.03	0	0.11/0
242963 USF	242963 03HEDDSS	243011 05F0L10N	1	130	205 AEP	191	250 Base Case	0 10.7 -	5.65	0	-0.24%
238556 024	238556 UZAYERSV	239269 U2RICHLJ	1	138	202 ATS1	216	264 Base Case	0 -12.1 -	5.62	0	0.00%
242938 051	242938 USMARQUI	248003 06D0E530	1	345	205/206 AEP/OVEC	966	966 Base Case	0 -54.3 -	5.62	0	0.84%
238657 021	238657 02DBQ-14	238/11 02EYTP14	1	138	202 ATS1	2/3	332 Base Case	0 -15.3 -	5.62	0	0.00%
242575 050	242575 05CAMDLM	242781 05RUSTBR	1	138	205 AEP	195	220 Base Case	- 11 0	5.62	0	0.00%
243253 USE	243253 05BL0FFP	243362 USRANDOL	1	138	205 AEP	257	359 Base Case	0 -14.4 -	5.61	0	-0.16%
238976 021	238976 02N MED	239122 02STAR	1	345	202 ATSI	1413	1742 Base Case	0 -79 -	5.59	0	-2.13%
243301 050	243301 05GRANGE	243385 05TWIN B	1	138	205 AEP	296	361 Base Case	0 16.4 -	5.55	0	-0.06%
242510 05E	242510 05BAKER	242523 05BAKER	1	765/345	205 AEP	1587	1752 Base Case	0 -87.8 -	5.53	0	-0.35%
243875 059	243875 05SOFTSH	246918 05BONNYM	1	138	205 AEP	369	369 Base Case	0 20.4 -	5.53	0	-0.15%
238856 021	238856 02KH Q-3	238858 02KHTPQ3	1	138	202 ATSI	355	434 Base Case	0 -19.6 -	5.52	0	0.00%
239132 021	239132 02TALMDG	239170 02WESTGT	1	138	202 ATSI	278	287 Base Case	0 -15.3 -	5.51	0	-0.22%
242583 050	242583 05CATAWB	242694 05KIMBAL	1	138	205 AEP	205	205 Base Case	0 11.3 -	5.51	0	-0.20%
243044 051	243044 05MILLWO	247278 05MILL1Z	Ζ1	138	205 AEP	164	178 Base Case	0 -9 -	5.5	0	0.00%
242625 051	242625 05DINGES	242726 05MUDFRK	1	138	205 AEP	251	309 Base Case	0 13.8 -	5.49	0	0.10%
242932 050	242932 05CANTNC	242943 05SCANTO	1	345	205 AEP	1409	1409 Base Case	0 -77.1 -	5.47	0	0.95%
243497 051	243497 05DELANO	246980 05DELAN8	1	138	205 AEP	200	254 Base Case	0 10.9 -	5.46	0	0.00%
243288 05E	243288 05EGE	243326 05LAOTTO	1	138	205 AEP	251	335 Base Case	0 -13.7 -	5.45	0	-0.26%
243885 051	243885 05THORSS	247714 05BROAD RUN	1	138	205 AEP	257	360 Base Case	0 14 -	5.45	0	0.00%
243141 050	243141 05WARNER	245697 05TORREY2	1	138	205 AEP	205	284 Base Case	0 11.1 -	5.4	0	-0.48%
250093 08F	250093 08REDBK2	250103 08TBSC01	1	138	212 DE0&K	332	332 Base Case	0 17.9 -	5.39	0	0.06%
246754 051	246754 05FOWLER	246756 05FRCS-2	1	345	205 AEP	1001	1503 Base Case	0 -53.9 -	5.39	0	-0.03%
243278 051	243278 05DESOTO	243340 05MEDFOR	1	138	205 AEP	187	240 Base Case	0 10.1 -	5.39	0	-0.14%
243284 051	243284 05DUPONT	243366 05ROB PK12	1	138	205 AEP	219	255 Base Case	0 11.8 -	5.38	0	0.32%
243207 050	243207 05GRNTWN	255204 17REYNOLDS	1	765	205/217 AEP/NIPS	2669	2669 Base Case	0 -143.6 -	5.38	0	3.15%
243575 058	243575 05ST.CLR	243876 05ST.CXX	SR	138	205 AEP	191	229 Base Case	0 10.3 -	5.37	0	-0.03%
244230 055	244230 05SUNDAY SS	245420 OSTRIMBLE	1	138	205 AEP	158	183 Base Case	0 8.5 -	5.36	0	0.00%
245426 05E	245426 05BULLIT ST2	247846 05BULLIT ST1	Z1	138	205 AEP	586	683 Base Case	0 -31.4 -	5.35	0	0.00%
238607 020	238607 02CARLIL	238976 02N MED	1	345	202 ATSI	1560	1900 Base Case	0 83.4 -	5.35	0	2.40%
238783 02H	238783 02HARDIN	238821 02INLAND	1	345	202 ATSI	1555	1892 Base Case	0 83.1 -	5.34	0	0.63%
250011 081	250011 08DERPK1	250115 08TP7482	1	138	212 DE0&K	266	266 Base Case	0 14.2 -	5.33	0	0.00%
250002 080	250002 08COOPER	250115 08TP7482	1	138	212 DEO&K	266	266 Base Case	0 -14.2 -	5.33	0	0.00%
245491 05E	245491 05BABBIT3-4	246177 05ANGUIN1-2	2	138	205 AEP	996	996 Base Case	0 53.1 -	5.33	0	0.00%
245491 05E	245491 05BABBIT3-4	246177 05ANGUIN1-2	1	138	205 AEP	996	996 Base Case	0 53.1 -	5.33	0	0.00%
246407 050	246407 05CABIN CRK2	247792 05FIELDS CRK	1	138	205 AEP	729	729 Base Case	0 -38.8 -	5.32	0	0.12%
242941 050	242941 050HIOCT	243454 05BIXBY	1	345	205 AEP	1409	1868 Base Case	0 74.9 -	5.32	0	-0.79%
242609 050	242609 05CLYTR2	242610 05CLYTR3	Z1	138	205 AEP	287	337 Base Case	0 -15.3 -	5.32	0	-0.18%
239145 02F	239145 02REPVINE	239730 02REPARC	1	138	202 ATSI	160	192 Base Case	0 -8.5 -	5.31	0	0.00%
238838 02J	238838 02JIQ-11	238848 02JRD011	1	138	202 ATSI	265	316 Base Case	0 -14.1 -	5.3	0	0.10%
238509 021	238509 02FREY	238884 02LEMO K	1	138	202 ATSI	241	292 Base Case	0 12.8 -	5.3	0	0.00%
239108 025	239108 02SHNROK	239279 02CONCST	1	138	202 ATSI	220	268 Base Case	0 11.6 -	5.29	0	0.38%
243021 05H	243021 05HNG RK	243968 05IRONWOODSS	1	138	205 AEP	223	310 Base Case	0 -11.8 -	5.28	0	0.02%
238511 020	238511 02GMC-J	239269 02RICHLJ	1	138	202 ATSI	216	264 Base Case	0 -11.4 -	5.27	0	0.00%
242650 050	242650 05GLENL1	242666 05HAZELH	1	138	205 AEP	134	169 Base Case	0 -7.1 -	5.27	0	-0.13%
239045 021	239045 02PN Q-1	239047 02PN TP	1	138	202 ATSI	265	316 Base Case	0 13.9 -	5.26	0	0.00%
	-		1		1						

242671 051	242671	0.5HOPKIN	247242	05CHAPSS	1	138	205 AEP	389	559 Base Case	0 20	. 4 –	5.25	0	-0.10%
253006 095	253006	09BATH	253027	09GREENE	1	345	209 DAY	1255	1374 Base Case	0 -65	7 -	5 24	0	-1 32%
241926 027	241926	02ASTOR014	241930	02AV04	1	138	202 ATST	273	332 Base Case	0 -14	3 –	5 23	0	-0.23%
238773 020	238773	02000-13	238794	02400013	1	138	202 ATSI 202 ATSI	273	332 Base Case	0 -14	3 _	5.22	0	-0.08%
242924 051	242924	05HANG B	242929	05NPROCT	1	765	205 AEP	4142	4142 Base Case	0 213	8 -	5.16	0	5 94%
243205 050	243205	050008	242929	050008	1	765/345	205 AEP	1740	1868 Base Case	0 _89	8 _	5.16	0	-1 /18%
243203 030	243203	05COOK	243213	0 JCOOK	1	100/040	205 AEF	1/40	1000 Base Case	0 -85		5.10	0	-1.40%
250022 001	242001	09EDELD1	242794	0 QUAMUTRN	1	120	203 AEF	2.90	200 Base Case	0 15		5.15	0	0.03%
230032 081	230032	OF RELDI	250041	17DEVNOLDO	1	130	212 DEUGR	2.50	1410 Dasa Case	0 13		5.15	0	0.07%
243229 050	243229	050LIVE	255205	17REYNOLDS	2	345	205/21/AEP/NIPS	971	1419 Base Case	0 -	- 50	5.15	0	-0.62%
243229 050	243229	OSULIVE	255205	17REYNOLDS	1	345	205/21/AEP/NIPS	971	1414 Base Case	0 =	- 00	5.15	0	-0.62%
243305 05F	243305	USHACIEN	243306	USHARPER	1	138	205 AEP	219	255 Base Case	0 11	. 2 -	5.13	U	0.13%
243352 051	243352	05NTRDAM	243370	USS.BENDI	1	138	205 AEP	257	330 Base Case	0 13	- 1	5.09	0	0.43%
250122 080	250122	08WARRN1	250123	08WARRN2	Z1	138	212 DEO&K	275	275 Base Case	0	- 14	5.08	0	-0.06%
243206 051	243206	05DUMONT	243207	05GRNTWN	1	765	205 AEP	4558	5001 Base Case	0 -231	.5 -	5.08	0	-5.66%
246885 05N	246885	05MOORE HOLW	246915	05PRINCESS	1	138	205 AEP	296	413 Base Case	0	- 15	5.08	0	-0.05%
238684 02E	238684	02EASTLK	239358	02GLENWILLOW	1	345	202 ATSI	1542	1878 Base Case	0 -78	.2 -	5.07	0	0.86%
238818 021	238818	02ILQ-11	239118	02SSPQ11	1	138	202 ATSI	273	332 Base Case	0 13	.8 -	5.05	0	0.08%
238868 021	238868	02KPQ-13	238870	02KY Q-3	1	138	202 ATSI	347	423 Base Case	0 17	.4 -	5.02	0	0.00%
242957 05E	242957	05BASEL8	243080	05RILEYC	1	138	205 AEP	140	140 Base Case	0	-7 -	5.02	0	0.00%
250004 080	250004	08CRNEL1	250005	08CRNEL4	Z1	138	212 DEO&K	309	349 Base Case	0 15	.5 -	5.01	0	0.00%
238512 020	238512	02GMC-K	239070	02RICHLD	1	138	202 ATSI	216	229 Base Case	0 -10	.8 -	5	0	0.00%
243459 05F	243459	05KIRK	243855	05JUG ST	1	345	205 AEP	958	1123 Base Case	0 -47	.6 -	4.97	0	0.00%
243235 052	243235	0523RD	243395	05WESTINGHS	1	138	205 AEP	205	205 Base Case	0 10	.1 -	4.95	0	-0.05%
243857 050	243857	05COFFEE	246229	05REUSENS2	1	138	205 AEP	167	220 Base Case	0 8	.3 -	4.95	0	0.05%
242518 05E	242518	05broadf	242511	05BROADF	4	500/765	205 AEP	1710	1920 Base Case	0 84	.5 -	4.94	0	5.95%
239030 020	239030	020TTAWA	239140	02TOUSNT	1	138	202 ATSI	235	288 Base Case	0 -11	. 6 –	4.94	0	0.37%
243281 051	243281	05DRAGNZ	243385	05TWIN B	1	138	205 AEP	219	251 Base Case	0 10	. 8 –	4.94	0	0.18%
243338 05N	243338	05MCKINLEY3	244935	05MCKINLEY1	ΖT	138	205 AEP	348	407 Base Case	0 -17	.2 -	4.93	0	-0.12%
243512 051	243512	05DIAMONDISS	246370	05HUNTLEY2	1	138	205 AEP	191	229 Base Case	0 -9	.4 -	4.92	0	0.06%
243453 05E	243453	05BEATTY	243454	05BIXBY	1	345	205 AEP	1096	1203 Base Case	0 -53	.6 -	4.89	0	-2.11%
242675 05H	242675	05HUFFMN	242848	05WILLGP	1	138	205 AEP	296	398 Base Case	0 14	.5 -	4.89	0	0.00%
238867 021	238867	02KPQ-12	238869	02KY Q-1	1	138	202 ATSI	355	434 Base Case	0 17	.3 -	4.88	0	0.00%
243141 050	243141	05WARNER	245201	05RTI	1	138	205 AEP	195	220 Base Case	0 9	.5 -	4.87	0	0.00%
243308 05H	243308	05HICKRY CK1	243350	05NICKER	1	138	205 AEP	164	180 Base Case	0	8 –	4.86	0	0.09%
238959 021	238959	02MFLD04	239017	02NT 016	1	138	202 ATSI	265	316 Base Case	0 12	.8 -	4.83	0	0.03%
243381 055	243381	05SUMMIT	245511	05INDUST PK2	1	138	205 AEP	251	335 Base Case	0 -12	.1 -	4.83	0	0.04%
249577 082	249577	08ZIMER	249581	08MELDAL	1	345	212 DE0&K	1509	1509 Base Case	0 -72	.6 -	4.81	0	-0.78%
250045 08H	250045	08HEBRN1	250151	08HEBTAP	Z1	138	212 DEO&K	309	349 Base Case	0 -14	.9 -	4.81	0	0.00%
250020 08E	250020	08ESTWD1	250021	08ESTWD2	Z1	138	212 DEO&K	406	454 Base Case	0 19	.5 -	4.81	0	0.10%
238631 020	238631	02CNTRAT	238748	02GARDEN	1	138	202 ATST	157	196 Base Case	0 7	.5 -	4.8	0	-0.03%
250016 085	250016	08EBNZR	250061	08MDWAY2	1	138	212 DEO&K	2.66	266 Base Case	0 12	.8 –	4.8	0	0,21%
238839 02.	238839	02JIO-14	238849	02JRD014	1	138	202 ATST	2.65	316 Base Case	0 12	.7 -	4.79	0	-0,17%
243342 05N	243342	05MILAN	247167	05MICHN2	1	138	205 AEP	167	245 Base Case	0	8 –	4.79	0	0,00%
243342 05N	243342	05MTLAN	247166	05MTCHN1	1	138	205 AEP	167	245 Base Case	0	8 -	4 79	0	0.00%
242546 05F	242546	05BATLS1	242547	05BATLS2	71	138	205 AEP	335	392 Base Case	0 -	16 -	4.78	0	-0.04%
242915 054	242040	05STANUTITE2	242547	05MORCEK	1	138	205 AEP	223	310 Base Case	0 -10	7 -	4.78	0	0.04%
243390 055	243300	05WAVNED	243030	05MCKINIEV1	1	100	205 AED	223	251 Base Case	0 -10	12 -	1.70	0	0.11/0
243464 057	212121	0530349	244933	05GEAMAN	1	120	205 AEF	201	A13 Baco Cocc	0 14	1 .	4.70	0	-0 1/10/
250084 007	243464	0 SADAMS	243371	035EAMAN	71	120	2UJ AEP 212 DEOCH	290	394 Baco Coco	0 10	8 .	4./8	0	-0.14%
242005 05	210004	05HARCUD	230000	05CDDWV	41	100	205 JED	394	205 Pase Case	0 -18		4.//	0	-0.06%
242003 031	242805	OFFERINGE COT	242806	OSPENNER CRC		138	205 AEP	205	200 Base Case	0 9		4.//	U	0.00%
2436/1 USE	2436/1	01KDENDI	244688	OBEAVER CRZ	4P 1	138	203 AEP	348	369 Base Case	0 10	- 0.	4./6	U	-0.21%
235205 UIP	235205	UIKKENDL	239099	UZSENECA	1	138	2UI/2U2 AP/ATSI	267	JOZ Base Case	0 12	. / -	4./5	U	-0.51%
242539 U57	242539	USANGLER	242655	USGRASFK	1	138	2U5 AEP	158	183 Base Case	0 7	. ɔ _	4./5	0	0.00%
243001 05E	243001	UDEZANEV	243074	USPHILO1	1	138	205 AEP	187	240 Base Case	0 -8	.9 -	4.74	U	-0.21%
243229 050	243229	UDULIVE	2/4804	UNIV PK N;RP	1	345	205/222 AEP/CE	971	9/1 Base Case	0 45	.9 -	4.73	U	-4./1%
242809 055	242809	U5SPRIG1	246316	USSTONE	1	138	205 AEP	262	332 Base Case	0 12	.4 -	4.73	0	-0.20%

243240 05F	243240 05ROCKP WRK2	243785 05AKSTL	1	138	205	AEP	388	388 Base Case	0 18.3	-	4.73	0	0.00%	
243239 05F	243239 05ROCKP WRK1	243785 05AKSTL	1	138	205	AEP	388	388 Base Case	0 18.3	-	4.73	0	0.00%	
239098 025	239098 02SBBN04	239115 02SP 0-4	1	1.38	202	ATST	148	151 Base Case	0 -7	_	4.71	0	0.19%	
242574 050	242574 05CABIN CBK1	242596 05CHESTB	1	138	205	AEP	729	729 Base Case	0 -34 3	_	4 71	0	0.09%	
243272 050	243272 05DALEVT	243340 05MEDEOR	1	138	205	AEP	187	233 Base Case	0 8 7	_	4 68	0	0.14%	
241901 021	241901 021ALLENDORE	241949 AB1-107 POT	1	345	202	ATST	9999	9999 Base Case	0 -465 9	_	4 66	0	-0.29%	
246912 05N	246912 05N MKT8	247035 05NMARSS	1	138	205	AFP	195	220 Base Case	0 -9 1	_	4 65	0	0.00%	
238839 02.	238839 02.TTO-14	238860 02KTO-14	1	138	203	ATST	273	332 Base Case	0 -12 7	_	4 65	0	-0.17%	
240000 020	230033 02010 14	250000 02RTg T4	1	120	202	DEOLA	273	201 Base Case	0 14		4.05	0	-0.10%	
249990 000	2499990 08BROWN	230021 08ESIWD2	1	120	212	DECAR	301	222 Dase Case	0 12 6	_	4.04	0	-0.10%	
230774 020	238774 02GIQ-14	238793 02HDGQ14	1	130	202	AISI	273	332 Base Case	0 -12.6	-	4.63	0	-0.11%	
238774 020	238774 02G1Q-14	238791 02HCQ-14		138	202	AISI	273	332 Base Case	0 12.6	-	4.63	0	-0.11%	
242661 USP	242661 USHALES1	242662 USHALES2	21	138	205	AEP	335	392 Base Case	0 15.5	-	4.62	0	0.10%	
270139 AA2	270139 AA2-116 TAP2	270140 AA2-116 POI	1	345	205	AEP	9999	9999 Base Case	0 -459.7	-	4.6	0	-1.36%	
244423 053	244423 05JAMES RIVR	244446 USSOAPSTONE	1	138	205	AEP	167	167 Base Case	0 7.7	-	4.58	0	0.52%	
238623 020	238623 02CLARK	239278 02BRDVIE	1	138	202	ATSI	278	339 Base Case	0 -12.7	-	4.58	0	-0.08%	
243252 05E	243252 05BIXLRT	243321 05KENDAL	1	138	205	AEP	251	335 Base Case	0 -11.5	-	4.58	0	0.19%	
244935 05N	244935 05MCKINLEY1	244936 05MCKINLEY2	ZC	138	205	AEP	695	695 Base Case	0 -31.8	-	4.58	0	0.10%	
238544 027	238544 02ASH_3	239182 02ZNQ-16	1	138	202	ATSI	275	333 Base Case	0 12.5	-	4.55	0	0.00%	
238542 02#	238542 02ASH_1	238543 02ASH_2	ZB	138	202	ATSI	999	999 Base Case	0 -45.4	-	4.55	0	-0.17%	
238864 021	238864 02KNOX	239372 02HAGAN	1	138	202	ATSI	278	339 Base Case	0 -12.6	-	4.53	0	-0.16%	
243574 058	243574 05SUNBURY SS	243583 05TRENT	1	138	205	AEP	285	361 Base Case	0 -12.8	-	4.49	0	-0.11%	
253046 09N	253046 09MIAMI	253106 09NCARLI	1	138	209	DAY	301	374 Base Case	0 13.5	-	4.48	0	0.10%	
242792 055	242792 05SCOTSV	314746 4BREMO	1	138	205/345	AEP/DVP	167	167 Base Case	0 -7.5	-	4.48	0	-0.52%	
242656 050	242656 05GRASSH	242774 05ROANO2	1	138	205	AEP	240	251 Base Case	0 10.7	-	4.47	0	0.12%	
238523 020	238523 02CHRYTE	240988 02SHELBY_FS+	1	138	202	ATSI	278	343 Base Case	0 12.4	-	4.46	0	0.12%	
238685 02E	238685 02EASTLK	241921 02ELQ1	1	138	202	ATSI	999	999 Base Case	0 44.6	-	4.46	0	0.06%	
243509 05E	243509 05FISHRD	243582 05TRABUE	1	138	205	AEP	223	223 Base Case	0 9.9	-	4.46	0	0.02%	
242845 050	242845 05WELCH	242854 05W.WELCH SS	1	138	205	AEP	251	251 Base Case	0 -11.2	-	4.45	0	0.00%	
243571 055	243571 05SEAMAN	247035 05NMARSS	1	138	205	AEP	223	223 Base Case	0 9.9	-	4.44	0	-0.12%	
242521 05N	242521 05NAGEL	242532 05NAGEL	5	500/230	205	AEP	930	930 Base Case	0 41	-	4.41	0	0.25%	
242827 051	242827 05TAZEWE	247029 05HORSPN	1	138	205	AEP	334	334 Base Case	0 -14.7	-	4.41	0	-0.08%	
242566 05E	242566 05BROADF	242788 05SALTV1	2	138	205	AEP	219	251 Base Case	0 -9.7	-	4.41	0	0.18%	
238790 02F	238790 02HCO-13	239119 02SSP013	1	138	202	ATSI	273	332 Base Case	0 12	-	4.4	0	0.08%	
239181 022	239181 02ZNO-15	239349 02MILCHM	1	138	202	ATSI	273	332 Base Case	0 -12	-	4.39	0	0.00%	
253352 AB1	253352 AB1-169 MAIN	253354 AB1-169 2	1	345	209	DAY	9999	9999 Base Case	0 -438.3	-	4.38	0	-0.27%	
253352 AB1	253352 AB1-169 MATN	253353 AB1-169 1	1	345	209	DAY	9999	9999 Base Case	0 -438.3	_	4.38	0	-0.27%	
242835 051	242835 05TRISTA	246919 05CHADWICK2	2	138	205	AEP	219	255 Base Case	0 9.6	_	4 38	0	-0.03%	
242660 055	242660 05H BTDG	242743 05PARKHT	1	138	205	AEP	146	167 Base Case	0 -6.4	_	4 36	0	0.08%	
243341 05N	243341 05MTER	249800 08MTEB	71	138	205/208	AEP/DET	167	167 Base Case	0 -7 3	_	4 35	0	0.00%	
238710 025	238710 02EY0-14	238775 02680-14	1	138	200,200	ATST	339	405 Base Case	0 14 7	_	4 35	0	0.22%	
242609 050	242609 05CI VTP2	247870 05CLAVTR HY2	2	138	202	AFD	120	151 Base Case	0 -5.2		4.35	0	-0.01%	
239145 025	239145 02REPUTNE	239739 020R0MWELT	1	138	200	ATST	223	282 Base Case	0 _10 1	-	4.3J	0	0.01%	
250007 080	250007 080DCNIE1	250014 08DNI SN1	1	120	202	DEOLA	255	266 Base Case	0 _11 5	_	4.33	0	0.00%	
242210 050	242210 05001 TTURN	247712 050111 TVAN	2	130	212	AED	200	200 Dase Case	0 110 5	_	4.33	0	-2 520/	
239609 036	239609 02CADITI	230270 02CONCET	1	100/345	205	ADE	2/42	2003 Base Case	0 0 0 0	_	4.32	0	-3.32%	
238608 020	238608 UZCARLIL	239279 02CONCS1	1	138	202	AISI	220	200 Base Case	0 =9.3	-	4.32	0	0.36%	
243299 051	243299 USHIDRAMATIC	243345 USMOUKPK		138	205	ALP	201	201 Base Case	0 10.8	_	4.31	0	-0.01%	
2385/5 U2E	2385/5 U2BLUBEL	239042 U2PIDGON	1	138	202	ATSI	177	233 Base Case	0 7.6	-	4.3	0	0.19%	
242987 051	242987 05DEXTER	244439 05MEIGS SW2Z	21	138	205	AEP	158	183 Base Case	0 6.8	-	4.29	0	0.00%	
243218 051	243218 USDESOTO	243225 U5KEYSTN		345	205	AEP	897	89/ Base Case	0 -38.4	-	4.29	0	0.59%	
242682 053	242682 U5JIM BRANCH	247151 05YUKON	1	138	205	AEP	296	413 Base Case	0 -12.6	-	4.25	0	0.14%	
243781 05N	243781 05MITCHL FGD	246108 05KAMMER24	Z1	138	205	AEP	747	747 Base Case	0 -31.7	-	4.25	0	0.00%	
243781 05N	243781 05MITCHL FGD	246108 05KAMMER24	Z2	138	205	AEP	747	747 Base Case	0 -31.7	-	4.25	0	0.00%	
242578 050	242578 05CARB Z	242836 05TURNE1	1	138	205	AEP	498	498 Base Case	0 -21.1	-	4.24	0	0.03%	
243298 050	243298 05GM-FTW	244489 05FOGWELL	2	138	205	AEP	226	226 Base Case	0 -9.6	-	4.24	0	0.00%	
243011 058	243011 05FULTON	243148 05WINDFL	1	138	205	AEP	191	250 Base Case	0 8.1	-	4.23	0	-0.24%	
	242042 0EMTTTDD DZ1	245948 05MTTTED DK2	71	138	205	AEP	219	255 Base Case	0 -9 3	-	4 23	0	0 18%	
243268 050	243268 05COVNT	247132 05ELLISN	1	138	205	AEP	205	284 Base Case	0	-8.6	-	4.22	0	0.00%
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242926 05N	242926 05MALIS	246751 05VASSEL	1	765	205	AEP	4142	4142 Base Case	0	173.4	-	4.19	0	10.74%
238543 027	238543 02ASH 2	239096 02SBRNQ2	1	138	202	ATSI	148	151 Base Case	0	6.2	-	4.18	0	-0.18%
239096 025	239096 02SBRN02	239212 02AUST02	1	138	202	ATSI	148	151 Base Case	0	6.2	-	4.17	0	-0.18%
238686 02E	238686 02ECTY F	238695 02ELW+	1	138	202	ATSI	160	192 Base Case	0	-6.7	-	4.16	0	0.00%
243497 051	243497 05DELANO	243530 05KENWO2	1	138	205	AEP	200	254 Base Case	0	8.3	-	4.14	0	0.00%
243570 050	243570 05CLAYBN	247021 05KENW01	1	138	205	AEP	200	254 Base Case	0	8.3	-	4.14	0	0.00%
242807 055	242807 05SPORN	246237 05THIVENER2Z	1	138	205	AEP	167	167 Base Case	0	6.9	-	4.12	0	-0.04%
243058 051	243058 05NEWARK CTR	244871 05RIDGELY	1	138	205	AEP	292	328 Base Case	0	12	-	4.11	0	-0.18%
242961 05E	242961 05BIGGRC	246945 05BIGR1Z	Z1	138	205	AEP	205	205 Base Case	0	-8.4	-	4.11	0	0.00%
243018 05H	243018 05HEATH	245964 05N.NEWARK2	1	138	205	AEP	167	167 Base Case	0	6.8	-	4.1	0	0.16%
242587 050	242587 05CELAN	242749 05PETERM	1	138	205	AEP	205	284 Base Case	0	-8.4	-	4.1	0	0.20%
243040 05N	243040 05MERCERVL Z	246237 05THIVENER2Z	1	138	205	AEP	167	167 Base Case	0	-6.8	-	4.1	0	-0.04%
249582 080	249582 08GARVER	249583 08NTEGEN	1	345	212	DEO&K	9999	9999 Base Case	0	-408.9	-	4.09	0	-0.26%
243478 05E	243478 05BRKSHR	243915 05BERRYWOOD	1	138	205	AEP	338	456 Base Case	0	-13.8	-	4.09	0	0.11%
242811 055	242811 05SPRING	242851 05WOLFH2	1	138	205	AEP	167	240 Base Case	0	6.8	-	4.08	0	-0.33%
243380 055	243380 05STDBKR	247828 050LIVERPLOW	1	138	205	AEP	282	337 Base Case	0	11.5	-	4.08	0	-0.13%
253029 090	253029 09GRNVIL	253089 09WMILTN	1	138	209	DAY	165	165 Base Case	0	-6.7	-	4.07	0	0.00%
243155 050	243155 05W.NEWTONSS	245856 05W.NEWTON8	Z1	138	205	AEP	97	97 Base Case	0	3.9	-	4.06	0	0.00%
270138 AA2	270138 AA2-116_TAP1	270140 AA2-116_POI	1	345	205	AEP	9999	9999 Base Case	0	-405.6	-	4.06	0	0.82%
242794 055	242794 05SHACKM	247149 05WHITWD	1	138	205	AEP	296	398 Base Case	0	-12	-	4.04	0	-0.05%
243395 050	243395 05WESTINGHS	246318 05FUSON	1	138	205	AEP	205	205 Base Case	0	8.2	-	4.02	0	-0.05%
250142 080	250142 08WARDSC	250157 08CORNTP	1	138	212	DEO&K	249	249 Base Case	0	10	-	4.02	0	0.00%
240283 021	240283 02LKSHQ3	240284 02LKSHQ4	1	138	202	ATSI	999	999 Base Case	0	-40	-	4.01	0	-0.18%
250068 081	250068 08MPLKL1	250069 08MPLKL2	Z1	138	212	DEO&K	406	454 Base Case	0	16.3	-	4	0	0.04%
242518 05E	242518 05BROADF	360106 8SULLIVAN TN	1	500	205/347	AEP/TVA	2119	2119 Base Case	0	-84.6	-	3.99	0	5.95%
243676 05E	243676 05BELLF2	243699 050XYGEN	1	138	205	AEP	251	335 Base Case	0	10	-	3.98	0	0.00%
243273 051	243273 05DARDEN	243370 05S.BEND1	1	138	205	AEP	158	167 Base Case	0	6.2	-	3.92	0	0.47%
243322 05P	243322 05KENZIE	244510 05BLOSSOM TR	1	138	205	AEP	136	167 Base Case	0	5.3	-	3.91	0	-0.01%
238960 021	238960 02MIDW K	238962 02MIDWAY	ZB	138	202	ATSI	579	743 Base Case	0	-22.5	-	3.89	0	0.08%
243016 05H	243016 05HANTHR	243108 05STRLN1	1	138	205	AEP	185	185 Base Case	0	7.2	-	3.88	0	-0.14%
238855 021	238855 02KH Q-1	238857 02KHTPQ1	1	138	202	ATSI	355	434 Base Case	0	-13.7	-	3.87	0	0.00%
238558 O2E	238558 02B+W AK	238581 02BRBRTN	1	138	202	ATSI	66	66 Base Case	0	-2.5	-	3.86	0	0.00%
242585 050	242585 05CAVE SPR1Z	242663 05HANCK1	1	138	205	AEP	187	205 Base Case	0	7.2	-	3.85	0	-0.09%
239070 02F	239070 02RICHLD	243029 05LCKWRD	1	138	202/205	ATSI/AEP	216	223 Base Case	0	8.3	-	3.83	0	-1.04%
243137 050	243137 05W.END FOS1	245422 05W.END FOS2	Z1	138	205	AEP	335	392 Base Case	0	-12.8	-	3.82	0	-0.11%
253025 090	253025 09GIVENS	253044 09MECHAN	1	138	209	DAY	221	272 Base Case	0	-8.4	-	3.82	0	-0.14%
243298 050	243298 05GM-FTW	244489 05FOGWELL	3	138	205	AEP	226	226 Base Case	0	-8.6	-	3.82	0	0.00%
242627 05E	242627 05E.LYNC	242737 050POSSUMCK	1	138	205	AEP	388	510 Base Case	0	14.8	-	3.81	0	0.08%
243495 051	243495 05DAVIDS	247873 05BRITTON	2	138	205	AEP	296	398 Base Case	0	11.2	-	3.78	0	0.00%
243381 055	243381 05SUMMIT	243389 05WALLEN	1	138	205	AEP	251	335 Base Case	0	-9.5	-	3.78	0	-0.04%
242549 05E	242549 05BANSTR	314668 4BANISTR	Ζ1	138	205/345	AEP/DVP	219	255 Base Case	0	8.3	-	3.78	0	0.00%
243332 051	243332 05LIQCAR	244143 05KUCHAR	1	138	205	AEP	251	335 Base Case	0	-9.5	-	3.77	0	0.00%
242581 050	242581 05CARSWE	242582 05CARWLZ	1	138	205	AEP	167	167 Base Case	0	-6.3	-	3.76	0	0.00%
243025 053	243025 05JUNCTN	246021 05W.LANCAST2	1	138	205	AEP	167	167 Base Case	0	6.3	-	3.76	0	-0.15%
238529 027	238529 02AIRPK+	238623 02CLARK	1	138	202	ATSI	233	282 Base Case	0	-8.7	-	3.74	0	0.12%
243116 055	243116 05SUGARC	243135 05W DOVE	1	138	205	AEP	251	251 Base Case	0	-9.3	-	3.72	0	0.00%
239165 020	239165 02WAUSEO	239347 02LEAR	1	138	202	ATSI	278	343 Base Case	0	10.3	-	3.71	0	0.16%
243048 051	243048 05N WALD	244566 05LA RUE	1	138	205	AEP	158	180 Base Case	0	-5.8	-	3.7	0	0.24%
244198 051	244198 05LEMASTER	247097 05LEMASTERT1	Z1	138	205	AEP	158	183 Base Case	0	5.8	-	3.69	0	0.00%
243138 050	243138 05W.LIBERTYZ	246376 05W.LIBERTY	Ζ1	138	205	AEP	97	97 Base Case	0	3.6	-	3.69	0	0.00%
243330 051	243330 05LINCOLN1	245832 05LINCOLN2	Z1	138	205	AEP	335	392 Base Case	0	12.4	-	3.69	0	-0.08%
242566 05E	242566 05BROADF	242789 05SALTV2	1	138	205	AEP	219	251 Base Case	0	-8	-	3.67	0	0.15%
243318 053	243318 05JACKSON RD	247147 05JACKSR T4	Z1	138	205	AEP	164	205 Base Case	0	6	-	3.65	0	0.00%
238752 020	238752 02GF Q-1	238753 02GFQ-11	1	138	202	ATSI	278	287 Base Case	0	-10.1	-	3.65	0	0.00%
238752 020	238752 02GF Q-1	238755 02GFQ-2	ZB	138	202	ATSI	278	287 Base Case	0	10.1	-	3.65	0	0.00%

239730 021	239730 028EPARC	239739	02CROMWELL		1 138	202 ATST	233	282 Base Case	0	-8.5	-	3.64	0	0.00%
243558 055	243558 05BTO	243561	05BODNEY SS		1 138	205 AEP	150	212 Base Case	0	5 5	-	3 64	0	0.02%
220000 001	229022 021 mE012	220001	03ROBNET 55		1 120	203 1101	100	522 Base Case	0	15 /	_	2 62		0.02%
240628 051	230322 0281EQ12	235225	02311DCO		1 100	202 AIDI	150	167 Dase Case	0	10.1		3.03		0.02/0
242638 055	242638 USFIELDALEI	242797	OSSHEFLD		1 138	205 AEP	158	167 Base Case	0	-5./	-	3.63		0.05%
239312 020	239312 U2NS-YORK	240842	UZNEE	_	1 138	ZUZ ATSI	278	343 Base Case	0	-10	-	3.61		-0.16%
242677 051	242677 05INDDRV	245220	05W.KINGSPT2	_	1 138	205 AEP	251	335 Base Case	0	-9	-	3.6	0	0.02%
238713 021	238713 02FB Q-1	239049	02PV Q1		1 138	202 ATSI	267	332 Base Case	0	-9.6	-	3.6	0	-0.26%
253011 090	253011 09CARGIL	253053	09NEEDMO		1 138	209 DAY	196	241 Base Case	0	7	-	3.6	0	0.10%
243878 05N	243878 05MEADOW	246974	05MLCS-1	Ζ1	345	205 AEP	1286	1747 Base Case	0	-46.2	-	3.59	0	-0.03%
242659 050	242659 05GRNGST	243669	05B SAND		1 138	205 AEP	397	397 Base Case	0	-14.2	-	3.58	0	0.04%
238608 020	238608 02CARLIL	238749	02GATES		1 138	202 ATSI	233	282 Base Case	0	8.3	-	3.58	0	-0.06%
243292 05E	243292 05FALL C	249810	08NEWCAS		1 138	205/208 AEP/DEI	250	250 Base Case	0	-8.9	-	3.55	0	0.06%
239092 025	239092 02SAMMIS	239368	02TORONTO		1 345	202 ATSI	2504	2883 Base Case	0	88.7	-	3.54	0	2.49%
250063 081	250063 08MHLTY1	250064	08MHLTY2	Z1	138	212 DE0&K	406	454 Base Case	0	-14.3	-	3.53	0	-0.04%
238713 02E	238713 02FB Q-1	238739	02FWLSQ1		1 138	202 ATSI	273	332 Base Case	0	9.6	-	3.52	0	-0.26%
243325 051	243325 05LANTRN	246318	05FUSON		1 138	205 AEP	205	205 Base Case	0	7.2	-	3.51	0	0.05%
243048 051	243048 05N WALD	243148	05WINDFL		1 138	205 AEP	164	180 Base Case	0	-5.7	-	3.5	0	-0.24%
245977 050	245977 05GRISTMILL	253069	09SHELBY		1 345	205/209 AEP/DAY	1255	1374 Base Case	0	43.9	-	3.5	0	-0.19%
245264 05t	245264 05UTICA CAD	247461	05FREEBYRD	Z3	138	205 AEP	293	341 Base Case	0	-10.3	-	3.5	0	0.00%
245264 05t	245264 05UTICA CAD	247461	05FREEBYRD	Z1	138	205 AEP	293	341 Base Case	0	-10.3	-	3.5	0	0.00%
242510 05E	242510 05BAKER	242523	05BAKER		3 765/345	205 AEP	2512	2788 Base Case	0	-87.8	-	3.49	0	-0.35%
243298 050	243298 05GM-FTW	244489	05FOGWELL		1 138	205 AEP	226	226 Base Case	0	-7.8	-	3.47	0	0.00%
242915 055	242915 05STANVILLE2	244008	0.5STANVILLE1	71	138	205 AEP	548	601 Base Case	0	-19	-	3.46	0	-0.08%
238858 028	238858 02KHTPO3	238863	02KL 0-3		1 138	202 ATST	273	332 Base Case	0	9.4	-	3 46	0	0.00%
242997 055	242997 05E NEWCONCZ	245251	05E NEWCONC	71	138	205 AEP	150	212 Base Case	0	5.2	-	3.45		0.00%
240214 021	240214 02 PENNANTTAP	240216	02 DENNANT		1 138	202 ATST	160	192 Base Case	0	5.5	_	3.40		0.00%
243037 05N	243037 05METCS SS	240210	05METCS 8	71	1 130	205 AFP	100	95 Base Case	0	3.3	_	3 /3	0	0.00%
242224 051	243037 05HEIGS 55	244431	OSHEIGS C	71	120	205 AEI	251	225 Base Case	0	_0 6	_	2 41		0.00%
243324 031	243324 03LAFA10	244103	OGLAFAI C 55	21	1 120	20J AEF	2J1 E1C	500 Dase Case	0	-0.0	-	3.41	0	0.00%
230103 081	230103 081DHNTR	230162	OF DALLER		1 130	212 DEO&K	516	562 Base Case	0	17.5	-	3.4		0.15%
243495 051	243495 USDAVIDS	246603	05DAVID TITZ	ZZ	138	205 AEP	670	747 Base Case	0	22.6	-	3.38		0.00%
250038 080	250038 U8GOLFMR	250118	08TRMNL2		1 138	212 DEO&K	299	299 Base Case	0	-10.1	-	3.3/	0	0.09%
238719 021	238719 02FMCQ12	238725	02FMQ12H		1 138	202 ATSI	176	216 Base Case	0	5.9	-	3.36	0	0.00%
243253 05E	243253 05BLUFFP	247536	05BLUFF P WF		1 138	205 AEP	572	572 Base Case	0	-19.2	-	3.35	0	-0.01%
243471 05E	243471 05BETHEL	243495	05DAVIDS	_	1 138	205 AEP	335	366 Base Case	0	11.2	-	3.35	0	-0.02%
242935 05E	242935 05E LIMA	242936	05FOSTOR		1 345	205 AEP	1025	1318 Base Case	0	-34.1	-	3.33	0	-2.17%
243002 051	243002 05FAIRCR	243092	05SCANTO		1 138	205 AEP	291	291 Base Case	0	9.7	-	3.33	0	-0.28%
247372 05N	247372 05MUSKNG1C	247374	05MUSKNG2B	ZA	138	205 AEP	747	747 Base Case	0	-24.8	-	3.32	0	0.34%
242958 05E	242958 05BATTLE	246176	05TUNNEL R C	Ζ1	138	205 AEP	205	205 Base Case	0	6.8	-	3.32	0	0.00%
249991 08E	249991 08BUFTN1	250077	08MTZION		1 138	212 DEO&K	298	298 Base Case	0	9.9	-	3.32	0	-0.14%
243867 05F	243867 05FRCS34	246756	05FRCS-2		1 345	205 AEP	1001	1631 Base Case	0	33.2	-	3.31	0	-0.02%
243495 051	243495 05DAVIDS	246603	05DAVID T1T2	Ζ1	138	205 AEP	685	747 Base Case	0	22.6	-	3.3	0	0.00%
238699 02E	238699 02ENQ-12	238719	02FMCQ12		1 138	202 ATSI	273	332 Base Case	0	8.9	-	3.28	0	0.14%
243483 050	243483 05CRCLVS	243569	05SCIPPO		1 138	205 AEP	347	347 Base Case	0	-11.3	-	3.27	0	0.01%
243680 050	243680 05CEDARC	245913	05KEWANEE		1 138	205 AEP	296	378 Base Case	0	9.7	-	3.27	0	-0.26%
244024 055	244024 05SUMAC	245552	05MIMOSA	Ζ8	138	205 AEP	747	747 Base Case	0	24.4	-	3.26	0	0.00%
244024 055	244024 05SUMAC	245552	05MIMOSA	Z7	138	205 AEP	747	747 Base Case	0	24.4	-	3.26	0	0.00%
244024 055	244024 05SUMAC	245552	05MIMOSA	Ζ6	138	205 AEP	747	747 Base Case	0	24.4	-	3.26	0	0.00%
244024 055	244024 05SUMAC	245552	05MIMOSA	Z4	138	205 AEP	747	747 Base Case	0	24.4	-	3.26	0	0.00%
246383 05F	246383 05FOXGLOVE	246385	05JUGST 7-11	Z7	138	205 AEP	747	747 Base Case	0	-24.4	-	3.26	0	0.00%
246383 05E	246383 05FOXGLOVE	246385	05JUGST 7-11	ΖO	138	205 AEP	747	747 Base Case	0	-24.4	-	3.26	0	0.00%
246383 05E	246383 05FOXGLOVE	246385	05JUGST 7-11	Z6	138	205 AEP	747	747 Base Case	0	-24.4	-	3.26	0	0.00%
246383 05F	246383 05FOXGLOVE	246385	05JUGST 7-11	Z8	138	205 AEP	747	747 Base Case	0	-24.4	-	3.26	0	0.00%
246383 05F	246383 05FOXGLOVE	246385	05JUGST 7-11	Z9	138	205 AEP	747	747 Base Case	0	-24.4	-	3.26	0	0.00%
244024 055	244024 05SUMAC	245552	05MIMOSA	Z5	138	205 AEP	747	747 Base Case	0	24.4	-	3.26	0	0.00%
245952 051	245952 05DLAWAR1	245962	05DLAWAR3	Z1	138	205 AEP	670	747 Base Case	0	21.7	-	3.24	0	0.00%
243363 05F	243363 05REED	243384	05TRIER		1 138	205 AEP	219	251 Base Case	0	7	-	3.22	0	0.29%
-		-		1		1						1		

243330 051	243330 05LINCOLN1	243366	05ROB PK12		1 13	205 AEP	167	240 Base Case	0	-5.4	-	3.22	0	0.23%
243388 050	243388 05W SIDE	247828	050LIVERPLOW		1 13	205 AEP	282	392 Base Case	0	-9	-	3.21	0	-0.13%
250029 085	250029 08FOSTER	250137	080BANNV		1 13	212 DEO&K	291	291 Base Case	0	93	-	3.2	0	0.13%
242496 050	242496 05CONCRES 65	200107	05DECUSEA		1 12	205 350	142	143 Page Case	0	1.6	_	2 10	0	0.00%
243490 030	243490 0JCONGRES 33	244207	OSCIDEGUSSA		1 10	203 AEF	120	143 Base Case	0	4.0	_	3.19		0.00%
243243 USP	243243 03ANDC1	249700	USCADIZ	-	1 13	203/208 AEP/DEI	136	145 Base Case	0	4.3	-	3.10		0.00%
246325 051	246325 USNOTTINGH56	246327	U5NOTTINGH/8	Z6	13	205 AEP	/4/	/4/Base Case	0	23.7	-	3.18		0.26%
246325 05N	246325 05NOTTINGH56	246327	05NOTTINGH78	z5	13	205 AEP	747	747 Base Case	0	23.7	-	3.18	0	0.26%
245948 05N	245948 05MILLBR PK2	245949	05MLBRPK_ARG	ZE	13	205 AEP	240	296 Base Case	0	-7.6	-	3.17	0	-0.11%
242710 05N	242710 05MARROB	246923	05NEWSOM		1 13	205 AEP	195	220 Base Case	0	-6.1	-	3.13	0	0.00%
243233 051	243233 05TANNER	249565	08EBEND		1 34	5 205/212 AEP/DEO&K	1409	1409 Base Case	0	-43.9	-	3.11	0	-1.15%
242553 05E	242553 05BETH	242671	05HOPKIN		1 13	205 AEP	195	220 Base Case	0	-6	-	3.08	0	0.00%
243562 05F	243562 05ROSS	247148	05SBLMSS		1 13	205 AEP	296	361 Base Case	0	9.1	-	3.08	0	0.15%
246754 05E	246754 05FOWLER	246755	05FRCS-1		1 34	205 AEP	1001	1503 Base Case	0	-30.5	-	3.05	0	-0.02%
242624 051	242624 05DICKEN	242793	05SEXTON		1 13	205 AEP	158	183 Base Case	0	-4.8	-	3.03	0	0.00%
243206 051	243206 05DUMONT	243219	05DUMONT		3 765/345	205 AEP	1740	1868 Base Case	0	52.7	-	3.03	0	-1.11%
238835 023	238835 02JGSQ12	239225	02STYDCO	ZL	13	202 ATSI	425	522 Base Case	0	-12.8	-	3.02	0	0.02%
243512 051	243512 05DIAMONDISS	246827	05DIAMOND I		1 13	205 AEP	227	306 Base Case	0	6.8	-	3	0	0.00%
238775 020	238775 02GX0-14	238809	02HMLO14		1 13	202 ATSI	176	229 Base Case	0	-5.3	-	2.99	0	-0.22%
242979 050	242979 05CANNELV SS	243888	05CANNELV8	Z1	13	205 AEP	145	145 Base Case	0	4.3	-	2.96	0	0.00%
238954 02N	238954 02MCDOWL	239350	02CAMPBL		1 13	202 ATSI	278	339 Base Case	0	-8.2	-	2.96	0	-0.44%
250087 080	250087 080UNGT1	250124	08WENDEA		1 13	3 212 DEO&K	2.68	268 Base Case	0	-7.9	-	2.95	0	0.02%
242761 055	242761 05BAGLDZ	242810	05SPRIG2		1 13	205 AEP	167	167 Base Case	0	-4 9	-	2 95	0	0.12%
239077 025	239077 02PVEPBD	239166	02WCKLTE		1 13	202 755	207	223 Base Case	0	6.6	_	2.00	0	0.06%
243295 050	243295 05GARRETT N	246769	05MINERR		1 13	205 AEP	251	335 Base Case	0	7 4	-	2.94		-0.19%
243255 050	243255 050ARREIT N	240705	05CLAVEN		1 12	205 AET	201	449 Bage Case	0	0.5	_	2.04		-0.02%
243562 056	243502 05R055	243370	OSCIENT 2	771	1 13	205 AEF	205	269 Page Case	0	5.5		2.94		-0.02%
242630 030	242630 05GLENLI	242631	0 SGLENLZ	2 I	1 76	205 AEP	203	4571 Dage Case	0	110 5	-	2.93		-0.05%
242508 057	242308 USAMOS	242310	OSMOUNTN		1 /0	203 AEP	4047	4571 Base Case	0	110.0	-	2.93		5.75%
242705 051	242705 USLOGAN2	242/35	USNPOINT		1 13	205 AEP	389	559 Base Case	0	11.3	-	2.89		0.08%
239113 025	239113 02SP Q-2	239212	02AUSTQ2		1 13	3 202 ATSI	148	151 Base Case	0	4.3	-	2.88	0	0.18%
241928 027	241928 02AVQ2	241929	02AVQ3		1 13	202 ATSI	999	999 Base Case	0	-28.7	-	2.88	0	0.13%
239127 028	239127 02STRYKE	239351	02EASTFAYT		1 13	3 202 ATSI	216	262 Base Case	0	6.2	-	2.85	0	0.09%
245555 05N	245555 05MARKWEST	247156	05STEAMT	Ζ4	13	205 AEP	747	747 Base Case	0	-21.3	-	2.84	0	0.00%
245555 05N	245555 05MARKWEST	247156	05STEAMT	Z3	13	205 AEP	747	747 Base Case	0	-21.3	-	2.84	0	0.00%
245555 051	245555 05MARKWEST	247156	05STEAMT	Ζ1	13	205 AEP	747	747 Base Case	0	-21.3	-	2.84	0	0.00%
245555 05N	245555 05MARKWEST	247156	05STEAMT	Z2	13	205 AEP	747	747 Base Case	0	-21.3	-	2.84	0	0.00%
238941 021	238941 02MANSFD	240069	02LORDSTOWN		1 34	5 202 ATSI	1380	1646 Base Case	0	39	-	2.83	0	-0.15%
243574 055	243574 05SUNBURY SS	247291	05SUNBURY8	Ζ1	13	205 AEP	223	223 Base Case	0	6.3	-	2.83	0	0.00%
238830 021	238830 02IWQ-16	239210	02I0Q-16		1 13	202 ATSI	273	332 Base Case	0	7.7	-	2.82	0	-0.02%
250042 08H	250042 08HANDS1	250043	08HANDS2	Ζ1	13	212 DEO&K	406	454 Base Case	0	-11.4	-	2.81	0	0.15%
238771 020	238771 02GTQ-11	238792	02HDGQ11		1 13	202 ATSI	273	332 Base Case	0	-7.7	-	2.81	0	-0.08%
246913 05J	246913 05JONES	247116	05ALADDIN		1 13	205 AEP	205	284 Base Case	0	-5.7	-	2.8	0	0.11%
243287 05E	243287 05E.ELKHART	243351	05NORTHL		1 13	205 AEP	205	284 Base Case	0	5.7	-	2.78	0	-0.17%
242666 05H	242666 05HAZELH	242679	05INGSTR		1 13	205 AEP	251	325 Base Case	0	7	-	2.78	0	0.00%
238881 021	238881 02LTFQ16	239210	02I0Q-16		1 13	202 ATSI	273	332 Base Case	0	-7.5	-	2.75	0	-0.02%
238957 021	238957 02MFLDQ2	239020	02NW Q-2		1 13	202 ATSI	176	229 Base Case	0	-4.8	-	2.72	0	0.19%
250035 08F	250035 08FTRM11	250029	08FOSTER		1 13	212 DEO&K	9999	9999 Base Case	0	268.8	-	2.69	0	-0.11%
242519 050	242519 05CLOVRD	314912	8LEXNGTN		1 50	205/345 AEP/DVP	3610	3610 Base Case	0	-97	-	2.69	0	-9.61%
242808 055	242808 05SPORNS	246954	05YELLWB		2 1.3	205 AEP	257	257 Base Case	0	6.9	-	2.68	0	0.00%
246948 051	246948 05POLYSS	246954	05YELLWB		1 1.3	205 AEP	2.57	257 Base Case	0	-6.9	-	2.68	0	0.00%
243493 050	243493 05CRVERD	246633	0.5ZEIGLER8	71	13	205 AEP	200	200 Base Case	0	5 4	-	2.68	0	0.00%
238695 024	238695 02ET.W+	239958	02ELW OS2		1 12	202 2797	160	192 Base Case	0	4 2	-	2 68		0.00%
250107 081	250107 08TODM15	250105	08TDHNTR	+	1 12	212 DEOSK	100	9999 Base Case	0	266 7	-	2.00	0	-0.06%
243147 050	243147 05WILDCBK SS	244645	05WTLDCRK 8	71	13	205 AEP	185	257 Base Case	0	200.7	-	2.66		0.00%
242808 054	242808 05500000	246010	05POLVES		4 12	205 205	257	257 Base Case	0	 6 0	_	2.00		0.00%
243497 051	243497 05DELANO	243562	058055	-	2 13	205 AEP	207	449 Base Case	0	-8 5	_	2.00		-0.02%
250001 000	250001 08001 TNU	2501//	0841197700		1 10	212 DECCV	170	178 Baco Case	0	-0.0		2.02		0.02%
SJOUDT DOC	200001 00COTTINA	2JU144	UDRUDIKU		1 13	ZIZ DEV&R	1/8	I/O DASE CASE	U	4.0	-	2.30	U	0.41%

242642 05E	242642 05FRANKLIN	242643 05FRANK5	Z1	138	205	AEP	329	361 Base Case	0	-8.4	-	2.54	0	-0.16%
247700 051	247700 05YAGER	247702 05AZALEA	1	138	205	AEP	296	413 Base Case	0	7.5	-	2.54	0	0.00%
238850 023	238850 02JUNIPE	239358 02GLENWILLOW	1	345	202	ATSI	1370	1720 Base Case	0	-34.7	-	2.54	0	-1.91%
250108 081	250108 08TODM16	250105 08TDHNTB	1	1.38	212	DEO&K	9999	9999 Base Case	0	253.6	-	2.54	0	-0.06%
250109 081	250109 08TODM17	250105 08TDHNTR	1	138	212	DEO&K	9999	9999 Base Case	0	253.3	-	2.53	0	-0.06%
242809 058	242809 05SPBTG1	242810 05SPBTG2	71	1.38	205	AEP	296	296 Base Case	0	-7.3	-	2.48	0	-0.08%
248013 06	248013 06PTERCE	249564 08BUFTN1	1	345	206/212	OVEC/DEO&K	971	971 Base Case	0	2.4	-	2.47	0	-1.23%
242660 05	242660 05H.BTDG	244192 05BALLS GAP	1	1.38	205	AEP	167	167 Base Case	0	-4.1	-	2.46	0	-0.08%
243223 05.	243223 05 TACKSON RD	243234 05TWIN B	1	345	205	AEP	971	971 Base Case	0	-23.9	-	2 46	0	0.00%
242647 050	242647 05G BBAN	242751 05PTGEON	1	138	205	AEP	287	334 Base Case	0	-7	-	2 44	0	0.00%
242535 057	242535 05ALUMBG	242610 05CLYTR3	1	138	205	AEP	180	227 Base Case	0	-4 4	-	2 43	0	0.06%
238990 021	238990 02NB 018	240351 02TV-NB+18	- 7 T.	138	202	ATST	260	309 Base Case	0	-6.3	_	2 42	0	0.01%
238740 025	238740 02FWLS02	239050 02PV 02	1	138	202	ATST	103	132 Base Case	0	-2 5	_	2 41	0	-0 38%
238596 021	238596 021X0-1	238598 02CAD018	1	138	202	ATSI	273	332 Base Case	0	-6.6	-	2 41	0	0.00%
238716 025	238716 02FIRSTN	239144 02UBBAN	1	138	202	ATST	233	249 Base Case	0	5.6	_	2.4	0	-0.08%
243455 050	243455 05CONES	243458 0547577	1	345	202	AFD	1217	1245 Base Case	0	29.1	_	2.1	0	-0 74%
242569 056	242569 05BBUSHT	243945 05LYNBROOK	1	138	205	AEP	548	590 Base Case	0	13 1	-	2.39	0	-0.10%
238845 02.	238845 02.TONSON	239275 02FLDSTN	1	138	202	ATST	233	282 Base Case	0	5 5	_	2.38	0	0.05%
238508 025	238508 02EBEB	238897 02LTOATR	1	138	202	ATSI	278	343 Base Case	0	6.6	_	2.36	0	0.00%
243206 051	243206 05DUMONT	243219 05DUMONT	2	765/345	202	AEP	2250	2250 Base Case	0	53	-	2.36	0	-1 11%
240281 021	240281 021/5H01	240282 021.KSH02	1	138	202	ATST	999	999 Base Case	0	-23 5	_	2.35	0	0.02%
238720 021	238720 02EMC013	238741 02FWLS03	1	138	202	ATSI	267	332 Base Case	0	-6.3	_	2.35	0	0.02%
244198 051	244198 051 EMAGTED	247148 05981 MSS	1	138	202	AFD	207	361 Base Case	0	-6.9	_	2.33	0	0.15%
242995 055	242995 05EASTOW	243136 05W LIMA	1	138	205	AEP	205	255 Base Case	0	4 8	_	2.34	0	0.10%
238714 025	238714 02FB 0-3	238762 02GB 0-3	1	138	203	ATST	203	332 Base Case	0	-6.4	_	2.33	0	-0.26%
247700 051	247700 05YAGER	247703 05LEESVILLE	1	138	202	AFP	296	413 Base Case	0	6.9	_	2.33	0	0.20%
243037 05N	243037 05METGS SS	244439 05METGS SW2Z	1	138	205	AEP	140	140 Base Case	0	-3 3	_	2.33	0	0.00%
243357 055	243357 05PENDLETON1	246656 05PENDLETON2	- 71	138	205	AFP	219	255 Base Case	0	5	_	2.00	0	-0.25%
238979 021	238979 02NA PMIN	239127 02STRYKE	1	138	202	ATST	153	181 Base Case	0	-3 5	_	2.3	0	0.20%
243077 055	243077 05PROMWY	243142 05WAYVIE	1	138	202	AEP	251	335 Base Case	0	-5.7	-	2.3	0	-0.03%
245822 051	245822 05LTGONTER1	247433 05CHARGER	1	138	205	AEP	158	183 Base Case	0	-3.6	-	2 27	0	0.00%
242561 055	242561 05B00NSB0B0	242765 05BEUSENS1	1	138	205	AFP	167	240 Base Case	0	-3.8	_	2.26	0	0.09%
243296 050	243296 05GASTON	243343 05MISSIS	1	138	205	AEP	257	360 Base Case	0	-5.8	-	2.26	0	0.32%
253026 090	253026 09GBEENE	253083 09TREBET	1	138	200	DAY	301	373 Base Case	0	6.8	-	2.26	0	0.01%
239078 025	239078 028YAN	239100 02SEVILL	1	138	202	ATST	233	282 Base Case	0	-5.3	_	2.26	0	-0.07%
243057 051	243057 05NEW LTBB1	245905 05NEW LTBB2	71	138	205	AEP	187	240 Base Case	0	-4 2	-	2.26	0	0.27%
243294 055	243294 05FLWBED8 SS	246565 05FLWBFD8	21	138	205	AEP	195	220 Base Case	0	4 4	-	2.26	0	0.00%
238777 025	238777 02HAMTL+	238778 02HAMILT	1	138	202	ATST	195	195 Base Case	0	4 4	-	2.25	0	0.00%
242608 050	242608 05CLYTR1	242791 05SCHBIS	1	138	205	AEP	164	167 Base Case	0	-3 7	-	2.25	0	-0.23%
243036 05N	243036 05METG 2	244439 05METGS_SW2Z	1	138	205	AEP	158	183 Base Case	0	-3 5	-	2 23	0	0.00%
238698 025	238698 02ENO-11	238806 02HMT.011	1	1.38	2.02	ATSI	273	332 Base Case	0	6.1	-	2.22	0	0.28%
247008 050	247008 05CLARKB	247009 05KEYSTO	Z1	138	205	AEP	383	449 Base Case	0	8.5	-	2.22	0	0.00%
238530 027	238530 02ALLEN	238961 02MTDWAY	1	345	202	ATST	1364	1627 Base Case	0	-30.1	-	2.21	0	-1.19%
242587 050	242587 05CELAN	242731 05NBLACK	1	1.38	205	AEP	205	205 Base Case	0	-4.5	-	2.19	0	-0.20%
240282 021	240282 02LKSH02	240283 02LKSH03	1	138	202	ATSI	999	999 Base Case	0	-21.9	-	2.19	0	-0.19%
246779 058	246779 055.ABINGDN2	247819 055 ABINGDN1	71	1.38	205	AEP	747	747 Base Case	0	16.3	-	2.18	0	-0.33%
238665 021	238665 02DS 0-1	238666 02DS 0-3	ZB	138	202	ATSI	999	999 Base Case	0	21.6	-	2.16	0	0.04%
243792 051	243792 05LOSANTVILL	243793 05HEADWTR CS	1	345	205	AEP	961	961 Base Case	0	-20.7	-	2.16	0	-0.01%
242540 057	242540 05APPLE1	242541 05APPLE2	Z1	138	205	AEP	219	255 Base Case	0	4.7	-	2.15	0	0.04%
243322 058	243322 05KENZIE	243376 05SODUS	1	138	205	AEP	296	361 Base Case	0	6.3	-	2.12	0	-0.09%
238742 021	238742 02FWLS04	238763 02GR 0-4	1	138	2.02	ATSI	148	151 Base Case	0	3.1	-	2.12	0	0.35%
246060 056	246060 05HICKRY CK2	246994 05RICKMN	1	138	205	AEP	187	202 Base Case	0	4	-	2.11	0	-0.36%
243077 051	243077 05PROMWY	243134 05W.CANTON1	1	138	205	AEP	219	255 Base Case	0	-4.5	-	2.07	0	0.03%
238596 021	238596 02IXQ-1	240249 02CHIAQ-1	1	138	202	ATSI	273	332 Base Case	0	5.6	-	2.05	0	0.00%
239053 021	239053 02PVMQ15	239331 02NASHRING	1	138	202	ATSI	273	332 Base Case	0	5.6	-	2.04	0	-0.10%
246974 05N	246974 05MLCS-1	246977 05MLCS45	1	345	205	AEP	1286	1800 Base Case	0	-25.5	-	1.99	0	-0.02%

243478 05F	243478 05BRKSHR	243574	05SUNBURY SS		1 1.38	205 AEP	329	361	Base Case	0	-6.5	-	1.98	0	-0.11%
242541 057	242541 05APPLE2	243040	05MERCERVI, Z		1 138	205 AEP	167	167	Base Case	0	-3 3	_	1 97	0	-0.04%
243313 055	243313 05HUNT J	243377	05SORENS		1 138	205 AEP	257	314	Base Case	0	-5	_	1 96	0	-0.42%
243081 051	243081 05PTSCSN	243371	05SOFTATI SS		1 138	205 AFP	145	145	Base Case	0	-2.8	_	1.96	0	0.42%
243001 051	242072 05010505050	244041	0550FIAID 55		1 120	205 AED	150	212	Dase Case	0	-2.0	_	1.90	0	0.00%
242975 035	242973 03B0CKH6	247233	OUDDANA		1 130	200 PAV	201	212	Dase Case	0	-2.9		1.90	0	0.00%
253025 090	253025 09GIVENS	253085	090RBANA		1 138	209 DAY	201	220	Base Case	0	3.9	-	1.95	0	-0.14%
243465 054	243465 05ADDISO	243561	USRODNEY SS	_	1 138	205 AEP	145	145	Base Case	0	-2.8	-	1.94	0	0.02%
242649 050	242649 05GARRSN	242689	05KANAWHA1	_	1 138	205 AEP	219	223	Base Case	0	-4.2	-	1.93	0	-0.11%
239347 021	239347 02LEAR	239348	02WORTHST		1 138	202 ATSI	278	343	Base Case	0	5.4	-	1.93	0	0.16%
244187 055	244187 05STINK RUN	244275	05WALHON MTR	Z1	138	205 AEP	205	284	Base Case	0	4	-	1.93	0	0.00%
243545 05N	243545 05MILTON SS	246747	05MILTON8	Z1	138	205 AEP	200	246	Base Case	0	3.8	-	1.91	0	0.00%
242962 05E	242962 05BLDBGZ	247302	05BLDBG8	Z1	138	205 AEP	140	140	Base Case	0	2.6	-	1.89	0	0.00%
243253 05E	243253 05BLUFFP	243319	05JAY		1 138	205 AEP	257	359	Base Case	0	4.8	-	1.89	0	-0.13%
238696 02E	238696 02ELWOD+	238697	02ELWOOD		1 138	202 ATSI	164	206	Base Case	0	3.1	-	1.88	0	0.00%
243878 051	243878 05MEADOW	246975	05MLCS23		1 345	205 AEP	1286	1800	Base Case	0	-24	-	1.87	0	-0.02%
242951 05A	242951 05ADDISONZ	244938	05ADDISON8	Z1	138	205 AEP	205	205	Base Case	0	3.8	-	1.84	0	0.00%
242508 05A	242508 05AMOS	242929	05NPROCT		1 765	205 AEP	5138	5138	Base Case	0	94.4	-	1.84	0	-5.77%
243561 05F	243561 05RODNEY SS	246778	0.5RODNEY8	7.1	1.38	205 AEP	145	177	Base Case	0	2.6	-	1.82	0	0.00%
246927 059	246927 05SAND H	247002	05WAYMSS	1	1 138	205 AEP	205	255	Base Case	0	-3 7	-	1 81	0	0.18%
243532 054	243532 05KTRK	244871	05RIDGELY		1 138	205 AEP	200	200	Base Case	0	5.7	-	1 81	0	0.13%
243154 055	243154 05WNDCD9	244071	05WND927	-	1 100	205 AEP	2.92	205	Base Case	0	_2 7	_	1 01		0.10%
243134 030	243134 USWND5K0	24/2//	OFOTNIK ODO	r 1	138	203 AEP	205	205	Dase Case	0	-3.7	-	10.1		0.00%
243102 055	243102 0551NK SP855	244942	USSINK SP8	Ζl	138	205 AEP	185	249	Base Case	0	3.3	-	1.8	0	0.00%
250036 080	250036 08GLNVW1	250117	08TRMNL1		1 138	212 DEO&K	268	268	Base Case	0	-4.8	-	1.78	0	-0.21%
243040 05N	243040 05MERCERVL Z	244944	05MERCERVL8	Z1	138	205 AEP	200	200	Base Case	0	3.5	-	1.77	0	0.00%
238547 022	238547 02AT	239036	02PERRY		1 345	202 ATSI	1534	1891	Base Case	0	-26.8	-	1.75	0	2.89%
250132 080	250132 08WLDER1	250133	08WLDER2	Z1	138	212 DEO&K	468	468	Base Case	0	-8.1	-	1.73	0	0.05%
243520 05H	243520 05HARGUS	243569	05SCIPPO		1 138	205 AEP	223	223	Base Case	0	-3.8	-	1.72	0	0.00%
238960 021	238960 02MIDW K	239163	02WATERV		1 138	202 ATSI	308	376	Base Case	0	5.3	-	1.71	0	0.14%
242938 05N	242938 05MARQUI	253077	09STUART		1 345	205/209 AEP/DAY	1233	1372	Base Case	0	-21	-	1.7	0	1.68%
250054 081	250054 08LONGBR	250077	08MTZION		1 138	212 DEO&K	254	284	Base Case	0	4.3	-	1.7	0	0.14%
242821 055	242821 05SUNDL2	242828	05TENMIL		1 138	205 AEP	219	223	Base Case	0	-3.7	-	1.69	0	-0.10%
243336 05N	243336 05MANORZ	246401	05INDALEXL		1 138	205 AEP	180	220	Base Case	0	3	-	1.69	0	0.00%
250073 08N	250073 08MTCHL3	250110	08CENTRL		1 1.38	212 DEO&K	264	264	Base Case	0	4.4	-	1.68	0	0.08%
242785 059	242785 055 LYNC	243944	05GEORGE ST		1 138	205 AEP	287	337	Base Case	0	4 8	_	1 67	0	0.10%
246020 050	246929 05MADDOX	246020	050EDRCE DI	77.1	245	205 AFD	207	2026	Bage Case	0	-20.2	_	1.67	0	_0.10%
240929 031	240929 05MADDOX	240930	OOMENDWE	21	1 120	212 DEOSK	2305	2020	Base Case	0	- 39.3		1.00	0	-0.03%
249994 080	249994 08CHRLES	230126	OSWENDWE	R 1	1 138	212 DE0&K	234	244	Base Case	0	3.0	-	1.64	0	-0.00%
2429/2 055	242972 USBLOOMFD SS	245384	USBETHEL CH8	Ζl	138	205 AEP	140	140	Base Case	0	2.3	-	1.64	0	0.00%
250038 080	250038 08GOLFMR	250114	08TP7481		1 138	212 DEO&K	406	408	Base Case	0	-6.6	-	1.64	0	-0.09%
243126 051	243126 O5THIVENER1Z	246273	05THIVENR SS	Z1	138	205 AEP	329	361	Base Case	0	5.4	-	1.63	0	0.00%
243221 05E	243221 05EUGENE	348885	7BUNSONVILLE		1 345	205/357 AEP/AMIL	1692	1793	Base Case	0	27.6	-	1.63	0	-5.09%
246963 050	246963 05WESLSS	246964	05WESLMP		1 138	205 AEP	219	255	Base Case	0	3.6	-	1.62	0	0.00%
246187 050	246187 05WARTON H2	246928	05WARTON H1	Ζ1	138	205 AEP	383	449	Base Case	0	6.2	-	1.62	0	0.00%
242991 05E	242991 05E SIDE	243108	05STRLN1		1 138	205 AEP	251	251	Base Case	0	4	-	1.6	0	0.51%
242950 052	242950 05ACADEM	243153	05WMTVER		1 138	205 AEP	158	183	Base Case	0	-2.5	-	1.6	0	0.15%
239113 025	239113 02SP Q-2	239116	02SPXFQ2	ZB	138	202 ATSI	999	999	Base Case	0	15.7	-	1.58	0	0.00%
242792 055	242792 05SCOTSV	244446	05SOAPSTONE		1 138	205 AEP	167	167	Base Case	0	-2.6	-	1.57	0	0.52%
238957 02N	238957 02MFLD02	241923	02ELQ3		1 138	202 ATSI	265	316	Base Case	0	4.1	-	1.56	0	0.04%
246325 05N	246325 05NOTTINGH56	247460	05NOTTINGH34	23	138	205 AEP	747	747	Base Case	0	-11 6	-	1 55	0	-0.02%
246325 051	246325 05NOTTINGH56	247460	0.5NOTTINGH34	7.4	138	205 AEP	747	747	Base Case	n	-11 6	-	1 55	0	-0.02%
250116 08*	250116 08TPENTON 1	2501//4	08HIISTRC		1 120	212 DEOSK	170	170	Base Case	0	_2 8	_	1 55	0	0.41%
242026 001	242026 05METC 2	230144	OFWIT KOUTLED		1 100	212 DEURN	100	1.0	Dase Case	0	-2.0	-	1.55		0.41%
243036 051	243036 USMEIG 2	244950	05DUOKINGUIN		1 138	2UD AEP	129	101	Base Case	0	2	-	1.54		0.00%
2431U/ U58	24310/USSPENCR	246304	USBUCKINGHAM	-	1 138	ZUS AEP	100	130	Base Case	0	1.5	-	1.54	0	0.00%
239163 020	239163 U2WATERV	239191	UZJMDUTC		1 138	202 ATSI	308	376	Base Case	0	-4.7	-	1.54	0	-0.14%
238595 02E	238595 02BURTON	238708	02EVRGRN		1 138	202 ATSI	157	192	Base Case	0	2.4	-	1.53	0	0.01%
238791 021	238791 02HCQ-14	239052	02PV Q4		1 138	202 ATSI	225	295	Base Case	0	3.4	-	1.53	0	-0.11%
247803 055	247803 05SEGRETO	256019	18PALISD		2 345	205/218 AEP/METC	1306	1530	Base Case	0	-19.9	-	1.53	0	-1.38%

243256 050	243256 05CABOT SS	246780 05CABOT	Z1	138	205 AEP	205	205 Base Case	0 3.1	-	1.51	0	0.00%
238534 027	238534 02ANGOLA	238786 02HAWTHO	1	138	202 ATSI	287	335 Base Case	0 -4.3	-	1.49	0	0.01%
238589 025	238589 02BBUSH	239307 02HARPER0-21	1	138	202 ATST	143	146 Base Case	0 2.1	-	1.49	0	0.02%
243252 055	243252 05BTXLBT	246769 05MINERR	1	138	205 AEP	251	335 Base Case	0 -3 7	-	1 48	0	-0 19%
238656 021	238656 02DB0-11	239251 02GEOUTZ	1	138	202 ATST	258	308 Base Case	0 3.8	-	1 47	0	0.00%
244020 05N	244020 05MTNK	246826 05MINK T3	73	138	205 AEP	747	747 Base Case	0 11	_	1 47	0	0.00%
247803 059	247803 0555685T0	256019 18PALTSD	1	345	205/218 AEP/METC	1409	1793 Base Case	0 -19 9	_	1 41	0	-1 38%
243206 055	243206 050LIGNETO	270644 WILTON .	1	765	205/210 MEF/MEIC	3555	4105 Base Case	0 49 1	_	1 38	0	-21 08%
247146 051	247146 05DALBD8	247831 05DALMATN SS	71	138	205 AEP	548	601 Base Case	0 -7.6	_	1.38	0	0.00%
245264 051	245264 0507100 CAD	247461 05EPEERVPD	74	138	205 AEP	747	747 Base Case	0 -10.3	_	1.30	0	0.00%
245264 050	245264 05UTICA CAD	247461 05FREEBIRD	7.2	138	205 AEP	747	747 Base Case	0 -10.3	_	1.37	0	0.00%
243003 051	243003 05EAVETTE 7	244971 05EAVETTER	71	138	205 AEP	205	205 Base Case	0 2.8	-	1.36	0	0.00%
238608 020	238608 02CAPI TI	239275 02FI DSTMI	1	138	203 AEL 202 AEST	203	203 Base Case	0 2.0	-	1.30	0	-0.05%
243692 051	243692 05472PD1	243704 05VICCO	1	138	202 AISI 205 AFD	167	202 Base Case	0 -2 2	-	1.33	0	-0.37%
238956 021	238956 02MELDO1	239011 02NP 0-1	1	138	203 7151	265	316 Base Case	0 -3.5	-	1.34	0	-0.03%
242667 051	242667 054111	242720 05NACEI	1	120	202 AIDI	205	205 Page Case	0 3.5	_	1 22	0	-0.20%
238578 021	238578 02BORDMN	238998 02NEVADA	1	138	203 AEL 202 AEST	205	205 Base Case	0 -3 5	-	1.33	0	0.05%
238838 021	238838 02.TTO-11	239005 02NHT011	1	138	202 ATST	203	332 Base Case	0 -3 6	_	1 32	0	-0.10%
238884 021	238884 021.EMO K	238890 02T.EMOVN	ZB	138	202 ATST	570	743 Base Case	0 -7 7	_	1 32		0.16%
242670 054	242670 05H0LST2	242722 05MORLAN	1	138	205 AEP	205	205 Base Case	0 -2 7	-	1 32	0	-0 33%
246108 058	246108 05KAMMER24	246120 05KAMMER T6	7.6	138	205 AEP	383	449 Base Case	0 5	_	1.32	0	0.00%
242594 050	242594 05CHERCK	242604 05CLIEFT	1	138	205 AEP	251	335 Base Case	0 -3 3	_	1.01	0	-0.07%
250042 085	250042 08HANDS1	250097 085GB0VE	1	138	212 DEO&K	194	194 Base Case	0 -2 5	_	1.3	0	-0.15%
249994 080	249994 08CHRLES	250124 08WENDEA	1	138	212 DEO&K	234	244 Base Case	0 2.3	_	1.28	0	-0.06%
243085 059	243085 055 CAD	247462 05STONEPLTSS	1	138	205 AEP	293	341 Base Case	0 3 7	_	1.20	0	-0.35%
238801 025	238801 02HL 0-2	240283 02LKSH03	1	138	202 ATST	235	271 Base Case	0 3	_	1.27	0	-0.01%
242704 051	242704 05LOGAN1	242705 05LOGAN2	- 21	138	205 AEP	410	498 Base Case	0 -5 2	-	1.26	0	-0.06%
247004 050	247004 05GUYAND	247005 05MACOAL	71	138	205 AEP	195	220 Base Case	0 2.4	_	1 23	0	0.00%
238796 021	238796 02HGHLND	239303 02NTLES	1	345	202 ATST	1415	1745 Base Case	0 17.4	_	1 23	0	0.91%
243311 054	243311 05ARN HOGAN	246913 05 TONES	1	138	205 AEP	257	360 Base Case	0 -3 1	-	1 22	0	0.51%
242651 050	242651 05GLENL2	242721 05MORGAN	1	138	205 AEP	134	167 Base Case	0 -1 6	-	1 22	0	-0 13%
243483 050	243483 05CBCLVS	246784 05CTRCV T1T2	7.2	138	205 AEP	996	996 Base Case	0 12 1	_	1 21	0	0.00%
243483 050	243483 05CBCLVS	246784 05CIBCV T1T2	21	138	205 AEP	996	996 Base Case	0 12.1	-	1 21	0	0.00%
238926 021	238926 02LTV	238928 02LTV+	1	138	202 ATST	153	186 Base Case	0 -1.9	-	1.21	0	0.00%
253310 AC1	253310 AC1-085 POT	253311 AC1-085 MAIN	1	345	209 DAY	9999	9999 Base Case	0 -120.7	-	1.21	0	-0.08%
243487 050	243487 05CHK TAP Z	243512 05DTAMONDTSS	1	138	205 AEP	216	243 Base Case	0 -2.6	-	1.2	0	0.06%
243042 05N	243042 05MTLLBR PK1	243069 05FTREBR	1	138	205 AEP	185	185 Base Case	0 2.2	-	1.19	0	0.16%
242678 051	242678 05TNDTAS	242732 05NBRSTL	1	138	205 AEP	158	167 Base Case	0 1.9	-	1.18	0	0.14%
239133 021	239133 02TANGY	246523 05HYATT SW1	1	345	202/205 ATSI/AEP	971	1419 Base Case	0 -11.5	-	1.18	0	-1.21%
247461 05E	247461 05FREEBYRD	247462 05STONEPLTSS	1	138	205 AEP	293	341 Base Case	0 -3.4	-	1.17	0	-0.35%
243694 051	243694 05INEZ	244572 05MARTIKI	1	138	205 AEP	257	349 Base Case	0 3	-	1.17	0	0.00%
243228 05N	243228 05MERIDN	243232 05SORENS	1	345	205 AEP	897	897 Base Case	0 -10.4	-	1.16	0	-1.79%
238952 02N	238952 02MCD +	238953 02MCD ST	1	138	202 ATSI	195	195 Base Case	0 2.2	-	1.15	0	0.00%
242829 051	242829 05TENNE1	242830 05TENNE2	Z1	138	205 AEP	483	483 Base Case	0 5.5	-	1.15	0	0.05%
239115 028	239115 02SP Q-4	239117 02SPXFQ4	ZB	138	202 ATSI	999	999 Base Case	0 11.4	-	1.14	0	0.00%
242996 05E	242996 05EMERA8	247034 05EMERSS	1	138	205 AEP	200	200 Base Case	0 -2.3	-	1.14	0	0.00%
243378 058	243378 05SPY RUN2	246373 05SPY RUN1	Z1	138	205 AEP	410	498 Base Case	0 -4.7	-	1.14	0	0.02%
238835 023	238835 02JGS012	238881 02LTF016	1	138	202 ATSI	223	286 Base Case	0 2.5	-	1.14	0	0.02%
243514 05F	243514 05RJF CORP Z	246228 05RJF CORP	Z1	138	205 AEP	282	366 Base Case	0 3.2	-	1.12	0	0.00%
250087 080	250087 08QUNGT1	250088 08QUNGT2	Z1	138	212 DEO&K	406	454 Base Case	0 -4.5	-	1.12	0	-0.02%
242573 050	242573 05CABELL	242717 05MILTON	1	138	205 AEP	167	167 Base Case	0 1.9	-	1.12	0	0.11%
238823 021	238823 02INQ-14	238829 02IVYQ14	1	138	202 ATSI	399	488 Base Case	0 -4.4	-	1.11	0	0.04%
238719 02E	238719 02FMCQ12	238807 02HMLQ12	1	138	202 ATSI	273	332 Base Case	0 3	-	1.11	0	0.14%
243567 055	243567 05SBLMVL	247148 05SBLMSS	Z1	138	205 AEP	195	220 Base Case	0 -2.2	-	1.11	0	0.00%
242983 050	242983 05CHANDLERVZ	245388 05CHANDLERV8	Z1	138	205 AEP	205	205 Base Case	0 2.2	-	1.09	0	0.00%
242940 051	242940 05MUSKNG	247832 05LAMPING	1	345	205 AEP	915	971 Base Case	0 -9.9	-	1.08	0	-2.63%

242646 05E	242646	05FT.ROB SS	242729	05NAGEL	1	138	205 AEP	205	205 Base Case	0	2.2	-	1.06	0	-0.42%
247803 055	247803	05SEGRETO	256019	18PALISD	3	345	205/218 AEP/METC	1447	1542 Base Case	0	-15.1	-	1.04	0	-1.05%
235703 010	235703	01WYLIE R	239280	02CRNBRY	1	500	201/202 AP/ATSI	3542	4149 Base Case	0	36.4	-	1.03	0	6.83%
245647 050	245647	05W.CAMP OSU	246907	05W.CAMPUS	Z 9	138	205 AEP	747	747 Base Case	0	-7.7	-	1.03	0	0.00%
245647 050	245647	05W.CAMP OSU	246907	05W.CAMPUS	z7	138	205 AEP	747	747 Base Case	0	-7.7	-	1.03	0	0.00%
245647 050	245647	0.5W.CAMP OSU	246907	0.5W.CAMPUS	7.8	1.38	205 AEP	747	747 Base Case	0	-7.7	-	1.03	0	0.00%
243306 055	243306	05HARPER	243342	05MTLAN	1	138	205 AEP	167	245 Base Case	0	1 7	-	1	0	0.13%
243867 055	243867	05FRCS34	243868	05FRCS-3	1	345	205 AEP	1001	1631 Base Case	0	-10	-	1	0	-0.01%
243024 051	243024	05HOWARD	243061	05NLEXTN	1	138	205 AEP	200	200 Base Case	0	2	-	0.99	0	-0.04%
243455 050	243455	05CONES	243456	05COBBID	1	345	205 AEP	1217	1374 Base Case	0	11 7	_	0.96	0	-0.63%
249987 085	249987	08BETHNY	250084	08PARK1	1	138	212 DE0.6K	394	394 Base Case	0	-3.8	-	0.96	0	-0.08%
238524 022	238524	0220 0-2	238915	02LEN 02	1	138	202 2751	265	316 Base Case	0	-2 5	_	0.96	0	0.18%
238996 02N	238996	02NEO-15	239013	02NSO-15	1	138	202 1101	273	332 Base Case	0	2.6	_	0.96	0	0.09%
243083 050	243083	05CAMPSS	243121	05ROCKPO	1	138	205 AEP	145	177 Base Case	0	1 4	-	0.94	0	0.00%
243885 051	243885	05THORSS	243886	05COBB	1	138	205 AEP	426	426 Base Case	0	4	_	0.94	0	0.00%
242634 055	242634	05FDCEMO	242636	OSEALIRD	1	138	205 AFR	167	240 Base Case	0	-1 6	_	0.94	0	-0.11%
238524 022	238524	0220 0-2	242030	022002	1	138	203 ABI 202 ATST	273	332 Base Case	0	2 5	-	0.93	0	0.11%
243476 055	243476	05BOLINSMISS	246684	05BOLINS ML8	71	138	205 AEP	200	200 Base Case	0	1.8	-	0.93	0	0.00%
242704 051	243470	05LOCAN1	240004	05BOLINS MLO	1	138	205 AEF	251	200 Base Case	0	-2.3	_	0.92	0	0.00%
250061 08N	250061	08MDWAY2	250118	0.8TRMNI.2	1	138	212 DEOSK	275	275 Base Case	0	-2 5	-	0.91	0	-0.21%
249581 08N	249581	08MELDAL	342838	7SPUBLOCK	1	345	212/320 DEO&K/EKPC	1274	1421 Base Case	0	11 4	-	0.89	0	0.73%
243856 05.	243856	05.TUG ST 1-6	247805	05SMTTHMTLL8	1	138	205 AEP	257	360 Base Case	0	2 3	_	0.89	0	0.00%
243353 050	243353	05000 BI I 0	246092	OSNEW CAR BR	1	138	205 AFR	187	240 Base Case	0	1.6	_	0.87	0	0.36%
246092 05N	245555	OSNEW CAR BP	246092	05RICKMN	1	138	205 AEF 205 AEP	187	223 Base Case	0	1.0	-	0.87	0	0.36%
243118 054	243118	05SUMMER	240554	05STEAMT	1	138	205 AFR	205	284 Base Case	0	_1.0	_	0.87	0	0.30%
250059 085	250059	0 8MA TNUT	250147	0301EAMI	1	138	212 DEOSK	203	204 Base Case	0	2.6	_	0.86	0	0.20%
243379 059	243379	05STATES	243384	05TRIER	1	138	205 AEP	219	251 Base Case	0	1 9	-	0.00	0	-0.29%
243671 055	243671	05BEAVER CR1	245913	05KEWANEE	1	138	205 AEP	296	378 Base Case	0	2.5	_	0.84	0	0.26%
243458 051	243458	05HYATT	246523	05HYATT SW1	- 21	345	205 AEP	1370	1503 Base Case	0	11 5	-	0.84	0	-1 21%
243920 05N	243920	05MAKAHOY	246988	05STRWTN	1	138	205 AEP	205	284 Base Case	0	-1 7	-	0.84	0	0.09%
238958 02N	238958	02MFLD03	239016	02NT 015	1	1.38	202 ATST	265	316 Base Case	0	-2.2	-	0.83	0	-0.04%
242817 055	242817	05STONBR	247242	05CHAPSS	1	138	205 AEP	296	378 Base Case	0	2.4	-	0.82	0	0.03%
238905 021	238905	02LNC.PK	239077	02RVERBD	1	1.38	202 ATST	275	333 Base Case	0	2.1	-	0.78	0	-0.04%
238800 021	238800	02HI 0-1	240281	021KSH01	1	1.38	202 ATST	235	271 Base Case	0	-1.8	-	0.77	0	0.02%
242772 055	242772	0.5RTVERV	247641	0.5GLADSTON	1	1.38	205 AEP	296	413 Base Case	0	2.2	-	0.76	0	0.00%
242621 051	242621	05DARRH1	242626	05E.HUNTING2	1	138	205 AEP	296	413 Base Case	0	2.1	-	0.71	0	-0.05%
243944 050	243944	05GEORGE ST	243945	05LYNBROOK	1	138	205 AEP	548	590 Base Case	0	-3.9	-	0.71	0	-0.10%
242788 055	242788	0.5SALTV1	242789	0.5SALTV2	71	1.38	205 AEP	2.87	337 Base Case	0	-2	-	0.69	0	0.07%
238637 020	238637	02CPP LS	240282	02LKSH02	1	138	202 ATSI	240	240 Base Case	0	1.6	-	0.68	0	0.22%
242846 050	242846	05WHARTN	242847	05WHARTZ	1	138	205 AEP	205	284 Base Case	0	-1.4	-	0.68	0	0.00%
242649 050	242649	05GARRSN	242776	05ROCKHS	1	138	205 AEP	219	223 Base Case	0	1.4	-	0.65	0	-0.11%
243063 051	243063	05N.NEWARK1	245964	05N.NEWARK2	Z1	138	205 AEP	164	180 Base Case	0	1.1	-	0.64	0	-0.12%
246440 055	246440	05S.OLIVE L8	247799	05S.OLIVE SS	Z1	138	205 AEP	296	400 Base Case	0	-1.9	-	0.64	0	0.00%
238771 020	238771	02GTO-11	239118	02SSPO11	1	138	202 ATSI	273	332 Base Case	0	-1.7	-	0.63	0	0.08%
243695 053	243695	05JOHNSC	246316	05STONE	1	138	205 AEP	262	332 Base Case	0	1.6	-	0.63	0	0.19%
238586 02E	238586	02BRKSID	239168	02WELNGT	1	138	202 ATSI	105	135 Base Case	0	-0.7	-	0.62	0	-0.20%
250136 08H	250136	08HILCRT	250166	HLCRST AB114	1	138	212 DEO&K	9999	9999 Base Case	0	-60.7	-	0.61	0	-0.04%
238764 020	238764	02GRANGR	239161	02WAKRON	1	138	202 ATSI	233	282 Base Case	0	-1.4	-	0.61	0	-0.20%
247824 051	247824	05NUTALL	247826	05MOLLYS CRK	1	138	205 AEP	316	444 Base Case	0	-1.9	-	0.6	0	0.25%
247702 05#	247702	05AZALEA	247703	05LEESVILLE	1	138	205 AEP	521	521 Base Case	0	-3.1	-	0.59	0	0.00%
238586 02E	238586	02BRKSID	241111	02ASHLAND	1	138	202 ATSI	167	245 Base Case	0	1	-	0.59	0	-0.37%
242535 05A	242535	05ALUMRG	242640	05FLOYD	1	138	205 AEP	180	227 Base Case	0	-1	-	0.56	0	-0.06%
242544 05A	242544	05AXTON	242620	05DANVL2	1	138	205 AEP	296	388 Base Case	0	-1.5	-	0.52	0	-0.52%
243884 05N	243884	05MORISB	243885	05THORSS	1	138	205 AEP	426	426 Base Case	0	-2.2	-	0.52	0	0.00%
250124 080	250124	08WENDEA	250126	08WENDWE	Z1	138	212 DE0&K	516	582 Base Case	0	2.7	-	0.51	0	0.08%
250124 080	250124	08WENDEA	250126	08WENDWE	2	138	212 DEO&K	516	582 Base Case	0	2.7	-	0.51	0	0.08%

250123 080	250123	08WARRN2	250147	08COLUMB	1	138	212 DE0&K	298	298 Base Case	0	-1.5	-	0.51	0	0.06%
243233 051	243233	05TANNER	254524	16HANNA	1	345	205/216 AEP/IPL	1132	1132 Base Case	0	-5.3	-	0.47	0	2.76%
246946 050	246946	05WLDCAT	926101	AC1-089 MAIN	1	138	205 AEP	9999	9999 Base Case	0	-45.4	-	0.45	0	-0.03%
242812 05N	242812	0.5MTNERAL8	244283	05MINERAL SS	7.1	1.38	205 AEP	223	223 Base Case	0	-1	-	0.45	0	0.00%
243082 05F	243082	0.5ROCKHTLL1	245516	0.5ROCKHTLL2	71	1.38	205 AEP	187	240 Base Case	0	0.8	-	0.45	0	0.00%
243552 051	243552	05PTCKR8	246021	0.5W.LANCAST2	1	1.38	205 AEP	296	413 Base Case	0	1.2	-	0.42	0	0.21%
242686 05.	242686	05.TEHU BR SS	242730	05NBECKL	1	138	205 AEP	205	255 Base Case	0	-0.8	_	0 4	0	-0.08%
238854 028	238854	02KDTPO3	238958	02MFLD03	1	1.38	202 ATST	176	229 Base Case	0	-0.7	-	0.38	0	-0.18%
238889 021	238889	02LEMOYN	264599	19MA.TTC	1	345	202/219 ATST/TTCT	953	953 Base Case	0	3 6	_	0.38	0	-1 68%
243497 050	243497	05DELANO	243570	05CLAYBN	1	138	205 AEP	323	449 Base Case	0	-1 2	_	0.37	0	-0.02%
246911 051	246911	05HIGHLA	247035	05NMARSS	1	138	205 AEP	223	223 Base Case	0	-0.8	_	0.37	0	-0.12%
242683 05.	242683	05.T EARL	244287	05WOLE GLADE	1	138	205 AEP	219	251 Base Case	0	0.8	_	0.35	0	0.03%
243537 05N	243537	05MALTS	243538	05MALISX	SR	138	205 AEP	820	928 Base Case	0	-2.8	_	0.34	0	0.00%
247864 051	247864	0.5LOGTOWN	247926	T131 TR	1	1.38	205 AEP	9999	9999 Base Case	0	-31.8	-	0.32	0	-0.02%
243903 050	243903	05GUNN RD SS	247540	112-072 C	7.1	345	205 AEP	9999	9999 Base Case	0	-31 2	_	0.31	0	-0.02%
242933 055	242933	058 PMONE	243211	05ALLEN	1	345	205 AEP	897	897 Base Case	0	-2 6	_	0.29	0	4 11%
243209 055	243209	05BOCKPT	247135	05BOCKP WBK2	7.8	765	205 AEP	6330	7590 Base Case	0	18 3	_	0.29	0	0.00%
243209 055	243209	05BOCKPT	247133	05BOCKP WBK1	27	765	205 AEP	6330	7590 Base Case	0	18 3	_	0.29	0	0.00%
246407 050	246407	05CABIN CRK2	247064	05KANAWHA2	27	138	205 AEP	187	240 Base Case	0	-0.5	-	0.27	0	-0.09%
243356 050	243356	050501.01	247541	050501.02	7.1	1.38	205 AEP	329	361 Base Case	0	-0.9	-	0.26	0	-0.18%
243257 050	243257	05CALVERTZ	246411	0.5CALVERT	71	1.38	205 AEP	158	183 Base Case	0	0.4	-	0.25	0	0.00%
238529 027	238529	02ATRPK+	238703	02ESPRNG	1	1.38	202 ATST	200	242 Base Case	0	-0.5	-	0.25	0	-0.12%
238880 021	238880	02LTF015	240247	02CK TP15	1	138	202 ATST	273	332 Base Case	0	0.7	_	0.25	0	-0.01%
242510 05E	242510	05BAKER	242513	05CULLOD	1	765	205 AEP	4047	4571 Base Case	0	-9.7	-	0.24	0	-4.49%
243867 055	243867	05FRCS34	243871	0.5FBCS-4	1	345	205 AEP	9999	9999 Base Case	0	-23.2	-	0.23	0	-0.01%
250063 08N	250063	08MHLTY1	250069	08MPLKL2	1	1.38	212 DE0&K	2.66	266 Base Case	0	-0.6	-	0.23	0	0.04%
238913 021	238913	02LRCR02	238914	02LRCR03	ZB	138	202 ATSI	2500	2500 Base Case	0	5.6	-	0.22	0	-0.03%
243792 051	243792	05LOSANTVILL	247543	V3-007 C	Z1	345	205 AEP	9999	9999 Base Case	0	-20.8	-	0.21	0	-0.01%
243878 05N	243878	05MEADOW	930041	AB1-006 C	1	345	205 AEP	9999	9999 Base Case	0	-20.8	-	0.21	0	-0.01%
238761 020	238761	02GPPR +	238970	02MRST +	1	138	202 ATSI	200	242 Base Case	0	-0.4	-	0.19	0	0.00%
242591 050	242591	05CENTRR	242724	05MOSELEY	1	138	205 AEP	167	245 Base Case	0	-0.3	-	0.18	0	0.10%
238720 021	238720	02FMC013	238808	02HMLO13	1	138	202 ATSI	191	245 Base Case	0	0.3	-	0.18	0	0.15%
242574 050	242574	05CABIN CRK1	242689	05KANAWHA1	1	138	205 AEP	187	240 Base Case	0	0.3	-	0.18	0	0.09%
245876 050	245876	050XFORD M8	247462	05STONEPLTSS	Z1	138	205 AEP	205	205 Base Case	0	-0.3	-	0.14	0	0.00%
243319 053	243319	05JAY	933591	AC2-176 MAIN	1	138	205 AEP	9999	9999 Base Case	0	-13.5	-	0.13	0	-0.01%
243035 051	243035	05MEIG 1	243038	05MEIG1Z	1	138	205 AEP	158	183 Base Case	0	-0.2	-	0.13	0	0.00%
242653 050	242653	05GRANDV	939800	AE1-212 TAP	1	138	205 AEP	9999	9999 Base Case	0	12.3	-	0.12	0	-0.07%
242604 050	242604	05CLIFFT	939800	AE1-212 TAP	1	138	205 AEP	9999	9999 Base Case	0	-12.3	-	0.12	0	-0.07%
242544 057	242544	05AXTON	242619	05DANVL1	2	138	205 AEP	296	398 Base Case	0	0.4	-	0.12	0	0.35%
246407 050	246407	05CABIN CRK2	246409	05CABIN C T8	ZL	138	205 AEP	369	369 Base Case	0	-0.5	-	0.12	0	-0.02%
242735 05N	242735	05NPOINT	247242	05CHAPSS	1	138	205 AEP	389	559 Base Case	0	-0.5	-	0.12	0	-0.08%
242570 05E	242570	05BUCHAN	242690	05KEENMT	1	138	205 AEP	116	116 Base Case	0	-0.1	-	0.11	0	0.00%
243278 051	243278	05DESOTO	243296	05GASTON	1	138	205 AEP	223	310 Base Case	0	-0.2	-	0.11	0	0.32%
243784 055	243784	05S.BTLR	247105	05VARNER	Z3	345	205 AEP	99999	99999 Base Case	0	-110	-	0.11	0	0.00%
243784 058	243784	05S.BTLR	247105	05VARNER	Z2	345	205 AEP	99999	99999 Base Case	0	-110	-	0.11	0	0.00%
243784 058	243784	05S.BTLR	247105	05VARNER	Z1	345	205 AEP	99999	99999 Base Case	0	-110	-	0.11	0	0.00%
243689 05H	243689	05HARBER	243875	05SOFTSH	1	138	205 AEP	184	184 Base Case	0	-0.2	-	0.11	0	0.00%
242544 057	242544	05AXTON	242545	05AXTONX	SR	138	205 AEP	696	747 Base Case	0	-0.7	-	0.11	0	0.00%
243039 051	243039	05MELMOR	247551	U4-028 C	Z1	138	205 AEP	9999	9999 Base Case	0	-10.4	-	0.1	0	-0.01%
243039 051	243039	05MELMOR	247552	U4-029 C	Z1	138	205 AEP	9999	9999 Base Case	0	-10.4	-	0.1	0	-0.01%
246352 05H	246352	05HAVILAND2	247563	V1-011	1	138	205 AEP	9999	9999 Base Case	0	-10.4	-	0.1	0	-0.01%
243000 05E	243000	05EWOOST	243158	05WOOSTE	1	138	205 AEP	187	205 Base Case	0	0.2	-	0.1	0	-0.31%
242855 050	242855	05WYOMIN	242856	05WYOMX1	SR	138	205 AEP	696	747 Base Case	0	-0.7	-	0.09	0	0.00%
242855 050	242855	05WYOMIN	242857	05WYOMX2	SR	138	205 AEP	696	747 Base Case	0	-0.7	-	0.09	0	0.00%
243689 05H	243689	05HARBER	243700	05SPICEW	1	138	205 AEP	219	255 Base Case	0	0.2	-	0.09	0	0.00%
242776 05F	242776	05ROCKHS	242820	05SUNDL1	1	138	205 AEP	219	223 Base Case	0	-0.2	-	0.09	0	0.11%

21782 23.728 23.728 93.643 94.643 24.737 M.201 1 3.0 20.71 0.001	243350 051	243350 05NICKER	243376 05SODUS	1	138	205	AEP	219	255 Base Case	0	-0.2	-	0.08	0	-0.09%
Solit 10	247926 T13	247926 T131 TR	926862 AC1-173 MAIN	1	138	205	AEP	9999	9999 Base Case	0	-7.9	-	0.08	0	-0.01%
13171 0.00 2.8731 0.02 2.9331 0.0249(1) 3.38 202.874 9.20 278 278 0.02 - 1.00 C 0.00 24143 0.01 24443 0.01 0.040171-4 2.0 10.0 2.0000 0.0000 24143 0.01 24443 0.01 0.040171-4 2.0 10.0 2.0000 0.0000 24143 0.01 24143 0.01 2.0000 0.00000 1.0 1.0 0.0 0.0000 24143 0.01 24450 0.01000000 1.0 1.0 2.0 0.0 0.0000 0.0 0.0000 0.0 0.0 0.0 0.0000 0.0 0.0 0.0000 0.0	250171 080	250171 080AKBK1	250172 08AERO	1	138	212	DEO&K	301	301 Base Case	0	-0.2	-	0.07	0	0.00%
Data de construir-30 244 de totalimitri-30 250 de totalimitri-30	238773 020	238773 02GTO-13	239119 02SSP013	1	138	202	ATSI	273	332 Base Case	0	-0.2	-	0.07	0	0.08%
21/100 21/100<	244745 05E	244745 05BABBIT1-2	245491 05BABBIT3-4	Z2	138	205	AEP	99999	99999 Base Case	0	53.1	-	0.05	0	0.00%
1946 00 39464 0 2014 0. 399 30 20100000 1 3.38 201 Ref 100 1100 1100 1000 0.01 - 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0 0.00 0	244745 05F	244745 05BABBTT1-2	245491 05BABBTT3-4	7.1	1.38	205	AEP	99999	99999 Base Case	0	53.1	-	0.05	0	0.00%
24283 233 24283 251 235 24284 251 235 2433 251 <th251< th=""> 251 251 2</th251<>	238640 020	238640 02CBISS	239073 0280BEBT	1	138	202	ATST	152	179 Base Case	0	-0 1	-	0.05	0	-0.08%
24190 24190 <th< td=""><td>242638 055</td><td>242638 05FTELDALE1</td><td>244390 05FTELDALE3</td><td>7.1</td><td>138</td><td>205</td><td>AEP</td><td>99999</td><td>99999 Base Case</td><td>0</td><td>45</td><td>-</td><td>0.04</td><td>0</td><td>-0.01%</td></th<>	242638 055	242638 05FTELDALE1	244390 05FTELDALE3	7.1	138	205	AEP	99999	99999 Base Case	0	45	-	0.04	0	-0.01%
Party 0 Party 0 <t< td=""><td>244390 055</td><td>244390 05FTELDALE3</td><td>244904 05FTELDALE4</td><td>ZF</td><td>138</td><td>205</td><td>AEP</td><td>99999</td><td>99999 Base Case</td><td>0</td><td>45</td><td>-</td><td>0.04</td><td>0</td><td>-0.01%</td></t<>	244390 055	244390 05FTELDALE3	244904 05FTELDALE4	ZF	138	205	AEP	99999	99999 Base Case	0	45	-	0.04	0	-0.01%
24254 24253 25254 252554 25254 25254 <t< td=""><td>243799 055</td><td>243799 05ETELDALE2</td><td>244904 05FTELDALE4</td><td>72</td><td>138</td><td>205</td><td>AEP</td><td>99999</td><td>99999 Base Case</td><td>0</td><td>-44 9</td><td>_</td><td>0.04</td><td>0</td><td>-0.01%</td></t<>	243799 055	243799 05ETELDALE2	244904 05FTELDALE4	72	138	205	AEP	99999	99999 Base Case	0	-44 9	_	0.04	0	-0.01%
12:256 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05 2:250 05	242534 052	242534 05ALLOY	247535 B=076	21	138	205	AEP	9999	9999 Base Case	0	-4 4	-	0.04	0	0.00%
24484 24484 24484 24884 <th< td=""><td>242566 055</td><td>242566 05BBOADE</td><td>242567 05BROADX</td><td>SR</td><td>138</td><td>205</td><td>AEP</td><td>348</td><td>370 Base Case</td><td>0</td><td>0 1</td><td>_</td><td>0.04</td><td>0</td><td>0.00%</td></th<>	242566 055	242566 05BBOADE	242567 05BROADX	SR	138	205	AEP	348	370 Base Case	0	0 1	_	0.04	0	0.00%
21997 Col 21997 Col 21997 Col - 0.0 0	246931 055	246931 05BLUECK	246932 05BLCKCS	1	115	205	AEP	99999	99999 Base Case	0	-39.3	_	0.04	0	-0.03%
12126 602 22228 DOURDE 24420 12-C31 1 158 C20 M22 PP30 Desc Case 0 - 0.06 0 <th< td=""><td>238997 02N</td><td>238997 02NEO-16</td><td>239014 02NSO-16</td><td>1</td><td>138</td><td>203</td><td>ATST</td><td>278</td><td>339 Base Case</td><td>0</td><td>0 1</td><td>_</td><td>0.04</td><td>0</td><td>0.00%</td></th<>	238997 02N	238997 02NEO-16	239014 02NSO-16	1	138	203	ATST	278	339 Base Case	0	0 1	_	0.04	0	0.00%
29985 000 29995 000 29985 000 29985 000 2998 000	243266 050	243266 05COUNTR	247620 V3-023	1	138	205	AEP	9999	9999 Base Case	0	-3.6	_	0.04	0	0.00%
212264 65 222264 65 22246 65 22246 65 22246 65 22246 65 22246 65 22246 65 2225 55 9899 99999 999 999 <t< td=""><td>249995 080</td><td>249995 0801 TNCO</td><td>250122 08WADDN1</td><td>1</td><td>138</td><td>200</td><td>DEOCK</td><td>198</td><td>198 Base Case</td><td>0</td><td>-0.1</td><td>_</td><td>0.03</td><td>0</td><td>0.00%</td></t<>	249995 080	249995 0801 TNCO	250122 08WADDN1	1	138	200	DEOCK	198	198 Base Case	0	-0.1	_	0.03	0	0.00%
D1366 00: D2136 00: D146 00: D100 00: D0000 D00000 D000000 D000000 D000000 D000000 D00000000 D0000000 D00000000 D000000000 D0000000000 D000000000000000000000000000000000000	242684 05.	242684 05.1 FERR	242685 05.1 FERX	SB	138	205	AEP	383	449 Base Case	0	0.1	_	0.03	0	0.00%
Dates Display Display <thdisplay< th=""> <thdisplay< th=""> <thdis< td=""><td>243856 053</td><td>243856 05.11G ST 1-6</td><td>246647 05.TUG ST T1</td><td>71</td><td>138</td><td>205</td><td>AFP</td><td>99999</td><td>99999 Base Case</td><td>0</td><td>30</td><td>_</td><td>0.03</td><td>0</td><td>0.00%</td></thdis<></thdisplay<></thdisplay<>	243856 053	243856 05.11G ST 1-6	246647 05.TUG ST T1	71	138	205	AFP	99999	99999 Base Case	0	30	_	0.03	0	0.00%
24235 24355 24355 <th< td=""><td>238853 028</td><td>238853 02KDTP01</td><td>238956 02MELDO1</td><td>1</td><td>138</td><td>203</td><td>ATGT</td><td>176</td><td>229 Base Case</td><td>0</td><td>0 1</td><td>_</td><td>0.03</td><td>0</td><td>0.00%</td></th<>	238853 028	238853 02KDTP01	238956 02MELDO1	1	138	203	ATGT	176	229 Base Case	0	0 1	_	0.03	0	0.00%
0.3176 col 0.3176 col 0.3176 col 0.3176 col 0.00 <	242955 057	242955 05APPIE VIV7	245566 05APDIE VIV8	71	138	202	AIDI	23205	23205 Base Case	0	6.7	_	0.03	0	0.10%
Displic 201 Displic 201 <thdisplic 201<="" th=""> <thdisplic 201<="" th=""></thdisplic></thdisplic>	243786 050	243786 05WTLMINGTON	247106 05VARNER	21	138	205	AFP	99999	99999 Base Case	0	-28	_	0.03	0	0.00%
12210 12210 12210 12210 12210 12100 12100 12100	239312 021	239312 02NS_VOPK	239348 02WODTUST	1	138	203	ATGT	278	343 Base Case	0	_0 1	_	0.03	0	0.00%
14412 000 24412 000000000000000000000000000000000000	242745 051	242745 05PEAKCK	270147 AF1-018 C	1	138	202	AED .	270	9999 Base Case	0	_2 2	_	0.03	0	0.10%
24385 05 24385 05 24385 05 24385 05 24385 05 13.4 - 0.01 0 0.000 23099 022 23099 022 23099 022 0308 020 0.13.4 - 0.01 0 0.000 23099 022 23099 022 0330 028 0330 0.01 0 0.01 0 0.01 0 0.000 24332 05 24332 05 Addition 24332 05 Addition 0.01 0 0.000 0.000 24332 05 24332 05 Addition 24032 03 03 03 04 0.01 0 0.000 0.000 24332 05 244730 0500000000000000000000000000000000000	244412 050	244412 05WTRV SLR C	247134 05EWATRV	1	138	205	AEP	9999	9999 Base Case	0	1 8	_	0.02	0	0.00%
23000 0.2 23000 0.000 0.11 0.000 0.001 0.001 0.000 0.001 0.001 0.000 0.001 0.000 0.001 0.000 0.001 0.000 0.001 0.000 0.000 0.001 0.0000 0.000 0.000 0	243856 051	243856 05 THC ST 1-6	247065 05 THC ST T2	71	138	205	AFD	99999	99999 Base Case	0	13 /	_	0.02	0	0.00%
2.0000 Constraint 242800 05	239099 030	239099 02SENECA	239935 02MARKWEST	1	138	203	ADI	312	380 Base Case	0	13.4	_	0.01	0	-0 51%
243382 03 24332 23332 23332 23332	243517 050	243517 05CAP AV	247643 72-116 C	1	138	202	AFP	9999	9999 Base Case	0	-1	_	0.01	0	0.01%
24273 05 24270 05 24280 05 24280 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24280 05 2500 05 24380 05 24380 05 24280 05 24280 05	243382 051	243382 05TANNER CK1	245407 05TANNER CK2	71	138	205	AFP	213	280 Base Case	0	0	_	0.01	0	0.00%
242737 06 24273 050POSSUMCK 246414 050POSUMC_CA 22 138 200 AEP 410 527 Base Case 0 0 0 0.001 0 0.003 907200 AD 907200 ADI-103 TAP 934760 ADI-103 MAIN 1 345 202 AFF 200 Base Case 0 0 - 0 0 0.000% 242800 05500NVES 2447040 05500NVIN 2 138 205 AFF 219 251 Base Case 0 0 - 0 0.000% 242800 05500RX 2447040 05500VINN 1 138 205 AFF 219 251 Base Case 0 0 - 0 0.000% 242800 0550RX 244040 05500VINN 1 138 205 AFF 219 231 Base Case 0 0 - 0 0.000% 24712 ADI-102 TAF 934751 ADI-102 MAIN 1 138 201 ATSI 238 317 Base Case 0 0 - 0	242737 050	242737 050POSSUMCK	247765 050POSUMC CB	21	138	205	AEP	358	421 Base Case	0	0	-	0.01	0	0.00%
97200 AD 907200 AD ADI-103 TAP 934760 ADI-103 TAP 1 345 202 ATSI 100 100 100 Base Case 0 - 0 0 0.000% 243516 056 243518 055GRVES 2446760 05REFUGE 1 138 205 AEP 219 251 Base Case 0 0 - 0 0 0.000% 242807 055 242807 055FORM 247040 05MOUNTH 1 138 205 AEP 219 251 Base Case 0 0 - 0 0 0.000% 242807 055 242807 055FORM 247040 05MOUNTH 1 138 205 AEP 219 251 Base Case 0 0 - 0 0 0.000% 242807 055 24700 05FORM 247040 05MOUNTH 1 138 202 ATSI 238 317 Base Case 0 0 - 0 0 0.000% 34750 AD 937450 AD 337475 AD 3371 AL=026 SU 1 138 202 ATSI 9398 Base Case 0 0 - 0 0 0.000% 247712 052 247712 05SULIVAN 333404 A2=-163 FANIN 1 138 <t< td=""><td>242737 050</td><td>242737 050P055UMCK</td><td>246414 050POSUMC_CA</td><td>7.2</td><td>138</td><td>205</td><td>AEP</td><td>410</td><td>527 Base Case</td><td>0</td><td>0</td><td>-</td><td>0.01</td><td>0</td><td>0.00%</td></t<>	242737 050	242737 050P055UMCK	246414 050POSUMC_CA	7.2	138	205	AEP	410	527 Base Case	0	0	-	0.01	0	0.00%
24336 65 243318 056 246760 05RPUGE 1 136 205 AEP 200 200 Base Case 0 0 - 0 0 0.00% 242807 055 242807 05570N 247040 05MONTN 2 138 205 AEP 219 251 Base Case 0 0 - 0 0 0.00% 934750 AD 934750 AD1-102 TAP 934751 AD1-102 TAP 934751 AD1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 936700 AE 93700 AE1-082 TAP 93701 AE1-092 TAP 138 202 ATSI 238 317 Pase Case 0 0 - 0 0 0.00% 93704 AE1-092 ASU 1 138 202 ATSI 238 0 0 - 0 0 0.00% 0 - 0 0 0.00% 0 - 0 0 0.00% 0 - 0 0 <t< td=""><td>907200 AD1</td><td>907200 AD1-103 TAP</td><td>934760 AD1-103 MATN</td><td>1</td><td>345</td><td>202</td><td>ATST</td><td>100</td><td>100 Base Case</td><td>0</td><td>0</td><td>-</td><td>0.01</td><td>0</td><td>0.00%</td></t<>	907200 AD1	907200 AD1-103 TAP	934760 AD1-103 MATN	1	345	202	ATST	100	100 Base Case	0	0	-	0.01	0	0.00%
22207 051 2210 2210 201	243518 050	243518 05GROVES	246760 058EEUGE	1	138	205	AEP	200	209 Base Case	0	0	_	0	0	0.04%
22807 05 242807 05 242807 05 242807 05 242807 05 251 Base Case 0 0 0 0.000% 934750 AD 934750 AD1-102 TAP 934751 AD1-102 MAIN 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.000% 934750 AD 937246 AD2-163 MAIN 937247 AD2-163 POI 1 138 202 AFSI 238 317 Base Case 0 0 - 0 0 0.000% 937246 AD2 937246 AD2-163 MAIN 937247 AD2-163 POI 1 138 202 AFSI 238 0.88 Case 0 0 - 0 0 0.000% 93800 AE 938700 AE 93800 AE 93800 AE 93800 AE 93800 AE 93800 AE 0 - 0 0 0.000% 247712 055ULIVAN 933440 AC2-157 MAIN 1 345 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.000% 247712 055ULIVAN 93205 AC 92505 AC 225 AEP 9999 9999 Base Case 0 0 - 0 <td>242807 058</td> <td>242807 05SPORN</td> <td>247040 05M0INTN</td> <td>2</td> <td>138</td> <td>205</td> <td>AEP</td> <td>219</td> <td>251 Base Case</td> <td>0</td> <td>0</td> <td>-</td> <td>0</td> <td>0</td> <td>0.00%</td>	242807 058	242807 05SPORN	247040 05M0INTN	2	138	205	AEP	219	251 Base Case	0	0	-	0	0	0.00%
1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100000000000000000000000000000000000	242807 055	242807 05SPORN	247040 05MOUNTN	1	138	205	AEP	219	251 Base Case	0	0	_	0	0	0.00%
27100 Int 2920 Int 2920 Int 2920 Int 2920 Int 2920 Int 3000000000000000000000000000000000000	934750 AD1	934750 AD1-102 TAP	934751 AD1-102 MAIN	1	138	205	AEP	9999	9999 Base Case	0	0	_	0	0	0.00%
237246 AD 237246 AD 212 AD 200 AD 212 AD<	926010 AC1	926010 AC1-078 TAP	926015 AC1-078 MAIN	1	138	202	ATST	238	317 Base Case	0	0	-	0	0	0.00%
Construint Constru	937246 AD2	937246 AD2-163 MAIN	937247 AD2-163 POT	1	138	202	ATST	9999	9999 Base Case	0	0	-	0	0	0.00%
20100 Int 2000 Int 2000 Int 200 Int <td>938700 AE1</td> <td>938700 AE1-092 TAP</td> <td>938701 AE1-092 CSU</td> <td>1</td> <td>138</td> <td>202</td> <td>DAY</td> <td>260</td> <td>260 Base Case</td> <td>0</td> <td>0</td> <td>_</td> <td>0</td> <td>0</td> <td>0.00%</td>	938700 AE1	938700 AE1-092 TAP	938701 AE1-092 CSU	1	138	202	DAY	260	260 Base Case	0	0	_	0	0	0.00%
237712 05 247712 05 01 345 205 AEP 9999 9999 Base Case 0	939800 AE1	939800 AE1-212 TAP	939801 AE1-212 MAIN	1	138	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
247506 U2-041 23513 hb2-107 min 1 335 205 hb2 0	247712 059	247712 05SULLTVAN	933440 AC2-157 MAIN	1	345	205	AEP	9999	9999 Base Case	0	0	-	0	n	0.00%
1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 1111111 11111111 11111111 11111111 11111111 11111111 11111111 1111111 11111111 111111111 111111111 1111111111 111111111 1111111111 11111111111111 11111111111111111 111111111111111111111111111111111111	247506 112-	247506 U2-041 C	925130 AB2-170 MAIN	1	345	205	AEP	9999	9999 Base Case	0	0	-	0	n	0.00%
243902 05HARDINS 247506 U2-041 1 345 205 AEP 99999 99999 Base Case 0 <t< td=""><td>932050 AC2</td><td>932050 AC2-015 TAP</td><td>932051 AC2-015 MAIN</td><td>1</td><td>138</td><td>205</td><td>AEP</td><td>9999</td><td>9999 Base Case</td><td>0</td><td>0</td><td>-</td><td>0</td><td>0</td><td>0.00%</td></t<>	932050 AC2	932050 AC2-015 TAP	932051 AC2-015 MAIN	1	138	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
247712 055 247712 05500 0	243902 051	243902 05HARDIN SS	247506 U2-041 C	1	345	205	AEP	99999	99999 Base Case	n	0	-	0	0	0.00%
247712 053 247712 053 247712 053 247712 053 247712 053 247712 053 247712 053 0201, min 1 345 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243076 052 243076 052 CONESPREPZ 247725 0500000000000000000000000000000000000	247712 054	247712 05SULLTVAN	930470 AB1-088 MATN	1	345	205	AEP	9999	9999 Base Case	0	0	-	0	n	0.00%
238704 02E 238704 02ET Q-1 240249 02CHIAQ-1 1 138 202 ATSI 273 332 Base Case 0 0 - 0 0 0.00% 243076 05 243076 05CONESPREPZ 247725 05CONESPREP 1 138 202 ATSI 273 332 Base Case 0 0 - 0 0 0.00% 243076 05 243076 05CONESPREPZ 247725 05CONESPREP 1 138 205 AEP 145 177 Base Case 0 0 - 0 0.00% 247460 05N 0TTINGH34 926251 AC1-103 GSU1 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243682 05CONSOL 243683 05CONSTF 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243682 05CONSOL 243683 05CONSTF 1 138 205 AEP 9999 9999 Base Case 0 <t< td=""><td>247712 058</td><td>247712 05SULLIVAN</td><td>930460 AB1-087 MATN</td><td>1</td><td>345</td><td>205</td><td>AEP</td><td>9999</td><td>9999 Base Case</td><td>0</td><td>0</td><td>-</td><td>0</td><td>0</td><td>0.00%</td></t<>	247712 058	247712 05SULLIVAN	930460 AB1-087 MATN	1	345	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
243076 050 243076 050 263076 050 0 <td< td=""><td>238704 025</td><td>238704 02ET 0-1</td><td>240249 02CHTAO-1</td><td>1</td><td>138</td><td>202</td><td>ATST</td><td>273</td><td>332 Base Case</td><td>0</td><td>0</td><td>-</td><td>0</td><td>0</td><td>0.00%</td></td<>	238704 025	238704 02ET 0-1	240249 02CHTAO-1	1	138	202	ATST	273	332 Base Case	0	0	-	0	0	0.00%
247460 05 247460 05NOTTINGH34 926251 AC1-103 GSU2 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 247460 05N 247460 05NOTTINGH34 926251 AC1-103 GSU2 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243682 05 243682 05 05 243683 05 05 247460 0 - 0 0 0 0 0 0 0.00% 243682 05 243683 05 05 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243682 05 243682 05 05 34982 AD1-130 MAIN 1 345 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243541 05 243641	243076 050	243076 05CONESPREPZ	247725 05CONESPREP	1	138	202	AEP	145	177 Base Case	0	0	-	0	0	0.00%
247460 05NOTTINGH3 926250 AC1-103 GSU 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243682 05 243683 05CONSOL 243683 05CONSTP 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243682 05 243683 05CONSTP 1 138 205 AEP 205 284 Base Case 0 0 - 0 0 0.00% 243682 05 243683 05CONSTP 1 138 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243682 05 243902 05HARDIN SS 934982 AD1-130 MAIN 1 345 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 243541 05METALC 246765 05OUTERE 1 138 <t< td=""><td>247460 05N</td><td>247460 05NOTTINGH34</td><td>926251 AC1-103 GSU2</td><td>1</td><td>138</td><td>205</td><td>AEP</td><td>9999</td><td>9999 Base Case</td><td>0</td><td>0</td><td>-</td><td>0</td><td>0</td><td>0.00%</td></t<>	247460 05N	247460 05NOTTINGH34	926251 AC1-103 GSU2	1	138	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
243682 05CONSOL 243683 05CONSPF 1 138 205 AEP 2050 2051 26362 0 </td <td>247460 05N</td> <td>247460 05NOTTINGH34</td> <td>926250 AC1-103 GSU1</td> <td>1</td> <td>138</td> <td>205</td> <td>AEP</td> <td>9999</td> <td>9999 Base Case</td> <td>n</td> <td>0</td> <td>-</td> <td>0</td> <td>0</td> <td>0.00%</td>	247460 05N	247460 05NOTTINGH34	926250 AC1-103 GSU1	1	138	205	AEP	9999	9999 Base Case	n	0	-	0	0	0.00%
243902 05HARDIN SS 934982 AD1-130 MAIN 1 345 205 AEP 9999 9999 Base Case 0 0 - 0 0 0.00% 935040 AD1-140 TAP 935041 AD1-140 MAIN 1 138 202 ATSI 9999 9999 Base Case 0 0 - 0 0 0.00% 243541 05METALC 246765 050UTERB 1 138 205 AEP 97 97 Base Case 0 0 - 0 0 0.00% 243541 05METALC 246765 050UTERB 1 138 205 AEP 97 97 Base Case 0 0 - 0 0 0.00% 250106 08TOHJT 250168 TRENTON_2 1 138 212 DE06K 185 198 Base Case 0 0 - 0 0 0.00% 239038 02FG2-12 239040 02FGTP12 1 138 202 ATSI 115 115 50 Base	243682 050	243682 05CONSOL	243683 05CONSTP	1	138	205	AEP	205	284 Base Case	0	0	-	0	0	0.00%
935040 ADI 935040 ADI 935040 ADI 10100 Intra 1 138 202 ATSI 9999 9999 Base Case 0 0 - 0 0 0.00% 243541 05N 243541 05METALC 246765 050UTERB 1 138 205 AEP 97 97 Base Case 0 0 - 0 0 0.00% 250106 087 250106 0870HJT 250168 TRENTON 2 1 138 212 DE06K 185 198 Base Case 0 0 - 0 0 0.00% 239038 02E 239038 02F62-12 239040 02F6TP12 1 138 202 ATSI 115 115 Base Case 0 0 - 0 0 0.00% 238533 02A 239038 02F62-12 239040 02F6TP12 1 138 202 ATSI 155 Base Case 0 0 - 0 0 0.00% 238533 02A 238533 02AMSTED 238575 02BUBBL 1 138 202 ATSI 550 50 Base Case 0 0 - 0 0 0.00%	243902 054	243902 05HARDIN SS	934982 AD1-130 MATN	1	345	205	AEP	9999	9999 Base Case	n	0	-	0	0	0.00%
243541 05 244765 0500000000000000000000000000000000000	935040 AD1	935040 AD1-140 TAP	935041 AD1-140 MAIN	1	138	203	ATST	9999	9999 Base Case	0	0	-	0	0	0.00%
250106 087 250106 0870DHJT 250168 TRENTON_2 1 138 212 DE06K 185 198 Base Case 0 0 - 0 0 0.00% 239038 022 239038 02FGQ-12 239040 02FGTP12 1 138 202 ATSI 115 115 Base Case 0 0 - 0 0 0.00% 238533 02A 238533 02AMSTED 238535 02BUBEL 1 138 202 ATSI 50 50 Base Case 0 0 - 0 0 0.00%	243541 05N	243541 05METALC	246765 050UTERB	1	138	205	AEP	97	97 Base Case	0	0	-	0	0	0.00%
239038 021 239038 022 239038 022 239038 022 239038 022 ATSI 115 115 Base 0.0 0.00% 238533 024 238533 024 138 202 ATSI 115 115 Base Case 0 0 0.00%	250106 081	250106 08TODHJT	250168 TRENTON 2	1	138	212	DEO&K	185	198 Base Case	0	0	-	0	0	0.00%
238533 024 238533 024 ST 238575 020 UBEL 1 138 202 ATST 50 50 Base Case 0 0 - 0 0 000	239038 021	239038 02PG0-12	239040 02PGTP12	1	138	202	ATSI	115	115 Base Case	0	0	-	0	0	0.00%
	238533 027	238533 02AMSTED	238575 02BLUBEL	1	138	202	ATSI	50	50 Base Case	0	0	-	0	0	0.00%

249981 08#	249981 08AKSTEEL2	250169 08AK STL CAP	1	138	212	DEO&K	84	89 Base Case	0	0	-	0	0	0.00%
247757 05H	247757 05HERLAN SW	247843 05HERLAN CAP	Z1	138	205	AEP	23205	23205 Base Case	0	0	-	0	0	0.00%
244198 051	244198 05LEMASTER	244569 05LEMAST CAP	Z1	138	205	AEP	822	902 Base Case	0	0	-	0	0	0.00%
243575 058	243575 05ST.CLB	247010 05ST.CLB_TSC	71	1.38	205	AEP	99999	99999 Base Case	0	0	_	0	0	0.00%
939390 AE1	939390 AE1-170 POI	939391 AE1-170 MAIN	1	138	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
247106 055	247106 05VARNER	247107 05VARNER CAP	71	1.38	205	AEP	99999	99999 Base Case	0	0	_	0	0	0.00%
243575 059	243575 05ST CLB	247716 05ST CLB MSC	 71	138	205	AEP	99999	99999 Base Case	0	0	_	0	0	0.00%
245332 057	245332 05ANG1-2 CAP	246177 05ANGUIN1-2	21	138	205	AEP	99999	99999 Base Case	0	0	_	0	0	0.00%
242993 055	242993 05E LETPSTC2	893021 V2-006 C	1	138	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
239037 021	239037 02800-11	239038 02800-12	70	138	203	ATST	999	999 Base Case	0	0	_	0	0	0.00%
239037 021	233037 02FGQ-11	235038 02FGQ-12	2D 71	120	202	AIDI	00000	999 Base Case	0	0		0	0	0.00%
244300 030	244500 05GEMINI_CAP	245554 05GEMINI	21 71	120	205	AEF	33333	262 Dase Case	0	0	_	0		0.00%
242330 03E	242350 05BEARSK	314671 4BEARSKN	21	130	203/343	AEP/DVP	230	262 Base Case	0	0	-	0		0.00%
250044 08F	250044 08HEBRN2	250045 08HEBRN1	21	138	212	DEO&K	309	349 Base Case	0	0	-	0		0.00%
250005 080	250005 08CRNEL4	250115 08TP7482	1	138	212	DEO&K	266	266 Base Case	0	0	-	0	0	0.00%
238830 021	238830 021WQ-16	238831 021WQ-17	ZB	138	202	ATSI	999	999 Base Case	0	U	-	0	0	0.00%
913030 Y1-	913030 Y1-006 TAP	913031 Y1-006 MAIN	1	138	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
249989 08E	249989 08BKJ246	250165 08BKJDB2	1	138	212	DEO&K	9999	99999 Base Case	0	U	-	0	0	0.00%
249989 08E	249989 08BKJ246	250164 08BKJDB1	1	138	212	DEO&K	9999	9999 Base Case	0	0	-	0	0	0.00%
238713 021	238713 02FB Q-1	238714 02FB Q-3	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
244412 050	244412 05WTRV SLR C	247966 05WTRV SLR E	1	138	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
249988 08E	249988 08BKJ135	249989 08BKJ246	Z1	138	212	DEO&K	309	349 Base Case	0	0	-	0	0	0.00%
238708 025	238708 02EVRGRN	240077 AB1-015 E	1	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
242768 05F	242768 05RIDGWX	242769 05RIDGWY	ZB	138	205	AEP	287	299 Base Case	0	0	-	0	0	0.00%
238704 02E	238704 02ET Q-1	238705 02ET Q-2	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
242767 05F	242767 05RIDGWA	242768 05RIDGWX	ZB	138	205	AEP	287	299 Base Case	0	0	-	0	0	0.00%
239046 021	239046 02PN Q-2	239047 02PN TP	1	138	202	ATSI	265	316 Base Case	0	0	-	0	0	0.00%
243226 051	243226 05LAWBG1	243227 05LAWBG2	Z1	345	205	AEP	1701	1813 Base Case	0	0	-	0	0	0.00%
239049 021	239049 02PV Q1	239051 02PV Q3	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
239053 02E	239053 02PVMQ15	239054 02PVMQ16	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
249981 08 <i>4</i>	249981 08AKSTEEL2	250162 08GARVER	1	138	212	DEO&K	301	301 Base Case	0	0	-	0	0	0.00%
238701 02E	238701 02ERQ-11	238702 02ERQ-14	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
243562 05F	243562 05ROSS	243836 05ROSS T1T2	Z1	138	205	AEP	383	449 Base Case	0	0	-	0	0	0.00%
243217 051	243217 05DEQUIN	243991 05DEQUIN_REA	Z1	345	205	AEP	99999	99999 Base Case	0	0	-	0	0	0.00%
243562 05F	243562 05ROSS	243836 05ROSS T1T2	Z2	138	205	AEP	383	449 Base Case	0	0	_	0	0	0.00%
242586 050	242586 05CAVE SPR2Z	245723 05CAVE SPR	Z1	138	205	AEP	164	180 Base Case	0	0	-	0	0	0.00%
242589 050	242589 05CENTCR	242590 05CENTER	Z1	138	205	AEP	223	310 Base Case	0	0	_	0	0	0.00%
238698 02E	238698 02ENQ-11	238699 02ENQ-12	ZB	138	202	ATSI	999	999 Base Case	0	0	_	0	0	0.00%
243562 05F	243562 05ROSS	247357 05ROSS CAP	Z1	138	205	AEP	99999	99999 Base Case	0	0	-	0	0	0.00%
238818 021	238818 02ILQ-11	238819 02ILQ-12	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238692 024	238692 02ASH EAST	239055 02015TAP	1	138	202	ATSI	273	338 Base Case	0	0	-	0	0	0.00%
245476 05F	245476 05ROB PK34	245505 05ROB PK T6	ZH	138	205	AEP	747	747 Base Case	0	0	-	0	0	0.00%
247643 Z2-	247643 Z2-116 C	247969 Z2-116 E	1	138	205	AEP	99999	99999 Base Case	0	0	-	0	0	0.00%
239092 025	239092 02SAMMIS	253902 15BVRVAL	S1	345	202/215	ATSI/DLCO	1195	1195 Base Case	0	0	_	0	0	0.00%
247552 U4-	247552 U4-029 C	247941 U4-029 E	1	138	205	AEP	99999	99999 Base Case	0	0	-	0	0	0.00%
243130 051	243130 05TIFFIN	247548 V4-010 C	- 71	1.38	205	AEP	9999	9999 Base Case	0	0	_	0	0	0.00%
238815 021	238815 02TKO-15	238817 02TKO-18	ZB	138	202	ATST	999	999 Base Case	0	0	_	0	0	0.00%
243013 050	243013 05GAVIN1	246324 05GAVIN CAP	71	138	205	AEP	329	361 Base Case	0	0	-	0	0	0.00%
243127 057	243127 05#TDD 1-2	245389 05TTDD B Y	ZB	138	205	AEP	586	598 Base Case	0	0	-	0	0	0.00%
247551 114	247551 114-028 C	247940 II4-028 F	1	130	200	AFP	0000	99999 Baco Case	0	0	_	0		0.00%
247540 172	247549 13-020 0	247948 13-020 5	1	275	200	7 FD	00000	ADDA Base Case	0	0	-	0		0.00%
24/349 V3-	247349 V3-U20 C	24/940 V3-U20 E		345	205	ADI	33333	000 Date Case	0	0	-	0	0	0.00%
239110 028	239110 UZSPAFUZ	23911/U2SPAEQ4	4B 1	130	202	AIDI	999	999 Base Case	0	U	-	0	0	0.00%
24/348 V4-	24/348 V4-U1U C	24/94/V4-U1U E	1	138	205	ALP	99999	39999 Base Case	U	0	-	0	0	0.00%
24312/ 051	24312/USTIDD 1-2	243129 USTIDD_C_X	4B -	138	205	AEP	6/0	/4/ Base Case	U	U	-	0		0.00%
24/543 V3-	24/543 V3-UU/ C	24/935 V3-00/ E	1	345	205	AEP	99999	99999 Base Case	U	0	-	U	0	0.00%
24/540 U2-	24/540/02=0/2 C	24/932 U2-U/2 E	1	345	205	AEP	99999	99999 Base Case	U	0	-	U		0.00%
247536 05E	247536 05BLUFF P WF	24/929 S-071 E	1	138	205	AEP	99999	99999 Base Case	0	0	-	0	0	0.00%

243575 055	243575 05ST.CLR	247717 05ST.CLR MSR	Z1	138	205	AEP	99999	99999 Base Case	0	0	-	0	0	0.00%
243484 050	243484 05CITYCO	294740 P44	1	138	205	AEP	999	999 Base Case	0	0	_	0	0	0.00%
238807 021	238807 02HML012	238809 02HML014	ZB	138	202	ATST	999	999 Base Case	0	0	_	0	0	0.00%
247506 U2-	247506 112-041 C	247919 U2-041 E	1	345	205	AEP	99999	99999 Base Case	0	0	_	0	0	0.00%
243669 055	243669 05B SAND	243678 05BSANDX	ZB	138	205	AEP	287	337 Base Case	0	0	-	0	0	0.00%
242658 050	242658 05GBEENB	313704 4KANAWHATT.	1	138	205/345	AEP/DVP	95	95 Base Case	0	0	_	0	0	0.00%
247506 112-	247506 U2-041 C	247549 V3-028 C	71	345	200,010	AEP	9999	9999 Base Case	0	0	_	0	0	0.00%
238862 021	238862 02KT 0-1	238863 0281 0-3	70	138	203	ADI	999	999 Base Case	0	0		0	0	0.00%
220662 021	238662 02010-15	230003 02RE Q 3	70	120	202	AT01	000	000 Base Case	0	0	_	0		0.00%
242041 054	242041 05041007	240240 02010 10 244210 0504100T DEA	71	245	202	AIDI	00000	00000 Base Case	0	0		0		0.00%
242941 050	242941 030H10C1	244319 050HIOCI_REA	21 1	120	203	AEP	999999	999999 Base Case	0	0	-	0		0.00%
243100 055	243100 05SHELGH	243101 USSHELNS		130	205	AEP	97	97 Base Case	0	0	-	0		0.00%
243488 050	243488 USCONESVILLE	243489 05CONESV_CAP	21	138	205	AEP	99999	999999 Base Case	0	0	-	Û		0.00%
238556 024	238556 U2AYERSV	238659 02DEFISW	1	. 138	202	ATSI	216	264 Base Case	0	0	-	0	0	0.00%
238859 024	238859 02KIQ-11	238860 02KIQ-14	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238867 021	238867 02KPQ-12	238868 02KPQ-13	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238661 021	238661 02DKQ-16	238662 02DKQ-17	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238657 021	238657 02DBQ-14	239251 02GEQUTZ	1	. 138	202	ATSI	258	308 Base Case	0	0	-	0	0	0.00%
238798 02F	238798 02HKQ-21	238799 02HKQ-22	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
243488 050	243488 05CONESVILLE	246914 05CONESV AUX	Z5	138	205	AEP	548	601 Base Case	0	0	-	0	0	0.00%
238869 021	238869 02KY Q-1	238870 02KY Q-3	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
243488 050	243488 05CONESVILLE	246914 05CONESV AUX	ZS	138	205	AEP	548	601 Base Case	0	0	-	0	0	0.00%
242833 051	242833 05TRAILF	247048 05PINNCK	Z1	138	205	AEP	185	220 Base Case	0	0	-	0	0	0.00%
238856 021	238856 02KH Q-3	238870 02KY Q-3	1	. 138	202	ATSI	347	423 Base Case	0	0	-	0	0	0.00%
238876 021	238876 02LAQ-12	238877 02LAQ-13	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238656 021	238656 02DBQ-11	238657 02DBQ-14	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238855 021	238855 02KH Q-1	238869 02KY Q-1	1	. 138	202	ATSI	355	434 Base Case	0	0	-	0	0	0.00%
242946 051	242946 05TIDD	253965 15COLLIE	S1	345	205/215	AEP/DLCO	1195	1195 Base Case	0	0	-	0	0	0.00%
238855 021	238855 02KH Q-1	238856 02KH Q-3	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
242948 050	242948 05WBELLA	244329 05W.BELL_REA	Z1	345	205	AEP	99999	99999 Base Case	0	0	-	0	0	0.00%
239210 021	239210 02IOQ-16	239211 02IOQ-17	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
239212 027	239212 02AUSTQ2	239213 02AUSTQ1	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
243026 05F	243026 05KAMMER13	246111 05KAMMER T5	Z5	138	205	AEP	383	449 Base Case	0	0	-	0	0	0.00%
238647 020	238647 02CY Q-1	238648 02CY Q-2	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
239225 028	239225 02STYDCO	239226 02STYDCOQ11	ZB	138	202	ATSI	265	287 Base Case	0	0	-	0	0	0.00%
242717 05N	242717 05MILTON	930192 AB1-055 E	1	. 138	205	AEP	9999	9999 Base Case	0	0	-	0	0	0.00%
238541 027	238541 02AS Q-1	238546 02ASQ-11	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238540 027	238540 02ARMCO+	239196 02ARM+BU	1	. 138	202	ATSI	157	189 Base Case	0	0	-	0	0	0.00%
238790 02H	238790 02HCQ-13	238791 02HCQ-14	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
250075 081	250075 08MTGRY1	250111 08TP5483	1	. 138	212	DEO&K	198	198 Base Case	0	0	_	0	0	0.00%
243044 051	243044 05MILLWO	246941 05MILL2Z	Z1	138	205	AEP	187	205 Base Case	0	0	-	0	0	0.00%
239282 021	239282 02PR0Q12	239283 02PROQ13	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
246237 051	246237 05THIVENER2Z	246273 05THIVENR SS	Z2	138	205	AEP	329	361 Base Case	0	0	-	0	0	0.00%
246254 051	246254 05TUNNEL RDG	247775 05DIXON SS	Z1	138	205	AEP	205	284 Base Case	0	0	-	0	0	0.00%
238643 020	238643 02CW Q-1	238644 02CW Q-3	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238882 021	238882 02LE Q-1	238883 02LE 0-3	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238851 021	238851 02KD 0-1	238852 02KD 0-3	ZB	138	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
238893 021	238893 02LF 0-2	238894 02LF 0-4	ZB	1.38	202	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
239345 029	239345 02STL AE+	239346 02STLTCA+	1	138	202	ATST	278	343 Base Case	0	0	_	0	0	0.00%
238904 021	238904 02J-MO-11	240252 02TMO-12	ZL	138	2.02	ATSI	999	999 Base Case	0	0	-	0	0	0.00%
243037 05N	243037 05METGS SS	246310 05METGS SW17	7.1	138	205	AEP	95	95 Base Case	0	0	_	0	0	0.00%
238629 020	238629 02CT.VRDT.	239237 02CLVR-S	ZB	138	200	ATST	320	413 Base Case	0	0	-	0		0.00%
242961 054	242961 05BIGGBC	246940 05BTGB27	1	138	202	AEP	205	205 Base Case	0	0	-	0	0	0.00%
238918 024	238918 02SLTR02	238919 02SLTR04	ZB	138	200	ATST	900	999 Base Case	0	0	_	0	0	0.00%
238781 025	238781 02µлмил	253902 15802077	S1	272	202/215	ATST/DICO	1105	1195 Base Case	0	0	_	0		0.00%
238620 020	238620 0201. 012	238621 0201. 013	ZB	132	202/213	ATST	1100	999 Base Case	0	0	-	0		0.00%
243987 054	243987 05911 TVN DEA	247712 058111 1 1928	71	245	202	750	00000	99999 Base Case	0	0	_	0		0.00%
2-10/000	Z-3500 0000000 KEA	Z I / I Z U J J U I I VAN	1 L L	545	20J		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JJJJJ Dase Case	J	0		0	U	0.0070

242816 055	242816	05STOCKT	926461	AC1-117 C	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
242965 05E	242965	05BRIDGEVILZ	245839	05BRIDGEVIL	Z1	138	205 AEP	150	180 Base Case	0 0	-	0	0	0.00%
243234 051	243234	0.5TWIN B	243385	0.5TWIN B	6	345/138	205 AEP	540	540 Base Case	0 0	-	0	0	0.00%
240258 025	240258	02FU0-13	240259	02EU0-14	71.	138	202 ATST	999	999 Base Case	0 0	-	0	0	0.00%
243497 050	243497	05DELANO	925342	AC1-001 MATN	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
243510 050	243510	05CAHANN	246095	OSCAHAN T1-4	72	138	205 AFP	131	164 Base Case	0 0	_	0	0	0.00%
245510 050	243310	0 JGARANN	240095	OJGANAN 11-4	44 7 D	130	203 AEF	131	104 Base Case	0 0	_	0	0	0.00%
238933 021	230933	02LIDQI4	250955	150DE00N	4D 01	130	202 AISI 202 (215 AMOT (DLCO	1044	1411 Dage Case	0 0	_	0	0	0.00%
238941 020	236941	02MANSFD	233936	I SCRESCN	51	343	202/215 ATS1/DLCO	1244	1411 Base Case	0 0	-	0	0	0.00%
240352 021	240352	02PMZQII	240353	02PMZQ1Z	ZB	138	202 ATS1	999	999 Base Case	0 0	-	0	0	0.00%
243488 050	243488	USCONESVILLE	246914	05CONESV AUX	ZN	138	205 AEP	548	601 Base Case	0 0	-	0	0	0.00%
238//4 020	238774	02GTQ-14	239222	02CHSTL	2	138	202 ATS1	278	339 Base Case	0 0	-	0	0	0.00%
240359 02E	240359	02BENTLEYQ1	240360	02BENTLEYQ3	ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%
242937 051	242937	05KAMMER	246108	05KAMMER24	31	345/138	205 AEP	747	747 Base Case	0 0	-	0	0	0.00%
243510 050	243510	05GAHANN	246095	05GAHAN T1-4	Z3	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%
242937 05F	242937	05KAMMER	243026	05KAMMER13	30	345/138	205 AEP	450	450 Base Case	0 0	-	0	0	0.00%
242529 051	242529	05TRISTA	242835	05TRISTA	3	345/138	205 AEP	501	535 Base Case	0 0	-	0	0	0.00%
238613 020	238613	02CF Q-4	238614	02CFQ-14	ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%
238511 020	238511	02GMC-J	238512	02GMC-K	ZB	138	202 ATSI	222	265 Base Case	0 0	-	0	0	0.00%
893021 V2-	893021	V2-006 C	893022	V2-006 E	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
238950 021	238950	02MBQ-13	238951	02MBQ-14	ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%
238838 023	238838	02JIQ-11	238839	02JIQ-14	ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%
270163 AB2	270163	AB2-067 MAIN	937371	AD2-189	1	765	205/3 AEP/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%
270147 AE1	270147	AE1-018 C	270148	AE1-018 E	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
243510 050	243510	05GAHANN	246095	05GAHAN T1-4	Z 4	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%
242525 05F	242525	05KANAWH	242526	05KANAWZ	SC	345	205 AEP	1494	1595 Base Case	0 0	-	0	0	0.00%
250166 HLC	250166	HLCRST AB114	930062	AB1-014 E	1	138	212 DEO&K	9999	9999 Base Case	0 0	-	0	0	0.00%
250149 081	250149	08TP5381	250161	08T758	1	138	212 DEO&K	298	298 Base Case	0 0	-	0	0	0.00%
238972 02N	238972	02MX Q-2	238973	02MX Q-4	ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%
246750 05F	246750	05ROCKPT	253586	10AEP T	1	138	205/210 AEP/SIGE	143	143 Base Case	0 0	-	0	0	0.00%
244195 05H	244195	05HOLSTN ARM	245222	05W.KINGS BP	Z1	138	205 AEP	94	105 Base Case	0 0	-	0	0	0.00%
933720 AC2	933720	AC2-195 TAP	933724	AC2-195 MAIN	1	1.38	202 ATST	9999	9999 Base Case	0 0	-	0	0	0.00%
238996 02N	238996	02NEO-15	238997	02NEO-16	ZB	138	202 ATST	999	999 Base Case	0 0	-	0	0	0.00%
242807 059	242807	05SPORN	247050	05CLINE	21	138	205 AEP	167	167 Base Case	0 0	-	0	0	0.00%
250131 080	250131	08WTLEY2	250155	OSWILCAP	1	138	212 DEO&K	68	68 Base Case	0 0	-	0	0	0.00%
246889 051	246889	05BTEDSD	247356	OSBIERSP CAR	71	138	205 AFP	00000	99999 Base Case	0 0	-	0	0	0.00%
240000 001	240000	05SALTV2	923771	AB2-011 C	1	138	205 AEF 205 AFP	0000	9999 Base Case	0 0	_	0	0	0.00%
242629 055	242705	OSE LYNN	246220	ABZ UII C	71	120	205 AEI	210	255 Base Case	0 0	_	0	0	0.00%
242020 035	242020	OFCRIMINO	240320	ADD 010 C	1 1	130	205 AEF	219	2JJ Base Case	0 0	_	0	0	0.00%
242789 055	242789	USSALTV2	923761	AB2-010 C	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
250117 000	250041	ADI-UUD C	930042	ADI-UUO E		345	2UJ AEF	3333	5999 Base case	0 0	-	0	0	0.00%
22011/ U81	20011/	OODEDDK1	200118	001 RPINLZ	61 771	138	212 DEO&K	204	JU4 Base Case	0 0	-	U	U	0.00%
250092 08F	250092	USKEDBKI	250093	USKEDBKZ	21	138	212 DEO&K	455	4/9 Base Case	0 0	-	0	U	0.00%
238/62 020	238/62	UZGK Q-3	238763	UZGR Q-4	ZB	138	202 ATS1	999	999 Base Case	0 0	-	U	U	0.00%
250091 08F	250091	U&RCHLE3	913222	Y1-054 E	1	138	212 DEO&K	9999	9999 Base Case	0 0	-	0	U	0.00%
926461 AC1	926461	AC1-117 C	926462	AC1-117 E	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
926250 AC1	926250	AC1-103 GSU1	926251	AC1-103 GSU2	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
239013 021	239013	02NSQ-15	239014	02NSQ-16	ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%
239025 021	239025	02NY Q11	239026	02NY Q12	ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%
242775 05F	242775	05ROCKCAS SS	245675	05WHITEHOUS8	Z1	138	205 AEP	109	133 Base Case	0 0	-	0	0	0.00%
924790 AB2	924790	AB2-131 TAP	924791	AB2-131 C OP	1	138	202/3 ATSI/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%
243464 05Z	243464	05ADAMS	924372	AB2-085 MAIN	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
923771 AB2	923771	AB2-011 C	923772	AB2-011 E	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
238754 020	238754	02GFQ-12	238755	02GFQ-2	1	138	202 ATSI	278	287 Base Case	0 0	-	0	0	0.00%
243510 050	243510	05GAHANN	246095	05GAHAN T1-4	Z1	138	205 AEP	131	164 Base Case	0 0	-	0	0	0.00%
923761 AB2	923761	AB2-010 C	923762	AB2-010 E	1	138	205 AEP	9999	9999 Base Case	0 0	-	0	0	0.00%
923061 AB1	923061	AB1-105 TAP	923062	AB1-105 OP	1	345	202/3 ATSI/PJM-FSA	9999	9999 Base Case	0 0	-	0	0	0.00%
238671 021	238671	02DW Q-1	238672	02DW Q-3	ZB	138	202 ATSI	999	999 Base Case	0 0	-	0	0	0.00%

APPENDIX D.

Joint Operating Agreement Between the Midcontinent Independent System Operator, Inc. and PJM Interconnection, L.L.C (Dec. 11, 2008) Joint Operating Agreement Between the Midcontinent Independent System Operator, Inc. And PJM Interconnection, L.L.C. (December 11, 2008)

Joint Operating Agreement Between the Midcontinent Independent System Operator, Inc. And PJM Interconnection, L.L.C.

ARTICLE I RECITALS

This Joint Operating Agreement ("Agreement") dated this 31st day of December, 2003, by and between PJM Interconnection, L.L.C. ("PJM") a Delaware limited liability company having a place of business at 2750 Monroe Blvd., Audubon, Pennsylvania 19403, and the Midcontinent Independent System Operator, Inc. ("MISO"), a Delaware non-stock corporation having a place of business at 720 City Center Drive, Carmel, Indiana 46032.

WHEREAS, PJM is the regional transmission organization that provides operating and reliability functions in portions of the mid-Atlantic and Midwest States. PJM also administers an open access tariff for transmission and related services on its grid, and independently operates markets for day-ahead, real-time energy, and financially firm transmission rights;

WHEREAS, MISO is the regional transmission organization that provides operating and reliability functions in portions of the Midwest States and Canadian Provinces. MISO administers an open access tariff for transmission and related services on its grid, and is developing processes and systems to operate markets to facilitate trading of day-ahead, real-time energy, and financially firm transmission rights;

WHEREAS, the Federal Energy Regulatory Commission has ordered each regional transmission organization to develop mechanisms to address inter-regional coordination;

WHEREAS, on February 12, 2003, the Parties entered into the Agreement Concerning Inter-regional Coordination, Including Development of Joint and Common Market ("Joint and Common Market Agreement"), which provides for the establishment of an Inter-RTO Steering Committee to facilitate development of the Joint and Common Market and resolution of seams issues between the Parties;

WHEREAS, certain other electric utilities will be integrated into the systems and markets PJM administers and controls, and it is recognized that such integration may result in changed flows on the systems of PJM and MISO as they exist prior to such integration;

WHEREAS, in accordance with good utility practice and in accordance with the directives of the Federal Energy Regulatory Commission, the Parties seek to establish exchanges of information and establish or confirm other arrangements and protocols in furtherance of the reliability of their systems and efficient market operations, and to give effect to other matters required by the Federal Energy Regulatory Commission;

NOW, THEREFORE, for the consideration stated herein, and for other good and valuable consideration, including the Parties' mutual reliance upon the covenants contained herein, the receipt of which hereby is acknowledged, PJM and MISO hereby agree as follows:

ARTICLE II ABBREVIATIONS, ACRONYMS AND DEFINITIONS

2.1 Abbreviations and Acronyms.

2.1.1 "AC" AC shall mean alternating current.

2.1.2 "AFC" AFC shall mean Available Flowgate Capability.

2.1.2.a "APC" APC shall mean Adjusted Production Cost.

2.1.3 "ARR" ARR shall mean Auction Revenue Rights.

2.1.4 "BA" BA shall mean Balancing Authority.

2.1.5 "BAA" BAA shall mean Balancing Authority Area.

2.1.5.a "CBBRP" CBBRP shall mean Cross-Border Baseline Reliability Project.

2.1.5.b "CBMEP" CBMEP shall mean Cross-Border Market Efficiency Project.

2.1.6 "CBM" CBM shall mean Capacity Benefit Margin.

2.1.7 "CFR" CFR shall mean Code of Federal Regulations.

2.1.8 "CIM" CIM shall mean Common Information Model.

2.1.8.a "CTS" CTS shall mean Coordinated Transaction Scheduling.

2.1.8.b "CTSD" CTSD shall mean Coordinated Transaction Scheduling Dispatch.

2.1.9 "DC" DC shall mean direct current.

2.1.10 "DFAX" DFAX shall mean transfer distribution factors.

2.1.11 "EHV"

EHV shall mean Extra High Voltage.

2.1.12 "EMS"

EMS shall mean the respective Energy Management Systems utilized by the Parties to manage the flow of energy within their RC Areas.

2.1.13 "ERAG"

ERAG shall mean the Eastern Interconnection Reliability Assessment Group that is charged with multi-regional modeling.

2.1.14 "FERC" (or "Commission")

FERC shall mean the Federal Energy Regulatory Commission or any successor agency thereto.

2.1.15 "FTR"

FTR shall mean financial transmission rights.

2.1.16 "GLDF"

GLDF shall mean Generation-to-Load Distribution Factor.

2.1.17 "ICCP", "ISN" and "ICCP/ISN"

ICCP, ISN and ICCP/ISN shall mean those common communication protocols adopted to standardize information exchange.

2.1.18 "IDC"

IDC shall mean the NERC Interchange Distribution Calculator used for identifying and requesting congestion management relief.

2.1.19 "IPSAC"

IPSAC shall mean Inter-regional Planning Stakeholder Advisory Committee.

2.1.20 "IROL"

IROL shall mean Interconnection Reliability Operating Limit.

2.1.21 "ISC"

ISC shall mean the Inter-RTO Steering Committee.

2.1.21.a "ITSCED"

ITSCED shall mean Intermediate Term Security Constrained Economic Dispatch.

2.1.22 "JRPC"

JRPC shall mean the Joint RTO Planning Committee.

2.1.23 "kV"

kV shall mean kilovolt of electric potential.

2.1.24 "LBA" LBA shall mean Local Balancing Authority.

2.1.25 "LBAA" LBAA shall mean Local Balancing Authority Area.

2.1.25a "LEC" LEC shall mean Lake Erie circulation.

2.1.26 "LMP" LMP shall mean Locational Marginal Price.

2.1.26a "M2M" M2M shall mean market-to-market.

2.1.26b "MI" MI shall mean Michigan.

2.1.27 "MMWG" MMWG shall mean the Multi-regional Modeling Working Group.

2.1.27a "MOPI" MOPI shall mean the Michigan-Ontario PAR Interface.

2.1.28 "MTEP" MTEP shall mean MISO Transmission Expansion Plan.

2.1.29 "MVAR" MVAR shall mean megavolt amp of reactive power.

2.1.30 "MW" MW shall mean megawatt of real power.

2.1.31 "MWh" MWh shall mean megawatt hour of energy.

2.1.32 "NAESB" NAESB shall mean North American Energy Standards Board or its successor organization.

2.1.33 "NERC" NERC shall mean the North American Electricity Reliability Corporation or its successor organization.

2.1.33a "NLP" NLP shall mean Net Load Payment.

2.1.34 "NSI"

NSI shall mean net scheduled interchange.

2.1.35 "OASIS"

OASIS shall mean the Open Access Same-Time Information System required by FERC for the posting of market and transmission data on the Internet.

2.1.36 "OATT"

OATT shall mean the applicable open access transmission tariff.

2.1.36a "ONT"

ONT shall mean Ontario.

2.1.37 "OTDF"

OTDF shall mean Outage Transfer Distribution Factor.

2.1.37a "PAR"

PAR shall mean phase angle regulator.

2.1.38 "PMAX"

PMAX shall mean the maximum generator real power output reported in MWs on a seasonal basis.

2.1.39 "PMIN"

PMIN shall mean the minimum generator real power output reported in MWs on a seasonal basis.

2.1.40 "PSS/E"

PSS/E shall mean Power System Simulator for Engineering.

2.1.41 "PTDF"

PTDF shall mean Power Transfer Distribution Factor.

2.1.42 "QMAX"

QMAX shall mean the maximum generator reactive power output reported in MVARs at full real power output of the unit.

2.1.43 "QMIN"

QMIN shall mean the minimum generator reactive power output reported in MVARs at full real power output of the unit.

2.1.44 "RC"

RC shall mean Reliability Coordinator.

2.1.45 "RCF"

RCF shall mean Reciprocal Coordinated Flowgate.

2.1.46 "RCIS" RCIS shall mean the Reliability Coordinator Information System.

2.1.47 "RTEP" RTEP shall mean PJM Regional Transmission Expansion Plan.

2.1.48 "RTO" RTO shall mean regional transmission organization.

2.1.49 "SCADA" SCADA shall mean Supervisory Control and Data Acquisition.

2.1.50 "SDX System" SDX System shall mean the system used by NERC to exchange system data.

2.1.51 "SOL" SOL shall mean System Operating Limit.

2.1.52 "TCUL" TCUL shall mean tap-changing-under-load.

2.1.53 "TFC" TFC shall mean Total Flowgate Capability.

2.1.54 "TLR" TLR shall mean Transmission Loading Relief.

2.1.55 "TOP" TOP shall mean Transmission Operator.

2.1.56 "TRM" TRM shall mean Transmission Reliability Margin.

2.1.57 "UDS" UDS shall mean Unit Dispatch Systems.

2.1.58 "VAR" VAR shall mean volt ampere reactive.

2.2 Definitions.

Any undefined, capitalized terms used in this Agreement shall have the meaning given under industry custom and, where applicable, in accordance with good utility practices.

2.2.1 "a & b multipliers"

"a & b Multipliers" shall mean the multipliers that are applied to TRM in the planning horizon and in the operating horizon to determine non-firm AFC. The "a" multiplier is applied to TRM in the planning horizon to determine non-firm AFC. The "b" multiplier is applied to TRM in the operating horizon to determine non-firm AFC. The "a & b" multipliers can vary between 0 and 1, inclusive. They are determined by individual transmission providers based on network reliability considerations.

2.2.2 "Affected System"

Affected System shall mean the electric system of the Party other than the Party to which a request for interconnection or long-term firm delivery service is made and that may be affected by the proposed service.

2.2.3 "Agreement"

Agreement shall mean this document, as amended from time to time, including all attachments, appendices, and schedules.

2.2.4 "American Electric Power"

American Electric Power shall mean the American Electric Power Company.

2.2.4.a "Attaining Balancing Authority" or "Attaining BA"

Attaining Balancing Authority shall have the same meaning set forth in the then current version of the NERC Glossary of Terms used in NERC Reliability Standards.

2.2.4.b "Attaining Balancing Authority Area" or "Attaining BAA"

The Attaining Balancing Authority Area shall have the same meaning set forth in the then current version of the NERC Glossary of Terms Used in NERC Reliability Standards

2.2.4.c "Attaining Reliability Coordinator" or "Attaining RC"

The Attaining Reliability Coordinator is the entity that is responsible for Reliable Operation of the Bulk Electric System, as those terms are defined in the NERC Glossary of Terms, for the Attaining Balancing Authority.

2.2.4.d "Attaining Transmission Operator" or "Attaining TOP"

The Attaining Transmission Operator is the entity that operates or directs operations for the reliability of the Attaining BAA Transmission System.

2.2.5 "Available Flowgate Capability"

Available Flowgate Capability shall mean the rating of the applicable Flowgate less the projected loading across the applicable Flowgate less TRM and CBM. The firm AFC is calculated with only the appropriate Firm Transmission Service reservations (or

interchange schedules) in the model, including recognition of all roll-over Transmission Service rights. Non-firm AFC is determined with appropriate firm and non-firm reservations (or interchange schedules) modeled.

2.2.6 "Balancing Authority"

Balancing Authority shall mean the responsible entity that integrates resource plans ahead of time, maintains load-interchange-generation balance within a Balancing Authority Area, and supports interconnection frequency in real-time. For MISO references to a BA may be applicable to a BA and/or an LBA.

2.2.7 "Balancing Authority Area"

Balancing Authority Area shall mean the collection of generation, transmission, and loads within the metered boundaries of the BA. The BA maintains load-resource balance within this area. For MISO references to a BAA may be applicable to a BAA and/or an LBAA.

2.2.8 "Bulk Electric System"

Bulk Electric System shall mean the electrical generation resources, transmission lines, interconnections with neighboring systems, and associated equipment, generally operated at voltages of 100 kV or higher. Radial transmission facilities serving load with only one transmission source are generally not included in this definition.

2.2.9 "Commonwealth Edison"

Commonwealth Edison shall mean the Commonwealth Edison Company.

2.2.10 "Confidential Information"

Confidential Information shall have the meaning stated in Section 18.1.1.

2.2.11 "Congestion Management Process"

Congestion Management Process means that document incorporated herein as Attachment 2 to this Agreement hereto as it exists on the Effective Date and as it may be amended or revised from time to time.

2.2.11.1 "Constraint Relaxation Logic"

Constraint Relaxation Logic shall mean the logic applied in the market clearing software where the transmission limit is increased to prevent the Transmission Constraint Penalty Factor from setting the shadow price of a M2M Flowgate that is constrained.

2.2.12 "Coordinated Flowgate"

Coordinated Flowgate shall mean a Flowgate impacted by an Operating Entity as determined by one of the five studies detailed in Section 3 of the attached document entitled "Congestion Management Process." For a Market-Based Operating Entity, these Flowgates will be subject to the requirements under the Congestion Management portion of the Congestion Management Process (Sections 4 and 5). A Coordinated Flowgate may be under the operational control of a Third Party.

2.2.13 "Coordinated Operations"

Coordinated Operations means all activities that will be undertaken by the Parties pursuant to this Agreement.

2.2.14 "Coordinated System Plan"

Coordinated System Plan shall have the meaning stated in Section 9.3.7.

2.2.14.1.a "Coordinated Transaction Scheduling" or "CTS"

Coordinated Transaction Scheduling or CTS shall mean the market rules that allow realtime transactions to be scheduled based on a market participant's willingness to purchase energy from a source in either the MISO or PJM Balancing Authority Area and sell it at a sink in the other Balancing Authority Area if the forecasted price at the sink minus the forecasted price at the corresponding source is greater than or equal to the dollar value specified in the bid.

2.2.14.1.b "Coordinated Transaction Scheduling Dispatch" or "CTSD"

Coordinated Transaction Scheduling Dispatch or CTSD shall mean MISO's algorithm that performs various functions, including but not limited to forecasting dispatch and market clearing prices based on current and projected system conditions for up to several hours in the future.

2.2.14.a "Cross-Border Baseline Reliability Project"

Cross-Border baseline Reliability Project shall have the meaning stated in Section 9.4.4.1.1.

2.2.14.b "Cross-Border Market Efficiency Project"

Cross-Border Market Efficiency Project shall have the meaning stated in Section 9.4.4.1.2.

2.2.15 "Cross-Border Grandfathered Projects"

Cross Border Grandfathered Projects shall mean the Cross-Border Grandfathered Projects document incorporated herein as Attachment 4 to this Agreement, hereto as it exists on the Effective Date and as it may be amended or revised from time to time.

2.2.16 "Economic Dispatch"

Economic Dispatch shall mean the sending of dispatch instructions to generation units to minimize the cost of reliably meeting load demands.

2.2.17 "Effective Date"

Effective Date shall have the meaning stated in Section 12.1.

2.2.18 "Emergency Energy Transactions"

Emergency Energy Transactions shall mean the Emergency Energy Transactions document incorporated herein as Attachment 5 to this Agreement, hereto as it exists on the Effective Date and as it may be amended or revised from time to time.

2.2.19 "Extra High Voltage"

Extra High Voltage shall mean 230 kV facilities and above stations with voltage regulating capabilities.

2.2.20 "Facilities Study"

Facilities Study shall mean a study conducted by the Transmission Service Provider, or its agent, for the interconnection customer to determine a list of facilities, the cost of those facilities, and the time required to interconnect a generating facility with the transmission system or enable the sale of firm transmission service.

2.2.21 "Feasibility Study"

Feasibility Study shall mean a preliminary evaluation of the system impact of interconnecting a generating facility to the transmission system or the initial review of a transmission service request.

2.2.22 "Firm Flow"

Firm Flow shall mean the estimated impacts of Firm Transmission Service on a particular Coordinated Flowgate.

2.2.23 "Firm Flow Limit"

Firm Flow Limit shall mean the maximum value of Firm Flows an entity can have on a Coordinated Flowgate, based on procedures defined in Sections 4 and 5 of the Congestion Management Process.

2.2.24 "Flowgate"

Flowgate shall mean a representative modeling of facilities or groups of facilities that may act as significant constraint points on the regional system.

2.2.25 "Generation Resource"

Generation Resource shall mean a PJM Generation Capacity Resource, as that term is defined in the PJM Reliability Assurance Agreement, or a MISO Generation Resource or Capacity Resource, as those terms are defined in Module A of MISO Open Access Transmission, Energy and Operating Reserve Markets Tariff.

2.2.25.a "Generator Pseudo-Tie Market Flow Adjustment"

Generator Pseudo-Tie Market Flow Adjustment shall mean the amount of calculated energy flows removed from the Attaining Balancing Authority Market Flow for a specified Flowgate representative of the portion of the path from the location of the pseudo-tied generator to the MISO-PJM border.

2.2.26 "Governing Documents"

Governing Documents shall mean the PJM Open Access Transmission Tariff, the PJM Operating Agreement, the PJM Consolidated Transmission Owners Agreement, the PJM Reliability Assurance Agreement, the MISO Open Access Transmission and Energy and Operating Reserve Markets Tariff, the Agreement of Transmission Facilities Owners To Organize The Midcontinent Independent System Operator, Inc., A Delaware Non-Stock Corporation," or any other applicable agreement approved by the FERC and intended to govern the relationship by and among PJM and MISO and any of their respective members or market participants.

2.2.26.a "Hold Harmless Issues"

Hold Harmless Issues shall have the meaning given in Section 4.3.

2.2.27 "Intellectual Property"

Intellectual Property shall mean (i) ideas, designs, concepts, techniques, inventions, discoveries, or improvements, regardless of patentability, but including without limitation patents, patent applications, mask works, trade secrets, and know-how; (ii) works of authorship, regardless of copyright ability, including copyrights and any moral rights recognized by law; and (iii) any other similar rights, in each case on a worldwide basis.

2.2.28 "Interconnection Service"

Interconnection Service shall mean the service provided by the Transmission Service Provider associated with interconnecting the generating facility to the transmission system and enabling it to receive electric energy and capacity from the generating facility at the point of interconnection, pursuant to the terms of the generator interconnection agreement and, if applicable, the tariff.

2.2.29 "Interconnection Study"

Interconnection Study shall mean any of the following studies: the interconnection Feasibility Study, the interconnection System Impact Study, and the interconnection Facilities Study, or the restudy of any of the above, described in the generator interconnection procedures.

2.2.30 "Interconnection Reliability Operating Limit"

Interconnection Reliability Operating Limit shall mean a System Operating Limit that, if violated could lead to instability, uncontrolled separation(s) or cascading outages that adversely impact the reliability of the Bulk Electric System.

2.2.30.a "Intermediate Term Security Constrained Economic Dispatch"

Intermediate Term Security Constrained Economic Dispatch shall mean PJM's algorithm that performs various functions, including but not limited to forecasting dispatch and LMP solutions based on current and projected system conditions for up to several hours into the future.

2.2.31 "Interregional Coordination Process"

Interregional Coordination Process shall mean the market-to-market coordination document incorporated herein as Attachment 3 to this Agreement, hereto as it exists on the Effective Date and as it may be amended or revised from time to time.

2.2.32 "Inter-regional Planning Stakeholder Advisory Committee"

Inter-regional Planning Stakeholder Advisory Committee shall have the meaning given under Section 9.1.2.

2.2.33 "Inter-RTO Steering Committee"

Inter-RTO Steering Committee shall have the meaning given in the Joint and Common Market Agreement.

2.2.34 "Joint and Common Market"

Joint and Common Market shall mean, a group of initiatives that are intended to result in achievement of the following objectives: (i) Provide the highest level of inter-regional reliability; (ii) Deliver the lowest cost energy and ancillary services to load across the combined MISO and PJM Markets; and (iii) Plan, build and operate the combined MISO and PJM transmission facilities for maximum joint benefit across the markets.

2.2.35 "Joint and Common Market Agreement"

Joint and Common Market Agreement shall mean the Agreement Concerning Interregional Coordination, Including Development of Joint and Common Market, executed by the Parties on or about February 12, 2003.

2.2.36 "Joint Coordinated System Plan"

Joint Coordinated System Plan shall have the meaning given under Section 9.3.2.

2.2.37 "Local Balancing Authority"

Local Balancing Authority shall mean an operational entity which is: (i) responsible for compliance to NERC for the subset of NERC Balancing Authority Reliability Standards defined for its local area within the MISO Balancing Authority Area, and (ii) a party (other than MISO) to the Balancing Authority Amended Agreement which, among other things, establishes the subset of NERC Balancing Authority Reliability Standards for which the LBA is responsible.

2.2.38 "Local Balancing Authority Area"

Local Balancing Authority Area shall mean the collection of generation, transmission, and loads that are within the metered boundaries of an LBA.

2.2.39 "Locational Marginal Price" or "LMP"

Locational Marginal Price or LMP shall mean the market clearing price for energy at a given location in a Party's RC Area, and "Locational Marginal Pricing" shall mean the processes related to the determination of the LMP.

2.2.40 "LMP Contingency Processor"

LMP Contingency Processor shall mean that Locational Marginal Price pricing computer program referred to in Section 11.2.1.

2.2.41 "Market-Based Operating Entity"

Market-Based Operating Entity shall mean an Operating Entity that operates a security constrained, bid-based economic dispatch bounded by a clearly defined market area.

2.2.42 "Market Flows"

Market Flows shall mean the calculated energy flows on a specified Flowgate as a result of dispatch of generating resources serving market load within a Market-Based Operating Entity's market (excluding tagged transactions).

2.2.43 "Market Monitor"

Market Monitor shall monitor market power and other competitive conditions in the Markets and make reports and recommendations as appropriate.

2.2.44 "MISO"

MISO has the meaning stated in the preamble of this Agreement.

2.2.44.a "MOPI M2M Flowgate"

MOPI M2M Flowgate shall mean a Flowgate subject to the requirements in Section 10 of the Interregional Coordination Process.

2.2.44.b "Native Balancing Authority" or "Native BA"

The Native Balancing Authority shall have the same meaning set forth in the then current version of the NERC Glossary of Terms Used in NERC Reliability Standards.

2.2.44.c "Native Balancing Authority Area" or "Native BAA"

The Native Balancing Authority Area shall have the same meaning set forth in the then current version of the NERC Glossary of Terms Used in NERC Reliability Standards.

2.2.44.d "Native Reliability Coordinator" or "Native RC"

The Native Reliability Coordinator is the entity that is responsible for Reliable Operation of the Bulk Electric System, as those terms are defined in the NERC Glossary of Terms, where the pseudo-tied unit is physically located.

2.2.44.e "Native Transmission Operator" or "Native TOP"

The Native Transmission Operator is the entity that operates or directs operations for the reliability of the local transmission system where the pseudo-tied unit is physically located.

2.3.45 "NERC Compliance Registry"

NERC Compliance Registry shall mean a listing of all organizations subject to compliance with the approved reliability standards.

2.2.46 "Network Upgrades"

Network Upgrades shall have the meaning as defined in MISO and PJM tariffs.

2.2.47 "Notice"

Notice shall have the meaning stated in Section 18.10.

2.2.48 "Operating Entity"

Operating Entity shall mean an entity that operates and controls a portion of the bulk transmission system with the goal of ensuring reliable energy interchange between generators, loads, and other operating entities.

2.2.49 "Outages"

Outages shall mean the planned unavailability of transmission and/or generation facilities dispatched by PJM or MISO, as described in Article VII of this Agreement.

2.2.50 "Party" or "Parties"

Party or Parties refers to each party to this Agreement or both, as applicable.

2.2.51 "PJM"

PJM has the meaning stated in the preamble of this Agreement.

2.2.51.a "Project Cost"

Project Cost shall mean all costs for Network Upgrades, as determined by the RTOs to be a single transmission expansion project, including those costs associated with seeking and obtaining all necessary approvals for the design, engineering, construction, and testing the Network Upgrades. Project Cost will include costs classified by the Transmission Owners and ITCs as transmission plant using the Uniform System of Accounts or equivalent set of accounts for any Coordinating Owner, where Transmission Owners, ITCs, and Coordinating Owner have the meanings as defined under the PJM and MISO OATTs.

2.2.52 "Purchasing-Selling Entity"

Purchasing Selling Entity shall mean the entity that purchases or sells, and takes title to, energy, capacity, and interconnected operations services.

2.2.53 "Reciprocal Coordination Agreement"

Reciprocal Coordination Agreement shall mean an agreement between Operating Entities to implement the reciprocal coordination procedures defined in the Congestion Management Process.

2.2.54 "Reciprocal Coordinated Flowgate"

Reciprocal Coordinated Flowgate shall mean a Flowgate that is subject to reciprocal coordination by Operating Entities, under either this Agreement (with respect to Parties only) or a Reciprocal Coordination Agreement between one or more Parties and one or more Third Party Operating Entities. An RCF is:

- A Coordinated Flowgate that is (a) (i) within the operational control of a Reciprocal Entity or (ii) may be subject to the supervision of a Reciprocal Entity as a RC, and (b) affected by the transmission of energy by the Parties or by either Party of both Parties and one or more Reciprocal Entities; or
- A Coordinated Flowgate that is (a) affected by the transmission of energy by one or more Parties and one or more Third Party Operating Entities, and (b) expressly made subject to CMP reciprocal coordination procedures under a Reciprocal Coordination Agreement between or among such Parties and Third Party Operating Entities; or
- A Coordinated Flowgate that is designated by agreement of both Parties as a RCF.

2.2.55 "Reciprocal Entity"

Reciprocal Entity shall mean an entity that coordinates the future-looking management of Flowgate capability in accordance with a reciprocal agreement as described in the Congestion Management Process.

2.2.55.a "Regionally Beneficial Project"

Regionally Beneficial Project shall have the meaning defined under Attachment FF of the MISO OATT.

2.2.56 "Reliability Coordinator"

Reliability Coordinator shall mean that party approved by NERC to be responsible for reliability of an RC Area.

2.2.57 "Reliability Coordinator Area" or "RC Area"

Reliability Coordinator Area or RC Area shall mean the collection of generation, transmission, and loads within the boundaries of the Reliability Coordinator. Its boundary coincides with one or more Balancing Authority Areas.

2.2.58 "SCADA Data"

SCADA Data shall mean the electric system security data that is used to monitor the electrical state of facilities, as specified in NERC reliability standard TOP-005.

2.2.59 "State Estimator"

State Estimator shall mean that computer model that computes the state (voltage magnitudes and angles) of the transmission system using the network model and realtime measurements. Line flows, transformer flows, and injections at the buses are calculated from the known state and the transmission line parameters. The state estimator has the capability to detect and identify bad measurements.

2.2.60 "System Impact Study"

System Impact Study shall mean an engineering study that evaluates the impact of a proposed interconnection or transmission service request on the safety and reliability of transmission system and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the generating facility were interconnected or transmission service commenced without project modifications or system modifications.

2.2.61 "System Operating Limit"

System Operating Limit shall mean the value (such as MW, MVAR, Amperes, Frequency, or Volts) that satisfies the most limiting of the prescribed operating criteria for a specified system configuration to ensure operation within acceptable reliability criteria.

2.2.62 "Third Party"

Third Party refers to any entity other than a Party to this Agreement.

2.2.63 "Third Party Operating Entity"

Third Party Operating Entity shall refer to a Third Party entity that operates and controls a portion of the bulk transmission system with the goal of ensuring reliable energy interchange between generators, loads, and other operating entities.

2.2.64 "Total Flowgate Capability"

Total Flowgate Capability shall mean the maximum amount of power that can flow across that interface without overloading (either on an actual or contingency basis) any element of the Flowgate. The Flowgate capability is in units of megawatts. If the Flowgate is voltage or stability limited, a megawatt proxy is determined to ensure adequate voltages and stability conditions.

2.2.64.1 "Transmission Constraint Penalty Factor"

Transmission Constraint Penalty Factor shall mean the maximum cost of the redispatch incurred to control the flows across a transmission constraint and establishes the maximum limit on the shadow price, consistent with the maximum Transmission Constraint Demand Curve value in Schedule 28-A in the MISO Tariff and the value in the Amended and Restated Operating Agreement of PJM Interconnection, L.L.C., Schedule 1, Section 5.6.2 and the parallel provisions in Attachment K – Appendix of the PJM Open Access Transmission Tariff.

2.1.65 "Transmission Loading Relief"

Transmission Loading Relief shall mean the procedures used in the Eastern Interconnection as specified in NERC reliability standard IRO-006 and the NAESB business practice WEQ-008.

2.2.66 "Transmission Operator"

Transmission Operator shall mean the entity responsible for the reliability of its "local" transmission system, and that operates or directs the operations of the transmission facilities.

2.2.67 "Transmission Owner"

Transmission Owner shall mean a Transmission Owner as defined under the Parties' respective tariff.

2.2.68 "Transmission Reliability Margin"

Transmission Reliability Margin shall mean that amount of transmission transfer capability necessary to ensure that the interconnected transmission network is secure under a reasonable range of uncertainties in system conditions.

2.2.69 "Transmission Service Provider"

Transmission Service Provider shall mean the entity that administers the transmission tariff and provides transmission service to transmission customers under applicable transmission service agreements.

2.2.70 "Transmission System Emergencies"

Transmission System Emergencies are conditions that have the potential to exceed or would exceed an IROL.

2.2.71 "Unit Dispatch Systems"

Unit Dispatch Systems shall mean those dispatch systems utilized by the Parties to dispatch generation units by calculating the most economic solution while simultaneously ensuring that each of the boundary constraints is resolved reliably.

2.2.72 "Voltage and Reactive Power Coordination Procedures"

Voltage and Reactive Power Coordination Procedures are the procedures under Article XIX for coordination of voltage control and reactive power requirements.

2.3 Rules of Construction.

2.3.1 No Interpretation Against Drafter.

In addition to their roles as RTOs and RCs, and the functions and responsibilities associated therewith, the Parties agree that each Party participated in the drafting of this Agreement and was represented therein by competent legal counsel. No rule of construction or interpretation against the drafter shall be applied to the construction or in the interpretation of this Agreement.

2.3.2 Incorporation of Preamble and Recitals.

The Preamble and Recitals of this Agreement are incorporated into the terms and conditions of this Agreement and made a part thereof.

2.3.3 Meanings of Certain Common Words.

The word "including" shall be understood to mean "including, but not limited to." The word "Section" refers to the applicable section of this Agreement and, unless otherwise stated, includes all subsections thereof. The word "Article" refers to articles of this Agreement.

2.3.4 <u>Certain Headings</u>.

Certain sections of Articles IV, V, and VIII contain descriptions or statements of the purposes of, or requirements stated, in those sections. These descriptions or statements are to provide background information to assist in the interpretation of the requirements. The absence of a description or statement of purpose with respect to any requirement does not diminish the enforceability of the requirement. If a provision in Articles IV, V, and VIII is not delineated as "purpose," "background," or "definition," it is a requirement.

2.3.5 NERC Reliability Standards.

All activities under this Agreement will meet or exceed the applicable NERC reliability standards as revised from time to time.

2.3.6 NAESB Business Practices.

All activities under this Agreement will meet or exceed the applicable NAESB business practices as revised from time to time.

2.3.7 <u>Scope of Application</u>.

Each Party will perform this Agreement in accordance with its terms and conditions with respect to each BA for which it serves as RTO and, in addition, each BA for which it serves as RC.

ARTICLE III OVERVIEW OF COORDINATION AND INFORMATION EXCHANGE

3.1 Ongoing Review and Revisions.

PJM and MISO will use this Joint Operating Agreement, to the extent applicable, for the coordination of TOP, BA, RC and other functions for which they may have registered in the NERC Compliance Registry. The Parties have agreed to the coordination and exchange of data and information under this Agreement to enhance system reliability and efficient market operations as systems exist and are contemplated as of the Effective Date. The Parties expect that these systems and technology applicable to these systems and to the collection and exchange of data will change from time to time throughout the term of this Agreement, including changes to the boundaries of a Party in its capacity as an RTO, changes to the boundaries of, or identities of, BAs or TOPs for which a Party serves as RC, changes in response to findings and recommendations of the United States Department of Energy or NERC concerning the outage of August 14, 2003, and changes upon the commencement of market-to-market implementation. The Parties agree that the objectives of this Agreement can be fulfilled efficiently and economically only if the Parties, from time to time, review and as appropriate revise the requirements stated herein in response to such changes, including deleting, adding, or revising requirements and protocols. Each Party will negotiate in good faith in response to such revisions the other Party may propose from time to time.

ARTICLE IV EXCHANGE OF INFORMATION AND DATA
Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE IV - EXCHANGE OF INFORMATION AND DATA --> MISO-JOA 4.1 Exchange of Operating Data.

4.1 Exchange of Operating Data.

Purpose: Sharing data is necessary to facilitate effective coordination of operations and to maintain regional system reliability while assuring the maximum commercial flexibility for market participants.

Requirements: The Parties will exchange the following types of data and information on a continuous, real-time basis:

- (a) Real-Time and Projected Operating Data;(b) SCADA Data;(c) EMS Models;(d) Operations Planning Data; and
- (e) Planning Information and Models.

Each Party shall provide the data identified in items (a) through (e) of this Section to the other Party with respect to all entities that participate in Party's markets during the term of this Agreement, whether or not the entity is a participant as of the Effective Date.

To facilitate the exchange of all such data, each Party will designate to the other Party's Vice President of Operations a contact to be available twenty-four (24) hours each day, seven (7) days per week, and an alternate contact to act in the absence or unavailability of the primary contact, to respond to any inquiries. With respect to each contact and alternate, each Party shall provide the name, telephone number, e-mail address, and fax number. Each Party may change a designee from time to time by Notice to the other Party's Vice President of Operations.

The Parties agree to exchange data in a timely manner consistent with existing defined formats or such other formats to which the Parties may agree. If any required data exchange format has not been agreed upon as of the Effective Date, or if a Party determines that an agreed format should be revised, a Party shall give Notice of the need for an agreed format or revision and the Parties will jointly seek to complete development of the format within thirty (30) days of such Notice.

4.1.1 <u>Real-Time and Projected Operating Data</u>.

4.1.1.1 Requirements:

The Parties will exchange two categories of operating data (real-time information and projected information), as follows:

- (a) The real-time operating information consists of:
 - (i) Generation status of the units in each Party's RC Area;
 - (ii) Transmission line status;
 - (iii) Real-time loads;
 - (iv) Scheduled use of reservations;
 - (v) TLR information, including calculation of Market Flows;
 - (vi) Redispatch information, including the next most economical generation block to decrement/increment; and
 - (vii) List of real-time constraints that are binding in the real-time market solution.
- (b) Projected operating information consists of:
 - (i) Merit order for generators participating in the Parties' markets;
 - (ii) Maintenance schedules for generators and transmission facilities in either of the Parties' RC Area;
 - (iii) Transmission Service Reservations reflecting firm purchase and sales;
 - (iv) Independent power producer information including current operating level, projected operating levels, Outage start and end dates;
 - The planned and actual operational start-up dates for any permanently added, removed or significantly altered transmission segments;
 - (vi) Points of interconnection between the two Parties that will be permanently removed or added (this information to be shared by the Party responsible for the action shortly before taking such action); and
 - (vii) The planned and actual start-up testing and operational start-up dates for any permanently added, removed or significantly altered generation units.

4.1.2 Exchange of SCADA Data.

Background: NERC reliability standard TOP-005 Attachment 1 "Electric System Reliability Data," describes the types of data that TOPs, BAs, and Purchase Selling Entities are expected to provide, and RCs are expected to share with each other as explained in reliability standard TOP-005 "Operational Reliability Information."

Requirements:

- (a) The Parties shall exchange requested transmission power flows, measured bus voltages and breaker equipment statuses of their bulk transmission facilities via ICCP or ISN.
- (b) Each Party shall accommodate, as soon as practical, the other Party's requests for additional existing ICCP/ISN bulk transmission data points, but in any event no more than one (1) week after the request has been submitted.
- (c) Each Party shall respond, as soon as practical, to the other Party's requests for additional, unavailable ICCP/ISN bulk transmission data points, but in any event no more than two (2) weeks after the request has been submitted, with an expected availability target date for the requested data.
- (d) The Parties will comply with all governing confidentiality agreements executed by the Parties relating to ICCP/ISN data.
- (e) The Parties shall exchange SCADA Data consisting of:
 - Status measurements 69 kV and above (breaker statuses) (as available and required to observe for reliability as the respective Parties may determine);
 - (ii) Analog measurements 69 kV and above (flows and voltages); (as available and required to observe for reliability as the respective Parties may determine);
 - (iii) Generation point measurements, including generator output for each unit in MW and MVARS, as available;
 - (iv) Load point measurements, including bus loads and specific loads at each substation in MW and MVARS, as available;
 - (v) BAA net interchange;
 - (vi) BAA instantaneous demand;
 - (vii) BAA operating reserves; and
 - (viii) Identification of other real-time data available through ICCP/ISN.

4.1.3 <u>Models</u>.

Purpose: EMS models contain detailed representations of the transmission and generation configurations within each RTO and neighboring systems. The Parties depend upon EMS models for reliability coordination and market operations. The regular exchange of models is to ensure that each Party is using current and up-to-date representations of the other Party

Requirements: The Parties will exchange their detailed EMS models once a year in CIM format or another mutually agreed upon electronic format, but shall provide each other with updates of the model information in an agreed upon electronic format as new data becomes available. This yearly exchange will include the ICCP/ISN mapping files, identification of individual bus loads, seasonal equipment ratings and one-line drawing that will be used to expedite the model conversion process. The Parties will also exchange updates that represent the incremental changes that have occurred to the EMS model since the most recent update.

Pseudo-Tie Requirements: The Native Balancing Authority Area and the Attaining Balancing Authority Area shall coordinate unit modeling with respect to the rules of the Native Balancing Authority and Attaining Balancing Authority for modeling a pseudo-tie. If the Native Balancing Authority and Attaining Balancing Authority do not have this information, modeling data will be requested from the entity seeking to pseudo-tie the generating unit. This includes coordination of specific technical details for each pseudo-tie. Article 11.3 provides more detail on pseudo-tie requirements.

4.1.4 **Operations Planning Data**.

Purpose: Operations planning data, which defines how a system was planned and built, is basic information needed to coordinate planning and operations between the Parties.

Requirements: Upon the written request of a Party, the other Party shall provide the information specified in Sections 4.1.4.1 through 4.1.4.11 inclusive, or any components thereof. Each request shall specify the information sought and the requested frequency upon which it would be provided. A Party receiving a request under this Section shall provide the information promptly to the extent the information is available to the Party. Operations planning data is not generally considered Confidential Information but to the extent any of this data overlaps previously defined operating data in Section 4.1.2, it is considered Confidential Information.

4.1.4.1 Flowgates.

- (a) Flowgate definitions including seasonal TFC, TRM, CBM, and a & b multipliers;
- (b) Flowgates to be added on demand;
- (c) List of Coordinated and Reciprocal Coordinated Flowgates;
- (d) List of Flowgates to recognize when selling point-to-point service (if different than list of Coordinated Flowgates); and
- (e) Requirements under Section 5.1.7.

4.1.4.2 Transmission Service Reservations.

- (a) Daily list of all reservations, hourly increment of new reservations;
- (b) List of reservations to exclude;
- (c) Requirements under Sections 5.1.4 and 5.1.5; and
- (d) List of long-term firm reservations not subject to rollover rights.

4.1.4.3 Available Flowgate Capability Data.

Each Party will meet a minimum periodicity for calculating and making available AFCs to each other. The minimum periodicity depends on the service being offered. Each Party will provide the following AFC data to the other Party:

- (a) Hourly for first seven (7) days posted at a minimum, once per hour;
- (b) Daily for days eight (8) through thirty-one (31), posted at a minimum, once per day; and
- (c) Monthly for months two (2) through eighteen (18), posted at a minimum, twice per month.

4.1.4.4 Load Forecast.

- (a) Hourly for next seven (7) days, daily for days eight (8) through thirty-one (31), and monthly for months two (2) through eighteen (18), submitted once a day;
- (b) Identify the origin of the forecast (*e.g.*, identity of RTO, RC, BA, etc.);
- (c) Indicate whether this forecast includes transmission system losses, and if it does, indicate what the percent losses are;
- (d) Identify non-conforming loads;
- (e) Indicate how municipal entities, cooperatives and other entity loads are treated. Indicate whether they are included in the forecast. If so, indicate the total load or net load after removing other entity generation; and
- (f) Requirements under Section 5.1.6.

4.1.4.5 Generator Data.

- (a) Unit owner, bus location in model;
- (b) Seasonal ratings, PMIN, PMAX, QMIN, QMAX;
- (c) Station auxiliaries to extent gross generation has been reported; and
- (d) Regulated bus, target voltage and actual voltage.

4.1.4.6 Designated Network Resources.

- (a) Network Integration Transmission Service Specifications;
- (b) Designated Network Resource information; and

- (c) To the extent that Designated Network Resources operate between the markets administered by the Parties:
 - (i) Indication of treatment as pseudo tie or dynamic/static schedules;
 - (ii) Rules for sharing output between joint owners; and
 - (iii) Transmission arrangements.

4.1.4.7 BAA Net Interchange from Reservations and Tags.

- (a) Any grandfathered agreements that do not appear in OASIS; and
- (b) If tags and reservations can not be used to develop BAA net interchange, then provide hourly unit commitment information for all generators in the BAA.

4.1.4.8 Dynamic Schedules.

- (a) List of dynamic schedules;
- (b) Identification of the dynamic schedules are being used to move load between the Parties' respective RC Areas;
- (c) Identification of marginal generation zones; and
- (d) Requirements under Section 5.1.11.

4.1.4.9 Controllable Devices.

- (a) Phase shifters;
- (b) Market-dispatchable demand response resources greater than 50 MW.
- (c) DC lines; and
- (c) Back-to-back AC/DC converters.

4.1.4.10 Generation and Transmission Outages.

- (a) Generation Outages that are planned or forecast, as soon as practicable, including all data specified in Section 5.1.1;
- (b) Transmission Outages that are planned or forecast, as soon as practicable, including all data specified in Section 5.1.3; and

(c) Notification of all forced outages of both generation and transmission resources, not to exceed 30 minutes after they are identified.

4.1.4.11 Exchange of Operating Data.

The Parties shall exchange such information as the Market Monitors of PJM and MISO may request, singly or jointly, in order to facilitate monitoring of markets in accordance with the Parties' respective FERC-approved market monitoring plans.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE IV - EXCHANGE OF INFORMATION AND DATA --> MISO-JOA 4.2 Access to Data to Verify Market Flow Calculatio

4.2 Access to Data to Verify Market Flow Calculations.

Each Party shall provide the other Party with data to enable the other Party independently to verify the results of the calculations that determine the market-to-market settlements under this Agreement. A Party supplying data shall retain that data for two years from the date of the settlement invoice to which the data relates, unless there is a legal or regulatory requirement for a longer retention period. The method of exchange and the type of information to be exchanged pursuant to this Section 4.2 shall be specified in writing and posted on the Parties' websites. The posted methodology shall provide that the Parties will cooperate to review the data and mutually identify or resolve errors and anomalies in the calculations that determine the market-to-market settlements. If one Party determines that it is required to self report a potential violation to the Commission's Office of Enforcement regarding its compliance with this Agreement, the reporting Party shall inform, and provide a copy of the self report to, the other Party. Any such report provided by one Party to the other shall be "confidential information" as defined in this Agreement.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE IV - EXCHANGE OF INFORMATION AND DATA --> MISO-JOA 4.3 Cost of Data and Information Exchange.

4.3 **Cost of Data and Information Exchange.**

Requirements: Each Party shall bear its own cost of providing information to the other Party pursuant to Section 4.1, except to the extent this provision is contrary to (a) any solution the FERC places into effect to the "hold harmless" issues the FERC identified in *Alliance Companies*, 100 FERC ¶ 61,137 (July 31, 2002); *on rehearing*, 103 FERC ¶ 61,274 (June 4, 2003), and related clarifying orders, the "Hold Harmless Issues," or (b) any agreement or agreements which include the following entities: Michigan and Wisconsin parties (as described in the FERC Order referenced above), Commonwealth Edison, and American Electric Power which the FERC accepts as a solution to the Hold Harmless Issues.

ARTICLE V AFC CALCULATIONS

5.1 AFC Protocols.

Purpose: The calculation of AFC is a forecast of transmission capability that may be available for use by transmission customers. Use of transmission capability in one system can impact the loadings, voltages and stability of neighboring systems. Because of this interrelationship, neighboring entities must exchange pertinent data for each entity to determine the AFC values for its own transmission system. The exchange of data related to calculation of AFC is necessary to assure reliable coordination, and also to permit either Party to determine if, due to lack of transmission capability, it must refuse a transmission reservation in order to avoid potential overloading of facilities.

As of the date of this Agreement, the Parties use the SDX System to exchange the planned status of generators rated greater than 50 MW, outages of all interconnections and other transmission facilities operated at greater than 100 kV, and peak load forecasts. This system has the capability to house hourly data for the next seven (7) days, daily data for the next thirty one (31) days, weekly data for the next month, and monthly data for the next three years. Continued use of this tool, and associated commitments under this Agreement, will assure the Parties' ability to make reliable calculations efficiently.

5.1.1 Generation Outage Schedules.

Requirements: Each Party shall provide the other with projected status of generation availability over the next twelve (12) months or more if available. The Parties will update this data no less than once daily for the full posting horizon and more often as required by system conditions. The data will include complete generation maintenance schedules and the most current available generator availability data, such that each Party is aware of each "return date" of a generator from a scheduled or forced outage. At all times, this exchange will include the status of generators rated greater than 50 MW. If the status of a particular generator of equal to or less than 50 MW is used within a Party's AFC calculation, the status of this unit shall also be supplied.

5.1.2 Generation Dispatch Order.

Purpose: Dispatch information combined with unit availability information permits each Party to develop a reasonably accurate dispatch for any modeled condition. This methodology is more advantageous than scaling all available generation to meet generation commitments within an area and then increasing all generation uniformly to model an export, or uniformly decreasing all generation to model an import. While excluding nuclear generation or hydro units from this scaling would provide some level of refinement, this approach is inadequate to identify transmission constraints and determine rational AFC values.

The exchange of typical generation dispatch order or generation participation factors of all units on a BAA basis and other data under this Agreement will permit each Party to appropriately model future transmission system conditions.

Requirements: As necessary to permit a Party to develop a reasonably accurate dispatch for any modeled condition, each Party will provide the other Party with a typical generation dispatch order or the generation participation factors of all units on an affected BAA basis. The generation dispatch order will be updated as required by changes in the status of the unit; however, a new generation dispatch order need not be provided more often than prior to each peak load season.

5.1.3 Transmission Outage Schedules.

Requirements: Each Party will provide the other Party with the projected status of transmission outage schedules above 100 kV over the next twelve (12) months or more if available. This data shall be updated no less than once daily for the full posting horizon and more often as required by system conditions. The data will include current, accurate and complete transmission facility maintenance schedules, including the "outage date" and "return date" of a transmission facility from a scheduled or forced outage.

5.1.4 Transmission Interchange Schedules/Net Scheduled Interchange.

Purpose: Because interchange schedules impact the short-term use of the transmission system, exchange of schedule data is necessary to determine the remaining capacity of the transmission system as well as to determine the net impact of loop flow.

Requirements: Each Party will make available to the other its reservation and interchange schedules/NSI, as required to permit accurate calculation of AFC values. Due to the high volume of this data, the Parties shall either post this data to a mutually agreed upon site for downloading or utilize tag dump information by the other Party as required by its own process and timing requirements.

In order to capture the impacts of the pseudo-tied unit on Flowgates, neither MISO, nor PJM nor the entity seeking to pseudo-tie that unit shall tag or request to tag the scheduled energy flows from a pseudo-tied Generation Resource because information about-the pseudo-tie is included in the M2M congestion management procedure.

5.1.5 <u>Reservations</u>.

Purpose: Beyond the operating horizon, the impacts of existing transmission reservations are also necessary for the calculation of AFC for future time periods. Inasmuch as a transmission reservation is a right to use and not an obligation to use the transmission system, there is no certainty that any particular reservation will result in a corresponding interchange schedule. This is especially true considering that the pro forma OATT approved by the FERC allows firm service on a given path to be redirected as non-firm service on any other path. In addition, the ultimate transmission customer may not have, at a given time, purchased all transmission reservations on a particular source-to-sink path. A further complication is that the duration or firmness of the one portion of the reservation may not be the same as the remaining portion. Since prior to scheduling, it is difficult to associate reservations involving multiple Transmission Providers that may be used to complete a single transaction, double counting in the AFC determination process is a possibility. It is acknowledged that reservations respecting one Party are not required to be incorporated into transmission models developed by the other Party.

Requirements:

- (a) Each Party will make available to the other Party, upon a mutually agreed upon site, actual transmission service requests information for integration into each Party's AFC determination process.
- (b) Each Party will develop practices for modeling transmission service requests, including external requests, and netting practices for any allowance of counterflows created by reservations in electrically opposite directions. Each Party will provide the other Party with the procedures developed and implemented to model intra-party requests, requests on external parties, and reservation netting.
- (c) Each Party shall also create, maintain, and exchange a list of reservations from its OASIS that should not be considered in AFC calculations. Reasons for these exceptions include, for example, grandfathered agreements that grant access to more transmission than is necessary for the related generation capacity and unmatched intra-Party partial path reservations. If a Party does not include a reservation in its own evaluation, the reservation should be excluded in the other Party's analysis.
- (d) Each Party shall maintain a list of long-term firm reservations that are not subject to rollover rights and accordingly treat them in their process.

5.1.6 Load Data.

Requirements: The Parties will exchange forecasted peak load data for each period in accordance with NERC reliability standards and NAESB business practices (*e.g.*, daily, weekly, and monthly). Since, by definition, peak load values may only apply to one (1) hour of the period, additional assumptions must be made with respect to load level when not at peak load conditions. This is in accordance with the FERC's regulations at 18 C.F.R¹. § 37.6(b)(4)(iv). For the next seven (7) day horizon, the Parties shall either supply hourly load forecasts or they shall supply daily peak load forecasts with a load profile. All load forecasts will be provided on a BAA or zone basis by the applicable RTO, RC, BA, or other applicable entity, including total distribution forecast by zones.

¹ The Code of Federal Regulations (CFR) is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

5.1.7 Calculated Firm and Non-firm AFC.

Purpose: Data exchange is required to determine if a transmission service reservation (or interchange schedule) will impact Flowgates to an extent greater than the (firm or non-firm) AFC and procedures are necessary to assure that each Party respects the other Party's Flowgates as follows.

Requirements:

- (a) The Parties will exchange firm and non-firm AFC for all relevant Flowgates.
- (b) Each Party will accept or reject transmission service requests based upon projected loadings on its own Flowgates as well as on RCFs under Article VI.
- (c) Each Party will limit approvals of requests for transmission service between the Parties, including roll-over transmission service, so as to not exceed the lesser of the sum of the thermal or stability capabilities of the tie lines that interconnect the Parties, provided that firm transmission service customers retain the rollover rights and reservation priority granted to them under the applicable Party's OATT, and further provided that if explicitly stated in the applicable service agreement, a Party may limit rollover rights for new long-term firm service if there is not enough AFC to accommodate rollover rights beyond the initial term.

5.1.8 <u>Total Flowgate Capability (Flowgate Rating)</u>.

Requirements: The Parties will exchange (seasonal, normal and emergency) Total Flowgate Capability as well as all limiting conditions (thermal, voltage, or stability). The Parties will update this information in a timely manner as required by changes on the transmission system.

5.1.9 Identification of Flowgates.

Requirements: Each Party shall consider in its TFC and AFC determination process all Flowgates: (i) that may initiate a TLR event, (ii) that are significantly impacted by their own Party's transactions, or (iii) as mutually agreed between the Parties. A Party's transactions are deemed to significantly impact another Party's Flowgates if they have a response factor equal to or greater than the response factor cut-off used by the owning Party. The Parties in their AFC determination and transmission service processing efforts shall use the response factor cut-off that the owning/operating Party uses for its Flowgates.

5.1.10 Configuration/Facility Changes (for power system model updates).

Requirements:

- (a) A mechanism will be maintained between the Parties to ensure that all significant system changes of a neighbor are incorporated in each Party's AFC calculation model. Although this information and a host of very detailed data are included in the MMWG/ERAG cases, this data exchange mechanism will address the 'major' changes that should be included in the AFC calculation models in a more timely manner. This data exchange will occur no less often than prior to each peak load season.
- (b) In addition, the Parties agree to exchange AFC calculation models of their transmission systems as soon as mechanisms can be established to facilitate this exchange.

5.1.11 Dynamic Schedule Flows.

Requirements: Each Party agrees to provide the other Party with the actual amount and future projection of dynamic schedule flows. All dynamic schedule flows and tags will be submitted in accordance with NERC policy and procedures.

5.1.12 Coordination of Transmission Reliability Margin Values.

Requirements: Each Party shall make transmission capability available for reserve sharing by including the significant impacts of the other Party's generation outages in its TRM values. The Parties will coordinate and share the necessary information for the determination of these impacts as necessary.

ARTICLE VI RECIPROCAL COORDINATION OF FLOWGATES

6.1 Reciprocal Coordination of Flowgates Operating Protocols.

6.1.1 <u>Reciprocal Coordinated Flowgates</u>.

In order to coordinate congestion management proactively, each Party agrees to respect the other Party's determinations of AFC and calculations of firmness (firm, non-firm, network, non-firm hourly) for real-time operations applicable to the Party's Coordinated Flowgates. Additionally, each Party agrees to respect the allocations defined by the allocation process set forth in Section 6 of the Congestion Management Process.

6.1.2 <u>Coordination Process for Reciprocal Coordinated Flowgates.</u>

The Parties shall maintain the process and timing for exchanging their respective AFC calculations and Firm Flow calculations/allocations with respect to all RCFs. Further, the process will allocate Flowgate capability on a future-looking basis, including the allocation of Firm Capability for use in both internal dispatch and selling of transmission service. The Congestion Management Process sets forth the procedure for reciprocal coordination. For any controllable Flowgate, the historically determined Firm Flow on the Flowgate and any allocated rights to that Flowgate under this process are subject to the operating practices of the controllable device. The operating practices of the controllable device will be made available to MISO and PJM before a change is made. To the extent the controllable device is able to maintain the schedule across the controllable Flowgate, there are no parallel flows and a historical allocation based on parallel flows will not occur. In this instance, the use of the controllable Flowgate will be limited to entities that have arranged transmission service across the interface formed by the controllable device. To the extent the controllable device cannot maintain the schedule across the controllable Flowgate, there will be a historical allocation based on parallel flows.

6.1.3 <u>Real-Time Operations Process</u>.

The Parties' capabilities and real-time actions shall be governed by and in accordance with the Congestion Management Process.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE VI - RECIPROCAL COORDINATION OF FLOWGATES --> MISO-JOA 6.2 Costs Arising From Reciprocal Coordination of F

6.2 Costs Arising From Reciprocal Coordination of Flowgates.

In the event redispatch occurs in order to coordinate congestion management under Section 6.1 or subparts thereof, including redispatch necessary to respect the other Party's Flowgate, as set forth in Article XI, the Party responsible for the flow that required the redispatch shall bear the costs of the redispatch. Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE VI - RECIPROCAL COORDINATION OF FLOWGATES --> MISO-JOA 6.3 Transmission Capability for Reserve Sharing.

6.3 Transmission Capability for Reserve Sharing.

Each Party shall make transmission capability available for reserve sharing by either redispatching its Flowgates or holding TRM for generation outages in the other Party's system. The Party responsible for making transmission capability available for the reserve sharing obligation shall bear the costs of the redispatch to the extent the costs may be recovered under such Party's OATT.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE VI - RECIPROCAL COORDINATION OF FLOWGATES --> MISO-JOA 6.4 Maintaining Current Flowgate Models.

6.4 Maintaining Current Flowgate Models.

Each Party will maintain a detailed model of the other Party's system for operations and planning purposes. Each Party's model will be sufficiently detailed to properly honor all of that Party's Coordinated Flowgates. Furthermore, each Party will populate its model with credible data and will keep such models up-to-date.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE VI - RECIPROCAL COORDINATION OF FLOWGATES --> MISO-JOA 6.5 Sharing Contract Path Capacity.

6.5 Sharing Contract Path Capacity.

If the Parties have contract paths to the same entity, the combined contract path capacity will be made available for use by both Parties. This will not create new contract paths for either Party that did not previously exist. PJM will not be able to deal directly with companies with which it does not physically or contractually interconnect and MISO will not be able to deal directly with companies with which it does not physically or contractually interconnect and Companies or contractually interconnect.

ARTICLE VII COORDINATION OF OUTAGES

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE VII - COORDINATION OF OUTAGES --> MISO-JOA 7.1 Coordinating Outages Operating Protocols.

7.1 Coordinating Outages Operating Protocols.

The Parties have an interregional outage coordination process for coordinating transmission and generation Outages to ensure reliability. The Parties agree to the following with respect to transmission and generation Outage coordination.

7.1.1 Exchange of Transmission and Generation Outage Schedule Data.

Upon a Party's request, the projected status of generation and transmission availability will be communicated between the Parties, subject to data confidentiality agreements. All available information regardless of scheduled date will be shared. The Parties shall exchange the most current information on proposed Outage information and provide a timely response on potential impacts of proposed Outages.

The Parties agree that this information will be shared promptly upon its availability, but no less than daily and more often as required by system conditions. The Parties shall utilize a common format for the exchange of this information. The information includes the owning Party's facility name; proposed Outage start date and time; proposed facility return date and time; date and time when a response is needed from the impacted Party to modify the proposed schedule; and any other information that may be relevant to the reliability assessment.

Each Party will also provide information independently on approved and anticipated Outages formatted as required for the SDX System.

7.1.2 Evaluation and Coordination of Transmission and Generation Outages.

The Parties will utilize network applications to analyze planned critical facility maintenance to determine its effects on the reliability of the transmission system. Each Party's Outage analysis will consider the impact of its critical Outages on the other Party's system reliability, in addition to its own. The analysis will include, as a minimum, an evaluation of contingencies, including potential real or reactive power concerns, voltage analysis and real and reactive power reserve analysis.

On a weekly basis, daily if requested by one of the Parties, the operations staff of each Party shall jointly discuss any Outages to identify potential impacts. These discussions should include an indication of either concurrence with the Outage or identify significant impact due to the Outage as scheduled. Neither Party has the authority to cancel the other Party's Outage (except transmission facilities interconnecting the two Parties' transmission systems). However, the Parties will work together to resolve any identified Outage conflicts. Consideration will be given to Outage submittal times and Outage criticality when addressing Outage conflicts. If Outage analysis indicates unacceptable system conditions, the Parties will work with one another and the facility owner(s), as necessary, to provide remedial steps to be taken in advance of proposed maintenance. If an operating procedure cannot be developed and a change to the proposed schedule is necessary based on significant impact, the Parties shall discuss the facts involved and make every effort to effect the requested schedule change. If this change cannot be accommodated, the Party with the Outage shall notify the impacted Party. A request to adjust a proposed Outage date must include, identification of the facility(s) overloaded, and identify a similar time frame of more appropriate dates/times for the Outage.

The Parties will notify each other of emergency maintenance and forced outages as soon as possible after these conditions are known (not to exceed thirty (30) minutes). The Parties will evaluate the impact of emergency and forced outages on the Parties' systems and work with one another to develop remedial steps as necessary.

Outage schedule changes, both before or after the work has started, may require additional review. Each Party will consider the impact of these changes on the other Party's system reliability, in addition to its own. The Parties will contact each other as soon as possible if these changes result in unacceptable system conditions and will work with one another to develop remedial steps as necessary.

ARTICLE VIII PRINCIPLES CONCERNING JOINT OPERATIONS IN EMERGENCIES

8.1 Emergency Operating Principles.

Purpose: Joint emergency principles are essential due to the highly dependent nature of facilities under different authorities. The Parties are committed to reliable operation of the transmission system under normal conditions, and will work closely together during emergency situations that place the stability of the transmission system in jeopardy.

Requirements:

8.1.1

In the event an emergency condition is declared in accordance with a Party's published operating protocols, the Parties agree to provide emergency assistance to each other and to facilitate obtaining emergency assistance from a third party. The Parties will coordinate respective actions to provide immediate relief until the declaring Party eliminates the declaration of emergency. The Parties will notify each other of emergency maintenance and forced outages that would have a significant impact on the other Party as soon as possible after the conditions are known. The Parties will evaluate the impact of emergency and forced outages on the Parties' systems and coordinate to develop remedial steps as necessary or appropriate. If the emergency response allows for coordinating with the other Party before action must be taken, the normal RTO to RTO request for action will be followed. The Parties will conduct joint annual emergency drills and will ensure that all operating staff are trained and certified, if required, and will practice the joint emergency drills that include criteria for declaring an emergency, prioritized action plans, staffing and responsibilities, and communications.

8.1.2

In furtherance of maintaining system stability and providing prompt response to problems, the Parties agree that in situations where there is an actual IROL violation and/or the system is on the verge of imminent collapse, and when there exists an applicable emergency principles or operating guide, each Party will allow the affected Party to take immediate steps by modifying the normal RTO to RTO request procedure so that both Parties and affected operating entities can communicate and coordinate simultaneously via telephone conference call or other appropriate means. Subsequent to such anomalous operations, the requesting Party will prepare a lessons learned report and provide copies thereof to the other Party and affected operating entities. The purpose of the lesson learned report is to assist in improving operations so that future operations will be more proactive; thereby, avoiding such abnormal communications/procedures.

8.1.3

The Parties will work together and with the BAs with respect to which they serve as RTO or RC to jointly develop and commit to additional emergency principles and operating guides as the need for such procedures arises. Existing emergency principles and operating guides shall be reviewed annually. The Parties will make readily available to local operating entities, including BA operators, the current RTO restoration plans including the information contained therein concerning the black start plans of interconnecting entities, subject to the procedures set forth in the then current business practices of the Parties, including appropriate security and confidentiality requirements.
8.1.4

Transmission System Emergencies may be implemented when, in the judgment of either Party, the system is in an emergency condition that is characterized by the potential, either imminently or for the next contingency, for system instability or cascading, or for equipment loading or voltages significantly beyond applicable operating limits, such that stability of the system cannot be assured, or to prevent a condition or situation that in the judgment of a Party is imminently likely to endanger life or property. In the event that either it becomes necessary for either Party to declare a Transmission System Emergency for an area that is in close electrical proximity to both of the Parties' RC Areas, both Parties will declare a Transmission System Emergency or redispatch without declaring a Transmission System Emergency, and take action(s) in kind to address the situation that prompted the Transmission System Emergency consistent with safe operating mode. These actions may include:

- (a) Curtailment of equivalent amounts of firm point-to-point transactions within both Parties;
- (b) Redispatching of generation within both Parties; and
- (c) Load shedding within both Parties.

8.1.5

In situations where an actual IROL violation exists, or for the next contingency would exist, and the transmission system is currently, or for the next contingency would be, on the verge of imminent collapse, and there is not an existing emergency principle or operating guide, each Party will receive, and subject to the next two sentences of this Section implement, the instruction of the affected Party, communicate the instruction to the affected entity within its own boundary, or utilize telephone conference call capabilities or other appropriate means of communication to allow simultaneous coordination/communication between the Parties and the affected entity. All occurrences of this kind may be reviewed by either or both Parties after the fact, but the instruction of the affected Party shall be implemented when issued, except a Party may delay implementation in instances where a Party concludes that the requested action will result in a more serious condition on the transmission system, or the requested action is imminently likely to endanger life or property. Financial considerations shall have no bearing on actions taken to prevent the collapse of the transmission system.

8.1.6

In a situation where an SOL violation exists within either Party's RC Area, or for the next contingency would exist, the Parties will work together as necessary, following good utility practices, and take action in kind as required to address the situation.

8.1.7

In its capacity as RC with respect to certain BAs (as applicable), each Party has the responsibility and authority to coordinate with the other Party and, as may be provided under arrangements other than this Agreement, direct emergency action on the part of generation or transmission to protect the reliability of the network. Each Party shall

exercise such authority in accord with good utility practice as required to resolve emergency conditions in the other Party's RC Area of which it is aware and, in conjunction with its stakeholder processes, will develop detailed emergency operating procedures.

8.1.7.1 Power System Restoration.

Effective procedures for restoration of the network require coordination and communication at all levels of the Parties' organizations and with their membership. During power system restoration, the Parties will coordinate their actions with each other, as well as with other RTOs and operating entities in order to restore the transmission system as safely and efficiently as possible. In order to enhance the effectiveness of actual restoration operations between the Parties, the Parties will conduct annual coordinated restoration drills. These drills will stress cooperation and communication so that both Parties are positioned to better assist each other in an actual restoration.

8.1.7.2 Joint Voltage Stability Operating Protocol.

Voltage stability or collapse problems have the potential to cause cascading outages and therefore must be closely coordinated to maintain reliable operations. The Parties will coordinate their operations in accordance with good utility practice in order to maintain stable voltage profiles throughout their respective RC Areas. The Parties will coordinate their established daily voltage/reactive management plans. This coordination will serve to assure an adequate static and dynamic reactive supply under a credible range of system dispatch patterns across both Parties' systems and will assure the plans are complementary.

8.1.7.3 Operating the Most Conservative Result.

When any one Party identifies an overload/emergency situation that may impact the other Party's system and the other Party's results/systems do not observe a similar situation, both Parties will operate to the most conservative result until the Parties can identify the reasons for these differences(s).

8.1.8 Emergency Plans.

Each Party agrees to annually review and update its emergency energy plans. Each Party agrees to provide copies of its emergency energy plans to the other Party when the emergency plans are updated. Each Party agrees to coordinate their emergency energy plans with the other Party. The Parties recognize that part of this coordination is already established in this agreement as identified below.

8.1.8.1 Emergency Plan Coordination.

Each Party is responsible for overall Emergency Operations planning and coordination of such plans within its own BA. Each Party will include its affected member systems within its respective area into the development process of the overall normal and emergency operating procedures. Each Party agrees to coordinate its load shedding plans with the other Party and other adjacent NERC TOPs and BAs.

8.1.9 <u>Emergency Capacity or Energy</u>.

A Party may request emergency assistance on the terms set forth in the Emergency Energy Transactions document. Each Party agrees to notify the other Party whenever it is currently experiencing or is projected to experience an energy or capacity emergency. Parties shall establish procedures for requesting and supplying emergency energy.

ARTICLE IX COORDINATED REGIONAL TRANSMISSION EXPANSION PLANNING

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE IX - COORDINATED REGIONAL TRANSMISSION EXPA --> MISO-JOA 9.1 Administration; Committees.

9.1 Administration; Committees.

9.1.1 Joint RTO Planning Committee.

The ISC shall form, as a subcommittee, a Joint RTO Planning Committee (JRPC), comprised of representatives of the Parties' respective staffs in numbers and functions to be identified from time to time. Each Party shall have the right, every other year, to designate a Chairman of the JRPC to serve a one-year calendar term. The ISC shall designate the first Chairman. The Chairman shall be responsible for the scheduling of meetings, the preparation of agendas for meetings, and the production of minutes of meetings. The JRPC shall coordinate the coordinated system planning under this Agreement. For the purpose of coordinated system planning, the JRPC shall meet no less than twice per year. The JRPC may meet more frequently during the development of a Coordinated System Plan as determined to be necessary by the Parties.

9.1.1.1 JRPC Responsibilities

The JRPC is the decision making body for coordinated system planning. The Interregional Planning Stakeholder Advisory Committee (IPSAC) and other stakeholder groups may provide input to the JRPC.

Responsibilities of the JRPC include the following:

- (a) On an annual basis the JRPC shall conduct a review of identified transmission issues in accordance with section 9.3.7.2.a of this Agreement;
- (b) The JRPC, with input from the IPSAC, shall determine if a Coordinated System Plan study should be performed. If yes, such study shall be performed in accordance with section 9.3.7.2.b.
- (c) Prepare and document detailed procedures for the development of power system analysis models. At a minimum, and unless otherwise agreed to by the Parties, the JRPC shall develop common power system analysis models to perform coordinated system planning, as well as models for power flow analyses, short circuit analyses, and stability analyses. For studies of interconnections in close electrical proximity at the boundaries between the systems of the Parties, the JRPC will direct the performance of a detailed review of the appropriateness of applicable power system models.
- (d) Coordinate all planning activities under this Article IX, including the exchange of data.
- (e) Support the review by any federal or provincial agency of elements of the Coordinated System Plan.

- (f) Support the review by multi-state entities to facilitate the addition of interstate transmission facilities.
- (g) Establish working groups as necessary to provide adequate review and development of the regional plans.
- (h) Establish a schedule for the rotation of responsibility for data management, coordination of stakeholder meetings, coordination of analysis activities, report preparation, and other activities.
- 9.1.1.2 Participating in Multi-Party Studies The JRPC may combine with or participate in similarly established joint planning committees amongst multiple entities engaging in coordinated planning studies under tariff provisions or established under other joint agreements to which a Party is a signatory, for the purpose of providing for broader inter-regional planning coordination.
- 9.1.1.3 Coordinated System Planning Website Each Party shall host its own website for communication of information related to interregional transmission coordination procedures. Under its direction, the JRPC shall coordinate with the Parties to ensure that all information and documents posted on each Party's respective website is accurate and consistent. Each Party's website shall contain, at a minimum, the following information:
 - (a) Link to this Joint Operating Agreement
 - (b) Notice of scheduled IPSAC meetings
 - (c) Links to materials for IPSAC meetings
 - (d) Documents relating to Coordinated System Plan studies

9.1.2 Interregional Planning Stakeholder Advisory Committee.

The Parties shall form an IPSAC, in which participation is open to all stakeholders. The IPSAC shall facilitate stakeholder review and input into coordinated system planning with respect to the development of the Coordinated System Plan. IPSAC meetings shall be facilitated by the JRPC.

For the purpose of coordinated system planning, the IPSAC shall meet no less than once per year. The IPSAC may meet more frequently during the development of a Coordinated System Plan study as determined to be necessary by the Parties. The JRPC shall meet annually with the IPSAC to review identified transmission issues and provide input on whether a Coordinated System Plan study should be performed. IPSAC meetings shall be on a mutually agreed to date determined by the JRPC. The IPSAC will provide input to the JRPC on whether a Coordinated System Plan study should be performed pursuant to Section 9.3.7.2.a. If it is determined by the JRPC that a study should be performed, the IPSAC will provide input to the JRPC during the performance of the Coordinated System Plan study pursuant to Section 9.3.7.2.b.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE IX - COORDINATED REGIONAL TRANSMISSION EXPA --> MISO-JOA 9.2 Data and Information Exchange.

9.2 Data and Information Exchange.

9.2.1 Annual Data and Information Exchange Requirement

In support of interregional planning coordination, each Party shall provide the other with the following data and information on an annual basis and will follow the stipulations for such exchange as noted below.

- (a) Power flow models for projected system conditions for the planning horizon (up to the next ten (10) years) that include planned generation development and retirements, planned transmission facilities and seasonal load projections.
- (b) System stability models with detailed dynamic modeling of generators and other active elements.
- (c) Production cost models for projected system conditions for the planning horizon that include generation and load forecasts and planned transmission facilities.
- (d) Assumptions used in development of above power flow, stability and production cost models.
- (e) Contingency lists for use in power flow, stability, and production cost analyses.

Models provided will be consistent with those used in the respective Party's planning processes, including the processes of the NERC Transmission Planners of the Parties as may be necessary for the reviews performed under Section 9.3.5.2. Formats for the exchange of data will be agreed upon by the Parties from time to time. Parties can provide the best available information and will not be required to develop unique models to meet the requirements of this Agreement. Data compiled through other multi-regional modeling efforts can be used to meet the data exchange requirements of this Agreement as agreed to in writing by both Parties. This annual data exchange will be completed during the first quarter of the calendar year, unless Parties agree in writing to a different timeline.

9.2.2 Data and Information Exchange upon Request

In addition to the data and information specified in Section 9.2.1, each Party shall provide the other with the following data and information upon request. Unless otherwise indicated, such data and information shall be provided as requested by either Party, as available, within 30 calendar days from the date of such request or on a mutually agreed to schedule.

- (a) Any updates to data exchanged in accordance with Section 9.2.1.
- (b) Power flow models and assumptions needed for review of a Parties NERC Transmission Planner proposed plans pursuant to Section 9.3.5.2. Such models and assumptions are those that produce the Bulk Electric System needs of the Transmission Planners in the MISO and PJM regions driving reliability, economic transmission enhancement or expansion, public policy, or operational performance upgrades.

- (c) Short-circuit models for transmission systems that are relevant to the coordination of planning between the two Parties.
- (d) The regional plan document produced by the Party and any long-term or shortterm reliability assessment documents produced by the Party, the timing of each planned enhancement, and estimated in-service dates.
- (e) The status of expansion studies, such that each Party has knowledge that a commitment has been made to a system enhancement as a result of any such studies.
- (f) Identification and status of interconnection and long-term firm transmission service requests that have been received, including associated studies.
- (g) Transmission system maps in electronic or hard copy format for the Party's bulk transmission system and lower voltage transmission system maps that are relevant to the coordination of planning between the two Parties.
- (h) Such other data and information as is needed for each Party to plan its own system accurately and reliably and to assess the impact of conditions existing on the system of the other Party.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE IX - COORDINATED REGIONAL TRANSMISSION EXPA --> MISO-JOA 9.3 Coordinated System Planning

9.3 Coordinated System Planning.

The primary purpose of coordinated transmission planning and development of the Coordinated System Plan is to ensure that coordinated analyses are performed to identify expansions or enhancements to transmission system capability needed to maintain reliability, improve operational performance, enhance the competitiveness of electricity markets, or promote public policy. The Parties will conduct such coordinated planning as set forth in this Section 9.3 and subsections thereof.

9.3.1 Single Party Planning.

Each Party shall engage in such transmission planning activities, including expansion plans, system impact studies, and generator interconnection studies, as are necessary to fulfill its obligations under its OATT or as it otherwise shall deem appropriate. Such planning shall conform to applicable reliability requirements of the Party, NERC, applicable regional reliability councils, or any successor organizations, and any and all applicable requirements of federal, state, or provincial laws or regulatory authorities. Each Party agrees to prepare a regional transmission planning report that documents its annual regional plan prepared according to the procedures, methodologies, and business rules documented by the region. The Parties further agree to share, on an ongoing basis, information that arises in the performance of such single party planning activities as is necessary or appropriate for effective coordination between the Parties, including, in addition to the information sharing requirements of Sections 9.2 and 9.3, information on requests received from generation resources that plan on permanently retiring or suspending operation consistent with the timelines of each Party's OATT for such studies, and the identification of proposed transmission system enhancements that may affect the Parties' respective systems.

9.3.2 Coordinated System Plan.

The Coordinated System Plan is the result of the coordination of the regional planning that is conducted under this Agreement. The Parties will coordinate any studies required to assure the reliable, efficient, and effective operation of the transmission system. Results of such coordinated studies will be included in the Coordinated System Plan as further described in Section 9.3.7. The Coordinated System Plan shall also include the results of ongoing analyses of requests for interconnection and ongoing analyses of requests for long-term firm transmission service. The Parties shall coordinate in the analyses of these ongoing service requests in accordance with Sections 9.3.3 and 9.3.4. The Coordinated System Plan shall be an integral part of the expansion plans of each Party. To the extent that the JRPC agrees to combine with or participate in similarly established joint planning committees amongst multiple planning entities engaging in coordinated planning studies as provided for under Section 9.1.1.2, the coordinated planning analyses of this Protocol may be integrated into any joint coordinated planning analyses engaged in by the multiple parties, provided that the requirements of the Coordinated System Plan are integrated into the scope of such joint coordinated planning analyses.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE IX - COORDINATED REGIONAL TRANSMISSION EXPA --> MISO-JOA 9.3 Coordinated System Planning

9.3.3 Analysis of Interconnection Requests.

In accordance with the procedures under which the Parties provide interconnection service, each Party will coordinate with the other the conduct of any studies required in determining the impact of a request for generator or merchant transmission interconnection. Results of such coordinated studies will be included in the impacts reported to the interconnection customers as appropriate. The process for coordination of interconnection studies and Network Upgrades is detailed below:

- (a) Consistent with the data exchange provisions of the Agreement, the Parties will exchange current modeling data as necessary for the study and coordination of interconnection requests. This will include the associated update of the other Party's relevant queue requests, contingency elements, monitoring elements data, and other data as may be required.
- (b) The coordinated interconnection studies will determine the potential impact on the direct connect system and on the impacted Party. The direct connect system will be responsible for communicating coordinated interconnection study results to the direct connect interconnection customer.
- (c) The queue position for MISO and PJM Interconnection Requests for purposes of affected system analysis performed by MISO and cost responsibility for the MISO identified system upgrades shall be established as follows:
 - (i) The Interconnection Requests included in the study having the earlier deadline will have the higher queue priority. The deadlines for each Party are:
 - a. The MISO Definitive Planning Phase ("DPP") cycle application deadline per the MISO OATT.
 - b. The PJM System Impact Study start date per the PJM OATT.
 - (ii) Interconnection Requests in MISO and PJM will not be considered to have equal queue priority. In the event that the deadline established under subsection (c)(i)(a) falls on the same date as the study start date established in (c)(i)(b), queue priority for such Interconnection Requests shall be established based on each RTO's respective anticipated System Impact Study start date, with the earlier start date having the higher queue priority.
- (d) The queue position assigned to PJM and MISO Interconnection Requests for purposes of affected system analysis performed by PJM and cost responsibility assignments for PJM identified system upgrades shall be established as follows:
 - (i) For Interconnection Requests submitted to PJM under PJM's OATT, the Interconnection Customer must submit a complete and fully executed Generation Interconnection Feasibility Study Agreement.

The Interconnection Customer shall be assigned a priority, or Queue Position, based on the date and time all required information and requisite deposits are received in accordance with the PJM OATT, Part VI.

- (ii) For Interconnection Requests submitted through MISO's Generator Interconnection Procedures under the MISO OATT, the Interconnection Customer shall be assigned a queue priority based on the DPP Phase II Completion Date compared to the PJM System Impact Study deadline. The queue priority for Interconnection Requests in the same MISO DPP cycle will be based on alphanumeric ordering of the Interconnection Request's project number.
- (e) The Parties will coordinate and mutually agree on the nature of studies to be performed to test the impacts of the interconnection on the potentially impacted Party.
 - (i) The transmission reinforcement and the study criteria used in the coordinated interconnection studies will conform to and incorporate provisions as outlined in the PJM and MISO Business Practices Manuals and the Parties' respective Tariffs.
 - (ii) The PJM and PJM transmission owner study requirements, reinforcement criteria and cost allocation rules will apply to studies performed to determine impacts on the PJM transmission system when PJM evaluates the impact of MISO generation on PJM transmission facilities.
 - (iii) The MISO and MISO transmission owner study requirements, reinforcement criteria and cost allocation rules will apply to studies performed to determine impacts on the MISO transmission system when MISO evaluates the impact of PJM generation on MISO transmission facilities.
 - (iv) For all tie lines between MISO and PJM, the reinforcement criteria and cost allocation rules will be applied based on which region identified the violation.
 - (v) The identification of all impacts on the Parties' transmission systems shall include a description of the required system reinforcement(s), an estimated planning level cost and construction schedule estimates of the system reinforcements.
 - (vi) If the Parties cannot mutually agree on the nature of the studies to be performed they can resolve the differences through the dispute resolution procedures documented in Article XIV of this Agreement. The Parties will strive to minimize the costs associated with the coordinated study process.

- (vii) During the course of affected system studies, MISO will sink the output of a PJM interconnection request in the same area or subregion, if applicable, as PJM and PJM will sink the output of a MISO interconnection request in the same area or subregion, if applicable, as MISO.
- (f) The affected system study for PJM Interconnection Requests will be coordinated as follows:
 - (i) During the course of its interconnection feasibility studies, PJM shall monitor the MISO transmission system and provide to MISO the draft results of the potential impacts to the MISO transmission system. This monitoring will include an examination of the potential for projects to impact the MISO system by determining whether the project under study has $a \ge 3$ percent distribution factor on MISO facilities that operate below 500 kV or ≥ 10 percent distribution factor on MISO facilities that operate at or above 500 kV under system intact conditions.
 - (ii) Following issuance of the PJM Feasibility Study report and after the Interconnection Customer executes the PJM System Impact Study Agreement, PJM shall forward to MISO, at a minimum of twice per year (March 15 and September 15), information of all Interconnection Requests that are entering the System Impact Study phase, necessary for MISO and the MISO transmission owners to study the impact of the PJM Interconnection Request(s) on the MISO transmission system. MISO and the MISO transmission owners shall study the impact(s) of the PJM Interconnection Request(s) on the MISO transmission system and provide draft results to PJM by:
 - a. February 1 for PJM Interconnection Request(s) provided to MISO on or before September 15 of the previous year; and
 - b. August 1 for PJM Interconnection Request(s) provided to MISO on or before March 15 of the same year.
 - (iii) During the course of MISO's affected system interconnection study for PJM interconnection projects, MISO shall apply Energy Resource Interconnection Service (ERIS) criteria to all of PJM's Interconnection Request(s). Detailed information about the modeling process and assumptions used by MISO for such analysis when MISO is the affected system are located in MISO's Generation Interconnection Business Practices Manual, BPM-015 at section 6.
 - (iv) During the determination of reinforcements for an Interconnection Request that are required to mitigate MISO constraint(s), PJM and

MISO may identify other planned non-MISO reinforcement(s) that may alleviate such constraint(s) inside the MISO region. Under such circumstances, any PJM interconnection project relying on those reinforcement(s) shall have limited injection rights until those reinforcement(s) are placed into service. MISO shall determine the necessary injection limits associated with the PJM Interconnection Request that will be implemented in Real Time until the necessary upgrades identified through MISO's affected system analysis are in service.

- (v) The results received from MISO, including any required transmission system reinforcements, shall be included in the PJM System Impact Study or Facilities Study report consistent with the PJM OATT.
- (g) The affected system study for MISO Interconnection Requests will be coordinated as follows:
 - (i) After completion of DPP cycle application deadline and at least thirty (30) days prior to the commencement of the DPP Phase I, MISO shall perform screening analysis to monitor the PJM transmission system and provide to PJM the draft results of the potential impacts to the PJM transmission system. This monitoring will include an examination of the potential projects to impact the PJM system through determination if the project under study has $a \ge 3$ percent distribution factor or ≥ 5 MW impact or ≥ 1 percent of facility rating on any PJM facilities under normal and contingency conditions.
 - (ii) No later than five (5) Business Days after the commencement of the MISO DPP Phase I study, MISO shall forward to PJM information necessary for PJM and the PJM transmission owners to study the impact of the MISO Interconnection Request(s), that entered DPP Phase I on the PJM transmission system. PJM and the PJM transmission owners may study the impact of the MISO Interconnection Request(s) on the PJM transmission system and provide any available preliminary results to MISO within 100 days following commencement of DPP Phase I.
 - (iii) Prior to commencing the MISO DPP Phase II study, MISO shall forward to PJM the latest available information necessary for PJM and the PJM transmission owners to study the impact of the MISO Interconnection Request(s) included in such study on the PJM transmission system. PJM and the PJM transmission owners shall study the impact of the MISO Interconnection Request(s) on the PJM transmission system and provide the study results to MISO no later than 30 days prior to the completion of DPP Phase II.

- (iv) Prior to commencing the MISO DPP Phase III study, MISO shall forward to PJM the latest available information necessary for PJM and the PJM transmission owners to study the impact of the MISO Interconnection Request(s) on the PJM transmission system. PJM and the PJM transmission owners may study the impact of the MISO Interconnection Request(s) on the PJM transmission system and provide the study results to MISO no later than 30 days prior to the completion of DPP Phase III.
- (v) During the course of PJM's affected system interconnection study for MISO interconnection projects, PJM shall model all MISO interconnection projects that have requested Network Resource Interconnection Service (NRIS) under the MISO OATT as a Capacity Resource under the PJM OATT and all MISO interconnection projects that have requested ERIS under the MISO OATT as an Energy Resource under the PJM OATT. All projects will be modeled and studied using the criteria and methodology described in PJM Manual 14B, section 2, and further supplemented by requirements in PJM Manual 14A, section 4. These sections detail the processes and modeling used by PJM for all its planning analyses, including affected system studies.
- (vi) The results received from PJM, including any required transmission system reinforcements, shall be included in the MISO System Impact Study report.
- (h) During the determination of reinforcements for an Interconnection Request that are required to mitigate PJM constraint(s), PJM and MISO may identify other planned non-PJM reinforcement(s) that may alleviate a constraint inside the PJM region. Under such circumstances, any MISO interconnection project relying on those reinforcement(s) shall have limited injection rights until those reinforcement(s) are placed into service. PJM shall determine the necessary injection limits associated with the MISO Interconnection Request that will be implemented in Real Time until the necessary upgrades identified through PJM's affected system analysis are in-service.
- (i) If the coordinated interconnection study identifies constraints that require infrastructure additions on the impacted system to mitigate them, then the potentially impacted Party may perform its own analysis, in conjunction with the direct connect Party's Interconnection Studies. The interconnection customer whose project requires mitigation of constraint(s) found on an impacted Party's system shall enter into the appropriate Facilities Study agreement as required under the impacted Party's OATT.
- (j) The direct connect system will collect from the interconnection customer the costs incurred by the potentially impacted Party associated with the

performance of such studies and forward collected amounts to the potentially impacted Party.

- (k) If the results of the coordinated study process indicate that Network Upgrades are required in accordance with procedures, guidelines, criteria, or standards applicable to the potentially impacted system, the direct connect system will identify the need for such Network Upgrades in the appropriate study report prepared for the interconnection customer.
- Requirements for construction of such Network Upgrades will be under the terms of the applicable OATT, agreement among owners of transmission facilities subject to the control of the potentially impacted Party and consistent with applicable federal, state or provincial regulatory policy.
- (m) The Interconnection Customer whose project requires mitigation of constraint(s) found on an impacted Party's system shall enter into the appropriate Facilities Study Agreement as required under the impacted Party's Tariff.
- (n) In the event that Network Upgrades are required on the potentially impacted Party's system, then interconnection service will commence on a schedule mutually agreed upon among the Parties. This schedule will include milestones with respect to the Network Upgrade construction and the amount of service that can commence after each milestone.
- (o) Each Party will maintain a separate interconnection queue. The Parties will maintain a composite listing of interconnection requests for all interconnection projects that have been identified as potentially impacting the systems of both Parties. These lists will be presented annually to the IPSAC.

9.3.4 Analysis of Long-Term Firm Transmission Service Requests.

In accordance with applicable procedures under which the Parties provide longterm firm transmission service, the Parties will coordinate the conduct of any studies required to determine the impact of a request for such service. Results of such coordinated studies will be included in the impacts reported to the transmission service customers as appropriate. The process for the coordination of studies and Network Upgrades shall be documented in the respective Party's business practices manuals that are publicly available on each Party's website. Both Parties' manual language shall be coordinated so as to ensure the communication of requirements is consistent and includes the following:

- (a) The Parties will coordinate the calculation of AFC values associated with the service, based on contingencies on the systems of each Party that may be impacted by the granting of the service.
- (b) Upon the posting to the OASIS of a request for service, the Party receiving the request will coordinate the study of the request, pursuant to each

Party's business practices manuals, which will determine the potential impact on each Party's system. The Party receiving the request will be responsible for communicating coordinated study results to the customer requesting such service.

- (c) If the potentially impacted Party determines that its system may be materially impacted by the service, and the nature of the service is such that a request on the potentially impacted Party's OASIS is unnecessary (i.e., the potentially impacted Party is "off the path"), then the potentially impacted Party will contact the Party receiving the request and request participation in the applicable transmission service studies. The Parties will coordinate with respect to the nature of studies to be performed to test the impacts of the requested service on the potentially impacted Party, who will perform the studies. The Parties will strive to minimize the costs associated with the coordinated study process. The JRPC will develop screening procedures to assist in the identification of service requests that may impact systems of parties other than the system receiving the request.
- (d) Any coordinated studies will be performed in accordance with the mutually agreed upon study scope and timeline requirements developed by the Parties. If the Parties cannot mutually agree on the nature and timeline of the studies to be performed they can resolve the differences through the dispute resolution procedures documented in Article XIV of this Agreement.
- If constraints are identified during the coordinated study on the impacted (e) system, then the potentially impacted Party may perform its own analysis in conjunction with the studies performed by the Party that has received the request for service. The customer whose request for service requires mitigation of constraint(s) found on an impacted Party's system shall enter into the appropriate facilities study agreement as required under the impacted Party's OATT. During the Facilities Study, the potentially impacted Party will conduct its own Facilities Study as a part of the Party receiving the request's Facilities Study. The study cost estimates indicated in the study agreement between the Party receiving the request and the transmission service customer will reflect the costs and the associated roles of the study participants. The Party receiving the request will review the cost estimates submitted by all participants for reasonableness, based on expected level of participation and responsibilities in the study.
- (f) The Party receiving the request will collect from the transmission service customer and forward to the potentially impacted system the costs incurred by the potentially impacted systems associated with the performance of such studies.

- (g) If the results of a coordinated study indicate that Network Upgrades are required in accordance with procedures, guidelines, criteria, or standards applicable to the potentially impacted system, the Party receiving the request will identify the need for such Network Upgrades in the system impact study prepared for the transmission service customer.
- (h) Requirements for the construction of such Network Upgrades will be under the terms of the OATTs, agreement among owners of transmission facilities subject to the control of the potentially impacted Party and consistent with applicable federal, state, or provincial regulatory policy.
- (i) In the event that Network Upgrades are required on the potentially impacted Party's system, then transmission service will commence on a schedule mutually agreed upon among the Parties. This schedule will include milestones with respect to the Network Upgrade construction and the amount of service that can commence after each milestone.

9.3.5 <u>Analysis of Incremental Auction Revenue Rights Requests.</u>

The Parties will coordinate, as deemed appropriate,¹ the conduct of any studies in response to a request for Incremental Auction Revenue Rights ("Incremental ARRs") ("Incremental ARR Request") made under one Party's tariff to determine its impact on the other Party's system. Results of such coordinated studies will be included in the impacts reported to the customer requesting Incremental ARRs as appropriate. Coordination of studies and Network Upgrades will include the following:

- (a) The Parties will coordinate the base Firm Flow Entitlement values associated with the Coordinated Flowgates that may be impacted by the Incremental ARR Request.
- (b) Upon receipt of an Incremental ARR Request or the review of studies related to the evaluation of such request, the Party receiving the Incremental ARR Request will determine whether the other Party is potentially impacted. If the other Party is potentially impacted, the Party receiving the Incremental ARR Request will notify the other Party and convey the information provided in the request in addition to but not limited to the list of impacted constrained facilities.
- (c) During the System Impact Study, the potentially impacted Party may participate in the coordinated study by providing input to the studies to be performed by the Party receiving the Incremental ARR Request. The potentially impacted Party shall determine the Network Upgrades, if any, needed to mitigate constraints on identified impacted facilities. The Parties shall coordinate to ensure any proposed Network Upgrades maintain the reliability of each Party's transmission system.

- (d) Any coordinated System Impact Studies will be performed in accordance with the mutually agreed upon study timeline requirements developed by the Parties. If the Parties cannot mutually agree on the nature and timeline of the studies to be performed they can resolve the differences through the dispute resolution procedures documented in Article XIV of this Agreement in accordance with applicable tariff provisions.
- (e) During the Facilities Study, the potentially impacted Party may conduct its own Facilities Study as a part of Facilities Study being conducted by the Party that received the Incremental ARR request. The study cost estimates indicated in the Facility Study Agreement between the Party receiving the request and the Incremental ARR customer will reflect the costs and the associated roles of the study participants, including the potentially impacted Party. The Party receiving the request will review the cost estimates submitted by all participants for reasonableness, based on expected level of participation and responsibilities in the study.
- (f) The Party receiving the Incremental ARR Request shall collect from the Incremental ARR customer, and forward to the potentially impacted Party, the agreed upon payments associated with the performance of such studies.
- (g) If the results of the coordinated study indicate that Network Upgrades are required in accordance with procedures, guidelines, criteria, or standards applicable to the potentially impacted Party, the Party receiving the request will identify the need for such Network Upgrades in the System Impact Study prepared for the Incremental ARR customer.
- (h) The construction of such Network Upgrades will be subject to the terms of the potentially impacted Party's tariff, the agreement among owners transferring functional control of transmission facilities to the control of the potentially impacted Party, and applicable federal, state, or provincial regulatory policy.
- (i) In the event that Network Upgrades are required on the potentially impacted Party's system, the Incremental ARR will commence on a schedule mutually agreed upon among the Parties. This schedule will include milestones with respect to the Network Upgrade construction and the amount of service that can commence after each milestone.

¹ Infra (b).

9.3.6 Analysis of Generator Deactivations (retirements and suspensions).

- (a) The Party ("Noticed Party") receiving a new request from a generation owner to retire, deactivate, or mothball (or suspend operations as defined under the MISO Tariff) its generation unit will notify the other Party of such deactivation request no later than five (5) business days after receipt of the notice by the Noticed Party. The other Party ("Other Party") will determine if any study is required to evaluate potential impacts to its system due to the proposed generator deactivation in the Noticed Party's system. Any studies required due to a notice to deactivate (retire or suspend operations as defined under the MISO Tariff) will be performed under each Party's respective Tariff. Each Party's regional study results will be documented and provided to the other Party for informational purposes only.
- (b) Both Parties will share all information necessary to evaluate potential impacts to their respective systems due to the notice. Such coordination shall provide for:
 - (i) Exchange of current power flow modeling data as necessary for the study and coordination of generator deactivations (retirements and suspensions). This will include the associated update of the other Party's generator availability, contingency elements, monitoring elements data, and other data as may be required.
 - (ii) Coordination by the Parties to align the assumptions of any analyses during development of the scope of any required studies. The scope design will include, as appropriate, evaluation of the transmission system against the criteria applicable to each Party for such studies.
- (c) Following the exchange of information pursuant to section 9.3.6(b), the Other Party will conduct screening and evaluation of projects needed to mitigate identified impacts on its system. The Other Party will use reasonable efforts to perform an initial assessment and provide an indication of the impacts on its system to the Noticed Party within 65 days of receipt of the notice from the Noticed Party. The Other Party will provide a list of potential system reinforcements required on its system and estimated time for completion of those system reinforcements to the Noticed Party as soon as they are available.
- (d) Each Party will be responsible for any regional Network Upgrades or other mitigation required on their respective system as a result of a request to deactivate (retirement or suspension).

- (e) Any impact(s) on the Other Party's system identified in the analysis will not be used to determine the need to retain the generator requesting to deactivate.
- (f) The identification of Network Upgrades required for generator deactivation (retirement or suspension) in the Other Party's system may require coordination through the JRPC. The Parties will endeavor to make such information available to the JRPC in a timely manner following publication of information through the Parties' regional processes. Additional coordination, as may be needed, will be conducted pursuant to the Coordinated System Plan study process as mutually agreed to be the Parties in accordance with the provisions of Section 9.3.7.
 - (i) The JRPC will incorporate any needed regional upgrades that may be identified by the generator deactivation studies coordinated pursuant to this section 9.3.6 into the annual review processes of Section 9.3.7 for the purpose of determining if there is a more efficient or cost effective Interregional Reliability Project that may replace one or more of the identified regional Network Upgrades required for the generator deactivation.
 - (ii) The JRPC will consider the results of the deactivation analyses forwarded to the committee at the next scheduled JRPC meeting or within 30 days of receipt of the completed study information from both Parties. Depending on the timing of the receipt of the study information, the JRPC will determine the most appropriate process for including the regional deactivation results into the development of the Coordinated System Plan. Such process will include IPSAC review according to the Coordinated System Plan process of Section 9.3.7.

Throughout the interregional review process any confidentiality provisions of the Parties Tariff's will be respected. Critical identified Interregional Reliability Projects for which the need to begin development is urgent will be presented to the Parties' Boards for approval as soon as possible after identification through the Coordinated System Plan study process. Other identified Interregional Reliability Projects presented to the Parties' Boards for approval as his cycle does not delay the implementation of a necessary upgrade.

9.3.7 Development of the Coordinated System Plan.

9.3.7.1

Each Party agrees to assist in the preparation of a Coordinated System Plan applicable to the Parties' systems. Each Party's annual transmission planning reports will be incorporated into the Coordinated System Plan, however, neither Party shall have the right to veto any planning of the other Party nor shall either Party have the right, under this Section, to obtain financial compensation due to the impact of another Party's plans or additions. The Coordinated System Plan will be finalized only after the IPSAC has had an opportunity to review it and respond. The Coordinated System Plan shall:

- (a) Integrate the Parties' respective transmission expansion plans, including any market-based additions to system infrastructure (such as generation, market participant funded, or merchant transmission projects) and Network Upgrades identified jointly by the Parties, together with alternatives to Network Upgrades that were considered;
- (b) Set forth actions to resolve any impacts that may result across the seams between the Parties' systems due to the integration described in the preceding part (a); and
- (c) Describe results of the joint transmission analysis for the combined transmission systems, as well as explanations, as may be necessary, of the procedures, methodologies, and business rules utilized in preparing and completing the analysis.

9.3.7.2

Coordination of studies required for the development of the Coordinated System Plan will include the following: 1) annual issues review to determine the need for a Coordinated System Plan study described in Section 9.3.7.2.a; and 2) Coordinated System Plan study described in Section 9.3.7.2.b.

- (a) Determine the Need for a Coordinated System Plan Study.
 - (i) On an annual basis, beginning in the fourth quarter of each calendar year and continuing through the first quarter of the following calendar year, the Parties shall perform an annual evaluation of transmission issues identified by each Party including issues from the respective Party's market operations and annual planning processes, or Third-Parties. This annual review of transmission issues will be administered by the JRPC on a mutually agreed to schedule taking into consideration each Party's regional planning cycles.

- (ii) The JRPC's annual review of transmission issues shall include the following steps:
 - a. Exchange of the following information during the fourth quarter of each calendar year or as specified below:
 - i. Regional issues and newly approved regional projects located near the interface or expected to impact the adjacent region;
 - ii. Newly identified regional transmission issues for which there is no proposed solution;
 - iii. Interconnection and long-term firm transmission service requests under coordination by the Parties located near the interface or expected to impact the adjacent region will be exchanged pursuant to sections 9.3.3 and 9.3.4, respectively;
 - iv. Market-to-market historical flowgate congestion between the Parties.
 - b. Joint review by the Parties of regional issues and solutions in January of each calendar year;
 - c. Receipt of Third Party issues in the first quarter of each calendar year;
 - d. Review of regional issues with input from stakeholders at the IPSAC meeting conducted during the first quarter of each calendar year; and
 - e. Decision by the JRPC on whether or not to conduct a Coordinated System Plan study.
- (iii) The JRPC through each Party's respective electronic distribution lists shall provide a minimum of 60 calendar days advance notice of the IPSAC meeting to be held in the first quarter of each year to review identified transmission issues. Stakeholders may identify and submit transmission issues and supporting analysis no later than 30 calendar days in advance of the meeting for consideration by the IPSAC and JRPC.
- (iv) Within 45 days following the annual issues evaluation meeting with IPSAC in the first quarter of the calendar year, the JRPC will determine, taking into consideration input provided by the IPSAC, the need to perform a Coordinated System Plan study. A Coordinated System Plan study shall be initiated by either of the following: (1) each Party in the JRPC votes in favor of performing

the Coordinated System Plan study; or (2) if after two consecutive years in which a Coordinated System Plan study has not been performed, and one Party votes in favor of performing a Coordinated System Plan study. The JRPC shall inform the IPSAC of the decision whether or not to initiate a Coordinated System Plan study within five business days of the JRPC's decision.

- (v) When a Coordinated System Plan study is determined to be necessary, the JRPC shall agree to the start date of the study and identify whether it is a targeted study as defined in this Section at (vi) or a more complex, two-year cycle study as defined in this Section at (vii).
- (vi) If a Coordinated System Plan study includes targeted studies of particular areas, needs or potential expansions to ensure that the coordination of the reliability and efficiency of the Parties' transmission systems, then such targeted studies will be conducted during the first half of the calendar year. In years when the Coordinated System Plan study includes only targeted studies as defined herein, they may be conducted at any time during the calendar year but shall be completed within the calendar year in which they are identified.
- (vii) A Coordinated System Plan study may include more complex, longer duration studies that may involve development of a joint model, as appropriate, to address reliability, market efficiency or public policy needs. Such studies will be conducted on a two-year cycle commencing in the third quarter of the first year of the twoyear cycle, if the need is determined by the JRPC. A Coordinated System Plan study scheduled on a two-year cycle will conclude no later than the end of the second year of the two-year cycle.
 - a. For a Coordinated System Plan study scheduled on a two-year cycle, the JRPC will provide notice to the IPSAC in the fourth quarter of the year preceding commencement of the two-year study cycle.
 - b. The first year of the two-year study cycle will consist of model preparation and issue identification and be timed in accordance with each RTO's regional planning processes for model preparation and issue identification. Two-year study cycle activities and their interaction with regional activities are further described in the applicable sections of 9.3.7, particularly in section 9.3.7.2(b)(vii).

- (viii) When a Coordinated System Plan study is determined to be necessary by the JRPC, the specific study process steps will depend on the type and scope of the study. The JRPC shall provide a schedule and binding deadlines for each step in the Coordinated System Plan study process no later than 15 days after the IPSAC meeting provided for in Section 9.3.7.2(b)(ii) following the JRPC's decision to initiate such study.
- (b) Coordinated System Plan Study Process
 - Each Party will be responsible for providing the technical support required to complete the analysis for the study. The responsibility for the coordinated study and the compilation of the coordinated study report will alternate between the Parties.
 - (ii) The JRPC will develop a scope and procedure for the coordinated planning analysis. The scope of the studies will include evaluations of issues resulting from the annual coordinated review and analysis of the Parties transmission issues. The scope and schedule for the Coordinated System Plan study will include the schedule of IPSAC review and input at all stages of the study. Study scope and assumptions will be documented and provided to the IPSAC for review and comment at an IPSAC meeting scheduled no later than 30 days after the decision to conduct a Coordinated System Plan study.
 - (iii) Ad hoc study groups may be formed as needed to address localized seams issues or to perform targeted studies of particular areas, needs, or potential expansions and to ensure the coordinated reliability and efficiency of the systems. Under the direction of the Parties, study groups will formalize how activities will be implemented. Targeted studies will utilize the best available regional models for transmission and market efficiency analysis.
 - (iv) The Coordinated System Plan study will consider the identified issues reviewed by the JRPC and IPSAC for further evaluation of potential remedies consistent with the criteria of this Protocol and each Party's criteria. Stakeholder input will be solicited for potential remedies to identified issues, which includes stakeholder and transmission developer proposals for Interregional Projects. The study scope developed under Section 9.3.7.2(b)(ii) will include the schedule for acceptance of such stakeholder Interregional Project proposals including supporting analyses that address issues identified in the JRPC solicitation.
 - (v) The Parties will document the scope and assumptions including the process and schedule for the conduct of the study. The scope

design will include, as appropriate, evaluation of the transmission system against the reliability criteria, operational performance criteria, economic performance criteria, and public policy needs applicable to each Party.

- (vi) The Parties will use planning models that are developed in accordance with the procedures to be established by the JRPC. If the JRPC develops joint study models, the JRPC will do so consistent with the models and assumptions used for the regional planning cycle most recently completed, or underway, as appropriate. If the Coordinated System Plan study requires transmission evaluations driven by different regional needs (for example transmission that addresses any combination of needs including regional reliability, economics and public policy), then the coordination of studies, models, and assumptions will include the analyses appropriate to each region. The Parties will develop compromises on assumptions when feasible and will incorporate study sensitivities as appropriate when different regional assumptions must be accommodated. Known updates and revisions to models will be incorporated in a comprehensive fashion when new base planning models are available. Prior to the availability of a new comprehensive base model, known updates will be factored in, as necessary, into the review of results. Models will be available for stakeholder review subject to confidentiality and Critical Energy Infrastructure Information (CEII) processes of the Parties. The IPSAC will have the opportunity to provide feedback to the JRPC regarding the study models.
- (vii) When Coordinated System Plan studies are undertaken pursuant to a two-year study cycle defined in this Section at (a)(vii), the following schedule will be followed unless otherwise mutually agreed to by the Parties.
 - a. Parties will provide updated identification of regional issues identified in this Section at (a) by January of the second year of the two-year cycle.
 - i. If MISO conducts a regional Market Congestion Planning Study as part of the MTEP, MISO will use that Market Congestion Planning Study to identify the MISO regional issues that will be incorporated into the Coordinated System Plan study. MISO regional issues identified in a regional Market Congestion Planning Study will be made available for incorporation into the Coordinated System Plan study between November of the first year and January of the second year of the two-year cycle. If MISO does not conduct a regional Market Congestion Planning Study as

part of the MTEP, MISO will use MISO's most recent production cost models to identify regional issues and will provide the regional issues identified for incorporation into the Coordinated System Plan study between November of the first year and January of the second year of the twoyear cycle. For matters addressing reliability specifically, MISO will use issues identified in the most recent MTEP report, available annually in December, and the reliability projects, submitted in September of the prior year being considered for inclusion in the current MTEP. MISO will include these projects in the regional issues made available for incorporation into Coordinated System Plan study.

ii. PJM regional reliability and Market Efficiency analyses will be used to identify regional issues that will be incorporated into the Coordinated System Plan study. Regional reliability analysis proceeds throughout the calendar year identifying PJM issues, including issues near the seam. These seams issues are presented to all stakeholders at the PJM Transmission Expansion Advisory Committee meetings and the PJM competitive window process, if eligible. PJM's long-term economic analysis cycles are conducted during two consecutive calendar years according to the schedule presented to stakeholders at the Transmission Expansion Advisory Committee meetings. The development of the economic model occurs throughout the first three quarters of the first year of the two-year study cycle and is made available for stakeholder review and comment prior to opening PJM's long-term proposal window later in the first year of the two-year study cycle. Both regional and interregional project proposals are submitted through the PJM project proposal windows consistent with Schedule 6, section 1.5.8(c) of the PJM Amended and Restated Operating Agreement. Interregional Project proposals entered into a PJM shortterm or long-term proposal window will be analyzed along with PJM regional project proposals. Consistent with Schedule 6, section 1.5.8(d) of the PJM Amended and Restated Operating Agreement, PJM, in consultation with the Transmission Expansion Advisory Committee, shall determine the more efficient or cost effective transmission enhancements and expansions available for incorporation into the Coordinated System Plan study.

- b. MISO and PJM regional models will be made available to the IPSAC for stakeholder review and comment in the first year of the two-year cycle as detailed below:
 - i. MISO will make available its most recent MTEP cycle long-term multi-year power flow models for reliability analysis and multi-year production cost models with multiple economic Futures for economic analysis, annually by November 30.
 - ii. PJM will make available its most recent regional reliability model that is updated annually in the first quarter of each calendar year. PJM's regional economic model is prepared according to the assumptions and schedule as discussed at the Transmission Expansion Advisory Committee meeting scheduled in the first quarter of year one of PJM's longterm regional planning cycle. The economic model is available for stakeholder review and feedback during the third quarter of the first year of PJM's two year planning cycle.
- c. Stakeholder Interregional Project proposals, satisfying applicable regional and interregional requirements, will be accepted by PJM in its project proposal windows as detailed in Schedule 6 of the PJM Amended and Restated Operating Agreement.
- d. Stakeholder identification of Interregional Project proposals satisfying the applicable regional and interregional requirements will be accepted in the MISO MTEP regional process approximately between January through March of the second year of the two-year cycle. A precise timeframe will be provided in each MTEP cycle.
- e. The Parties will evaluate each Interregional Project proposal in its regional process, using the criteria and benefit determination in Sections 9.4.4.1 and 9.4.4.2 and applicable subsections, during the second year of the two-year cycle to determine if a project is eligible for inclusion in the respective regional plans. If recommended by the JRPC per Section 9.3.7.2(b)(xi), an Interregional Project must be presented to the respective Parties' Boards for approval and, if approved, in each Party's regional plan to become an Interregional Project. The Parties shall present the proposed projects, including any proposed Interregional Projects, to their respective Board of Directors or

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- i. In MISO, regional analysis typically occurs between February and September each year. Potential Interregional Projects will be evaluated against the MISO regional criteria and collectively with other potential regional projects to ensure cohesive benefits.
- ii. In PJM, regional reliability analysis occurs annually. Regional market efficiency analysis occurs biennially. Interregional evaluations will occur in PJM's regional proposal window process as outlined in Section 9.3.7.2(b)(vii)(a)(ii).
- (viii) The IPSAC will have the opportunity to provide input into the development of potential solutions. Feedback by the IPSAC stakeholders shall be provided to each region consistent with each region's regional processes for accepting project proposals. Potential solutions submitted through each region's respective planning processes specific to submitting project proposals shall be communicated between the Parties in a timely manner. The JRPC will be responsible for the screening and evaluation of potential solutions, including evaluating the proposed projects for designation as an Interregional Project pursuant to Section 9.4.4.1. Proposed solution criteria and benefits shall be evaluated by each region pursuant to Sections 9.4.4.1 and 9.4.4.2 and applicable subsections.
- (ix) Transmission upgrades identified through the analyses conducted according to this Protocol and satisfying the applicable Protocol and regional planning requirements will be included in the Coordinated System Plan after the conclusion of the Coordinated System Plan study and applicable regional analyses.
- (x) The JRPC shall produce and submit to the IPSAC for review reports documenting the Coordinated System Plan study, including the transmission issues evaluated, studies performed, solutions considered, and, if applicable, recommended Interregional Projects with the associated cost allocation to the Parties pursuant to Section 9.4.4.2. The review of any proposed allocation of costs under the Coordinated System Plan pursuant to Section 9.4.4 will be accomplished during the periodically scheduled IPSAC meetings held during the course of the Coordinated System Plan study according to this Section 9.3.7.2. In addition, explanations why proposed Interregional Projects did not move forward in the process will be provided in the final Coordinated System Plan

study report to the IPSAC for review. The IPSAC shall be provided the opportunity to provide input to the JRPC on the Coordinated System Plan study reports. Results of, comments and responses to comments on the final Coordinated System Plan study report shall be posted on each Party's website. Fulfillment of the requirements of this subsection will be accomplished through periodically scheduled IPSAC meetings held during the course of the Coordinated System Plan study.

- The JRPC's recommended Interregional Projects identified in the (xi) Coordinated System Plan study shall be reviewed by each Party through its respective regional processes. These regional reviews will be integrated into the interregional process as further described in Sections 9.3 and 9.4. Transmission plans to resolve problems will be identified, included in the respective plans of the Parties and will be presented to the respective Parties' Boards for approval and implementation using each Party's procedures for approval. Critical upgrades for which the need to begin development is urgent will be reviewed by each Party in accordance with their procedures and presented to the Parties' Boards for approval as soon as possible after identification through the coordinated planning process. Other projects identified will be reviewed by each Party in accordance with their procedures and presented to the Parties' Boards for approval in the normal regional planning process cycle as long as this cycle does not delay the implementation of a necessary upgrade. The JRPC shall inform the IPSAC of the outcome of each Party's review of the recommended Interregional Projects.
- (c) Targeted Market Efficiency Project Study

The Coordinated System Plan study may include a Targeted Market Efficiency Project study consistent with Section 9.3.7.2(b)(iii). The Targeted Market Efficiency Project study will evaluate, analyze, and determine upgrades to remedy identified historical market-to-market congestion on Reciprocal Coordinated Flowgates on the PJM-MISO market border. Identified issues under this section will be expected to persist and are not expected to be substantially alleviated by system changes planned in the five (5) year planning horizon. Identification of issues will include, but not be limited to, the RTO's determination, based on historical operational information, of any historical flowgate congestion known to be caused by outage conditions. The RTOs will not consider for purposes of a Targeted Market Efficiency Project study, historical congestion on a Reciprocal Coordinated Flowgate caused by outages or will determine a proportionally reduced amount of congestion associated with that flowgate, as appropriate. Any Targeted Market Efficiency Project study initiated by the JRPC under this section will be

conducted under the process defined for a Coordinated System Plan study, except as modified by this section and the following subsections.

- (i) Issues identified in the Targeted Market Efficiency Project study will be reviewed to determine the cause of the market issues, including: (a) the specific limiting elements, (b) verification of the ratings of the limiting elements, (c) whether approved, planned system changes may alleviate the issue, (d) whether outages contribute to all or a portion of the historical congestion, (e) estimates of the cost of upgrading the limiting elements, and (f) whether upgrades to the limiting elements could substantially relieve the constraints;
- Using the results of the review under subsection (i) and the applicable criteria of Section 9.4, the JRPC will provide to the IPSAC the criteria used to evaluate whether congestion is likely to be persistent. The JRPC will post results of the analysis for input from the IPSAC and will solicit proposals for Targeted Market Efficiency Projects that meet the criteria of Sections 9.3.7.2(c) and 9.4 applicable to a Targeted Market Efficiency Project;
- (iii) The JRPC will determine the list of limiting element upgrades and Targeted Market Efficiency Project proposals to analyze the benefits to PJM and MISO for presentation to and input from the IPSAC;
- (iv) Prior to making the determination outlined in Section 9.3.7.2(c)(vi) below, the JRPC will provide to the IPSAC any additional criteria used to evaluate potential Targeted Market Efficiency Project solutions;
- (v) The JRPC will provide to the IPSAC for input an explanation of:
 (a) why the JRPC did not evaluate whether a potential Targeted Market Efficiency Project could economically address congestion on a particular congested Reciprocal Coordinated Flowgate, and
 (b) why a potential Targeted Market Efficiency Project that the JRPC evaluated is not recommended to the MISO and PJM Boards for approval;
- (vi) Based on the analysis and stakeholder process conducted consistent with Sections 9.3.7.2(c) and 9.4, the JRPC will determine any Targeted Market Efficiency Project proposals to recommend to their respective Boards for approval; and
- (vii) Solely for the purposes of conducting the Targeted Market Efficiency Project analysis, the regional processes referred to in

Section 9.3.7.2(b) will be the JRPC analysis conducted for the Targeted Market Efficiency Project study according to the scope and procedures developed under Sections 9.3.7.2(b)(ii) and 9.3.7.2(c). The joint JRPC analysis together with the associated stakeholder process will be sufficient for any resulting JRPC recommended Interregional Transmission Projects to be presented for approval to the respective RTOs' Board as described in 9.3.7.2(b)(xi).

9.4 Allocation of Costs of Network Upgrades.

9.4.1 <u>Network Upgrades Associated with Interconnections</u>.

When under Section 9.3.3 it is determined that a generation or merchant transmission interconnection to a Party's system will have an impact on the Affected System such that Network Upgrades shall be made, the upgrades on the Affected System shall be paid for in accordance with the terms and conditions of the Party's OATT.

9.4.2 <u>Network Upgrades Associated with Transmission Service Requests</u>.

When under Section 9.3.4 it is determined that the granting of a long-term firm delivery service request with respect to a Party's system will have an impact on the Affected System such that Network Upgrades shall be made, the upgrades on the Affected System shall be paid for in accordance with the terms and conditions of the Party's OATT.

9.4.3 <u>Network Upgrades Associated with Incremental Auction Revenue Rights</u> <u>Requests</u>.

When under Section 9.3.5 it is determined that the granting of an Incremental ARR request with respect to a Party's system will have an impact on the Affected System such that Network Upgrades shall be made, the upgrades on the Affected System shall be paid for in accordance with the terms and conditions of the Affected System's tariff provisions.

9.4.4 <u>Network Upgrades Under Coordinated System Plan</u>.

The Coordinated System Plan will identify Interregional Projects as: (i) Cross-Border Baseline Reliability Projects ("CBBRP"), (ii) Interregional Reliability Projects, (iii) Interregional Market Efficiency Projects, (iv) Interregional Public Policy Projects, and (v) Targeted Market Efficiency Projects. Consistent with the applicable OATT provisions, the Coordinated System Plan will designate the portion of the Interregional Project Cost for each such project that is to be allocated to each RTO on behalf of its Market Participants. The JRPC will determine an allocation of costs to each RTO for such Network Upgrades based on the procedures described below. The proposed allocation of costs will be reviewed with the IPSAC and the appropriate multi-state entities and posted on the internet web site of the two RTOs. Stakeholder input will be solicited and taken into consideration by the JRPC in arriving at a consensus allocation of costs.

9.4.4.1 Criteria for Project Designation as an Interregional Project:

Interregional Projects must be: (1) physically located in both the MISO region and the PJM region or (2) physically located wholly in one transmission planning region but jointly determined and agreed upon to provide benefits to the other transmission planning region or both transmission planning regions. A project located solely in one region and paid for and benefiting only the adjacent region must meet the individual OATT requirements of the transmission planning region in which the project will be located to be eligible for inclusion in the local RTO's transmission

plan in addition to the project criteria included in section 9.4.4.1.1, 9.4.4.1.2 or 9.4.4.1.3. In addition, an Interregional Project approved by each RTO for inclusion in its regional plan is subject to the construction obligation under each RTO's OATT. For purposes of interregional planning between MISO and PJM, these Interregional Projects will be designated in accordance with the following criteria:

9.4.4.1.1 Cross-Border Baseline Reliability Project Criteria:

Projects that meet all of the following criteria will be designated as CBBRPs:

- (i) by agreement of the JRPC, the project is needed to efficiently meet applicable reliability criteria;
- (ii) the project must be a baseline reliability project as defined under the MISO or PJM Tariffs.

9.4.4.1.2 Interregional Reliability Project Criteria:

An Interregional Reliability Project must:

- (i) be selected both in the MISO and PJM regional planning processes and be eligible for each region's cost allocation process; and
- (ii) by agreement of the JRPC, displace one or more reliability projects in either or both PJM and MISO as defined in their respective tariffs and more efficiently or cost-effectively meet applicable reliability criteria than the displaced reliability project(s).

Through their respective regional planning processes, PJM and MISO respectively will evaluate proposals to determine whether the proposed Interregional Reliability Project(s) addresses reliability needs that are currently being addressed with reliability projects in its regional transmission planning process and, if so, which reliability projects in that regional transmission planning process could be displaced by the proposed Interregional Reliability Project. Reliability projects in the MISO regional transmission planning process include Baseline Reliability Projects and Multi-Value Projects that meet Criterion 3 according to MISO's OATT. MISO and PJM will quantify the benefits of an Interregional Reliability Project based upon the total avoided costs of regional transmission projects included in the then-current regional transmission plan that would be displaced if the proposed Interregional Reliability Project was included in the plan.

9.4.4.1.3 Interregional Market Efficiency Project Criteria:

Interregional Market Efficiency Projects must meet the following criteria:

(i) is evaluated as part of a Coordinated System Plan or joint study process, as described in Section 9.3.7 of the JOA; and

 (ii) qualifies as an economic transmission enhancement or expansion under the terms of the PJM RTEP and also qualifies as a Market Efficiency Project or a Multi-Value Project that meets Multi-Value Project Criterion 2 or Criterion 3 under the terms of Attachment FF of the MISO OATT (including all applicable threshold criteria), provided that any minimum Project Cost threshold required to qualify a project under either the PJM RTEP or MISO OATT shall apply the Project Cost of the Interregional Market Efficiency Project and not the allocated cost; and

9.4.4.1.3.1 Determination of Benefits to Each RTO from an Interregional Market Efficiency Project:

The RTOs shall jointly evaluate the benefits to the MISO and PJM markets as follows:

- (a) The RTOs shall utilize their respective tariffs' benefit metrics to analyze the anticipated annual economic benefits of construction of a proposed Interregional Market Efficiency Project to Transmission Customers of each RTO.
- (b) The costs applied in the cost allocation calculation pursuant to Section 9.4.4.2.3 shall be the present value, over the same period for which the project benefits are determined, of the annual revenue requirements for the project. The annual revenue requirements for the Interregional Market Efficiency Project are determined from the estimated Interregional Market Efficiency Project installed costs and the fixed charge rate applicable in each respective RTO's regional process.

To determine the present value of the annual benefits and costs, the discount rate shall be based on the transmission owners' most recent after-tax embedded cost of capital weighted by each transmission owner's total transmission capitalization. Each transmission owner shall provide the RTOs with the transmission owner's most recent after-tax embedded cost of capital, total transmission capitalization, and levelized carrying charge rate, including the recovery period. The recovery period shall be consistent with recovery periods allowed by FERC for comparable facilities.

(c) Using the cost allocated to each RTO pursuant to Section 9.4.4.2.3 of the JOA, each RTO will evaluate the project using its internal criteria to determine if it qualifies as an economic transmission enhancement or expansion under the terms of the PJM RTEP and also qualifies as a market efficiency project under the terms of Attachment FF of the MISO OATT.

9.4.4.1.4 Interregional Public Policy Project Criteria:

Interregional Public Policy Projects must meet the following criteria:

- (i) be selected both in the MISO and PJM regional planning processes and be eligible for each region's cost allocation process; and
- (ii) by agreement of the JRPC, displace one or more regional projects addressing public policy in MISO or one or more public policy projects in PJM as defined in their respective tariffs and more efficiently or costeffectively meet applicable public policy criteria than the displaced regional project(s).

Through their respective regional planning processes, PJM and MISO respectively will evaluate proposals to determine whether the proposed Interregional Public Policy Project(s) addresses public policy needs that are currently being addressed with public policy projects in its regional transmission planning process and, if so, which public policy projects in that regional transmission planning process could be displaced by the proposed Interregional Public Policy Project. Public policy projects in the MISO regional transmission planning process include Multi-Value Projects that meet Multi-Value Project Criterion 1 under the terms of Attachment FF to MISO's OATT. Public policy projects in the PJM regional transmission planning process include both economic and reliability projects. MISO and PJM will quantify the benefits of an Interregional Public Policy Project based upon the total avoided costs of regional transmission projects included in the then-current regional transmission plan for purposes of cost allocation that would be displaced if the proposed Interregional Public Policy Project was included in the plan.

9.4.4.1.5 Targeted Market Efficiency Project Criteria:

Upgrades associated with Targeted Market Efficiency Projects must meet the following criteria:

- Are evaluated as part of a Coordinated System Plan or joint study process as described in Section 9.3.7.2(c) and demonstrated to have an expectation for substantial relief of identified historical market efficiency congestion issues;
- (ii) Have an estimated in-service date by the third-summer peak season from the year in which the project was approved;
- (iii) Have an estimated installed cost less than \$20 million in study year dollars;
- (iv) Is determined to have expected future congestion relief, due to upgrade of that targeted Reciprocal Coordinated Flowgate, equal to the sum of annual congestion over the four (4) year period after the study year, that is equal
to or greater than the estimated installed capital cost of the upgrade, including appropriate long term costs, in study year dollars, where:

- a. Expected future congestion relief in the amount of the Reciprocal Coordinated Flowgate's anticipated reduction of historical congestion net of any anticipated increases in congestion on nearby flowgates based on the RTO analysis;
- b. Historical congestion in PJM will be quantified in accordance with PJM OATT, Attachment K-Appendix, Section 5.1. It will include charges associated with Day-ahead and Real-time market congestion for Market Buyers, Generating Market Buyers, and Market Sellers;
- c. Historical congestions in MISO will be quantified in accordance with MISO OATT, Sections 39.2.9 "Day-Ahead Energy and Operating Reserve Market Process" and 40.2.15 "Real-Time Energy and Operating Reserve Market Process." It will include charges associated with Day-Ahead and Real-Time market congestion for both load and generator buses; and
- d. Annual congestion is the estimated average historical congestion based on the two historical calendar years prior to the study year.
- (v) Is recommended by the JRPC as a Targeted Market Efficiency Project and approved by each RTO's Board.

9.4.4.1.5.1 Determination of Benefits of Each RTO from a Targeted Market Efficiency Project

The RTO shall jointly evaluate the benefits to the combined markets and to each RTO for each potential Targeted Market Efficiency Project resulting from Section 9.3.7.2(c), according to the following process:

- (i) With input from IPSAC, determine the estimated total installed project capital cost in study year dollars;
- (ii) Compare the estimated expected future congestion relief to the estimated project total installed capital cost in study year dollars. The estimated congestion relief shall equal or exceed the total installed capital cost in study year dollars, where:
 - a. Expected future congestion relief is the sum of each RTO's expected congestion relief, adjusted by market-to-market settlement payments.

9.4.4.2 Interregional Project Benefits and Shares:

The Coordinated System Plan shall designate the share of the Project Cost to be allocated to each RTO as set forth in the following subsections:

9.4.4.2.1 Cost Allocation for Cross-Border Baseline Reliability Projects

- Method for Thermal Constraints: The Coordinated System Plan shall (a) designate the share of the Project Cost to be allocated to each RTO based on the relative contribution of the combined Load of each RTO to loading on the constrained facility requiring the need for the CBBRP. The loading contribution will be pre-determined using a joint RTO planning model developed and agreed to by the planning staffs of both RTOs. This model will form the basecase from which reliability needs on the combined systems will be determined for the Coordinated System Plan. The model, adjusted for the conditions driving the upgrade needs, will be used to calculate the DFAX for cost allocation purposes for each RTO, using a source of the aggregate of RTO generation (network resources) for each RTO to a sink of all Loads within that RTO. The DFAX is the appropriate distribution factor for the condition causing the upgrade; OTDF for contingency condition flow criteria violations, and PTDF for normal condition flow criteria violations. The DFAX calculation determines the MW flow impact attributable to each RTO on the constraint requiring the transmission system to be upgraded. The total load of each RTO for the condition modeled is multiplied by the DFAX associated with that RTO to determine the respective MW flow contribution of that RTO to the constraint. The RTOs will quantify the relative impact due to PJM's system and the relative impact due to MISO's system and then will allocate between PJM and MISO the load contributions to the reliability constraint on the system by calculating the relative impacts caused by each RTO. This methodology will determine the extent to which each RTO contributes to the need for a reliability upgrade consistent with the Coordinated System Plan modeling that determined the need for the upgrade. The MISO total load impacts will be allocated to MISO and the PJM total load impacts will be allocated to PJM. PJM and MISO will then reallocate their shares internally in accordance with their respective tariffs. By calculating the impacts in this manner, the RTOs will ensure that the relative contribution of each RTO (including both the aggravating and benefiting contributions of generation and load patterns within each RTO) to the need for a particular upgrade, is appropriately captured in the ensuing allocations, and that the allocation is consistent with the Coordinated System Plan modeling that determined the need for the upgrade.
- (b) Method for Non-Thermal Constraints: The JRPC will establish an interface, comprised of a number of transmission facilities, to serve as a surrogate for allocation of cost responsibility for non-thermal constraints. The interface will be established such that the aggregate flow on the

interface best represents the non-thermal constraint which the CBBRP is proposed to alleviate. Allocation of cost responsibility for the non-thermal constraint will be determined by applying the procedures described in this Section to the interface serving as a surrogate for the constraint.

(c) Method for Projects that Also Qualify As Interregional Reliability Projects: For an Interregional Project that meets the criteria of both a CBBRP under Section 9.4.4.1.1 and an Interregional Reliability Project under Section 9.4.4.1.2, the cost will be allocated in accordance with the methodology set forth in Section 9.4.4.2.2.

9.4.4.2.2 Cost Allocation for an Interregional Reliability Project:

The cost of an Interregional Reliability Project, selected in the regional transmission plans of both PJM and MISO, will be allocated as follows:

- (i) The share of the costs an Interregional Reliability Project allocated to a region will be determined by the ratio of the present value(s) of the estimated costs of such region's displaced reliability projects as agreed to by the RTOs to the total of the present value(s) of the estimated costs of the displaced reliability projects in both regions that have selected the Interregional Reliability Project in their respective regional plans.
- (ii) For purposes of this subsection, a displaced reliability project's estimated costs shall be determined by PJM and MISO in accordance with their respective procedures for defining project estimated costs. Notwithstanding the foregoing, both RTOs shall work to ensure that their cost estimates for displaced reliability projects are determined in a similar manner. The applicable discount rate(s) used for the MISO region shall be the discount rate proposed by the Transmission Owner that produces the cost estimate for the proposed project. The applicable discount rate(s) used for the PJM region shall be the discount rate included in the assumptions reviewed by the PJM Board of Managers each year for use in the economic planning process.
- (iii) Costs allocated to each region shall be further allocated within each region pursuant to the cost allocation methodology contained in each region's respective regional transmission planning process.

9.4.4.2.3 Cost Allocation for an Interregional Market Efficiency Project:

For Interregional Market Efficiency Projects that meet all of the qualifications in Section 9.4.4.1.3, the applicable project costs shall be allocated to the respective RTOs in proportion to the net present value of the total benefits calculated for each RTO pursuant to each RTO's respective tariff.

9.4.4.2.4 Cost Allocation for an Interregional Public Policy Project:

The cost of an Interregional Public Policy Project, selected in the regional transmission plans of both PJM and MISO, will be allocated as follows:

- (i) The share of the costs for an Interregional Public Policy Project allocated to a region will be determined by the ratio of the present value(s) of the estimated costs of such region's displaced public policy projects to the total of the present value(s) of the estimated costs of the displaced public policy projects in both regions that have selected the Interregional Public Policy Project in their respective regional plans.
- (ii) For purposes of this subsection, a displaced regional public policy project's estimated costs shall be determined by PJM and MISO in accordance with their respective procedures for defining project estimated costs. Notwithstanding the foregoing, both RTOs shall work to ensure that their cost estimates for displaced public policy projects are determined in a similar manner. The applicable discount rate(s) used for the MISO region shall be the discount rate developed by MISO for cost estimates for projects under review by the MISO Board of Directors. The applicable discount rate(s) used for the PJM region shall be the discount rate included in the assumptions reviewed by the PJM Board of Managers each year for use in the economic planning process.
- (iii) Costs allocated to each region shall be further allocated within each region pursuant to the cost allocation methodology contained in each region's respective regional transmission planning process.

9.4.4.2.5 Cost Allocation for a Targeted Market Efficiency Project:

For Targeted Market Efficiency Projects that meet all of the qualifications in Section 9.4.4.1.5, the applicable project costs shall be allocated to the respective RTOs in proportion to the determination of expected future congestion relief for each RTO calculated pursuant to that Section.

9.4.4.3 Cost Recovery of Interregional Allocation Shares:

The cost recovery of any share of cost of an Interregional Project allocated to either RTO shall be recovered by each RTO according to the applicable tariff provisions of the RTO to which such cost recovery is allocated.

9.4.4.4 Transmission Owners Filing Rights:

Nothing in this Section 9.4 shall affect or limit any Transmission Owners filing rights under Section 205 of the Federal Power Act as set forth in the applicable Tariffs and applicable agreements.

9.4.4.5 Amendments:

The RTOs shall amend Article IX of this Agreement in accordance with the applicable tariffs and/or agreements.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE IX - COORDINATED REGIONAL TRANSMISSION EXPA --> MISO-JOA 9.5 Agreement to Enforce Duties to Construct and Ow

9.5 Agreement to Enforce Duties to Construct and Own.

To obtain Network Upgrades under this Article IX, PJM will enforce obligations to construct and own or finance enhancements or additions to transmission facilities in accordance with the Transmission Owners Agreement, PJM Interconnection, L.L.C. First Revised Rate Schedule FERC No. 29, the West Transmission Owners Agreement, PJM Interconnection, L.L.C. Rate Schedule FERC No. 33, as either may be amended or restated from time to time, and MISO will enforce obligations to construct enhancements or additions to transmission facilities in accordance with the Agreement of Transmission Facilities Owners To Organize The Midcontinent Independent System Operator, Inc., A Delaware Non-Stock Corporation, MISO FERC Electric Tariff, First Revised Rate Schedule No. 1, as it may be amended or restated from time to time.

ARTICLE X JOINT CHECKOUT PROCEDURES

10.1 Scheduling Checkout Protocols.

10.1.1 <u>Scheduling Protocols</u>.

Each Party will leverage technology to perform electronic approvals of schedules and to perform electronic checkouts. The Parties will follow the following scheduling protocols:

10.1.1.1

Each Party, acting as the scheduling agent for its respective BAs, will conduct all checkouts with first tier BAs. A first tier BA is any BA that is directly connected to any Party's members' BA or any BA operated by an independent transmission company.

10.1.1.2

The Parties will require all schedules, other than reserve sharing or other emergency events, to be tagged in accord with the NERC tagging standard. For reserve sharing and other emergency schedules that are not tagged, the Parties will enter manual schedules after the fact into their respective scheduling systems to facilitate checkout between the Parties.

10.1.1.3

When there is a scheduling conflict, the Parties will work in unison to modify the schedule as soon as practical. If there is a scheduling conflict that is identified before the schedule has started, then both Parties will make the correction in realtime and not wait until the quarter hour. If the schedule has already started and one Party identifies an error, then the Parties will make the correction at the earliest quarter hour increment. If a scheduling conflict cannot be resolved between the Parties (but the source and sink have agreed to a MW value), then the Parties will both adjust their numbers to that same MW value. If source and sink are unable to agree to a MW value, then the previously tagged value will stand for both Parties.

10.1.1.4

For BAs or associated scheduling agents that do not use the respective Parties' electronic scheduling interfaces, the Parties will contact entities by telephone to perform checkouts. When performing checkouts by telephone, each entity will verbally repeat the numerical NSI value to ensure accuracy.

10.1.1.5

The Parties will perform the following types of checkouts:

- (a) Pre-schedule (day-ahead) daily between 1600 and 2000 (Eastern Prevailing Time) hours:
 - (i) Intra-hour checkout/schedule confirmation will occur as required due to intra-hour scheduled changes.

- (b) Hourly Before the Fact (real-time):
 - (i) Checkout for the next hours shall be net scheduled. Import and export totals may also be verified in addition to NSI if it is deemed necessary by either party. The Parties may checkout individual schedules if deemed necessary by either party.
 - (ii) Checkout for the top of the next hour is performed during the last half of the current hour.
- (c) Daily after the fact checkout shall occur no later than ten (10) business days after the fact (via email or mutually agreed upon method).
- (d) Monthly after the fact checkout shall occur no later than one (1) month after the fact (via phone or mutually agreed upon method).

10.1.1.6

The Parties will require that each of these checkouts be performed with first tier BAs. If a checkout discrepancy is discovered, the Parties will use the NERC tag to determine where the discrepancy exists. The Parties will require any entity that conducts business within its RC Area to checkout with the applicable Party using NERC tag numbers; special naming convention used by that entity or other naming conventions given to schedules by other entities will not be permitted.

ARTICLE XI ADDITIONAL COORDINATION PROVISIONS

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XI - ADDITIONAL COORDINATION P --> MISO-JOA 11.1 Application of Congestion Management Process.

11.1 Application of Congestion Management Process.

The Parties have agreed to certain operating protocols under this Agreement to ensure system reliability and efficient market operations as systems exist and are contemplated as of the Effective Date. These protocols include the Congestion Management Process and applicable NERC reliability plans. As addressed in Section 3.1, the Parties expect that these systems and the operating protocols applicable to these systems will change and revisions to this Agreement will be required from time to time.

11.2 Additional Provisions Concerning Market-to-Market.

11.2.1 LMP Calculation Consistency.

The Parties agree to ensure that LMP signals meet certain common criteria in order to achieve maximum benefits to competition from the Joint and Common Market. In particular, the Parties agree that dispatch in both markets will be performed under a nodal pricing regime and that settlement will be based, in part, on the resulting LMPs. Given the importance of the individual LMPs, the pricing methodologies employed will result in prices that meet certain common criteria at all relevant physical interfaces between the two markets. The Parties' goal will be that the respective prices calculated by both Parties for these interfaces will be identical. Therefore, to the extent that such prices are not identical, the Parties agree to work in good faith to resolve the reasons for the differences in order to send the most consistent economic signals reasonably possible to all market participants.

The Parties further agree that the LMP formulation will be such that the optimal solution will be very close to the current system operating condition. Inputs into the Locational Marginal Pricing program will be the flexible generating units from the LMP Preprocessor, actual generation, load and system topology from the State Estimator, and binding constraints from the LMP Contingency Processor. The Parties agree to work in good faith to reach resolution on the frequency of the calculation of the prices. Additionally, the Parties agree that any changes to the pricing methodology will be coordinated across the two markets to maintain consistency.

11.2.2 Coordination Processes.

As the MISO market and the PJM market have evolved over time, it has become critical to coordinate the LMP-based congestion management procedures between the two markets. The market-to-market transmission congestion processes and the LMP at the market border points must be coordinated in order to efficiently manage interregional power flows. This coordination process will ensure appropriate LMP values at the market borders and will eliminate potential inefficiencies and gaming opportunities that otherwise could be caused by uncoordinated congestion management between the adjacent markets.

11.2.3 Market-to-Market Coordination Process.

The fundamental philosophy of the market-to-market transmission congestion coordination process is to allow any transmission constraints that are significantly impacted by generation dispatch changes in both markets to be jointly managed in the security-constrained economic dispatch models of both Parties. This joint management of transmission constraints near the market borders will provide a more efficient and lower cost transmission congestion management solution and will also provide coordinated pricing at the market boundaries.

This market-to-market coordination process builds upon the Parties' market-tonon-market coordination process, as described in the "Congestion Management Process" document. The set of transmission Flowgates in each market that can be significantly impacted by the economic dispatch of generation serving load in the adjacent market is identified as the set of RCFs. These RCFs are then monitored to measure the impact of Market Flows and loop flows from adjacent regions. The "Congestion Management Process" document provides a framework for calculating the resulting powerflow impacts resulting from the market-based economic dispatch in one region on the transmission facilities in an adjacent region and vice versa (Market Flow impacts). In addition, the "Congestion Management Process" document describes how the Market Flow impacts will be managed on an interregional basis within the existing IDC to enhance the effectiveness of the NERC interregional congestion management process. Lastly, the "Congestion Management Process" document also describes a process for calculating flow entitlement for network and firm transmission utilization in one region on the RCFs in an adjacent region.

The market-to-market coordination process builds on the processes, as described above, by adapting the coordination, as appropriate, to the conditions that will prevail after the Parties' markets are implemented in the Midwest. In addition, there is a continuing need to define the flow entitlement for network and firm transmission utilization in one region on the RCFs in an adjacent region.

The Parties shall utilize the Interregional Coordination Process on all market-tomarket Flowgates that experience congestion. The Party that is responsible for a Flowgate will initiate and terminate the market-to-market process with the other Party. Anytime the Party that is responsible for a Flowgate is binding on that Flowgate to manage congestion, the responsible Party will implement the marketto-market process to utilize the more cost effective generation between the two markets to manage the congestion. The only exception when the market-tomarket process is not used will occur when a market-to-market Flowgate is being used as a substitute Flowgate for another limit that is not a market-to-market Flowgate.

The market–to-market process described in the Interregional Coordination Process will normally be performed as needed in the real-time market, however if the need for congestion relief assistance is predictable on a day-ahead basis, the foregoing process will be implemented in the day-ahead market.

The market-to-market settlement process that is applied to both real-time and dayahead usage is described in the Interregional Coordination Process.

11.2.4 Settlement of Interregional Transactions (via Proxy Buses).

In order for the market-to-market coordination to function properly, the proxy bus models for the Parties must be coordinated to the same level of granularity. The proxy bus modeling approaches must be the same at the market borders. Further details regarding the Interregional Coordination Process are described in Attachment 3 of this Agreement.

11.2.5 <u>Auction Revenue Rights Allocation and Financial Transmission Rights</u> <u>Auction Coordination</u>.

The allocation ARR and auction of FTR products in each marketplace must recognize the Flowgate entitlement that exists in adjacent markets. The ARR allocation/FTR auction model will essentially contain exactly the same level of detail for adjacent regions as the day-ahead market model and the real-time market model. Each Party will allocate ARRs or auction FTRs to the eligible market participants subject to a clearing process that determines the amount of transmission capability that exists to support the FTRs/ARRs.

The ARR allocation/FTR auction clearing process for each Party will model that Party's flow entitlement on the transmission Flowgates in the adjacent region as the powerflow limit that must be respected in the ARR allocation/FTR auction process. The transmission Flowgates in each Party will be modeled in the clearing process at a capability value equal to the Flowgate rating minus the flow entitlement that exists for flows from the adjacent market. In this way, the ARR allocation/FTR awards across both Parties will recognize the reciprocal transmission utilization that exists for eligible market participants in both markets.

11.2.6 Evolution of the Market-to-Market Coordination Process.

Nothing in this Agreement will preclude the Parties from further evolving their market-to-market coordination process in conjunction with input from their respective market monitors.

11.2.7 Coordinated Emergency Generation Redispatch.

The Parties shall follow a least-cost dispatch protocol in response to system emergencies that will mitigate or stabilize the system emergency in appropriate time to prevent IROL violation, and the costs thereof shall be reflected in, and compensated through, relative LMP values. However, in the event that costs not cognizable under LMP are incurred, the Party within which the affected resources are located shall reimburse such resource for direct incremental cost, subject to inter-RTO reimbursement in the event that the costs incurred by one Party were caused by a system emergency in the other Party.

Additionally, in the absence of the need to coordinate congestion or address a system emergency, a Party shall be entitled to request that the other Party dispatch a generation unit, subject to the Parties' agreement with respect to compensation for the dispatch.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XI - ADDITIONAL COORDINATION P --> MISO-JOA 11.3 Pseudo-Tie Coordination

11.3 Pseudo-Tie Coordination.

11.3.1 Authorities for Pseudo-Tied Units into PJM.

MISO will be the Native RC, responsible for transmission related congestion (SOLs and IROLs) on the transmission system where the pseudo-tied units are physically connected. PJM will be the Attaining RC, responsible for the commitment and dispatch of the pseudo-tied units physically located within the MISO RC footprint.

Transmission Operators within the MISO RC footprint will be the Native TOP for the pseudo-tied units that are physically located within their respective TOP zones.

PJM will be the Attaining BA, Attaining TOP, and Attaining RC for all of the MW of such generation units that are pseudo-tied out of the MISO BAA and into the PJM BAA.

11.3.2 Authorities for Pseudo-Tied Units into MISO.

PJM will be the Native RC, responsible for transmission related congestion (SOLs and IROLs) on the transmission system where the pseudo-tied units are physically connected. MISO will be the Attaining RC responsible for commitment and dispatch of the pseudo-tied units physically located within the PJM RC footprint.

PJM will be the Native TOP of pseudo-tied units that are physically located within its TOP zones.

MISO will be the Attaining BA and Attaining RC for all of the MWs of such generating units that are pseudo-tied out of the PJM BAA and into the MISO BAA.

11.3.3 Partial Pseudo-Tie.

If only a portion of the installed capacity of a generating unit is pseudo-tied out of the Native Balancing Authority and into the Attaining Balancing Authority such that a unique share resides in each Balancing Authority, the Attaining Balancing Authority will send dispatch instructions to the portion of the resource committed to the Attaining Balancing Authority. The Native Balancing Authority will send dispatch instructions to the resource committed to the Native Balancing Authority.

11.3.4 Station Service.

PJM and MISO agree that the entity pseudo-tying the unit from the Native Balancing Authority Area to the Attaining Balancing Authority Area will obtain station service for the pseudo-tied unit in accordance with the rules of the Native Balancing Authority.

11.3.5 Non-recallability.

PJM and MISO agree that the pseudo-tied unit is non-recallable to the extent it is committed as a PJM Generation Capacity Resource or MISO Capacity Resource for a Delivery Year to ensure that the unit will not be directed to serve load in the Native Balancing Authority Area at a time when the Attaining Balancing Authority Area requires the output of the unit. However, a pseudo-tied unit may be committed, de-committed or re-dispatched, for local SOL or IROLs by the Native RC per the PJM – MISO Pseudo-Tied Units Operating Procedure or Safe Operating Mode. If time permits, any instructions to a pseudo-tied unit will go through the Attaining Balancing Authority. PJM and MISO agree that any energy produced by the pseudo-tied unit during the transmission emergency will be delivered to the Attaining BA.

11.3.6 Losses.

PJM and MISO agree that the entity seeking to Pseudo-Tie will be responsible for loss compensation to deliver its energy to or receive its energy from the Native Balancing Authority to the Attaining Balancing Authority. Pseudo-tie value(s) will be calculated net of losses at the high voltage side of the generator step up transformer.

11.3.7 Suspension.

PJM and MISO reserve the right to suspend a pseudo-tie if the entity that pseudotied the unit no longer satisfies the PJM or MISO requirements for pseudo-ties, criteria for participation in the Attaining Balancing Authority's markets as an external resource, or other applicable requirements (as detailed in respective PJM and MISO tariffs and manuals), if the entity that pseudo-tied the unit commits a material default under its pseudo-tie agreement or has failed to cure any breach of such agreement, or if PJM or MISO reasonably determines that the pseudo-tie poses a risk to system reliability or risk of violation of established reliability criteria, by giving immediate notice of suspension. Suspension shall be coordinated between PJM and MISO and may include but not be limited to decommitting the unit or requiring the unit to follow manual dispatch instructions. During any suspension period, the pseudo-tied generating unit shall remain under the operational control of the Attaining Balancing Authority and shall not be under the operational control of Native Balancing Authority.

11.3.8 Termination.

PJM and MISO shall each have the right to terminate a pseudo-tie between their respective Balancing Authorities in accordance with their respective tariffs and the notice provisions below. PJM and MISO shall coordinate the change to the pseudo-tie status.

11.3.9 Notice of Termination.

Notification regarding termination of a pseudo-tie between the MISO Balancing Authority Area and the PJM Balancing Authority Area shall be provided as follows:

- (a) The Balancing Authority seeking to terminate the pseudo-tie of a PJM Generation Capacity Resource, for any reason other than the reasons described in subsection (b) below, shall give the other Balancing Authority and the entity that pseudo-tied the unit at least forty-two (42) months written notice prior to the commencement of a PJM Delivery Year, for any reason, subject to receiving all necessary regulatory approvals for such termination.
- (b) The Balancing Authority seeking to terminate the pseudo-tie of any Generation Resource for the reasons described in this subsection (b) shall give the other Balancing Authority and the entity that pseudo-tied the unit at least sixty (60) days' written notice of such termination request.
 - (i) The entity that pseudo-tied the unit into the Attaining BA no longer satisfies the Attaining BA's or Native BA's requirements for pseudo-ties, or
 - (ii) The entity that pseudo-tied the unit into the PJM BA no longer satisfies PJM's criteria for participation in its markets for an external resource, or
 - (iii)The entity that pseudo-tied the unit into the Attaining BA commits a material default of the terms of the pseudo-tie agreement with Attaining BA or Native BA, or
 - (iv)The entity that pseudo-tied the unit into the Attaining BA has failed to cure any breach of such agreement, or
 - (v) The Attaining BA or Native BA experiences an emergency or other unforeseen, adverse condition that may impair or degrade the reliability of the transmission system such as, but not limited to, a transmission constraint that impairs the reliability of the Attaining BA's or Native BA's transmission system or a condition that causes the pseudo-tied unit to become undeliverable.
- (c) A notice of cancellation will be filed with the Commission, if required. Termination shall be effective as of the date specified in the notification of cancellation, or following acceptance by the Commission, if required.

ARTICLE XII EFFECTIVE DATE

12.1

The Parties agree to file this Agreement jointly with FERC on or before December 31, 2003 and to cooperate with each other as necessary and appropriate to facilitate such filing. In that filing, the Parties shall request FERC to approve an effective date 60 days after filing ("Effective Date").

ARTICLE XIII JOINT RESOLUTION OF MARKET MONITOR ISSUES

13.1 Market Monitoring Protocols.

In addition to, as otherwise already provided in this Agreement, the Parties agree to address the matters raised and recommendations contained in a filing that the Parties' respective Market Monitors made on July 28, 2003 in Docket No. EL03-35-002, in response to the FERC order issued in *Midwest Independent Transmission System Operator, Inc.*, 103 FERC ¶ 61,210.

ARTICLE XIV COOPERATION AND DISPUTE RESOLUTION PROCEDURES

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XIV - COOPERATION AND DISPUTE RESOLUTION PR --> MISO-JOA 14.1 Administration of Agreement.

14.1 Administration of Agreement.

The ISC shall perform the following with respect to this Agreement:

- (a) Meet no less than once annually to determine whether changes to this Agreement would enhance reliability, efficiency, or economy and to address other matters concerning this Agreement as either Party may raise.
- (b) Conduct additional meetings upon Notice given by either Party, provided that the Notice specifies the reason for the requested meeting.
- (c) Establish task forces and working committees as appropriate to address any issues a Party may raise in furtherance of the objectives of this Agreement.
- (d) Conduct dispute resolution in accordance with this Article.
- (e) Initiate process reviews at the request of either Party for activities undertaken in the performance of this Agreement.

The ISC shall have the authority to make decisions on issues that arise during the performance of the Agreement based upon consensus of the Parties' representatives thereto.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XIV - COOPERATION AND DISPUTE RESOLUTION PR --> MISO-JOA 14.2 Dispute Resolution Procedures.

14.2 Dispute Resolution Procedures.

The Parties shall attempt in good faith to achieve consensus with respect to all matters arising under this Agreement and to use reasonable efforts through good faith discussion and negotiation to avoid and resolve disputes that could delay or impede either Party from receiving the benefits of this Agreement. These dispute resolution procedures apply to any dispute that arises from either Party's performance of, or failure to perform, this Agreement and which the Parties are unable to resolve prior to invocation of these procedures.

14.2.1 Step One.

In the event a dispute arises, a Party shall give written notice of the dispute to the other Party. Within ten (10) days of such Notice, the ISC shall meet and the Parties will attempt to resolve the Dispute by reasonable efforts through good faith discussion and negotiation. Each Party shall also be permitted to bring no more than two (2) other individuals to ISC meetings held under this step as subject matter experts; however, all representatives must be employees of the Party they represent. In addition, if the Parties agree that legal representation would be useful in connection with a meeting, each Party may bring two (2) attorneys (who need not be employees of the Party they represent). In the event the ISC is unable to resolve within twenty (20) days of such Notice, either Party shall be entitled to invoke Step 2.

14.2.2 Step Two.

A Party may invoke Step 2 by giving Notice thereof to the ISC. In the event a Party invokes Step 2, the ISC shall, in writing, and no later than five (5) days after the Notice, refer the dispute in writing to the Parties' Presidents for consideration. The Parties' Presidents shall meet in person no later than fourteen (14) days after such referral and shall make a good faith effort to resolve the dispute. The Parties shall serve upon each other, written position papers concerning the dispute, no later than forty-eight (48) hours in advance of such meeting. In the event the Parties' Presidents fail to resolve the dispute, either Party shall be entitled to invoke Step Three.

14.2.3 Step Three.

Upon the demand of either Party, the dispute shall be referred to the FERC's Office of Dispute Resolution for mediation, and upon a Party's determination at any point in the mediation that mediation has failed to resolve the dispute, either Party may seek formal resolution by initiating a proceeding before the FERC.

14.2.4 Exceptions.

In the event of disputes involving Confidential Information, infringement or ownership of Intellectual Property or rights pertaining thereto, or any dispute where a Party seeks temporary or preliminary injunctive relief to avoid alleged immediate and irreparable harm, the procedures stated in Section 14.2 and its subparts shall apply but shall not preclude a Party from seeking such temporary or preliminary injunctive relief, provided, that if a Party seeks such judicial relief but fails to obtain it, the Party seeking such relief shall pay the reasonable attorneys' fees and costs of the other Party incurred with respect to opposing such relief.

ARTICLE XV RELATIONSHIP OF THE PARTIES

15.1 Relationship Between this Agreement and Joint and Common Market Agreement.

The Parties agree that execution of this Agreement will further enable the Parties to address many of the specific tasks that are required prior to the creation of a joint and common market between the Parties. Specifically, Articles III through XI of this Agreement detail certain assignments that may pertain to the joint and common market. To ensure efficient handling of tasks hereunder and under the Joint and Common Market Agreement, the Parties hereby agree as follows:

15.1.1 Avoiding Duplication of Efforts.

The Parties agree that to the extent that the tasks specified in Articles III through XI of this Agreement are duplicative of projects being pursued under the Joint and Common Market Agreement, the Parties will utilize this Agreement to pursue those assignments to minimize duplicative efforts. The Parties therefore agree that the Joint and Common Market Agreement will be deemed to be superseded by this Agreement only to the extent necessary to accomplish the assignments in Articles III through XI.

15.1.2 <u>Making Necessary Amendments to the Joint and Common Market</u> Agreement.

The Parties agree to amend the Joint and Common Market Agreement to carry out the purposes of Section 15.1.1 within thirty (30) days after the Effective Date of this Agreement, to the extent amendment may be required under the terms of the Joint and Common Market Agreement.

ARTICLE XVI ACCOUNTING AND ALLOCATION OF COSTS OF JOINT OPERATIONS

16.1 Revenue Distribution.

This Agreement does not modify any FERC approved agreement between a Party and the owners of the transmission facilities over which the Party exercises control with regard to revenue distribution. All distribution of revenue received under this Agreement shall be distributed by the Party receiving such revenue in accordance with the terms of such Party's agreement with the transmission owners.

16.2 Billing and Invoicing Procedures.

Except as specifically set forth in this Agreement, each Party shall render invoices to the other Party for amounts due under this Agreement in accordance with its customary billing practices (or as otherwise agreed between the Parties) and payment shall be due in accordance with the invoicing Party's customary payment requirements (unless otherwise agreed). All payments shall be made in immediately available funds payable to the invoicing Party by wire transfer pursuant to instructions set out by the Parties from time to time. Interest on any amounts not paid when due shall be calculated in accordance with the methodology specified for interest on refunds in the Commission's regulations at 18 C.F.R. § 35.19a(a)(2)(iii).

16.3 Access to Information by the Parties.

Each Party grants the other Party, acting through its officers, employees and agents such access to the books and records of the other as is necessary to audit and verify the accuracy of charges between the Parties under this Agreement. Such access to records shall be at the location of the Party whose books and records are being reviewed pursuant to this Agreement and shall occur during regular business hours.

ARTICLE XVII RETAINED RIGHTS OF PARTIES

17.1 Parties Entitled to Act Separately.

This Agreement does not create or establish, and shall not be construed to create or establish, any partnership or joint venture between the Parties. This Agreement establishes terms and conditions solely of a contractual relationship, between two independent entities, to facilitate the achievement of the joint objectives described in the Agreement. The contractual relationship established hereunder implies no duties or obligations between the Parties except as specified expressly herein. All obligations hereunder shall be subject to and performed in a manner that complies with each Party's internal requirements; provided, however, this sentence shall not limit either Party's payment obligation under Article XVI or indemnity obligation under Section 18.3.1 or Section 18.3.2, respectively.

17.2 Agreement to Jointly Make Required Tariff Changes to Implement Agreement.

The Parties agree that they shall cooperate in good faith in the filing of any Section 205 filings before FERC that may be required to implement the terms of this Agreement, including revisions to a Party's OATT as necessary to implement Sections 6.2, 6.3, 9.4.1, and 9.4.2 of this Agreement. Whenever practicable, the Parties agree that they shall make simultaneous filings with FERC concerning such tariff filings.

ARTICLE XVIII ADDITIONAL PROVISIONS

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.1 Confidentiality.

18.1 Confidentiality.

18.1.1 Definition.

The term "Confidential Information" shall mean: (a) all information, whether furnished before or after the mutual execution of this Agreement, whether oral, written or recorded/electronic, and regardless of the manner in which it is furnished, that is marked "confidential" or "proprietary" or which under all of the circumstances should be treated as confidential or proprietary; (b) any information deemed confidential under some other form of confidentiality agreement or tariff provided to a Party by a generator; (c) all reports, summaries, compilations, analyses, notes or other information of a Party hereto which are based on, contain or reflect any Confidential Information; (d) applicable material deemed Confidential Information pursuant to the PJM Data Confidentiality Regional Stakeholder Group, and (e) any information which, if disclosed by a transmission function employee of a utility regulated by the FERC to a market function employee of the same utility system, other than by public posting, would violate the FERC's Standards of Conduct set forth in 18 C.F.R. § 37, *et seq.* and the Parties' Standards of Conduct on file with the FERC.

18.1.2 Protection.

During the course of the Parties' performance under this Agreement, a Party may receive or become exposed to Confidential Information. Except as set forth herein, the Parties agree to keep in confidence and not to copy, disclose, or distribute any Confidential Information or any part thereof, without the prior written permission of the issuing Party. In addition, each Party shall ensure that its employees, its subcontractors and its subcontractors' employees and agents to whom Confidential Information is exposed agree to be bound by the terms and conditions contained herein. Each Party shall be liable for any breach of this Section by its employees, its subcontractors and its subcontractors' employees and agents.

This obligation of confidentiality shall not extend to information that, at no fault of the recipient Party, is or was (1) in the public domain or generally available or known to the public; (2) disclosed to a recipient by a third party who had a legal right to do so; (3) independently developed by a Party or known to such Party prior to its disclosure hereunder; and (4) which is required to be disclosed by subpoena, law or other directive or a court, administrative agency or arbitration panel, in which event the recipient hereby agrees to provide the issuing Party with prompt Notice of such request or requirement in order to enable the issuing Party to (a) seek an appropriate protective order or other remedy, (b) consult with the recipient with respect to taking steps to resist or narrow the scope of such request or legal process, or (c) waive compliance, in whole or in part, with the terms of this Section. In the event that such protective order or other recipient hereby agrees to furnish only that portion of the Confidential Information which the recipient's counsel advises is legally required and to exercise best efforts to obtain assurance that confidential treatment will be accorded to such Confidential Information.

18.1.3 Confidential Data Exchange.

The Parties agree that various components of the data exchanged under Article IV, are Confidential Information and that, in addition to the protections of Confidential Information provided under Section 18.1.2

- (a) The Party receiving the Confidential Information shall treat the information in the same confidential manner as its Governing Documents require it treat the confidential information of its own members and market participants.
- (b) The receiving Party shall not release the producing Party's Confidential Information until expiration of the time period controlling the producing Party's disclosure of the same information, as such period is described in the producing Party's Governing Documents from time to time. As of the Effective Date, this period is six (6) months with respect to bid or pricing data and seven (7) calendar days for transmission data after the event ends.
- (c) All other prerequisites applicable to the producing Party's release of such Confidential Information have been satisfied as determined by the producing Party.
- (d) Notwithstanding anything to the contrary in this Agreement, EMS models and the data used for current and future EMS modeling exchanged pursuant to §4.1 may be released to each party's Transmission Owners for operational or reliability compliance purposes. Each party shall require their Transmission Owners to maintain EMS models and the related data as confidential in a manner consistent with or superior to the terms and conditions contained therein.

18.2 Protection of Intellectual Property.

18.2.1 Unauthorized Transfer of Third-Party Intellectual Property.

In the performance of this Agreement, no Party shall transfer to the other Party any Intellectual Property the use of which by the other Party would constitute an infringement of the rights of any third party. In the event such transfer occurs, whether or not inadvertent, the transferring Party shall, promptly upon learning of the transfer, provide Notice to the receiving Party and upon receipt of Notice shall take reasonable steps to avoid claims and mitigate losses.

18.2.2 Intellectual Property Developed Under this Agreement.

In the event in the course of performing this Agreement the Parties mutually develop any new Intellectual Property that is reduced to writing, the Parties shall negotiate in good faith concerning the ownership and licensing thereof.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.3 Indemnity.

18.3 Indemnity.

18.3.1 Indemnity of MISO.

PJM will defend, indemnify and hold MISO harmless from all actual losses, damages, liabilities, claims, expenses, causes of action, and judgments (collectively "Losses"), brought or obtained by third parties against MISO, only to the extent such Losses arise directly from:

- (a) Gross negligence, recklessness, or willful misconduct of PJM or any of PJM's agents or employees, in the performance of this Agreement, except to the extent the Losses arise (i) from gross negligence, recklessness, willful misconduct or breach of contract or law by MISO or any of MISO's agents or employees, or (ii) as a consequence of strict liability imposed as a matter of law upon MISO or MISO's agents or employees;
- (b) Any claim that PJM violated any copyright, patent, trademark, license, or other intellectual property right of a third party in the performance of this Agreement;
- (c) Any claim arising from the transfer of Intellectual Property in violation of Section 18.2.1; or
- (d) Any claim that PJM caused bodily injury to an employee of MISO due to negligence, recklessness, or willful conduct of PJM.

18.3.2 Indemnity of PJM.

MISO will defend, indemnify and hold PJM harmless from all actual losses, damages, liabilities, claims, expenses, causes of action, and judgments (collectively "Losses"), brought or obtained by third parties against PJM, only to the extent such Losses arise directly from:

- (a) Gross negligence or recklessness, or willful misconduct of MISO or any of MISO's agents or employees, in the performance of the Agreement, except to the extent the Losses arise (i) from gross negligence, recklessness, willful misconduct or breach of contract or law by PJM or any of PJM's agents or employees, or (ii) as a consequence of strict liability imposed as a matter of law upon PJM or PJM's agents or employees;
- (b) Any claim that MISO violated any copyright, patent, trademark, license, or other intellectual property right of a third party in the performance of this Agreement;
- (c) Any claim arising from the transfer of Intellectual Property in violation of Section 18.2.1; or

(d) Any claim that MISO caused bodily injury to an employee of PJM due to negligence, recklessness, or willful conduct of MISO.

18.3.3 <u>Damages Limitation</u>.

18.3.3.1

Except for amounts required to be paid under Article 16.2 by one Party to the other under this Agreement, and except for amounts due under Sections 18.3.1 and 18.3.2, no Party shall be liable to the other Party, directly or indirectly, for any damages or losses of any kind sustained due to any failure to perform this Agreement, unless such failure to perform was malicious or reckless. The limitation of liability shall not apply to billing adjustments for errors in invoiced amounts due under this Agreement, provided such billing adjustments are made within the claims limitation period under Section 18.3.4 of this Agreement.

18.3.3.2

Except for amounts required to be paid by one Party to the other under this Agreement, and except for amounts due under Sections 18.3.1 and 18.3.2, any liability of a Party to the other Party hereunder shall be limited to direct damages as qualified by the following sentence. No lost profits, damages to compensate for lost goodwill, consequential damages, or punitive damages shall be sought or awarded.

18.3.4 Limitation on Claims

No claim seeking an adjustment in the billing for any service, transaction, or charge under this Agreement may be asserted with respect to a month, if more than one year has elapsed since the first date upon which the invoice was rendered for the billing for that month. A Party shall make no adjustment to billing with respect to a month for any service, transaction, or charge under this Agreement, if more than one year has elapsed since the first date upon which the invoice was rendered for the billing for that month, unless a claim seeking such adjustment had been received by the Party prior thereto, provided, however, that no adjustments to billing or resettlement shall be made for any claims asserted within the first year following the date of the filing of the Settlement Agreement and Offer of Settlement ("Settlement") in Docket Nos. EL10-45 et al. for any time period prior to the date of filing of the Settlement.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.4 Effective Date and Termination Provision.

18.4 Effective Date and Termination Provision.

The term of this Agreement commences as provided in Section 12.1. The Agreement shall terminate and cease to be effective upon FERC acceptance of the mutual agreement by the Parties to terminate the Agreement or other FERC order terminating the Agreement. Nothing in this Agreement shall prejudice the right of either Party to seek termination of this Agreement under Section 206 of the Federal Power Act, or successor section or statute thereof.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.5 Survival Provisions.

18.5 Survival Provisions.

Upon termination or expiration of this Agreement for any reason or in accordance with its terms, the following Articles and Sections shall be deemed to have survived such termination or expiration:

Article II - (Abbreviations, Acronyms and Definitions) Article XVI - (Accounting and Allocation of Costs of Joint Operations) Article XVII- (Retained Rights of the Parties) Article XVIII- (Additional Provisions), except Section 18.11 (Execution of Counterparts) and Section 18.12 (Amendment) Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.6 No Third-Party Beneficiaries.

18.6 No Third-Party Beneficiaries.

This Agreement is intended solely for the benefit of the Parties and their respective successors and permitted assigns and is not intended to and shall not confer any rights or benefits on, any third party (other than the Parties' successors and permitted assigns).

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.7 Successors and Assigns.

18.7 Successors and Assigns.

This Agreement shall inure to the benefit of and be binding upon the Parties and their respective successors and assigns permitted herein, but shall not be assigned except (a) with the written consent of the non-assigning Party, which consent may be withheld in such Party's absolute discretion; and (b) in the case of a merger, consolidation, sale, or spin-off of substantially all of a Party's assets. In the case of any merger, consolidation, reorganization, sale, or spin-off by a Party, the Party shall assure that the successor or purchaser adopts this Agreement and, the other Party shall be deemed to have consented to such adoption.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.8 Force Majeure.

18.8 Force Majeure.

No Party shall be in breach of this Agreement to the extent and during the period such Party's performance is made impracticable by any unanticipated cause or causes beyond such Party's control and without such Party's fault or negligence, which may include, but are not limited to, any act, omission, or circumstance occasioned by or in consequence of any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, or curtailment, order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities. Upon the occurrence of an event considered by a Party to constitute a *force majeure* event, such Party shall use reasonable efforts to endeavor to continue to perform its obligations as far as reasonably practicable and to remedy the event, provided that this Section shall require no Party to settle any strike or labor dispute.

A Party claiming a *force majeure* event shall notify the other Party in writing immediately and in no event later forty-eight (48) hours after the occurrence of the *force majeure* event. The foregoing notwithstanding, the occurrence of a cause under this Section shall not excuse a Party from making any payment otherwise required under this Agreement.
Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.9 Governing Law.

18.9 Governing Law.

This Agreement shall be interpreted, construed and governed by the applicable federal law and the laws of the state of Delaware without giving effect to its conflict of law principles.

18.10 Notice.

Whether expressly so stated or not, all notices, demands, requests and other communications required or permitted by or provided for in this Agreement ("Notice") shall be given in writing to a Party at the address set forth below, or at such other address as a Party shall designate for itself in writing in accordance with this Section, and shall be delivered by hand or reputable overnight courier:

PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon, PA 19403 Attention: General Counsel

Midcontinent Independent System Operator, Inc.

For Parcels: 720 City Center Drive Carmel, Indiana 46032 Attention: General Counsel

For U.S. Mail: P.O. Box 4202 Carmel, Indiana 46082-4202 Attention: General Counsel Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.11 Execution of Counterparts.

18.11 Execution of Counterparts.

This Agreement may be executed in any number of counterparts, each of which shall be an original but all of which together will constitute one instrument, binding upon the Parties hereto, notwithstanding that both Parties may not have executed the same counterpart.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XVIII - ADDITIONAL PROVISIONS --> MISO-JOA 18.12 Amendment.

18.12 Amendment.

Except as may otherwise be provided herein, neither this Agreement nor any of the terms hereof may be amended unless such amendment is in writing and signed by the Parties and such amendment has been accepted by the FERC.

ARTICLE XIX VOLTAGE CONTROL AND REACTIVE POWER COORDINATION

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XIX - VOLTAGE CONTROL AND REACTIVE POWER CO --> MISO-JOA 19.1 Coordination Objectives.

19.1 Coordination Objectives.

Each Party acknowledges that voltage control and reactive power coordination are essential to promote reliability. Therefore, the Parties establish procedures ("Voltage and Reactive Power Coordination Procedures") under this Article by which they shall conduct such coordination.

19.1.1 Contents of Voltage and Reactive Power Coordination Procedures.

The Voltage and Reactive Power Coordination Procedures address the following components: (a) procedures to assist the Parties in maintaining a wide area view of interconnection conditions by enhancing the coordination of voltage and reactive levels throughout their RTO footprints; (b) procedures to ensure the maintenance of sufficient reactive reserves to respond to scenarios of high load periods, loss of critical reactive resources, and unusually high transfers; and (c) procedures for sharing of data with other neighboring RCs for their analysis and coordinated operation.

19.1.2

The Parties will review the Voltage and Reactive Power Coordination Procedures from time to time to make revisions and enhancements as appropriate to accommodate additional capabilities or changes to industry reliability requirements.

Interregional Agreements --> MISO-JOA --> MISO-JOA ARTICLE XIX - VOLTAGE CONTROL AND REACTIVE POWER CO --> MISO-JOA 19.2 Voltage and Reactive Power Coordination Proced

19.2 Voltage and Reactive Power Coordination Procedures.

The Parties will utilize the following procedures to coordinate the use of voltage control equipment to maintain a reliable bulk power transmission system voltage profile on their respective systems.

19.2.1

Under normal conditions, each Party will coordinate with the Transmission Owners, the TOPs and the BAs as necessary and feasible to supply its own reactive load and losses at all load levels.

19.2.2

Voltage schedule coordination is the responsibility of each Party. Generally, the voltage schedule is determined based on conditions in the proximity of generating stations and EHV stations with voltage regulating capabilities. Each Party works with its respective Transmission Owners, TOPs, and BAs to determine adequate and reliable voltage schedules considering actual and post-contingency conditions.

19.2.3

Each Party will establish voltage limits at critical locations within its own system and exchange this information with the other Party. This information shall include normal high voltage limits, normal low voltage limits, post-contingency emergency high voltage limits and post-contingency emergency low voltage limits, and, shall identify the voltage limit value (if available) at which load shedding will be implemented.

19.2.4

Each Party will maintain awareness of the voltage limits in the other Party's area (where the EMS Model includes sufficient detail to permit this) and awareness of outages and potential contingencies that could result in violation of those voltage limits.

19.2.5

The Parties will utilize the following voltage support level definitions for pre- or postcontingency conditions in the development of RTO-coordinated voltage support requests:

19.2.5.1 Emergency Heavy.

This support is necessary when there is an actual low voltage situation due to high loads, heavy transfers, or a critical contingency.

19.2.5.2 Heavy.

This support is necessary in anticipation of high loads or heavy transfers in order to prevent the occurrence of low voltage situations that could result in transfer curtailments.

19.2.5.3 Normal On-Peak.

Reactive support is needed to supply normal loads during peak conditions. No unusually high loads or transfers are expected.

19.2.5.4 Normal Off-Peak.

Reactive support is needed for normal loadings during non-peak conditions. No minimum loads or transfers are expected.

19.2.5.5 Light.

Reactive support is necessary to avoid high voltage due to anticipated minimum load or transfer conditions.

19.2.5.6 Emergency Light.

Reactive support is needed when there is an actual high voltage situation due to minimum loads, transfers, and/or critical contingency.

19.2.6

Each Party shall maintain a list of actions that are taken for each level of voltage support listed in Section 19.2.5. The following outlines some of the actions a Party can take to respond to anticipated or prevailing system conditions.

19.2.6.1 Emergency Heavy.

- (i) Ensure capacitors are in service;
- (ii) Reduce generation, as possible, to maximize reactive output on all units in area of concern;
- (iii) Supply maximum VAR generation (if practical reduce generation to increase reactive output);
- (iv) Adjust EHV tap changers to maximize reactive support to the EHV systems;
- (v) Reduce transfers.

19.2.6.2 Heavy.

- (i) Check all bulk power capacitors;
- (ii) Request Transmission Owners' dispatchers to verify that all capacitors are in service;
- (iii) Adjust EHV tap changers to increase reactive support to the EHV system;
- (iv) Increase generator VAR output to increase support of EHV voltage;
- (v) Maximum reactive output on all EHV generating units, at current MW loading level and within current operating restrictions.

19.2.6.3 Normal On-Peak.

- (i) Bring on capacitors to maintain reactive reserve on generation units;
- (ii) Adjust TCUL transformer set-points to keep capacitors in service;
- (iii) Hold on-peak voltage schedule at all generating stations;

- (iv) Follow normal on-peak voltage schedules;
- (v) Operate capacitors and EHV transformers to tune system voltage.

19.2.6.4 Normal Off-Peak.

- (i) Switch off capacitors as necessary to keep generators at unity or lagging Power Factor;
- (ii) Hold off-peak voltage schedule at all generating stations.

19.2.6.5 Light.

- (i) Deviate from off-peak voltage schedule at generation stations to reduce system voltage without exceeding normal station limits;
- (ii) Request Transmission Owners to switch out all underlying capacitors;
- (iii) Switch out bulk power capacitors;
- (iv) Operate pumped storage generation in pumping mode;
- (v) Adjust EHV transformers so that the EHV system voltages reach their maximum limits simultaneously;
- (vi) Request Transmission Owners to adjust available subtransmission and distribution transformers so that both the high and low side reach maximum voltage limits simultaneously;
- (vii) With advance warning, impose contractual minimums;
- (viii) Allow generating units to operate with leading power factor.

19.2.6.6 Emergency Light.

(i) Open select EHV lines as studies and conditions permit.

19.2.7 Periodic Meetings.

As part of seasonal preparations, the Parties will conduct meetings to discuss issues due to the anticipated conditions and determine any actions that may be required in response to voltage concerns. The Parties will provide the voltage schedule information on an annual basis to ensure that the information is current.

19.2.8 Additional Coordination.

In concert with the coordination of Outages addressed in Article VII and the Parties' respective day-ahead security analysis processes, the Parties will coordinate the impact of outages and system conditions on the voltage/reactive profile. Coordination will include the following elements:

19.2.8.1

Each Party will review its forecasted loads, transfers, and all information on available generation and transmission reactive power sources at the beginning of each shift.

19.2.8.2

Within the range of Normal On-Peak and Normal Off-Peak, each Party will operate independently in accordance with the above stated criteria and any individual system guidelines for the supply of the Party's reactive power requirements.

19.2.8.3

If either Party anticipates reactive problems after the review, it may request joint implementation of Heavy or Light reactive support levels under these Voltage and Reactive Power Coordination Procedures, as it deems appropriate to the situation. When a Party calls for a particular level of support to be implemented under these procedures, it or the applicable TOP/BA must identify the time it will start adjusting its system, the support level it is implementing, and the voltage problem area.

19.2.8.4

If a Party experiences an actual low or high voltage condition after initial reactive support measures are taken, then the emergency reactive support level is implemented for the area experiencing the problem. The Party will also notify applicable RCs as soon as feasible. In addition, the Voltage and Reactive Power Coordination Procedures are to be consulted to determine if further action is necessary to correct an undesirable voltage situation.

19.2.9 Voltage Schedule Coordination.

The Parties will coordinate the use of voltage control equipment to maintain a reliable bulk power transmission system voltage profile on the the Parties' systems, and surrounding systems. Providing reactive power and proper voltage support to a large interconnected power system is an iterative process. Reactive support starts at the distribution and sub-transmission levels as load increases, substation capacitors are switched, tap changing transformers, and generating unit MVAR outputs are adjusted in concert to hold overall system voltage levels. In general, the voltage schedules are determined by the local TOP based on the local design characteristics and equipment availability. The following procedures are intended to ensure that bulk systems voltage levels enhance system reliability.

19.2.9.1 Specific Voltage Schedule Coordination Actions.

- (a) Each Party has operational or functional control of reactive sources within its system and will direct adjustments to voltage schedules at appropriate facilities.
- (b) Each Party generally will adjust its voltage schedules to best utilize its resources for operation prior to coordinated actions with the other Party.
- (c) If a Party anticipates voltage or reactive problems, it will inform the other Party (operations planning with respect to future day and

RC with respect to same day) of the situation, describe the conditions, and request voltage/reactive support under these Procedures. As a part of the request, the Party must identify the specific area where voltage/reactive support is requested and provide an estimate of the magnitude and time duration of the request as well as the specific requirements for reactive support. The Parties will determine the appropriate measures to address the condition and develop a plan of action.

- (d) Each Party will contact its affected Transmission Owner/TOP/BA. The purpose of this call is to ensure that the situation is fully understood and that an effective operating plan to address the situation has been developed. If necessary the Parties will convene a conference call with the affected Transmission Owners TOPs, and BAs.
- (e) Each Party will implement or direct voltage schedule changes requested by the other Party, provided that a Party may decline a requested change if the change would result in equipment violations or reduce the effective operation of its facilities. A Party that declines a requested change must inform the requesting Party that the request cannot be granted and state the reason for denial.

19.2.10 Voltage/Reactive Transfer Limits.

19.2.10.1

Each Party has wide area transfer interfaces where a MW surrogate is used to control voltage collapse conditions. In cases where the potential for collapse (or cascading) is identified, prompt voltage support and MW generation adjustments may be needed. Where coordinated effort is required for voltage stability interfaces, generation adjustment requests to avoid voltage collapse or cascading conditions must be clearly communicated and implemented promptly. Using these limits the Parties will implement the following real-time coordination:

(a) At 95% of Interface Limit

- A Party which observes the reading shall call the other Party. Regardless of which Party sees the 95% level reached, both Parties will immediately re-run their analyses to verify results.
- (ii) The monitoring Party with the preponderance of the flows will notify other RCs via the RCIS.
- (iii) The Parties will contact the affected TOP/BAs to discuss reactive outputs and adjustments required.

(iv) The applicable Party takes appropriate actions, which may include re-dispatching generation and directing schedule curtailments.

(b) Exceeding Interface Limit

- (i) The Party observing the reading will declare an <u>emergency</u>.
- (ii) That Party will inform other RCs of the emergency.
- (iii) The applicable Party will take immediate action, which may include generation redispatch, ordering immediate schedule curtailments, and, if required, load shedding.

19.2.10.2

Where feasible, and if both Parties' EMS models have sufficient detail, each Party will attempt to duplicate the other Party's wide area transfer interface evaluation in order to provide backup limit calculation in the event that the primary Party is unable to accurately determine the appropriate reliability limits.

19.2.10.3

If a new wide area transfer interface is determined to exist and detailed modeling does not exist for the interface, the Parties will coordinate to determine how their models need to be enhanced and to determine procedures for coordination in furtherance of the enhancement.

ARTICLE XX CHANGE MANAGEMENT PROCESS

- **20.1** Notice. Prior to making a change to any processes that would affect the implementation of the market-to-market process under this Agreement, including (i) the determination of market-to-market settlements, and (ii) revisions to a Party's chosen methodology and calculations to account for import and export tagged transactions from section 4.1.1 of Attachment 2 of the JOA, the Party desiring the change shall notify the other Party in writing or via email of the proposed change. The notice shall include a complete and detailed description of the proposed change, the reason for the proposed change, and the impacts the proposed change will have on the implementation of the market-to-market settlements under this Agreement.
- **20.2 Response to Notice.** Within a reasonable time after receipt of the Notice described in Section 20.1, the receiving Party shall: (a) notify in writing or by email the other Party of its concurrence with the proposed change; (b) request in writing or via email additional documentation from the other Party, including associated test documentation; (c) notify in writing or via email the other Party of its disagreement with the proposed change and request that issue regarding the proposed change be addressed pursuant to the dispute resolution procedures set forth in Article XIV of this Agreement. In the event that the receiving Party requests additional documentation as described in (b), within a reasonable time after receipt of such information, it shall notify the other Party in writing or via email that it concurs with the change or that it requests dispute resolution pursuant to Article XIV of this Agreement.
- **20.3 Implementation of Change.** The Party proposing a change to its market-to-market implementation process shall not implement such change until it receives written or email notification from the other Party that the other Party concurs with the change or until completion of any dispute resolution process initiated pursuant to Article XIV of this Agreement. Neither Party shall unduly delay its obligations under this Article XX so as to impede the other Party from timely implementation of a proposed change.
- **20.4** Summary of Proposed Changes. On a quarterly basis, the Parties shall post on their respective websites a summary of market-to-market implementation process changes proposed by the Parties in the prior quarter and the status of such changes.

ARTICLE XXI BIENNIAL REVIEW OF PROCESS CHANGES

- **21.1 Biennial Review.** Commencing two years after the issuance of the Baseline Review Report described in the Settlement Agreement and Offer of Settlement ("Settlement") filed in Docket Nos. EL10-45-000 et al. and every two years thereafter, the Parties shall conduct a comprehensive review of the changes made to each Party's processes used to implement this Agreement since the previous biennial review, or in the case of the first biennial review, changes made since the issuance of the Baseline Review Report.
- **21.2 Posting of Biennial Review.** The Parties shall post the results of each biennial review on their respective websites.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives.

PJM INTERCONNECTION, L.L.C.

By: A. h. re. Name: Richard A. Wodyka

Title: Senior Vice President – RTO Coordination and Integration

Date: December 31, 2003

MIDWEST INDEPENDENT TRANSMISSION SYSTEM OPERATOR, INC.

By: Name: fgerson President and Chief Executive Officer Tille

Date:

ATTACHMENT 1

[RESERVED FOR FUTURE USE]

ATTACHMENT 2

Congestion Management Process (CMP) MASTER

Executive Summary

This Congestion Management Process' document provides significant detail in the areas of Market Flow Calculation. These additional details are the result of discussions between multiple Operating Entities.

As Operating Entities expand and implement their respective markets, one of the primary seams issues that must be resolved is how different congestion management methodologies (marketbased and traditional) will interact to ensure that parallel flows and impacts are recognized and controlled in a manner that consistently ensures system reliability. This proposed solution will greatly enhance current Interchange Distribution Calculator (IDC) granularity by utilizing existing real-time applications to monitor and react to Flowgates external to an Operating Entity's footprint.

In brief, the process includes the following concepts:

- *Participating Operating Entities will agree to observe limits on an extensive list of coordinated external Flowgates.*
- Like all Control Areas (CA), Market-Based Operating Entities will have Firm and non-Firm GTL flows upon those Flowgates.
- In real-time, Market-Based Operating Entities will calculate and monitor one-hour ahead projected and actual flows.
- The IDC will calculate GTL flows for Operating Entities using the State Estimator data provided by the entities.
- Market-Based Operating Entities will calculate the actual and the one-hour ahead projected Firm and non-Firm limits for both internal and external Coordinated Flowgates.
- Market-Based Operating Entities will constrain their operations to limit Firm GTL flows on the Coordinated Flowgates to no more than the calculated Firm Flow Limit established in the analysis.
- Market-Based Operating Entities will provide to the IDC detailed representation of their marginal units, so that the IDC can continue to effectively compute the effects of all tagged transactions regardless of the size of the market area. These tagged transactions will include transactions into the market, transactions out of the market, transactions through the market, and tagged grandfathered transactions within the market.

¹ Capitalized terms that are not defined in this Attachment 2 shall have the meaning set forth in the body, appendices, and attachments of the *Joint Operating Agreement Between Midcontinent Independent System Operator, Inc. and PJM Interconnection, L.L.C.*

- When there is a Transmission Loading Relief (TLR) 3a request or higher called on a Coordinated Flowgate, and the Market-Based Operating Entity's actual/one-hour ahead projected IDC GTL flows exceed the Firm Flow Limits, Market-Based Operating Entities will respond to their relief obligations by redispatching their systems in a manner that is consistent with how non-market entities respond to their share of IDC GTL relief obligations per the IDC congestion management report.
- The above processes refer to the "Congestion Management" portion of the paper, which will be implemented by Market-Based Operating Entities.
- Additional entities may choose to enter into similar Reciprocal Coordination Agreements that describe how Available Transfer Capability (ATC)/Available Flowgate Capability (AFC), Firm Flows, and outage maintenance will be coordinated on a forward basis.
- The complete process will allow participating Operating Entities to address the reliability aspects of congestion management seams issues between all parties whether the seams are between market to non-market operations or market-to-market operations.

Change Summary

Generate baseline Congestion Management Process (CMP) document based on CMP documents executed by:

- Manitoba Hydro and Midcontinent Independent System Operator, Inc. (MISO)
- Mid-Continent Area Power Pool (MAPP) and MISO
- MISO and PJM Interconnection, L.L.C. (PJM)
- MISO, PJM and Tennessee Valley Authority (TVA)
- MISO and Southwest Power Pool, Inc. (SPP)

The document also includes subsequent changes agreed upon by a majority of the Congestion Management Process Council (CMPC). For items which are specific to a limited number of agreements, the CMP members have used an approach of documenting these unique items in separate appendices rather than in the base document. The CMPC members reserve all rights with respect to the different options identified in the appendices attached hereto without any obligation to adopt or support such options. The CMPC members reserve the right to oppose any position taken by another CMPC member in a FERC filing or otherwise with respect to the choice of options listed in the appendices. Nothing contained herein shall be construed to indicate the support or agreement by the CMPC members to an option presented in the appendices.

Revision 1.1 (November 30, 2007)

Per FERC Order ER07-1417-000, in the "Forward Coordination Processes" section 6.6 added the word "outage" between "unit" and "scheduling" in the following sentence, "Market-Based Operating Entities will use the Flowgate limit to restrict unit outage scheduling for a Coordinated Flowgate when maintenance outage coordination indicates possible congestion and there is recent TLR activity on a Flowgate."

Revision 1.2 (May 2, 2008)

The Market Flow Threshold is changing from 3% to 5%. The NERC Standards Committee approved changing the Market Flow Threshold for the field test at its April 10, 2008 meeting.

Revision 1.3 (July 16, 2008)

Per FERC Order issued in Docket Nos. ER08-884-000 and ER08-913-000, *Appendix H (Market Flow Threshold Field Test Terms And Conditions)* was added.

Revision 1.4 (October 31, 2008)

The percentages were changed in Sections 4.4 (*Firm Market Flow Calculation Rules*) and 5.5 (*Market-Based Operating Entity Real-time Actions*) to be consistent with changes made under Revision 1.2. Appendix H – Market Flow Threshold Field Test Terms And Conditions was updated to reflect the NERC approved Market Flow Threshold Field Test extension to October 31, 2009.

Revision 1.5 (December 18, 2008)

Updated Section 5.2 (*Quantify and Provide Data for Market Flow*) and *Appendix B* – *Determination of Marginal Zone Participation Factors* to support changes to the manner in which MISO uses marginal zones and submits marginal zone information to the IDC.

Revision 1.6 (February 19, 2009)

Appendix H – Market Flow Threshold Field Test Terms And Conditions was updated to reflect that MISO no longer has a contractual obligation to observe a 0% threshold for MISO Market Flows on Flowgates where both MAPP and MISO are reciprocal.

Revision 1.7 (November 1, 2009)

Applied updates based on the results of the Market Flow Threshold Field Test including clarifications that allocations are calculated down to zero percent. Changes have been applied to the *Executive Summary, Section 4.1 Market Flow Determination, Section 4.4 Firm Market Flow Calculation Rules, Section 5.5 Market-Based Operating Entity Real-time Actions, Section 6.6 Forward Coordination Processes, Section 6.6.3 Limiting Firm Transmission Service, Section 6.7 Sharing or Transferring Unused Allocations, and Appendix H – Application of Market Flow Threshold Field Test Conditions.*

Revision 1.8 (May 31, 2010)

Applied updates to further standardize the "Allocation Adjustment for New Transmission Facilities and/or Designated Network Resources" process. Changes have been made to Appendix F - FERC Dispute Resolution and Appendix G - Allocation Adjustments for New Transmission Facilities and/or Designated Network Resources.

Revision 1.9 (January 4, 2011)

Modified to incorporate the revisions to the JOA, including revisions to Attachments 2 and 3, submitted as part of the Settlement Agreement and Offer of Settlement in Docket Nos. EL10-45-000, EL10-46-000, and EL10-60-000.

Revision 1.10 (July 25, 2016)

Generated updated baseline CMP document executed by the following entities:

- Manitoba Hydro and MISO
- Minnkota Power Cooperative, Inc. and MISO
- MISO and PJM
- PJM and TVA
 - Louisville Gas and Electric Company/Kentucky Utilities Company (LG&E/KU) and Associated Electric Cooperative, Inc. (AECI) executed separate agreements with TVA stipulating the CMP provisions executed by PJM and TVA apply to AECI and LG&E/KU as Reciprocal Entities.
- MISO and SPP
- MISO Attachment LL

Section	Revision Description
3.2	Clarified language on inclusion of Coordinated Flowgates in AFC process. Removed consideration of reverse impacts when performing Flowgate studies.
3.2.1	Revised language to better describe how the four Flowgate studies used to identify Coordinated Flowgates are performed.
3.2.6	Added a new section requiring coordination between Parties before making a Flowgate permanent that includes a Tie Line monitored element.
4.1	Revised language to require a Market-Based Operating Entity to consistently account for export and import tagged transactions in the identified calculations using one of the three methodologies set forth in the new Section 4.1.1. Revisions have previously been accepted by FERC in the CMP documents executed between MISO and PJM, MISO and SPP, and PJM and TVA.
4.1.1	
6.10	Added a new section listing the requirements that must be satisfied for a Combining Party to incorporate a Non-Reciprocal Entity's load and the associated generation serving that load into the Reciprocal's Entity's Allocation calculations.
Appendix A	Added the following defined terms: Agreement, Combining Party, Non-Reciprocal Entity, Party, Third-Party, and Tie Line.
Appendix B	Revised language addressing how a Market-Based Operating Entity using the Marginal Zone methodology will determine marginal zone participation factors. Revisions have previously been accepted by FERC in the CMP documents executed between MISO and PJM, MISO and SPP, and PJM and TVA.
Appendix C	Clarified in Figure C-1 and Table C-1 the steps on inclusion of Coordinated Flowages in the AFC process.

Revision 1.11 (June 1, 2017)

Per NERC Operating Reliability Subcommittee applied updates necessary for MISO to incorporate External Asynchronous Resources into MISO Market Flows.

Section	Revision Description
3.2	Updated the number of Coordination Flowgate studies from four to five.
3.2.1	Clarified Study 4 applies internal CA/CA permutations and added a new Study 5 specific to External Asynchronous Resources.
3.2.2	Updated the number of Coordination Flowgate studies from four to five.
3.2.5	
4.1	Added how the External Asynchronous Resources will be considered in Market Flow and the exclusion of the related tags from IDC.
6.2	Updated the number of Coordination Flowgate studies from four to five.
6.8	Specified the priority of the Market Flow will correspond to the priority of the tag.
Appendix A	Added a new definition specific to MISO, External Asynchronous Resources. Updated the number of Coordination Flowgate studies from four to five.
Appendix C	Updated the number of Coordination Flowgate studies from four to five in Table C-1.

Revisions 1.12 (June 2, 2022)

Updated to reflect the PFV changes as per NAESB Standard

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Section 1 – Introduction

It is the intention of the Reciprocal Entities to utilize the processes within this document. It is further the intention to develop this process in a way that will allow other regional entities with similar concerns to utilize the concepts within this process to aid in the resolution of their own seams issues.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 1 – Introduction --> MISO-JOA Att 2 Section 1.1 Problem Definition

1.1 **Problem Definition**

1.1.1 The Nature of Energy Flows

Energy flows are distinctly different from the manner in which the energy commodity is purchased, sold, and ultimately scheduled. In the current practice of "contract path" scheduling, schedules identify a source point for generation of energy, a series of wheeling agreements being utilized to transport that energy, and a specific sink point where that energy is being consumed by a load. However, due to the electrical characteristics of the Eastern Interconnection, energy flows are more dispersed than what is described within that schedule. This disconnect becomes of concern when there is a need to take actions on contract-path schedules to effect changes on the physical system (for example, the curtailment of schedules to relieve transmission constraints).

In the Eastern Interconnection, much of this concern has been addressed through the use of the North American Electric Reliability Corporation (NERC) and/or North American Energy Standards Board (NAESB) TLR process. Through this process, Reliability Coordinators utilize the IDC to determine appropriate actions to provide that relief. The IDC bases its calculations on the use of transaction tags: electronic documents that specify a source and a sink, which can be used to estimate real power flows through the use of a network model. In order to change flows, the IDC is given a particular constraint and a desired change in flows. The IDC returns back all source to sink transactions that contribute to that constraint and specifies schedule changes to be made that will effect that change in flows.

In other parts of the Eastern Interconnection, however, the use of centralized economic dispatch results in a solution that does not focus on changing entire transactions (effectively redispatching through the use of imbalance energy), but rather redispatch itself. In this procedure, the party attempting to provide relief does not need to know that a balanced source to sink transaction should be adjusted; rather, they are aware of a net generation to load balance and the impacts of different generators on various constraints. Bid-based security constrained central dispatch based on Locational Marginal Pricing is a regional implementation of this practice.

Currently, these two practices are somewhat incompatible. Due to the electrical characteristics of the Interconnection and geographic scope of the regions, this incompatibility has been of limited concern. However, regional market expansion has begun to draw attention to this operational disjoint, as the expansion itself exacerbates the negative effects of the incompatibility.

1.1.2 Granularity in the IDC

The IDC uses an approximation of the Interconnection to identify impacts on a particular transmission constraint that are caused by flows between Control Areas. This approximation allows for a Reliability Coordinator to identify tagged transactions with specific sources and sinks that are contributing to the constraint. While tagged transactions may specify sources and sinks in a very specific manner, the IDC in general cannot respect this detail, and instead

consolidates the impacts of several generators and loads into a homogenous representation of the impacts of a single Control Area. This is referred to as the *granularity* of the IDC. Current granularity is typically defined to the Control Area level; finer granularity is present in certain special situations as deemed necessary by NERC.

1.1.3 Reduced Data and Granularity Coarseness

As centrally dispatched energy markets expand their footprint, two related changes occur with regard to the above process. In some cases, data previously sent to the IDC is no longer sent due to the fact that it is no longer tagged. In others, transactions remain tagged, but the increased market footprint results in an increase in granularity coarseness within the IDC; that is, the apparent Control Area boundary becomes the same as the market boundary so that what had been historically 30 or more Control Areas now appears as one.

In the first change, transactions contained entirely within the market footprint are considered to be utilizing network service (even when the market spans multiple Control Areas). As such, there is no requirement for them to be tagged (or such requirement is waived by NERC), and therefore, no requirement that they be sent to the IDC. This is of concern from a reliability perspective, as the IDC will no longer have a large pool of transactions from which to provide relief, although the energy flows may remain consistent with those prior to the market expansion. In other words, flows subject to TLR curtailment prior to the market expansion are no longer available for that process.

In the second change, the expansion of the footprint itself results in a dilution of the approximation utilized by the IDC. When a market region is relatively small (or isolated), the Control Area to Control Area approximation of that region's impact on transmission constraints is acceptable; actions within the market footprint generally have a similar and consistent impact on all transmission facilities outside the footprint. However, when the market footprint expands significantly, and is co-mingled with non-market Control Areas, the ability to utilize the historic approximation of electrically representative flows fails to effectively predict energy flow. Impacts on external facilities can vary significantly depending on the dispatch of the resources within the market footprint. With regard to the IDC, this information is effectively lost within the expanded footprint, and results in an increase in the level of granularity coarseness, or a "loss of granularity."

1.1.4 Accounting for Loop Flows

The processes for accounting for loop flows caused by uses of the transmission system between Control Areas are different under a market environment. Absent a market, loop flows from Transmission Service reservations between Control Areas are identified and accounted for by importing transmission reservations from surrounding systems. Under a market environment, the market will not have explicit transmission reservations for evolving market dispatch conditions between market Control Areas. Thus, a mechanism for accounting for anticipated Market Flows on non-market systems is necessary. Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 1 – Introduction --> MISO-JOA Att 2 Section 1.1 Problem Definition

1.1.5 Conclusion

The net effect of these changes is that reliability must be managed through different processes than those used before the market region's expansion. While relief can still be requested using the current process, both the ability to predict the effectiveness of a curtailment to provide that relief and the general pool of transactions available for curtailment are reduced. This CMP offers a strategy for eliminating this concern through a process that provides more information (finer granularity) to the IDC for the market area. This new congestion management process will ensure that reliability is not adversely affected as markets expand by providing information and relief opportunities previously unavailable to the IDC.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 1 – Introduction --> MISO-JOA Att 2 Section 1.2 Process Scope and Limitations

1.2 Process Scope and Limitations

1.2.1 Vision Statement

As Operating Entities become Market-Based Operating Entities, and expand their various markets, one of the primary seams issues that must be resolved is how different congestion management methodologies (market-based and traditional TLR) will interact to ensure parallel flows and impacts are recognized and controlled in a manner that consistently ensures system reliability and equitability. Reliability Coordinators can mandate emergency procedures to maintain safe operating limits, however, without coordination agreements that maintain flow limits in advance, the market would become volatile and the burden for relieving excess flow would ignore the economics of the entities which would be required to redispatch. For these entities, this process will offer a manner in which Market-Based Operating Entities can coordinate parallel flows with Operating Entities that have not yet or do not contemplate implementing markets. This process will provide more proactive management of transmission resources, more accurate information to Reliability Coordinators, and more candidates for providing relief when reliability is threatened due to transmission overload conditions.

1.2.2 Process Scope

This process has been written specifically with the goal of coordinating seams between Reciprocal Entities and their respective neighbors.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 1 – Introduction --> MISO-JOA Att 2 Section 1.3 Goals and Metrics

1.3 Goals and Metrics

This document focuses on a solution to meet the following goals and requirements:

- 1. Develop a congestion management process whereby transmission overloads can be prevented through a shared and effective reduction in Flowgate or constraint usage by Reciprocal Entities and adjoining Reliability Coordinators.
- 2. Agree on a predefined set of Flowgates or constraints to be considered by all Reciprocal Entities, and a process to maintain this set as necessary.
- 3. Determine the best way to calculate flow due to market impacts on a defined set of Flowgates.
- 4. Develop Reciprocal Coordination Agreements that establish how each Operating Entity will consider its own Flowgate or constraint usage as well as the usage of other Operating Entities when it determines the amount of Flowgate or constraint capacity remaining. This process will include both operating horizon determination as well as forward looking capacity allocation.
- 5. Develop a procedure for managing congestion when Flowgates are impacted by both tagged and untagged energy flow.
- 6. Develop a procedure for determining the priorities of untagged energy flows (created through parallel flows from the market).
- 7. Agree on steps to be taken by Operating Entities to unload a constraint on a shared basis.
- 8. Determine whether procedure(s) for managing congestion will differ based on where the Flowgate is located (*i.e.*, inside Reciprocal Entity A, inside Reciprocal Entity B, or outside both Reciprocal Entity A and Reciprocal Entity B).
- 9. Confirm that the solution will be equitable, transparent, auditable, and independent for all parties.
- 10. Develop methodology to preserve and accommodate grandfathered transmission rights, contract rights, and other joint-use agreements.
- 11. Develop methodology to address changes in Total Transfer Capability (TTC), such as future system topology changes, new Designated Network Resources (DNRs), facility uprates/derates, prior outage limitations, etc., with respect to Allocation implications.
- 12. Develop a methodology for releasing Allocations if other parties do not join the process or if there is ATC going unused.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 1 – Introduction --> MISO-JOA Att 2 Section 1.4 Assumptions

1.4 Assumptions

The processes set forth in this document were based on the following assumptions:

- Point-to-point schedules sinking in, sourcing from, or passing through an Operating Entity will be tagged.
- The IDC or a similar repository of schedules is needed at the Interconnection's current state and for the foreseeable future.
- The Operating Entity's Energy Management System (EMS) has the capability to monitor and respond to real-time and projected flows created by its real-time dispatch.
- The Reliability Coordinator of the area in which a Flowgate exists will be responsible for monitoring the Flowgate, determining any amount of relief needed, and entering the required relief in the IDC.
- The IDC has been modified to accept the submitted values of the real-time generation, load, and other real-time data.
- The IDC calculates the impacts of the untagged dispatch (GTL) on the Flowgates for all Operating Entities using Parallel Flow Visualization (PFV).
- The IDC will determine the Firm and non-Firm GTL flow for each Market-Based Operating Entity using the Firm and non-Firm limits calculated in this agreement.
- The IDC can calculate the total amount of MW relief required by the Operating Entity (schedule curtailments required plus the relief provided by redispatch).

2.1 Summary of Process

In order to coordinate congestion management, a bridge must be established that provides for comparable actions between Operating Entities. Without such a bridge, it is difficult, if not impossible, to ensure reliability and system coordination in an efficient and equitable manner. To effect this coordination of congestion management activities, we propose a methodology for determining both firm and non-firm flows resulting from Market-Based Operating Entity dispatch on external parties' Flowgates.



GTL flows are the calculated energy flows on a specified Flowgate as a result of dispatch of generating resources serving load within an Operating Entity's Control Area. (Note: For the purposes of the Reciprocal Coordination process discussed later, Firm Transmission Service (7F) will be combined with the untagged firm component of Market Flows in the calculation of Historic Firm Flow. The Historic Firm Flow is described later in this document).

The IDC currently calculates GTL flows for each CA in the Eastern Interconnection and used to determine each Operating Entities curtailment under a TLR. The methodology defined in this document determines how to quantify these GTL flows as Firm and non-Firm for each Market-Based Operating Entity. Market Flow is a calculation similar to GTL, but is no longer used to determine relief obligations in the TLR protocol. However, Market Flow may still be used for congestion management between Market-Based Operating Entities, and thus we continue to define it in this agreement for reference.

GTL flows can be divided into Firm and Non-Firm. Firm GTL flows are considered as firm use of the transmission system for congestion management purposes and will be curtailed on a proportional basis with other firm uses during periods of firm curtailments and are equivalent to Firm Transmission Service. Non-Firm GTL flows are considered as non-firm use of the transmission system for congestion management purposes and will be curtailed on a proportional basis with other non-firm uses during periods of non-firm curtailments and are equivalent to nonfirm Transmission Service. As such, Reliability Coordinators can request Market-Based Operating Entities to provide relief under TLR based on these transmission priorities.

By applying the above philosophy to the problem of coordinating congestion management, we can determine not only the impacts of a Market-Based Operating Entity's dispatch on a particular Flowgate; we can also determine the appropriate firmness of those flows. This results in the ability to coordinate both proactive and reactive congestion management between operating entities in a way that respects the current TLR process, while still allowing for the flexibility of internal congestion management based on market prices.

There are two areas that must be defined in order for this process to work effectively:

- **Coordinated Flowgate Definition.** In order to ensure that impacts of dispatch are properly recognized, a list of Flowgates must be developed around which congestion management may be effected and coordination can be established.
- **Congestion Management.** By coordinating congestion management efforts and enhancing the TLR process to recognize both untagged energy flows and data of finer granularity, we can ensure that when TLR is called, the appropriate non-firm flows are reduced before Firm Flows. This coordination will result in a reduction of TLR 5 events, as more relief will be available in TLR 3 to mitigate a constraint. This is accomplished through the calculation of flows due to economic dispatch, as well as by providing marginal unit information to aid in interchange transaction management.

The next sections of this document discuss each of these areas in detail.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 3 – Impacted Flowgate Determination

Section 3 – Impacted Flowgate Determination
Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 3 – Impacted Flowgate Determination --> MISO-JOA Att 2 Section 3.1 - Flowgates

3.1 Flowgates

Flowgates are facilities or groups of facilities that may act as significant constraint points on the system. As such, they are typically used to analyze or monitor the effects of power flows on the bulk transmission grid. Operating Entities utilize Flowgates in various capacities to coordinate operations and manage reliability. For the purpose of this process, there are three kinds of Flowgates: AFC Flowgates, which are defined in Appendix A, Coordinated Flowgates (CFs), which are defined below, and Reciprocal Coordinated Flowgates (RCFs), which are defined in "Reciprocal Operations" Section 6. A diagram illustrating how these three categories of Flowgates are determined is included as Appendix C.

3.2 Coordinated Flowgates

An Operating Entity will conduct sensitivity studies to determine which Flowgates are significantly impacted by the flows of the Operating Entity's Control Zones (historic Control Areas that existed in the IDC). An Operating Entity identifies these Flowgates by performing the following five studies to determine which Flowgates the Operating Entity will monitor and help control. As set forth in Appendix C, a Flowgate passing any one of these studies will be considered a Coordinated Flowgate and AFCs shall be computed for these Flowgates, unless mutually agreed otherwise by the Operating Entities and any Reciprocal Entities for the Flowgate. An Operating Entity shall add a Coordinated Flowgate to its AFC process as soon as practical in accordance with the Operating Entity's processes. Nothing in this section precludes an Operating Entity or Reciprocal Entity from calculating AFCs for any Flowgates.

An Operating Entity may also specify additional Flowgates that have not passed any of the five studies to be Coordinated Flowgates where the Operating Entity expects to utilize the TLR process to manage congestion. For a list of Coordinated Flowgates between Reciprocal Entities, see each Reciprocal Entity's Open Access Same-Time Information System (OASIS) website.

Coordinated Flowgates are identified to determine which Flowgates an entity impacts significantly. This set of Flowgates may then be used in the congestion management processes and/or Reciprocal Operations defined in this document.

When performing the five Flowgate studies, a 5% threshold will be used based on the positive impact. Use of a 5% threshold in the studies may not capture all Flowgates that experience a significant impact due to operations. The Operating Entities have agreed to adopt a lower threshold at the time NERC and/or NAESB implements the use of a lower threshold in the TLR process.

3.2.1 Flowgate Studies

Study 1) – IDC GLDF

(using the IDC tool)

Upon request by an Operating Entity, a study will be performed using the IDC reflecting the topology of the system from the System Data Exchange (SDX) or any industry-accepted system with similar capabilities. The IDC can provide a list of Flowgates for any user-specified Control Area whose Generator to Load Distribution Factor (GLDF) NNL impact is 5% or greater. Using the historic Control Area representation in the IDC, if any one generator has a GLDF that is 5% or greater as determined by the IDC, this Flowgate will be considered a Coordinated Flowgate.

Study 2) – IDC PSS/E Base Case GLDF

(no transmission outages - offline study)

Upon request by an Operating Entity, the Operating Entity to which the request is made will perform a generator analysis to determine which Flowgates impacted by those CAs will be included in the list of Coordinated Flowgates. To provide better confidence that the

Operating Entity has effectively captured the subset of Flowgates upon which its generators have a significant impact, the Operating Entity will perform an offline study utilizing Managing and Utilizing System Transmission (MUST) or other industry-accepted software with similar capabilities. The Operating Entity will perform off-line studies using the IDC PSS/E base case. If any generator has a GLDF that is 5% or greater as determined by this Study 2, this Flowgate will be considered a Coordinated Flowgate. Study 1 above and this Study 2 are separate studies. There is no requirement that a Flowgate must pass both studies in order to be coordinated.

Study 3) – IDC PSS/E Base Case GLDF

(transmission outage - offline study)

Upon request by an Operating Entity, the Operating Entity to which the request is made will perform a Flowgate analysis to determine which Flowgates impacted by those CAs will be included in the list of Coordinated Flowgates. The Flowgates determined using Study 2 above or Study 4 below that have a 3% to 5% distribution factor will be analyzed in this Study 3 against prior outage conditions. The Operating Entity will perform off-line studies using the IDC PSS/E base case utilizing MUST or other industry- accepted software with similar capabilities. The Operating Entity, in consultation with affected operating authorities, will perform a prior outage analysis, including both internal and external outages, by applying one of the following:

- 1. transmission facilities operated at 100kV and above, in the CA where the Flowgate's monitored facility(ies) is located and in CAs that are first tier to the CA where the Flowgate's monitored facility(ies) is located; or
- 2. transmission facilities operated at 100kV and above within 10 buses from the monitored facility(ies).

If any Flowgates with a 3% to 5% distribution factor from Study 2 or Study 4 are impacted by 5% or more from a prior outage condition (Line Outage Distribution Factor (LODF)) from this Study 3, the Flowgate will be added to the list of Coordinated Flowgates.

Study 4) – IDC Base Case Transfer Distribution Factors

(no transmission outages - offline study)

Upon request by an Operating Entity, the Operating Entity to which the request is made will perform a Flowgate analysis to determine which Flowgates impacted by those CAs will be included in the list of Coordinated Flowgates. The Operating Entity performing this analysis will analyze internal transactions between each historic CA/CA permutation. OTDF Flowgates will be analyzed with the contingent element out of service. The Operating Entity will perform off-line studies using the IDC PSS/E base case utilizing MUST, or other industry-accepted software with similar capabilities to determine the

Transfer Distribution Factors (TDFs). Flowgates that are impacted by 5% or greater by Study 4 will be considered a Coordinated Flowgate.

Study 5) – External Asynchronous Resource (EAR)

Upon request by an Operating Entity, MISO shall rerun Study 4 (no outage scenario) to determine the flowgates impacted by its EAR. Additionally, a second study will be performed using the IDC reflecting the topology of the system from the System Data Exchange (SDX) or any industry-accepted system with similar capabilities. Both studies performed under Study 5 shall utilize the following assumptions: 1) the source to sink TDF calculation of the EAR shall be evaluated in the same way IDC would evaluate the impacts of the associated tag (e.g., source and sink of the EAR); and 2) any flowgate that is determined to be impacted by the EAR by 5% or greater will be considered a Coordinated Flowgate.

3.2.2 Disputed Flowgates

If a Reciprocal Entity believes that another Reciprocal Entity implementing the congestion management portion of this process has a significant impact on one of their Flowgates, but that Flowgate was not included in the Coordinated Flowgate list, the involved Reciprocal Entities will use the following process:

- If an operating emergency exists involving the candidate Flowgate, the Reciprocal Entities shall treat the facilities as a temporary Coordinated Flowgate prior to the study procedure below. If no operating emergency or imminent danger exists, the study procedure below shall be pursued prior to the candidate Flowgate being designated as a Coordinated Flowgate.
- The Reciprocal Entity conducts studies to determine the conditions under which the other Reciprocal Entity would have a significant impact on the Flowgate in question. The Reciprocal Entity conducting the study then submits these studies to the other Reciprocal Entity implementing this process. The Reciprocal Entity's studies should include each of the five studies described above; in addition to any other studies they believe illustrate the validity of their request. The other Reciprocal Entity will review the studies and determine if they appear to support the request of the Reciprocal Entity conducting the study. If they do, the Flowgate will be added to the list of Coordinated Flowgates.
- If, following evaluation of the supplied studies, any Reciprocal Entity still disputes another Reciprocal Entity's request, the Reciprocal Entity will submit a formal request to the NERC Operations Reliability Subcommittee (ORS) asking for further review of the situation. The ORS will review the studies of both the requesting Reciprocal Entity and the other Reciprocal Entity, and direct the participating Reciprocal Entities to take appropriate action.

3.2.3 Third Party Request Flowgate Additions

Each Party shall provide opportunities for Third Parties or other entities to propose additional Coordinated Flowgates and procedures for review of relevant non-confidential data in order to assess the merit of the proposal. The current procedure for the review and maintenance of Coordinated Flowgates is set forth in Appendix C.

3.2.4 Frequency of Coordinated Flowgate Determination

The determination of Coordinated Flowgates will be performed at the initial implementation of the CMP and then on a periodic basis, as described in Appendix C.

3.2.5 Dynamic Creation of Coordinated Flowgates

For temporary Flowgates developed "on the fly," the IDC will calculate GTL relief obligation based on GPS and TSNT method and once market entities submit the Firm Flow Limits the GTL relief obligation will be based on submitted Firm Flow Limits on the new Flowgate. Interchange transactions into, out of, or across the Market-Based Operating Entity will continue to be Etagged and available for curtailment in TLR 3, 4, or 5. Market-Based Operating Entities will study the Flowgate in a timely manner and begin reporting Flowgate data within no more than two business days (where the Flowgate has already been designated as an AFC Flowgate). This will ensure that the Market-Based Operating Entity has the time necessary to properly study the Flowgate using the five studies detailed earlier in this document and determine the Flowgate's relationship with the Market-Based Operating Entity's dispatch. For internal Flowgates, the Market-Based Operating Entity will redispatch during a TLR 3 to manage the constraint as necessary until it begins reporting the Firm and Non-Firm Limits; during a TLR 5, the IDC will request GTL relief obligation in the same manner as today. Alternatively, for internal and external Flowgates, an Operating Entity may utilize an appropriate substitute Coordinated Flowgate that has similar Market Flows and tag impacts as the temporary Flowgate. In this case, an Operating Entity would have to realize relief through redispatch and TLR 3. An example of an appropriate substitute would be a Flowgate with a monitored element directly in series with a temporary Flowgate's monitored element and with the same contingent element. If the Flowgate meets the necessary criteria, the Market-Based Operating Entity will begin to provide the necessary values to the IDC in the same manner as Market Flow values are provided to the IDC for all other Coordinated Flowgates. The necessary criteria for adding a Flowgate are defined in Appendix C. If in the event of a system emergency (TLR 3b or higher) and the situation requires a response faster than the process may provide, the Market-Based Operating Entities will coordinate respective actions to provide immediate relief until final review.

3.2.6 Coordination of Tie Line Flowgate Additions

The Parties shall follow the coordination process outlined in this section for Flowgates that include a Tie Line between the Parties as a monitored element. The provisions in this section shall not apply to any temporary Flowgates.

Procedures:

- 1. Unless otherwise agreed to by the Parties, the managing entity for a Tie Line Flowgate is the Party that has functional control over the most limiting equipment for the Flowgate.
- 2. The managing entity for a Tie Line Flowgate shall calculate AFCs, post AFCs, process requests for transmission service, manage real-time congestion, and calculate Allocations for the Tie Line Flowgate.
- 3. Before the creation of a new Tie Line Flowgate in the IDC, the managing entity for the Tie Line Flowgate must notify the other Party no less than sixty (60) days in advance of the addition of the Tie Line Flowgate in the IDC. The new Flowgate will initially be created as a temporary Flowgate in the IDC by the managing entity. If all other requirements outlined in this Section 3.2.6 are completed during the sixty (60) days following notice, the Flowgate can be made permanent before the sixty (60) day deadline by mutual agreement of the Parties.
- 4. A Party that identifies a new Tie Line Flowgate through a study shall provide the study assumptions, methodology, and all other relevant data to the other Party in a timely manner.
- 5. AFC Calculation and Posting AFCs:
 - a. The managing entity will calculate and post AFCs for Tie Line Flowgates in accordance with the managing entity's processes (i.e., the managing entity will treat the Flowgates as internal Flowgates).
 - b. The managing entity will post AFC files for Tie Line Flowgates for use by other transmission providers.
 - c. The managing entity will apply AFC factors for Tie Line Flowgates (e.g., TRM, CBM, "a" and "b" multipliers, etc.) using the managing entity's own processes.
- 6. Upon the completion of items 1 through 5, the managing entity may create a permanent Tie Line Flowgate.
- 7. The Party that is not the managing entity will replace the temporary Tie Line Flowgate with the permanent Tie Line Flowgate in its applicable operating system(s).

Section 4 – Market-Based Operating Entity Flow Calculations: Market Flow, Firm Market Flow, and Non-Firm Market Flow

Market Flows on a Coordinated Flowgate can be quantified and considered in each direction. Market Flow is then further designated into two components: Firm Market Flow, which is energy flow related to contributions from the Network and Native Load serving aspects of the dispatch, and Non-Firm Market Flow, which is energy flow related to the Market-Based Operating Entity's market operations.



Note: Market flows equal generation to load flows in market areas.

Each Market-Based Operating Entity will calculate their actual real-time and projected directional Market Flows, as well as their directional Firm and Non-Firm Market Flows, on each Coordinated Flowgate. The following sections outline how these flows will be computed.

4.1 Market Flow Determination

The determination of Market Flows builds on the "Per Generator" methodologies that were developed by the NERC Parallel Flow Task Force. The "Per Generator Method Without Counter Flow" was presented to and approved by both the NERC Security Coordinator Subcommittee (SCS) and the Market Interface Committee (MIC).¹

Similar to the Per Generator Method, the Market Flow calculation method is based on Generator Shift Factors (GSFs) of a market area's assigned generation and the Load Shift Factors (LSFs) of its load on a specific Flowgate, relative to a system swing bus. The GSFs are calculated from a single bus location in the base case (e.g. the terminal bus of each generator) while the LSFs are defined as a general scaling of the market area's load. The Generator to Load Distribution Factor (GLDF) is determined through superposition by subtracting the LSF from the GSF.

The determination of the Market Flow contribution of a unit to a specific Flowgate is the product of the generator's GLDF multiplied by the actual output (in megawatts) of that generator. The total Market Flow on a specific Flowgate is calculated in each direction; forward Market Flows is the sum of the positive Market Flow contributions of each generator within the market area, while reverse Market Flow is the sum of the negative Market Flow contributions of each generator within the market area.

For purposes of the Market Flow determination, the market area may be either: (1) the entire RTO footprint, as in the following illustration; or (2) a subset of the RTO region, such as a preintegration NERC-recognized Control Area, as necessary to ensure accurate determinations and consistency with pre-integration flow determinations. Each Market-Based Operating Entity shall choose only one of these two options to calculate its Market Flows. With regard to the second option, the total Market Flow of an RTO shall be the sum of the flows from and between such market areas.

¹ "Parallel Flow Calculation Procedure Reference Document," NERC Operating Manual. 11 Feb, 2003. www.nerc.com



The Market Flow calculation differs from the Per Generator Method in the following ways:

- The contribution from all market area generators will be taken into account.
- In the Per Generator Method, only generators having a GLDF 5% or greater are included in the calculation. Additionally, generators are included only when the sum of the maximum generating capacity at a bus is greater than 20 MW. The Market Flow calculations will use all flows, in both directions, to calculate a Market Flow down to a 5% threshold and to calculate a Market Flow down to a 0% threshold. Forward flows and reverse flows are determined as discrete values.
- The contribution of all market area generators is based on the present output level of each individual unit.
- The contribution of the market area load is based on the present demand at each individual bus.

By expanding on the Per Generator Method, the Market Flow calculation evolves into a methodology very similar to the "Per Generator Method," while providing granularity on the order of the most granular method developed by the IDC Granularity Task Force.

Directional flows are required for this process to ensure a Market-Based Operating Entity can effectively select the most effective generation pattern to control the flows on both internal and external constraints, but are considered as distinct directional flows to ensure comparability with existing NERC and/or NAESB TLR processes. Under this process, the use of real-time values in concert with the Market Flow calculation effectively implements one of the more accurate and

detailed methods of the six IDC Granularity Options considered by the NERC IDC Granularity Task Force.

Each Market-Based Operating Entity shall choose one of the three methodologies set forth in Section 4.1.1 (*Methodologies to Account for Tagged Transactions*) below to account for import and export tagged transactions and shall apply it consistently for each of the following calculations:

- 1. the Market Flow calculation;
- 2. the Firm Flow Limit calculation;
- 3. the Firm Flow Entitlement calculation; and
- 4. the tagged transaction impact calculation which occurs in the IDC.

Market Flows represent the impacts of internal generation (including generators pseudo-tied into the market area and excluding generators pseudo-tied out of the market area) serving internal load (including load pseudo-tied into the market area and excluding load pseudo-tied out of the market area) and tagged grandfathered transactions within the market area. Market Flows shall not include the impacts from import tagged transaction(s) into and export tagged transaction(s) out of the market area where the impacts of the interchange transactions are accounted for by the IDC. A Market-Based Operating Entity shall utilize the IDC to calculate the impacts of import tagged transactions out of the market area that are not captured in the Market Flow calculation. The impact of the EAR shall be included in the Market Flow calculation using the methodology selected in Section 4.1.1 (*Methodologies to Account for Tagged Transactions*); the related tags will be excluded in IDC. For an import EAR, load will be adjusted, and for an export EAR, generation will be adjusted, in accordance with the methodology selected in Section 4.1.1 (*Methodologies to Account for Tagged Transactions*).

Units assigned to serve a market area's load do not need to reside within the market area's footprint to be considered in the Market Flow calculation. Units outside of the market area that are pseudo-tied into the market to serve the market area's load will be included in the Market Flow calculation. However, units outside of the market area will not be considered when those units will have tags associated with their transfers (i.e., where pseudo-tie does not exist).

Additionally, there may be situations where the participation of a generator in the market that is not modeled as a pseudo-tie may be less than 100% (e.g., a unit jointly owned in which not all of the owners are participating in the market). This situation occurs when the generator output controlled by the non-participating parties is represented as interchange with a corresponding tag(s) and not as a pseudo-tie generator internal to each party's Control Area. Except for the generator output represented by qualifying interchange transactions from jointly owned units described in the following paragraph, such situations will be addressed by including the generator output in that Market-Based Operating Entity's Market Flow calculation with the amount of generator output not participating in the market being scaled down within the Market-Based Operating Entity's region or regions in accordance with one of the following three methodologies described and defined below in Section 4.1.1: the Marginal Zone Method, POR-POD Method, or Slice-of-System Method.

When a jointly owned unit, which is also listed as a Designated Network Resource for the Historic Firm Flow calculation, participates in more than one market, and the generator output from that unit between the two markets is represented as interchange with a corresponding tag(s) that is accounted for by the IDC and not as a pseudo-tie generator internal to each market's Control Area, its modeling in the Market Flow calculation will be aligned with that in the Historic Firm Flow calculation. The amount of generator output from that unit scheduled between the two markets will be treated as a unit- specific export tagged transaction in the Market Flow calculation of the Market-Based Operating Entity where the generator is located and will be treated as a load-specific import tagged transaction in the Market Flow calculation of the Operating Entity.

- For exports out of one market area associated with the jointly owned unit(s), the generator output of jointly owned unit will be scaled down by an amount which is the lesser of the corresponding export tagged transaction(s) and unit ownership of an owner participating in other market area.
- For imports into the other market area associated with the jointly owned external unit(s), the Control Zone load or bus load(s) will be scaled down by an amount which is the lesser of the corresponding import tagged transaction(s) and unit ownership of an owner participating in the market area.

Import tagged transactions, export tagged transactions, and grandfathered tagged transactions within the market area, must be properly accounted for in the determination of Market Flows.

Below is a summary of the calculations discussed above.

For a specified Flowgate, the Market Flow impact of a market area is given as:

Total Directional "Market Flows" = \sum (Directional "Market Flow" contribution of each unit in the Market-Based Operating Entity's area), grouped by impact direction

where,

"Market Flow" contribution of each unit in the Market-Based Operating Entity's area =

(GLDF_{Adj}) (Adjusted Real-Time generator output)

and,

 $\mbox{GLDF}_{\mbox{Adj}}$ is the Generator to Load Distribution Factor

Where the generator shift factor (GSF_{Adj}) uses Adjusted Real-Time generator output and the load shift factor (LSF_{Adj}) uses Adjusted Real-Time bus loads.

 $\mathbf{GLDF}_{\mathbf{Adj}} = \mathbf{GSF}_{\mathbf{Adj}} - \mathbf{LSF}_{\mathbf{Adj}}$

Adjusted Real-Time generator output is the output of an individual generator as reported by the state estimator solution that has been adjusted for exports associated with joint ownership, if any, and then further adjusted for the remaining exports utilizing the chosen methodology in Section 4.1.1.

Adjusted Real-Time bus load is the sum of all bus loads in the market as reported by the state estimator solution that have been adjusted for imports associated with joint ownership, if any, and then further adjusted for the remaining imports utilizing the chosen methodology in Section 4.1.1.

The real-time and one-hour ahead projected "Market Flows" will be calculated on-line utilizing the Market-Based Operating Entity's state estimator model and solution. This is the same solution presently used to determine real-time market prices as well as providing on-line reliability assessment and the periodicity of the Market Flow calculation will be on the same order. Inputs to the state estimator solution include the topology of the transmission system and actual analog values (e.g., line flows, transformer flows, etc...). This information is provided to the state estimator automatically via SCADA systems such as NERC's ISN link.

Using an on-line state estimator model to calculate "Market Flows" provides a more accurate assessment than using an off-line representation for a number of reasons. The calculation incorporates a significant amount of real-time data, including:

- Actual real-time and projected generator output. Off-line models often assume an output level based on a nominal value (such as unit maximum capability), but there is no guarantee that the unit will be operating at that assumed level, or even on-line. Off-line models may not reflect the impact of pumped-storage units when in pumping mode; these units may be represented as a generator even when pumping. Additionally off-line models may not reflect the impact of units such as wind generators. A real-time calculation explicitly represents the actual operating modes of these units.
- Actual real-time bus loads. Off-line assessments may not be able to accurately account for changes in load diversity. Off-line models are often based on seasonal winter and summer peak load base cases. While representative of these peak periods, these cases may not reflect the load diversity that exists during off-peak and shoulder hours as well as off-peak and shoulder months. A real-time calculation explicitly accounts for load diversity. Off-line assessments may also reflect load reduction programs that are only in effect during peak periods.
- Actual real-time breaker status. Off-line assessments are often bus models, where individual circuit breakers are not represented. On-line models are typically node models where switching devices are explicitly represented. This allows for the real-time calculation to automatically account for split bus conditions and unusual topology conditions due to circuit breaker outages.

Additionally, the calculation rate of the on-line assessment is much quicker and accurate than an off-line assessment, as the on-line assessment immediately incorporates changes in system topology and generators. Facility outages are automatically incorporated into the real-time assessment.

In order to provide reliable and consistent flow calculations, entities utilizing this process as the basis for coordination must ensure that the modeling data and assumptions used in the calculation process are consistent. Reciprocal Entities will coordinate models to ensure similar computations and analysis. Reciprocal Entities will each utilize real-time ICCP and ISN data for observable areas in each of their respective state estimator models and will utilize SDX data for areas outside the observable areas to ensure their models stay synchronized with each other and the EIDSN IDC.

4.1.1 Methodologies to Account for Tagged Transactions

A Market-Based Operating Entity shall choose one of the following methodologies to account for export and import tagged transactions in the Market Flow calculation utilized for market-tomarket, and shall also use the same methodology to account for export and import tagged transactions in the Firm Flow Limit and Firm Flow Entitlement calculations, as well as calculated tag impacts by the IDC:

- 1. Point-of-receipt (POR) / point-of-delivery (POD) Method (POR-POD Method) Export tagged transactions, excluding tagged transactions associated with jointly owned units participating in more than one market shall be accounted for based on the POR of the transmission service reservation, as the transmission service was originally sold, that is listed on the export tagged transaction by proportionally offsetting the MW output of all units (i) in the Market-Based Operating Entity's Control Area, (ii) pre-integration NERC-recognized Control Area(s), or (iii) sub-regions within its Control Area. Import tagged transactions, excluding tagged transactions associated with jointly owned units participating in more than one market shall be accounted for based on the POD of the transmission service reservation, as the transmission service was originally sold, that is listed on the export tagged transactions by proportionally offsetting the MW load of all load buses (i) in the Market Based Operating Entity's Control Area, (ii) pre-integration NERC-recognized Control Area(s), or (iii) sub-regions within the Control Area; or
- 2. Marginal Zone Method Export tagged transactions, excluding tagged transactions associated with jointly owned units participating in more than one market shall be accounted for by adjusting the MW output of the units in the Market-Based Operating Entity's Control Area, regions, or subregions within its Control Area by the total MW amount of all the Market-Based Operating Entity's export tagged transactions excluding tagged transactions associated with jointly owned units participating in more than one market using: (1) marginal zone participation factors, as defined and calculated in Appendix B (Determination of Marginal Zone Participation Factors); and (2) the anticipated availability of a generator to participate in the interchange of the marginal zone. Import tagged transactions, excluding tagged transactions associated with jointly owned units participating in more than one market shall be accounted for by adjusting the MW load of the load buses in the Market-Based Operating Entity's Control Area, regions or subregions within the Control Area, by the total MW amount of all the Market-Based Operating Entity's import tagged transactions excluding tagged transactions associated with jointly owned units participating in more than one market using marginal zone participation factors, as defined and calculated in Appendix B (Determination of Marginal Zone Participation Factors); or
- 3. Slice of System Method Export tagged transactions, excluding tagged transactions associated with jointly owned units participating in more than one market shall be accounted for by proportionately adjusting the MW output of each of the units in the Market-Based Operating Entity's Control Area by the total MW amount of all the Market-Based Operating Entity's export tagged transactions excluding tagged transactions associated with jointly owned units participating in more than one market. Import tagged transactions, excluding tagged transactions associated with jointly owned units participating in more than one market.

adjusting the MW load of each of the load buses in the Market-Based Operating Entity's Control Area by the total MW amount of all the Market-Based Operating Entity's import tagged transactions excluding tagged transactions associated with jointly owned units participating in more than one market.

Each Market-Based Operating Entity shall post and maintain a document on its public website that describes calculations and assumptions used in those calculations regarding the chosen methodology and its application to the treatment of import and export transactions to the calculation of Market Flows, Firm Flow Limits, and Firm Flow Entitlements, and tag impacts calculated by the IDC.

4.2 Firm Flow Determination

Firm Flows represent the directional sum of flows created by Designated Network Resources serving designated network loads within a particular market area. They are based primarily on the configuration of the system and its associated flow characteristics; utilizing generation and load values as its primary inputs. Therefore, these Firm Flows can be determined based on expected usage and the Allocation of Flowgate capacity.

An entity can determine Firm Flows on a particular Flowgate using the same process as utilized by the IDC. This process is summarized below:

- 1. Utilize a reference base case to determine the Generation Shift Factors for all generators in the current Control Areas' respective footprints to a specific swing bus with respect to a specific Flowgate.
- 2. Utilize the same base case to determine the Load Shift Factors for the Control Area's load to a specific swing bus with respect to that Flowgate.
- 3. Utilize superposition to calculate the Generation to Load Distribution Factors (GLDF) for the generators with respect to that Flowgate.
- 4. Multiply the expected output used to serve native load from each generator by the appropriate GLDF to determine that generator's flow on the Flowgate.
- 5. Sum these individual contributions by direction to create the directional Firm Flow impact on the Flowgate.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 4 – Market-Based Operating Entity Flo --> MISO-JOA Att 2 Section 4.3 Determining the Firm Flow Limit

4.3 Determining the Firm Flow Limit

Given the Firm Flow determinations described in the previous section, Market-Based Operating Entities can assume them to be their Firm Flow Limits. These limits define the maximum value of the GTL flows that can be considered as firm in each direction on a particular Flowgate in the IDC, and the maximum value of the Market Flows that can be considered firm on a particular flowgate for market-to-market. Prior to real-time, a calculation will be done based on updated hourly forecasted loads and topology. The results should be an hourly forecast of directional Firm Flows.

4.4 Firm Flow Limit Calculation Rules

The Firm Flow Limits for both 0% GTL flows and 5% GTL flows will be calculated for each Market Based Operating Entity based on certain criteria and rules. The calculation will include the effects of firm network service in both forward and reverse directions. The process will be similar to that of the IDC but will include one set of impacts down to 0% and another set down to 5%. The down to 0% impacts will be used to determine Firm Flow Limits on 0% GTL flows. The down to 5% impacts will be used to determine Firm Flow Limits on 5% GTL flows. The following points form the basis for the calculation.

- 1. The generation-to-load calculation will be made on a Control Area basis. The impact of generation-to-load will be determined for Coordinated Flowgates.
- 2. The Flowgate impact will be determined based on individual generators serving aggregated CA load. Only generators that are Designated Network Resources for the CA load will be included in the calculation.
- 3. Forward Firm Flow Limits for 0% GTL flows will consider impacts in the additive direction down to 0%, and reverse Firm Flow Limits for 0% GTL flows will consider impacts in the counter flow direction down to 0%. Forward Firm Flow Limits for 5% GTL flows will be determined by subtracting impacts between 0% and 5% in the additive direction from the Forward Firm Flow Limit for 0% GTL flows. Reverse Firm Flow Limits for 5% GTL flows will be determined by subtracting the impacts between 0% and 5% in the counter-flow direction from the reverse Firm Flow Limit for 0% GTL flows. Flowgate Firm Flow Limits using a 5% threshold are reported to the IDC for it to assign the Firm and non-Firm GTL flows used in TLR curtailments for each Market Based Operating Entity. Flowgate Firm Flow Limits using a 0% threshold are reported to the IDC for information purposes.
- 4. Designated Network Resources located outside the CA will not be included in the generation-to-load calculation if OASIS reservations exist for these generators.
- 5. If a generator or a portion of a generator is used to make off-system sales that have an OASIS reservation, that generator or portion of a generator should be excluded from the generation-to-load calculation.
- 6. Generators that will be off-line during the calculated period will not be included in the generation-to-load calculation for that period.
- 7. CA net interchange will be computed by summing all Firm Transmission Service reservations and all Designated Network Resources that are in effect throughout the calculation period. Designated Network Resources are included in CA net interchange to the extent they are located outside the CA and have an OASIS reservation. The net interchange will either be positive (exports exceed imports) or negative (imports exceed exports).
- 8. If the net interchange is negative, the period load is reduced by the net interchange.
- 9. If the net interchange is positive, the period load is not adjusted for net interchange.

- 10. The generation-to-load calculation will be made using generation-to-load distribution factors that represent the topology of the system for the period under consideration.
- 11. PMAX of the generators should be net generation (excluding the plant auxiliaries) and the CA load should not include plant auxiliaries.
- 12. The portion of jointly owned units that are treated as schedules will not be included in the generation-to-load calculation if an OASIS reservation exists.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 5 – Market-Based Operating En

Section 5 – Market-Based Operating Entity Congestion Management

Once there has been an establishment of the Firm Flow Limit that is possible given Firm Market Flow calculation, that data will be used in the operating environment in a manner that relates to real-time energy flows.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 5 – Market-Based Operating En --> MISO-JOA Att 2 Section 5.1 Calculating Market Flows

5.1 Calculating Market Flows

On a periodic basis, the Market-Based Operating Entity will calculate directional Market Flows for all market-to-market Coordinated Flowgates. These flows will represent the actual flows in each direction at the time of the calculation.

5.2 Quantify and Provide Data for Firm Flow Limits

Every fifteen minutes, the Market-Based Operating Entity will be responsible for providing to Reliability Coordinators the following information:

- Firm Flow Limits for all Coordinated Flowgates in each direction
- Non-Firm Flow Limits for all Coordinated Flowgates in each direction

In real-time, any GTL flow in excess of the Firm Flow Limit will be reported as Non-Firm GTL flow (Priority 6-NN) (note that under reciprocal operations, some of this Non-Firm GTL flow may be quantified as Priority 2-NH).

These limits will be provided for both current hour and next hour, and is used to communicate to Reliability Coordinators the maximum amount of flows to be considered firm and non-firm on the various Coordinated Flowgates in each direction. When the Firm Flow Limit forecast is calculated to be greater than the GTL flow for current hour or next hour, all GTL flow is firm.

Additionally, as frequently as once an hour, but no less frequently than once every three months, the Market-Based Operating Entity will submit to the Reliability Coordinator sets of data describing the marginal units and associated participation factors for generation within the market footprint. The level of detail of the data may vary, as different Operating Entities will have different unique situations to address. However, this data will at a minimum be supplied for imports to and exports from the market area, and will contain as much information as is determined to be necessary to ensure system reliability. This data will be used by the Reliability Coordinators to determine the impacts of schedule curtailment requests when they result in a shift in the dispatch within the market area.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 5 – Market-Based Operating En --> MISO-JOA Att 2 Section 5.3 Day-Ahead Operations Process

5.3 Day-Ahead Operations Process

The Market-Based Operating Entities will use a day-ahead operations process to establish the Firm Flow Limit on Coordinated Flowgates. If the Market-Based Operating Entities utilize a day-ahead unit commitment, they will supplement the day-ahead unit commitment with a security constrained economic dispatch tool, which uses a network analysis model that mirrors the real-time model found within their state estimators. As such, the day-ahead unit commitment and its associated Security Constrained Economic Dispatch respects facility limits and forecasted system constraints. Facility limits of Coordinated Flowgates under the functional control of Market-Based Operating Entities and the allocations of all Reciprocal Coordinated Flowgates will be honored.

For Coordinated Flowgates, a Market-Based Operating Entity can only use one of the following two methods to establish Firm Flow Limit. A Market-Based Operating Entity must use either the day-ahead unit commitment and its associated Security Constrained Economic Dispatch, or a Market-Based Operating Entity's GTL and unused Firm Transmission Service impacts, up to the Flowgate Limit, on the Coordinated Flowgate. At any given time, a Market-Based Operating Entity must use only one method for all Coordinated Flowgates and must give ninety days notice to all other Reciprocal Entities, if it decides to switch from one method to the other method. On a case by case basis, with agreement by all Reciprocal Entities the ninety-day notice period may be waived.

5.4 Real-time Operations Process – Operating Entity Capabilities

Operating Entities' real-time EMSs have very detailed state estimator and security analysis packages that are able to monitor both thermal and voltage contingencies every few minutes. State estimation models will be at least as detailed as the IDC model for all the Coordinated and Reciprocal Coordinated Flowgates. Additionally, Reciprocal Entities will be continually working to ensure the models used in their calculation of Market Flow are kept up to date.

The Operating Entities submit various system measurements (load, generator outputs, control device status, etc.) from their state estimators and Unit Dispatch Systems (UDS) to the SDX in real-time. These measurements are used by the IDC to calculate both the actual and projected hour ahead flows (i.e., total GTL and tagged impact flows) on the Coordinated Flowgates. The IDC's calculations of system flows will utilize each Operating Entity's actual unit output, updated at least every 15 minutes on an established schedule.

5.5 Market-Based Operating Entity Real-time Actions

The Market-Based Operating Entity will upload the real-time and one-hour ahead projected Firm Flow Limits (7-FN) and Non-Firm Flow Limits (6-NN) on these Flowgates to the IDC every 15 minutes, as requested by the IDCWG and OATI (note that under reciprocal operations, some of this 6-NN may be quantified as Priority 2-NH). Firm Flow Limits will be calculated, down to five percent and down to zero percent, and uploaded to the IDC. When the real-time actual flow exceeds the Flowgate limit <u>and</u> the Reliability Coordinator, who has responsibility for that Flowgate, has declared a TLR 3a or higher, the IDC will determine tag curtailments and GTL relief obligations using a tag impact and GTL relief obligation by redispatching their system. Note the Market-Based Operating Entity may provide relief through either: (1) a reduction of flows on the Flowgate in the direction required, or (2) an increase of reverse flows on the Flowgate.

Operating Entities will make any point-to-point transaction curtailments as specified by the IDC. Additionally, Market-Based Operating Entities will implement this redispatch by binding the Flowgate as a constraint in their Unit Dispatch System (UDS). UDS calculates the most economic solution while simultaneously ensuring that each of the bound constraints is resolved reliably.

The Reliability Coordinator calling the TLR will be able to see the relief provided on the Flowgate in both their EMS and in the IDC, as the IDC GTL calculation will reflect the redispatch of the Operating Entities with relief obligations through their real-time measurements submission.

Section 6 - Reciprocal Operations

Reciprocal Coordination Agreements can be executed on a market-to-market basis, a market-tonon-market basis, and a non-market-to-non-market basis. While the congestion management portions of this document are intended to apply specifically to Market-Based Operating Entities, the agreement to allocate Flowgate capability is not dependent on an entity operating a centralized energy market. Rather, it simply requires that a set of Flowgates be defined upon which coordination shall occur and an agreement to perform such coordination. Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 6 - Reciprocal Operations --> MISO-JOA Att 2 Section 6.1 Reciprocal Coordinated Flowgates

6.1 Reciprocal Coordinated Flowgates

In order to coordinate congestion management on a proactive basis, Operating Entities may agree to respect each other's Flowgate limitations during the determination of AFC/ATC and the calculation of firmness during real-time operations. Entities agreeing to coordinate this future-looking management of Flowgate capacity are Reciprocal Entities. The Flowgates used in that process are Reciprocal Coordinated Flowgates.

6.2 The Relationship Between Coordinated Flowgates and Reciprocal Coordinated Flowgates

Coordinated Flowgates are associated with a specific Operating Entity's operational sphere of influence. Reciprocal Coordinated Flowgates are associated with the implementation of a Reciprocal Coordination Agreement between two Reciprocal Entities. By virtue of having executed such an agreement, a Flowgate Allocation can occur between these two Reciprocal Entities as well as all other Reciprocal Entities that have executed Reciprocal Coordination Agreements with at least one of these two Reciprocal Entities. When considering an implementation between two Reciprocal Entities, it is generally expected that each of the Reciprocal Coordinated Flowgates will meet the following three criteria:

- It will meet the criteria for Coordinated Flowgate status for both the Reciprocal Entities,
- It will be under the functional control of one of the two Reciprocal Entities and
- Both Reciprocal Entities have executed Reciprocal Coordination Agreements either with each other or with a Third Party Reciprocal Entity.



As shown in the illustration above, Operating Entity A, Operating Entity B and Operating Entity C each have their own set of Coordinated Flowgates (represented by the blue, yellow and red dotted-line circles). Where those sets of Coordinated Flowgates overlap AND they are in either Operating Entity A's, Operating Entity B's or Operating Entity C's service territory (the gray area), they will be considered Reciprocal Coordinated Flowgates between all three entities. Where those sets of Coordinated Flowgates overlap AND they are in either Operating Entity B's service territory (the purple area), they will be considered Reciprocal Coordinated Flowgates between all three entities. Where those sets of Coordinated Flowgates overlap AND they are in either Operating Entity A's or Operating Entity B's service territory (the purple area), they will be considered Reciprocal Coordinated Flowgates between Operating Entity B and Operating Entity A only. Where those sets of Coordinated Flowgates overlap AND they are in either Operating Entity B's or Operating Entity B and Operating Entity A only. Where those sets of Coordinated Flowgates overlap AND they are in either Operating Entity B's or Operating Entity B or Operating Entity B or Operating Entity B's or Operating Enti

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 6 - Reciprocal Operations --> MISO-JOA Att 2 Section 6.2 The Relationship Between Coordina

Entity C's service territory (the green area), they will be considered Reciprocal Coordinated Flowgates between Operating Entity B and Operating Entity C only. Where those sets of

Coordinated Flowgates overlap AND they are in either Operating Entity A's or Operating Entity C's service territory (the orange area), they will be considered Reciprocal Coordinated Flowgates between Operating Entity A and Operating Entity C only.

To the extent that entities other than Market-Based Operating Entities may enter into a Reciprocal Coordination Agreements, they may offer to coordinate on Flowgates that are Coordinated Flowgates (i.e., have passed one of the five tests defined within this document or otherwise been deemed to be a Coordinated Flowgate).

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6.3 Coordination Process for Reciprocal Flowgates

The following process and timing will be used for coordinating the ATC/AFC calculations and Firm Flow Limit calculations/Allocations between Reciprocal Entities. Further, the process quantifies and limits Priority 6 – NN service on the Reciprocal Coordinated Flowgates, as well as determines priority 2-NH service. All Reciprocal Entities' Firm Flow Limits will be calculated on the same basis.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 6 - Reciprocal Operations --> MISO-JOA Att 2 Section 6.4 Calculating Historic Firm Flows

6.4 Calculating Historic Firm Flows

As a starting point for identifying Allocations, an understanding must be developed of what Firm Flows would be in the historic Control Area structure. In other words, there must be a quantification of the Firm Flows that would have occurred if all Control Areas maintained their current configuration and continued to: (1) serve their native load with their Designated Network Resources, and (2) import and export energy at historical levels (based upon Firm Transmission Service reservations as of the Freeze Date, which is currently set as April 1, 2004. This flow is referred to as Historic Firm Flow.



Reciprocal Entities will utilize the IDC Base Case model, or a mutually agreed upon alternative model as the reference base case for these calculations.

6.5 Recalculation of Initial Historic Firm Flow Values and Ratios

The Firm Transmission Service and Designated Network Resource to customer load defined by the Historic Firm Flow calculation will be updated in the recalculation of Historic Firm Flow utilizing any new Designated Network Resources, updated customer loads, and new transmission facilities. The original historic Control Areas will be retained for the recalculation of Historic Firm Flow. New Designated Network Resources will be included in the recalculation to the extent these new Designated Network Resources have been arranged for the exclusive use of load within the historic Control Areas and to the extent the total impact of all Designated Network Resources as of a "Freeze Date" (defined as April 1, 2004). Any changes to Designated Network Resources and/or the transmission system that increase transmission capability will be assessed in accordance with the Reciprocal Entities AFC Coordination procedures prior to the increasing of Historic Firm Flow related to those systems.

The initial Historic Firm Flow calculated values and resulting Allocation ratios will be recalculated as seasonal cases are produced. This recalculation will utilize the same Firm Transmission Service reservations that were used in the initial Historic Firm Flow calculation. The same Firm Transmission Service reservations are used so that Market-Based Operating Entities that have their Firm Transmission Service internalized, grant fewer internal Firm Transmission Service reservations, or have their original Firm Transmission Service reservations end, because of their market operations, will retain at least the same level of Firm Transmission Service as in the initial Historic Firm Flow calculation. Therefore, the Firm Transmission Service component of the Historic Firm Flow will be frozen on the "Freeze Date" at the initially calculated level for both market and non-market entities.

Any new Control Areas that are added to the Firm Flow calculation process for any Reciprocal Entity, or another Operating Entity, will use Firm Transmission Service reservations from the initial Historic Firm Flow calculation date to establish their Firm Transmission Service component of the Historic Firm Flow.

As the recalculation for Historic Firm Flow is made for each time period, the higher of allocation value will be retained between the initial Historic Firm Flow calculation and the recalculation (See "Forward Coordination Process" Section 6.6, step 8.f). To the extent an Operating Entity has made commitments based on the higher of Allocation value, a recalculation does not reduce previously calculated Allocations.

When a Flowgate experiences a transitory limit reduction or de-rating, there will be no change made to the historic allocations. In effect, the Operating Entity responsible for the Flowgate is expected to absorb the impact of the de-rating by not reducing the historic allocation of the other Operating Entities. This practice is consistent with the use of the higher-of logic in the historic allocation process. Where a change in system conditions, such as a significant transmission outage, affects flows on a longer term basis the Reciprocal Entities will discuss whether historic allocations, including an over-ride of the higher-of logic, should be rerun to recognize the effects of the change in system conditions. The historic allocations shall be rerun only if the affected Reciprocal Entities mutually agree.

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6.6 Forward Coordination Processes

- 1. For each Reciprocal Coordinated Flowgate, a managing entity and an owning entity will be defined. The manager will be responsible for all calculations regarding that Flowgate; the owner will define the set of Firm Transmission Service reservations to be utilized when determining Firm Transmission Service impacts on that Flowgate.
- 2. Managing entities will calculate both Historic Firm Gen-to-Load Flow impacts and historic Firm Transmission Service impacts for all entities. These impacts will be used to define the Historic Ratio and the Allocation of transmission capability.
- 3. The managing entity will utilize the current IDC Base Case (or other mutually agreeable base case) to determine impacts. The case should be updated with the most current set of outage data for the time period being calculated.

Allocation Run Type	Allocation Process Start	Range Allocated	Allocation Process Complete
April Seasonal Firm	Every April 1 at 8:00 EST	Twelve monthly values from October 1 of the current year through September 30 of the next year	April 1 at 12:00 EST
October Seasonal Firm	Every October 1 at 8:00 EST	Twelve monthly values from April 1 of next year through March 31 of the following year	October 1 at 12:00 EST
Monthly Firm	Every month on the second day of the month at 8:00 EST	Six monthly values for the next six successive months	2 nd of the month at 12:00 EST
Weekly Firm	Every Monday at 8:00 EST	Seven daily values for the next Monday through Sunday	Monday at 12:00 EST
Two-Day Ahead Firm	Every Day at 17:00 EST	One daily value for the day after tomorrow	Current Day at 18:00 EST
Day Ahead Non-Firm	Every Day at 8:00 EST	Twenty-four hourly values for the next 24- hour period (Next Day HE1-HE24 EST)	Current Day at 9:00 EST

4. Managing entities will calculate Allocations on the following schedule:

5. Historic Ratios are defined during the seasonal runs the first time an impact is calculated. For example, the 2004 April seasonal firm run would define the Historic Ratio for April 2005 – September 2005 (October through March would have been calculated during the 2003 October seasonal firm run). The Historic Ratio is based on the total impacts of the Reciprocal Entity on the Flowgate (Historic Firm Gen-to-Load Flows and historic Firm Transmission Service flows, down to 0%) relative to the total impacts of all other Reciprocal Entities' impacts on the Flowgate. For example, if Reciprocal Entity A had a 30 MW impact on the Flowgate and Reciprocal Entity B had a 70 MW impact on the Flowgate, the Historic Ratios would be 30% and 70%, respectively.

- 6. The same rules defined in the "Market-Based Operating Entity Congestion Management" Section 5 of this document for use in determining Firm Transmission Service impacts (NNL) shall apply when performing Allocations.
- 7. Additional rules to be used when considering Firm Transmission Service impacts are defined later within this section.
- 8. For each firm Allocation run described above, the managing entity will take the following steps to determine Allocations down to 0% for each of the Flowgates, in both the forward and reverse direction, they are assigned to manage:
 - a. Retrieve the Flowgate limit
 - b. Subtract the current Transmission Reliability Margin (TRM) value (may be zero)
 - c. Subtract the sum of all historically determined Firm Flow impacts for all entities based on impacts greater than or equal to 5%
 - d. Accommodation of Capacity Benefit Margin (CBM)
 - If no capacity remains after step (c), entities' firm Allocation is limited to this amount (i.e., their Firm Flow impacts from impacts of 5% or greater), and the firm Allocation for the entity with functional control over the Flowgate is increased by the current CBM value (may be zero).
 - If capacity does remain after step (c), and the sum of all Reciprocal Entities' impacts below 5% plus CBM is less than the remaining capacity from step (c), that capacity is allocated to the Reciprocal Entities pro-rata based on their Firm Flow impacts due to impacts less than 5% up to the total amount of their Firm Flow impacts due to impacts less than 5%.
 - If there is not sufficient capacity for all impacts below 5% plus CBM to be accommodated, the current CBM value is subtracted from the remaining capacity from step (c), and granted to the entity with functional control over the Flowgate. Any capacity remaining is allocated to the Reciprocal Entities pro-rata based on their Firm Flow impacts due to impacts less than 5%.
 - e. Any remaining capacity, after step (d) will be considered firm and allocated to Reciprocal Entities based on their Historic Ratio (as described in step 5). If the remaining capacity allocated to the entity with functional control over the Flowgate meets or exceeds the current CBM value, no further effort is needed. If the remaining capacity is less than the CBM, capacity will first be reduced by the CBM, and the entity with functional control over the Flowgate will be granted the capacity needed to support the CBM. In addition each Reciprocal Entity (including the entity with functional control over the Flowgate) will receive allocations determined as a pro-rata share of the remaining capacity (as described in Step 5).
 - f. Upon completion of the Allocation process, the managing entity will compare the current preliminary Allocation to the previous Allocations. For any given Flowgate, the larger of the Allocations will be considered the Allocation (i.e., an Allocation cannot decrease). Once all preliminary Allocations have been compared and the final Allocation determined, the managing entity will distribute the Allocations to the appropriate Reciprocal Entities. This Allocation will consist of the firm Gen-to-Load limit and a portion of capability that can be used either for Firm Transmission Service or additional firm Gen-to-Load service.

- 9. For the non-firm Allocation run described above, the managing entity will take the following steps to determine Allocations down to 0% for each of the Flowgates, in both the forward and reverse direction, they are assigned to manage. For each hour, the managing entity shall:
 - a. Retrieve the Flowgate limit
 - b. Subtract the current TRM value (may be zero)
 - c. Subtract the sum of all hourly historically determined Firm Flow impacts for all entities based on impacts greater than or equal to 5%
 - d. Subtract the sum of all hourly historically-determined Firm Flow impacts for all Reciprocal Entities based on impacts less than 5%.
 - e. Any remaining capacity will be allocated to Reciprocal Entities based on their Historic Ratio (as described in step 5).
 - f. The two-day ahead firm Allocation is subtracted from the total entity Allocation (from steps c, d, and e).
 - If the result is positive, this value will be equivalent to the Priority 6-NN Allocation/limit, and the Firm Flow Limit for 0% Market Flows will be the two-day ahead firm Allocation.
 - If the result is negative or zero, the Priority 6-NN Allocation will be calculated by subtracting the total entity Allocation (from steps c, d and e) from the two-day ahead firm Allocation. The Firm Flow Limit for 0% Market Flows will be the equivalent of the total entity allocation.
 - g. Upon completion of the Allocation process, the managing entity will distribute the Allocations to the appropriate Reciprocal Entities. These Allocations will be considered non-firm network service.

When a Market-Based Operating Entity is uploading Firm Flow Limits to the IDC, they will be responsible for ensuring that any firm Allocations are properly accounted for. If firm Allocations are used to provide additional firm network service, they should be included in the Firm Flow Limit. If they are used to provide additional Firm Transmission Service, they should not be included in the Firm Flow Limit.

The Market-Based Operating Entities will maintain in real-time their Firm Transmission Service and Network Non-Designated service impacts, within their respective firm and Priority 6 total Allocations. The Firm Transmission Service impacts will be based on schedules. The Operating Entities participating in the Coordinated Process for Reciprocal Flowgates will respect their allocations when granting Firm Transmission Service.

Using the derived firm Allocation value, the Market-Based Operating Entity may choose to enter this value as a Flowgate limit for the respective Flowgate. If entered as a Flowgate limit, the Day-Ahead unit commitment will not permit flows to exceed this value as it selects units for this commitment. Market-Based Operating Entities will use the Flowgate limit to restrict unit outage scheduling for a Coordinated Flowgate when maintenance outage coordination indicates possible congestion and there is recent TLR activity on a Flowgate.

As Reciprocal Entities gain more experience in this process, implement and enhance their systems to perform the Firm Flow calculations and Allocations, they may change the timing requirements for the Forward Coordination Process by mutual agreement.

6.6.1 Determining Firm Transmission Service Impacts

Firm impacts used in the Allocation process incorporate the Firm Transmission Service flows. Similar to the network service calculation described previously, to calculate each Firm Transmission Service transaction's impact on the Flowgate, the following process is utilized:

- 1. Utilize a base case to determine the Generation Shift Factor for the source Control Area with respect to a specific Flowgate.
- 2. Utilize the same base case to determine the Generation Shift Factor for the sink Control Area with respect to that Flowgate.
- 3. Utilize superposition to calculate the TDF for that source to sink pair with respect to that Flowgate.
- 4. Multiply the transactions energy transfer by the TDF to determine that transactions flow on the Flowgate.

Summing each of these impacts by direction will provide the directional Firm Transmission Service impact on the Flowgate.

Combining the directional Firm Transmission Service impacts with the directional NNL impacts will provide the directional Firm Flows on the Flowgate.

6.6.2 Rules for Considering Firm Transmission Service

- 1. Firm Transmission Service and Designated Network Resources that have an OASIS reservation are included in the calculation.
- 2. Reciprocal Entities will utilize a Freeze Date of April 1, 2004. Reciprocal Entities will utilize a reference year of June 1, 2004 through May 31, 2005 for determining the confirmed set of reservations that will be used in the Allocation process. The reference year is used such that reservation impacts in a given month in the reference year are used for each comparable month going forward in the Allocation process. For example, the Allocations for July 2004, July 2005, and July 2006 etc. will always use the July 2004 reservation impacts from the reference year. Confirmed reservations received after the Freeze Date will not be considered.
- 3. A potential for duplicate reservations exists if a transaction was made on individual CA tariffs (not a regional tariff) and both parties to the transaction (source and sink) are Reciprocal Entities. In this case, each Reciprocal Entity will receive 50% of the transaction impact.
- 4. To the extent a partial path reservation is known to exist, it will have 100% of its impacts considered on Reciprocal Coordinated Flowgates owned by the party that sold the partial path service, split 50/50 between the Source Reciprocal Entity and the Sink Reciprocal Entity, and 0% of its impacts considered on other Reciprocal Coordinated Flowgates.
- 5. Because reservations that are totally within the footprint of the regional tariff do not have duplicate reservations, these reservations will have the full impact considered even
though both parties to the transaction (source and sink) are within the boundaries of the regional tariff and will be considered Reciprocal Entities, split 50/50 between the Source Reciprocal Entity and the Sink Reciprocal Entity, which in this case are the same. Similar to the firm network service calculation, the Firm Transmission Service calculation:

a. Will consider all reservations (including those with less than 5% impact)

b. Will base response factors on the topology of the system for the period under consideration.

c. In general, will not make a generation-to-load calculation where a reservation exists.

6.6.3 Limiting Firm Transmission Service

The Flowgate Allocations down to 0% will represent the share of total Flowgate capacity (STFC) that a particular entity has been allocated. This STFC represents the maximum total impact that entity is allowed to have on that Flowgate.

In order to coordinate with the existing AFC process, it is necessary that this number be converted to an available STFC (ASTFC) which represents how much Flowgate capability remains available on that Flowgate for use as Transmission Service. In order to accomplish this, the entity receiving STFC will do the following:

Step	Example
1.) Start with the STFC	100
2.) Add all forward Gen to Load	42 + (-20) = 22
impacts (down to 0%) and all	
Reverse Gen to Load impacts	
(down to 0%) to obtain the Net	
Gen to Load impacts. The Gen to	
Load impacts should be based on	
the best estimate of firm Gen-to-	
Load Flow for the time period	
being evaluated.	
3.) Subtract the net Gen to Load	100 - 22 = 78
impacts from the STFC	
4.) Subtract the CBM to produce	78 - 0 = 78
an interim STFC	
5.) Determine the Transmission	58 + (0.15 (-45)) =
Service impacts of service that has	
been sold. By default, it should be	$58 + (-6.75) \approx$
assumed that 100% of forward	
service and 15% of counterflowing	58 + (-7) = 51
service will be scheduled and	
used. However, if Flowgate	
"owner" uses different percentages	
in their AFC calculation and the	
Flowgate manager's calculation	

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engine support it, percentages	
other then 100% and 15% may be	
other than 100% and 15% may be	
used. Add all forward	
Transmission Service impacts	
(down to 0%) and all appropriate	
reverse Transmission Service	
impacts (down to 0%) to obtain	
the weighted net Transmission	
Service impacts. The	
Transmission Service impacts	
should be based on the <i>current</i> set	
of reservations in effect for the	
time period being evaluated (not	
the historic reservation set)	
6.) Subtract the weighted net	78 - 51 = 27
Transmission Service impacts	
from the Interim STFC. The result	
is the ASTFC	

The ASTFC values for Reciprocal Coordinated Flowgates will be posted on OASIS along with the Allocation results. This ASTFC can then be compared with the AFC calculated through traditional means when evaluating firm requests made on OASIS.

If the AFC value is LOWER than the ASTFC value, the AFC value should be utilized for the purpose of approving/denying service. In this case, while the Allocation process might indicate that the entity has rights to a particular Flowgate through the Allocation process, current conditions on that Flowgate indicate that selling those rights would result in overselling of the Flowgate, introducing a reliability problem.

If the AFC value is HIGHER than the ASTFC value, the ASTFC value should be utilized for the purpose of approving/denying service. In this case, while the AFC process might indicate that the entity can sell more service than the Allocation might indicate, the entity is bound to not sell beyond their Allocation.

If a Reciprocal Entity uses all of its firm Allocation and desires to obtain additional capacity from another Reciprocal Entity who has remaining capacity, that additional capacity may be obtained using the procedures documented below.

6.7 Sharing or Transferring Unused Allocations

Reciprocal Entities shall use the following process for the sharing or transferring of unused Allocations down to 0% between each other.

6.7.1 General Principles

This process includes the following general principles in the treatment of unused Allocations

- 1. A desire to fully utilize the Reciprocal Entities' Allocations such that in real-time, an unused Allocation by Reciprocal Entities is caused by a lack of commercial need for the Allocation by Reciprocal Entities and not by restrictions on the use of the Allocation.
- 2. For short-term requests (less than one year) where the lack of an Allocation could otherwise result in the denial of Transmission Service requests, there should be a mechanism to share or acquire a remaining Allocation on a non-permanent basis for the duration of the short-term transmission service requests. The short-term Allocation transfers would revert back to the Reciprocal Entity with the original Allocation after the short term request expires.
- 3. For long-term requests (one year or longer) where the lack of an Allocation could otherwise cause the construction of new facilities, there should be a mechanism to acquire a remaining Allocation such that new facilities are built only because they are needed by the system to support the transaction and not because of the Allocation split between Reciprocal Entities. Long-term Allocation transfers would apply to the original time period of the request including any roll-over rights that are granted for such requests.
- 4. Due to limitations on the frequency of transferring updated Allocation values and AFC's between the Reciprocal Entities, the Reciprocal Entities will utilize buffers to reduce the risk of overselling the same service, and to set aside a portion of the unused Allocation for the owner of the unused Allocation to accommodate any request that they may receive. The buffer will be reduced on a Flowgate based upon factors such as the rating of the Flowgate and operational experience, with the goal to maximize the use of the unused Allocation. The rationale for reducing the buffer is that potentially significant amounts of Transmission Service (up to many times the buffer amount) may be denied otherwise by the non-owner of the unused Allocation.

6.7.2 Provisions for Sharing or Transferring of Unused Allocations:

1. Based upon the proposed infrastructure for Allocation calculations, daily Allocations are available for 7 days into the future and Weekly and Monthly Allocations are available up to 18 months into the future. Sharing and transferring of unused Allocations will be limited to the granularity of the Allocation calculations.

- 2. The Reciprocal Entities will share or transfer their unused firm Allocations during the time periods up until day ahead with the goal to fully utilize the Allocations.
- 3. This sharing or transfer of the unused Allocation will occur automatically for short-term Transmission Service requests, and manually for long-term (one year or greater) Transmission Service requests. The Reciprocal Entity that has been requested to transfer unused Allocations to the other Reciprocal Entity for a long-term request shall respond within <u>5</u> business days of receipt of the transfer request.
- 4. The Reciprocal Entities will post information available to the other Reciprocal Entity on all requests granted that shared or acquired the other Reciprocal Entity's Allocation on a daily basis for review.
- 5. Sharing an Unused Allocation During the Near-Term

The Reciprocal Entities will share their Allocations during the near-term (the first 7 days up until day ahead or a mutually agreed upon timeframe) with the goal to fully utilize the Allocations once in real-time through an automated process.

This sharing of the unused Allocation during the near-term will occur such that an unused Allocation that has not already been committed for use by either Firm Transmission Service or for market service will be made available to the other Reciprocal Entities for their use to accommodate Firm Transmission Service requests submitted on OASIS.

Other firm uses of the transmission system involving generation to load deliveries, which are not evaluated via automated request evaluation tools, will be handled via off-line processes. The core principles to be applied in such cases include:

- a. A sharing of Allocation can occur.
- b. The sharing shall be done on a comparable basis for the market and nonmarket entities.
- c. The sharing is not related to projected Firm Flow Limits absent new DNRs or Transmission Service submitted on OASIS.
- d. The details of the process will include such items as which DNRs are covered, time-lines for designations and comparable evaluation of DNRs. If the details of this process can not be agreed upon, there shall be no sharing of the unused Allocations during the near-term.

A buffer will limit the amount of Allocation that can be shared for short-term requests during automated processing of the Allocation sharing process. The owner of the unused Allocation is not restricted by the buffer. The buffer is defined as a percentage of the last updated unused Allocation, provided that the buffer shall not be allowed to be less than a certain MW value. For example, a 25% or 20 MW buffer would mean that the requesting entity can use the other Reciprocal Entity's unused Allocation while making sure that the other entity's unused Allocation does not become smaller than 25% of the reported unused amount or 20 MW. The specific provisions of the buffer shall be mutually agreed to by the Reciprocal Entities prior to implementing a sharing of unused Allocation. The buffer will not be used in manual processing of Allocation

sharing requests. For manual processing of requests, the owner of the unused Allocation will share the remaining unused Allocation to the extent they do not need the unused Allocation for pending Transmission Service requests.

For the sharing of unused Allocations in the near-term, the Allocations are <u>not</u> changed and should congestion occur, the IDC obligations for the giving Reciprocal Entity will be in accordance with its original Allocation. The receiving Reciprocal Entity will not be required to retract or annul any service previously granted due to the sharing of Allocations.

6. Acquiring an Unused Allocation Beyond the Near Term

When a Reciprocal Entity does not have sufficient Allocation on a Flowgate to approve a firm point-to-point or network service request made on OASIS and evaluated via automated request evaluation tools and the other Reciprocal Entity has a remaining Allocation, the deficient Reciprocal Entity will be able to acquire an Allocation from the Reciprocal Entity with the remaining Allocation. This Allocation must not already be committed for other appropriate uses, as agreed to by the Reciprocal Entities, and sufficient AFC must remain on the Flowgate, or will be created, to accommodate the request. Such cases will be handled via automated processes.

Other firm uses of the transmission system involving generation to load deliveries, which are not evaluated via automated request evaluation tools, will be handled via off-line processes. The core principles to be applied in such cases include:

- a. A transfer of Allocation can occur.
- b. The transfer shall be done on a comparable basis for the market and nonmarket entities.
- c. The transfer is not related to projected Firm Flow Limit absent new DNRs or Firm Transmission Service submitted on OASIS.
- d. The details of the process will include such items as which DNRs are covered, time-lines for designations and comparable evaluation of DNRs If the details of this process can not be agreed upon, there shall be no transfer of the Allocation for the time period beyond the near term.

A buffer will limit the amount of Allocation that can be acquired for these requests during automated processing of the Allocation transfer process. The owner of the unused Allocation is not restricted by the buffer. The buffer is defined as a percentage of the last updated unused Allocation, provided that the buffer shall not be allowed to be less than a certain MW value. For example, a 25% or 20 MW buffer would mean that the requesting entity can use the other Reciprocal Entity's unused Allocation while making sure that the other entity's unused Allocation does not become smaller than 25% of the reported unused amount or 20 MW. The specifics of the buffer shall be mutually agreed to by the Reciprocal Entities prior to implementing a transferring of unused Allocation. The buffer will not be used in manual processing of Allocation sharing requests. For manual processing of requests, the owner of the unused Allocation will

transfer the remaining unused Allocation to the extent they do not need the unused Allocation for pending Transmission Service requests.

The determination of whether the remaining Allocation has already been committed will be established based on OASIS queue time. All requests received prior to the queue time will be considered prior commitments to the remaining Allocation, while such requests are in a pending state (e.g. study status) or confirmed state. Requests received after the queue time will be ignored when determining whether remaining capacity has already been committed.

In the event that prior-queued requests are still in a pending state (i.e. not yet confirmed), the Reciprocal Entity requesting a transfer of unused Allocations may await the resolution of any prior-queued requests in the other Reciprocal Entity's OASIS queue before relinquishing its ability to request an Allocation transfer.

For the transfer of unused Allocations, the Reciprocal Entity's Allocations will be changed to reflect the Allocation transfer at the time the Allocation transfer request is processed. To the extent the request is not ultimately confirmed, the Allocation will revert back to the original Reciprocal Entity with the remaining Allocation. For yearly requests, the transfer of the Allocation applies to the original time period of the request including any roll-overs that are granted.

6.8 The Application of Firm Flow Limits in the IDC

In addition to the responsibilities described earlier in "Market-Based Operating Entity Congestion Management" Section 5 of this document, Market-Based Operating Entities will have an additional obligation, on Reciprocal Coordinated Flowgates, to further quantify their Non-Firm GTL flows into two (2) separate priorities in the IDC: Non-Firm Network (6-NN), and Non-Firm Hourly (2-NH). Within the IDC, the priorities will be determined as follows:

- If the GTL flow exceeds the sum of the Firm Flow Limit and the 6-NN Allocation, then:
 2-NH = GTL flow (Firm Flow Limit + 6-NN Allocation)
 6-NN = 6-NN Allocation
 7-FN = Firm Flow Limit
- 2. If the GTL flow exceeds the Firm Flow Limit but is less than the 6-NN Allocation, then:
 2-NH = 0
 6-NN = GTL flow Firm Flow Limit
 7-FN = Firm Flow Limit
- 3. If the GTL flow does not exceed the Firm Flow Limit, then
 2-NH = 0
 6-NN = 0
 7-FN = GTL flow
- 4. If the tag associated with EAR is converted to Market Flow and excluded by the IDC, the Market Flow shall have a priority that is no higher than it would have been if the tag was not excluded by IDC. This provision aims to keep the application of these tags consistent between the Market Flow used in market-to-market and the GTL calculation performed by the IDC and used in TLR.

All other aspects of this data remain identical to those described in "Market-Based Operating Entity Congestion Management" Section 5.

6.9 Real-time Operations Process for Market-Based Operating Entities

6.9.1 Market-Based Operating Entity Capabilities

Capabilities remain as described in "Market-Based Operating Entity Congestion Management" Section 5.

6.9.2 Market-Based Operating Entity Real-time Actions

Procedures remain as described in "Market-Based Operating Entity Congestion Management" Section 5. However, as described above, additional information regarding the firmness of those Non-Firm GTL flows will be communicated as well. A portion will be reported as 6-NN, while the remainder will be reported as 2-NH. This will provide additional ability for the IDC to curtail portions of the Non-Firm GTL flows earlier in the TLR process.

6.10 Requirements to Combine Allocations with Non-Reciprocal Entity

The following requirements must be satisfied for a Combining Party to incorporate a Non-Reciprocal Entity's load and the associated generation serving that load into the Reciprocal Entity's Allocation calculations:

- 1. The Non-Reciprocal Entity's load and associated generation serving that load participates in the market of the Combining Party pursuant to a FERC-accepted agreement(s).
- 2. The Non-Reciprocal Entity has not placed its transmission facilities under the Open Access Transmission Tariff of the Combining Party, nor has the Non-Reciprocal Entity executed a transmission owner agreement or membership agreement, or equivalent thereof, of the Combining Party.
- 3. The Non-Reciprocal Entity is wholly embedded (i.e., the load and associated generation serving that load are included in Allocations, Market Flows, and IDC GTL calculations) into the Combining Party's Control Area footprint in accordance with the CMP.
- 4. The Combining Party must treat the Non-Reciprocal Entity's impacts in the IDC, Market Flow, Firm Flow Limit, and Firm Flow Entitlement calculations consistently as the Combining Party does its own impacts in accordance with this CMP. The Non-Reciprocal Entity's load and associated generation serving that load otherwise needs to be eligible for inclusion in firm Allocations, Firm Flow Limit, and Firm Flow Entitlement under the terms of this CMP.
- 5. Any transmission facilities owned by the Non-Reciprocal Entity must be treated comparably to the transmission facilities of other Reciprocal Entities consistent with the terms of the CMP.
- 6. The Combining Party must provide notice to the other Reciprocal Entities of its plans to combine allocations within sixty (60) calendar days of making a filing at the FERC that would result in a Non-Reciprocal Entity's load and associated generation serving that load being combined with the Combining Party or upon combining Allocations (whichever occurs first). Even though a situation in which a Combining Party has proposed to combine Allocations with a Non-Reciprocal Entity may satisfy requirement numbers 1 through 5 of this list, this does not preclude other Reciprocal Entities from raising any objection pursuant to the dispute resolution process of a joint operating agreement or by filing a Section 206 complaint with the FERC if the proposed combination of Allocations would be inconsistent with this CMP or produces a result that is unjust and unreasonable.

Section 7 – Appendices

Appendix A – Glossary

Agreement – Agreement shall mean this Joint Operating Agreement Between the Midcontinent Independent System Operator, Inc. and PJM Interconnection, L.L.C., as amended from time to time, including all attachments, appendices, and schedules.

Allocation – A calculated share of capability on a Reciprocal Coordinated Flowgate to be used by Reciprocal Entities when coordinating AFC, transmission sales, and dispatch of generation resources.

Available Flowgate Capability (AFC) – the applicable rating of the applicable Flowgate less the projected loading across the applicable Flowgate less TRM and CBM. The firm AFC is calculated with only the appropriate Firm Transmission Service reservations (or interchange schedules) in the model, including recognition of all roll-over Transmission Service rights. Non-firm AFC is determined with appropriate firm and non-firm reservations (or interchange schedules) modeled.

AFC Flowgate – A Flowgate for which an entity calculates AFC's.

Combining Party – Combining Party shall mean a Reciprocal Entity that is incorporating the load and associated generation serving that load from a Non-Reciprocal Entity into the Reciprocal Entity's Allocations pursuant to Section 6.10 of this CMP.

Control Area – Shall mean an electric power system or combination of electric power systems to which a common automatic generation control scheme is applied.

Control Zones – Within an Operating Entity Control Area that is operating with a common economic dispatch, the Operating Entity footprint is divided into Control Zones to provide specific zonal regulation and operating reserve requirements in order to facilitate reliability and overall load balancing. The zones must be bounded by adequate telemetry to balance generation and load within the zone utilizing automatic generation control.

Coordinated Flowgate (**CF**) – shall mean a Flowgate impacted by an Operating Entity as determined by one of the five studies detailed in Section 3 of this document. For a Market-Based Operating Entity, these Flowgates will be subject to the requirements under the Congestion Management portion of this document (Sections 4 and 5). A Coordinated Flowgate may be under the operational control of a Third Party.

Designated Network Resource – A resource that has been identified as a designated network resource pursuant to a transmission provider's Open Access Transmission Tariff.

EIDSN – Eastern Interconnection Data Sharing Network.

External Asynchronous Resource¹ (EAR) – A Resource representing an asynchronous DC tie between the synchronous Eastern Interconnection grid and an asynchronous grid that is supported within the Transmission Provider Region through Dynamic Interchange Schedules in the Day-Ahead Energy and Operating Reserve Market and/or Real-Time Energy and Operating Reserve Market. External Asynchronous Resources are located where the asynchronous tie terminates in the synchronous Eastern Interconnection grid.

Firm Flow – The estimated impacts of Firm Transmission Service on a particular Coordinated or Reciprocal Coordinated Flowgate.

Firm Flow Limit – The maximum value of Firm Flows an entity can have on a Coordinated or Reciprocal Coordinated Flowgate, based on procedures defined in Sections 4 and 5 of this document.

Firm Market Flow – The portion of Market Flow on a Coordinated or Reciprocal Coordinated Flowgate related to contributions from the native load serving aspects of the dispatch (constrained as appropriate by the Firm Flow Limit).

Firm Transmission Service – The highest quality (priority) service offered to customers under a filed rate schedule that anticipates no planned interruption or similar quality service offered by transmission providers by contract that do not require the filing of a rate schedule. Firm Transmission Service only includes firm point-to-point service, network designated transmission service and grandfather agreements deemed firm by the transmission provider as posted on OASIS.

Flowgate – A representative modeling of facilities or groups of facilities that may act as significant constraint points on the regional system.

Freeze Date – the cutoff date chosen by Reciprocal Entities to be used in the calculation of Historic Firm Flows.

Generation-to-Load (GTL) – The calculated energy flows on a specified Flowgate as a result of dispatch of generating resources serving load within an Operating Entity's Control Area, as specified in NAESB BPS WEQ-008 starting version 3.3.

Generator Priority Schedules (GPS) – A schedule that indicates the Transmission Service curtailment priority of the generator output, as specified in NAESB BPS WEQ-008-9.1.3.

Generator Shift Factor - A factor to be applied to a generator's expected change in output to determine the amount of flow contribution that change in output will impose on an identified transmission facility or Flowgate, referenced to a swing bus.

¹ External Asynchronous Resource is specific to the MISO tariff, MISO, FERC Electric Tariff, Module A, § 1.E "External Asynchronous Resource" (33.0.0).

Historic Firm Flow – The estimated total impact an entity has on a Reciprocal Coordinated Flowgate when considering the impacts of (1) its historic Designated Network Resources serving native load, and (2) imports and exports, based on Firm Transmission Service reservations that meet the "Freeze Date" criteria.

Historic Firm Gen-to-Load Flow – The flow associated with the native load serving aspects of dispatch that would have occurred if all Control Areas maintained their current configuration and continued to serve their native load with their generation.

Historic Ratio – The ratio of Historic Firm Flow of one Reciprocal Entity compared to the Historic Firm Flow of all Reciprocal Entities on a specific Reciprocal Coordinated Flowgate.

LMP Based System or Market – An LMP based system or market utilizes a physical, flowbased pricing system to price internal energy purchases and sales.

Load Shift Factor – A factor to be applied to a load's expected change in demand to determine the amount of flow contribution that change in demand will impose on an identified transmission facility or Flowgate, referenced to a swing bus.

Locational Marginal Pricing (LMP) – the processes related to the determination of the LMP, which is the market clearing price for energy at a given location in a Market-Based Operating Entity's market area.

Market Flows – The calculated energy flows on a specified Flowgate as a result of dispatch of generating resources serving market load within a Market-Based Operating Entity's market.

Market-Based Operating Entity – An Operating Entity that operates a security constrained, bid-based economic dispatch bounded by a clearly defined market area.

Network and Native Load (NNL) – the impact of generation resources serving internal system load, based on generation the network customer designates for Network Integration Transmission Service (NITS). NNL is also referred to as Gen to Load.

Non-Firm Market Flow – That portion of Market Flow related to a Market-Based Operating Entity's market operations in excess of that entity's Firm Market Flow.

Non-Reciprocal Entity – Non-Reciprocal Entity shall mean an Operating Entity that is not a Reciprocal Entity.

Operating Entity – An entity that operates and controls a portion of the bulk transmission system with the goal of ensuring reliable energy interchange between generators, loads, and other operating entities.

Party or Parties – Party or Parties refers to each party to this Agreement or both, as applicable.

Parallel Flow Visualization (PFV) – Conceptual ideas captured in NAESB BPS WEQ-008 starting with version 3.3.

Reciprocal Coordination Agreement – An agreement between Operating Entities to implement the reciprocal coordination procedures defined in the CMP.

Reciprocal Coordinated Flowgate (RCF) – A Flowgate that is subject to reciprocal coordination by Operating Entities, under either this Agreement (with respect to Parties only) or a Reciprocal Coordination Agreement between one or more Parties and one or more Third Party Operating Entities. An RCF is:

- A CF that is (a) (i) within the operational control of Reciprocal Entity or (ii) may be subject to the supervision of Reciprocal Entity as Reliability Coordinator, and (b) affected by the transmission of energy by two or more Parties; or
- 2. A CF that is (a) affected by the transmission of energy by one or more Parties and one or more Third Party Operating Entities, and (b) expressly made subject to CMP reciprocal coordination procedures under a Reciprocal Coordination Agreement between or among such Parties and Third Party Operating Entities; or
- 3. A CF that is designated by agreement of both Parties as an RCF.

Reciprocal Entity – an entity that coordinates the future-looking management of Flowgate capacity in accordance with a Reciprocal Coordination Agreement as developed under Section 6 of this document, or a congestion management process approved by the Federal Energy Regulatory Commission; provided such congestion management process is identical or substantially similar to this CMP.

Security Constrained Economic Dispatch – the utilization of the least cost economic dispatch of generating and demand resources while recognizing and solving transmission constraints over a single Market-Based Operating Entity Market.

Tag Secondary Network Transmission Service Method (TSNT) - A method for determining the Transmission Service curtailment priority of the Secondary Network Transmission Service using e-Tags, as specified in NAESB BPS WEQ-008-1.9.2.

Third Party – Third Party refers to any entity other than a Party to this Agreement.

Tie Line – Tie Line shall mean a circuit connecting two Control Areas.

Transfer Distribution Factor – the portion of an interchange transaction, typically expressed in per unit, flowing across a Flowgate.

Transmission Service – services provided to the transmission customer by the transmission service provider to move energy from a point of receipt to a point of delivery.

Appendix B - Determination of Marginal Zone Participation Factors

In order for the IDC to properly account for tagged transactions into and out of the market area, a Market-Based Operating Entity using the Marginal Zone methodology will need to provide participation factors representing the facilities contributing to the tagged transactions. The facility or facilities contributing to each export tagged transaction is the source of the export tagged transaction. The facility or facilities contributing to each import tagged transaction is the sink of the import tagged transaction.

The Market-Based Operating Entity will be required to define a set of zones that can be aggregated into a common distribution factor that is representative of the market area. This information must be shared and coordinated with the IDC. Following this step, the Market-Based Operating Entity must then send to the IDC participation factors for those zones. These participation factors represent the percentages of how these zones are providing marginal megawatts as a result of dispatch of resources in market operations to serve transactions. Data sets for each external source/sink are required, which correspond to:

- An IMPORT data set, which indicates the participation of facilities accommodating the energy imported into the market area, and
- An EXPORT data set, which indicates the participation of facilities accommodating the energy exported out of the market area.

The methodology used by the Market-Based Operating Entity to determine the Marginal Zone participating factors will be determined through collaboration of the Market-Based Operating Entity with the IDC working group.

Participation Factor Calculation

The Market-Based Operating Entity will use the real-time system conditions to calculate the marginal zone participation factors, which reflect the impacts of tagged transactions. These will establish, for imports and exports, a set of participation factors that, when summed, will equal 100 percent.

Appendix C - Flowgate Determination Process

This section is has been added to clarify:

- How initial Flowgates are identified (Figure C-1, Table C-1)
 - Process for Flowgates in the Coordinated Flowgate list
 - Process for Flowgates in the Reciprocal Coordinated Flowgate list
 - Process for Flowgates in the AFC List
- How Flowgates will be added (Figure C-2, Table C-2)
- How often Flowgates are changed (Figure C-2, Table C-2)



		TABLE C-1		
Step	Activity	Requirements	Detailed Description	Additional Documentation
1	Retrieve FG From List Of Known FG's	Retrieve FG from AFC list of FGs, NERC Book of FGs, and any other list of FGs.	• Retrieve the FG from the list of FGs. If a Reciprocal Entity wants us to consider a temporary FG it would go through the same process.	
2	Determine if FG passes >= 1 CMP Study	The decision determines if the FG passes at least one of the five CMP studies.	• If the FG passes any of the studies, determine if there is mutually agreed upon reason why this should not be a coordinated FG.	See Impacted Flowgate Determination -Section 3
			• If the FG does not pass any of the studies, it will be determined if there is a unilaterally decided reason for inclusion as a CF.	
3	Is There a Mutually Agreed Upon Reason This Should Not Be A Coordinated Flowgate	Determine if there is a mutually agreed reason, despite passing one of the five tests, why this FG should not	• If there is no mutually agreed reason why this FG should not be considered coordinated, test whether FG is under control of a Reciprocal Entity.	
		be considered Coordinated.	should not be considered coordinated, record the reason proceed to Step 10.	
4	Is the Flowgate under control of a Reciprocal	If the Flowgate is under the control of a non-reciprocal	• If the Flowgate is not under control of a Reciprocal Entity proceed to Step 7.	
	Entity	entity and the Flowgate passes one of the five tests it will be treated as a Coordinated Flowgate.	• If the Flowgate is under control of a Reciprocal Entity Proceed to Step 5.	
5	Is there a mutually agreed reason this should not be AFC Flowgate?	Determine if there is a mutually agreed reason, despite qualifying as a	• If there is a mutually agreed reason to not include the Coordinated Flowgate in the AFC process proceed to Step 7.	
		this Coordinated Flowgate, why this Coordinated Flowgate is not included in the AFC process.	• Otherwise proceed to Step 6.	

Step	Activity	Requirements	Detailed Description	Additional Documentation
б	Is Flowgate an AFC Flowgate	A check is done to determine if the Flowgate controlled by a Reciprocal Entity is in its AFC	• If the Flowgate is in the AFC process or in the process of being added to the AFC process proceed to Step 7.	
7	Set FG = Coordinated	The FG would be coordinated for the entity.	• The FG would be considered a CF.	

Step 8	Activity Is FG Coordinated for >= 2 Reciprocal Entities and "owned" by a Reciprocal Entity	Requirements Determine whether the FG is coordinated for two or more Reciprocal Entities	Detailed Description • If the FG is coordinated for two or more Reciprocal Entities and it is "owned" by one of the entities, it will be added to the CMP process as a reciprocal coordinated FG.	Additional Documentation CM Process -Section 6
			• If it is not coordinated for two or more Reciprocal Entities and "owned" by one of the entities, determine if it is a mutually agreed	
9	Set FG = RCF	Set the Flowgate equal to a Reciprocal Coordinated Flowgate.	 • Set the Flowgate equal to a Reciprocal Coordinated Flowgate. • Proceed to Step 10. 	
10	Are there more FGs on the list?	Determine if there are any more FGs on the list that need to go through the CMP determination process.	 If there are no more FGs that need to go through the determination process, the process ends. If there are more FGs that need to go through the determination process, retrieve the next one. 	
			Proceed to Step 1 if another FG requires evaluation.Otherwise, the process ends.	
11	Is There a Unilateral Decision This Should Be A Coordinated FG	This decision determines if an entity wants to make this a Coordinated FG for a reason other than the five tests.	 If an entity decides to make this a coordinated FG, proceed to Step 4. Otherwise, proceed to Step 10. 	
12	Is This a Mutually Agreed Upon RCF	Determine if there is a mutually agreed reason this should be considered a Reciprocal Coordinated Flowgate.	 If there is no mutually agreed reason this should be considered an RCF, leave it as coordinated and check for more FGs. If there is a mutually agreed reason this should be considered an RCF, mark it as such. 	

• If Reciprocal Entities decide to make the

Flowgate Reciprocal proceed to Step 9.

• Otherwise, proceed to Step 10.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 7 – Appendices --> MISO-JOA Att 2 Appendix C - Flowgate Determination Process



			TABLE C-2	
Steps	Activity	Requirements	Detailed Description	Additional Documentation
1	Annual Review of the BOFs and AFC FGs	A review will be performed annually or more often as requested by Reciprocal Entities (CMPWG). Retrieve the FG from the list of FGs for the entity running the	• Except for Study 1 in section 3.2.1 of the CMP,the FGs will be run through the process summarized in figure C-1.	
		process. Study 1 in section 3.2.1 of the CMP is not required for this annual review.		
2	Customer FG Requests	Any customer FG requests will also be subject to the tests and process above.	 Any customer FG requests will be run through the process summarized in figure C-1. 	
3	Temporary	Any temporary Flowgate	Any temporary Flowgates added by a	
	Flowgate added by Reciprocal Entity	added by a Reciprocal Entity will also be subject to the tests and processes	Reciprocal Entity will be run through the process summarized in figure C-1	
4	Run Through FG Process and Tests	Run through FG Determination Process, figure C-1	• Any FGs being reviewed or added will be run through the process summarized in figure C-1.	
5	AFC/CF/RCF List	Any FG additions or	• Any FG additions or modifications would	
		modifications would need to be committed to the repository of FGs and their qualifications.	need to be committed to the repository of FGs, along with their qualifications.	

Appendix D – Training

The concepts in these proposals should not have a significant impact upon system operators beyond the operators of the Operating Entity. The reason that this impact rests upon the Operating Entities is that the Operating Entities Operators will need to be trained to monitor and respond to the external Flowgates.

Reliability Coordinator (RC) Operator Training Impacts include:

- 1. The ability to recognize and respond to Coordinated Flowgates.
 - a. IDC outputs will show schedule curtailments and possible redispatch requirements.
 - b. Must be able to enter constraint in systems to provide the redispatch relief within 15 minutes.
 - c. Must be able to confirm that the required redispatch relief has been provided and data provided to the IDC.
- 2. Capability to enter Flowgates on the fly.

Other RC System Operators Training Impacts include:

- 1. The ability to take projected net system flows between an Operating Entity's Control Zones versus only tag data to run day-ahead analysis (data to be provided by the IDC).
- 2. Need to develop a working knowledge of how relief on a TLR Flowgate can come from both schedule changes and redispatch on a select set of Coordinated Flowgates.
- 3. Can coordinate with another RC Operator when the RC System Operator has a temporary Flowgate that they believe requires the implementation of the "Flowgate on the Fly" process.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 2 --> MISO-JOA Att 2 Section 7 – Appendices --> MISO-JOA Att 2 Appendix E –Reserved

Appendix E –Reserved

Appendix F – FERC Dispute Resolution

RCF Dispute Resolution

If a Party has followed all processes in the disputed Flowgate process outlined in section 3.2 and is dissatisfied with the ORS resolution of the Flowgate dispute, the Party may refer the dispute to FERC's Dispute Resolution Service for mediation, and upon a Party's determination at any point in the mediation that mediation has failed to resolve the dispute, either Party may seek formal resolution by initiating a proceeding before FERC.

Allocation Adjustment for New Transmission Dispute Resolution

If a Party has followed all processes in the Allocation Adjustment Peer Review process outlined in Appendix G and is dissatisfied with the resolution of the CMPC, the Party may refer the dispute to FERC's Dispute Resolution Service for mediation, and upon a Party's determination at any point in the mediation that mediation has failed to resolve the dispute, either Party may seek formal resolution by initiating a proceeding before FERC.

Appendix G – Allocation Adjustment for New Transmission Facilities and/or Designated Network Resources

MISO and PJM utilize the same Guiding Principles as other Reciprocal Entities for Allocation Adjustment for New Transmission Facilities and/or Designated Network Resources. In addition MISO and PJM have established procedures for allocation adjustments based on cross-border cost sharing and for determining the builder for the new transmission service or upgrades. These procedures also apply to facility upgrades that have been funded in whole or in part for the purpose of obtaining Incremental ARRs under one Party's tariff by a market participant in one or both markets.

1. Guiding Principles

The following guiding principles will be used in determining the allocation adjustments for New Transmission Facilities and/or Designated Network Resources.

- Principle 1 (Non-builder held harmless) To the extent possible, the non-building entity will receive the same overall impacts in its allocations.
- Principle 2 (Builder receives benefits) To the extent possible, the building entity will receive any benefit to the transmission system that result from the system upgrade.

To the extent these two principles conflict, the Non-Builder Held Harmless Principle will have priority over the Builder Receives Benefit Principle.

2. New Transmission Facilities That Do Not Involve New DNR or New Firm Transmission Service

To the extent a new transmission facility causes a significant decrease in flow on a Reciprocal Coordinated Flowgate, the change in the allocation will be assigned to the Reciprocal Entity with functional control of the new transmission facility. Otherwise, the normal allocation procedures will be followed and no allocation adjustments for new transmission facilities will be made.

Significant impact is defined as a 3% change in flow that occurs to an OTDF Flowgate and a 5% change in flow that occurs to a PTDF Flowgate with the addition of the new facility. The 3% and 5% are measured as a percentage of the Flowgate TTC (sometimes called Total Flowgate Capability (TFC)).

The allocation adjustment will be assigned to the Reciprocal Entity with functional control of the new transmission facility. Both the original allocation and the allocation adjustment are assigned to the Reciprocal Entities. To the extent a group of transmission owners installs a new facility that includes multiple Reciprocal Entities and the new transmission facility results in a change in transfer capability on one or more RCFs, these Reciprocal Entities will work in collaboration to determine appropriate adjustments to each Reciprocal Entity's allocation on all significantly impacted RCFs.

An analysis will be performed both with and without the new facility to determine whether there is a significant impact on one or more RCFs. The analysis and any subsequent allocation adjustments will coincide with the expected in-service date of the new facility. The inclusion of the new transmission facility in such an analysis is dependent on having a commitment that the

new facility has or is expected to receive all of the appropriate approvals and will be installed on the date indicated.

In order to qualify for an allocation adjustment, the new transmission facility must not only create a significant change in flows, it must also be a significant change to the transmission system (i.e. a new line or transformer that creates a significant change to flows on one or more RCFs). The addition of a new generator without transmission additions (other than the generation interconnection) is not covered by this process for new transmission facility additions. A change in the rating of an RCF may qualify as a significant change to the transmission system and be eligible to receive an allocation adjustment even though it does not result in a change in flows.

For stability limited Flowgates, a new generator, reactive device or change to a remedial action scheme may contribute to a change in the transfer limitation of stability limited Flowgates. Where this occurs and the addition is being made for the specific purpose of changing the transfer limitation of stability limited Flowgates, an allocation adjustment will be provided to the Reciprocal Entity responsible for the new generator, reactive device or change to a remedial action scheme. By receiving an allocation adjustment, this new generator, reactive device or change to a remedial action scheme will not also be included in the historical usage calculation to avoid double-counting of the impacts.

Not all new transmission facilities that significantly impact RCFs involve a change in flows. A new facility may be added that changes the rating of an RCF but has minimal impact on the flow (i.e. reconductoring, replacing a wave trap (WT) or current transformer (CT), replacing a transformer). In this case, each Reciprocal Entity's historical usage flow will remain constant but the rating of the Flowgate will either increase or decrease. The Reciprocal Entity responsible for the new facility will receive an allocation adjustment for rating increases. There will be no allocation adjustments for rating decreases.

There is an equity issue involving new transmission facilities that result in an increased rating. Where a new facility involves minimal cost change (such as replacing either a WT or CT, replacing a jumper, replacing a switch, changing a CT setting, etc.), there have already been significant costs incurred on a larger conductor that allows the increased rating to occur. As long as the Reciprocal Entity making the minimal cost change is also responsible for the conductor, it is the appropriate Reciprocal Entity to receive the allocation adjustment. However, if different Reciprocal Entities own the conductor versus are responsible for making the minimal cost change, there is an equity issue if the entire allocation adjustment is given to the Reciprocal Entity responsible for making the minimal cost change. The Reciprocal Entities shall negotiate a mechanism to share in the allocation adjustment.

3. New Transmission Facilities that Involve New DNR or New Firm Transmission Service

Where a new transmission facility is added as part of an approved new usage of the transmission system (either a new DNR or a new Firm Transmission Service), the Reciprocal Entity responsible for the new facility has two choices on the treatment of this combination. <u>First</u>, in recognition that they have addressed transmission concerns associated with the new DNR or new Firm Transmission Service, the combination of the new transmission facility and new DNR/Firm Transmission Service will be added to the base model used in the historic usage impact

calculation. The new DNR or new Firm Transmission Service will be treated as if it met the Freeze Date. To the extent the new transmission facility and its associated new DNR or new Firm Transmission Service will not occur until a future time period, they will not appear in the historic usage impact calculation until after the in-service/start date. The inclusion of the new transmission facility and associated DNR/Firm Transmission Service is dependent on having a commitment that both have been approved and will occur on the date indicated. If no such commitment exists, these additions will not be included in the historic usage impact calculation. By making this choice to include the new transmission facility and DNR/Firm Transmission Service in the historic usage impact calculation, the NNL allocation will consider the impact of both. This may result in increased NNL allocation to all Reciprocal Entities after considering historic usage impacts (down to 0%). However, the Reciprocal Entity that builds the new transmission facility will not receive any special treatment (NNL allocation adjustment) because of the new transmission facility. This inclusion of a new DNR or new Firm Transmission Service only applies where associated new transmission facilities have been added to accommodate the new transmission usage.

Second, the Reciprocal Entity that builds the new transmission facility associated with a new DNR or new Firm Transmission Service can receive an NNL allocation adjustment and must honor that allocation when they apply the new DNR or new Firm Transmission Service in their use of NNL allocations. The Reciprocal Entity determines the impact of the new transmission facility without the new DNR or new Firm Transmission Service to calculate any adjustments to the NNL allocations (the same process documented in the previous section "New Transmission Facilities that Do Not Involve New DNRs or New Firm Transmission Service). The Reciprocal Entity will use the remaining NNL allocation that has not been committed to other uses for the new DNRs or new Firm Transmission Service.

The Reciprocal Entity responsible for the combination of new transmission facility and new DNR/Firm Transmission Service will make a single choice (either one or two) that applies to all RCFs that are significantly impacted by the combination. There is no opportunity to have a different selection on different RCFs that are all impacted by the same combination.

4. Allocation Adjustment Peer Review

When reviewing the allocation adjustments, if an impacted Reciprocal Entity finds a situation where the rule set does not produce a satisfactory outcome, the impacted Reciprocal Entity may request a review by the CMPWG. The impacted Reciprocal Entity will present the unsatisfactory results and a proposed alternative. If the CMPWG agrees to the proposed alternative it will be implemented as an exception, and the CMPC will be notified of the exception prior to implementation. If the CMPWG does not agree, the impacted Reciprocal Entity will present its proposed alternative and the CMPWG member(s) will present their concerns to the CMPC for the CMPC to take action. All exceptions approved by the CMPWG or CMPC will be documented for future reference.

Depending on the nature of the upgrade, the impact of the new facility will be held in abeyance pending completion of the review. This means for a rating change, the prior rating will continue to be used in the model update process pending completion of the review. This means for a flow change, the new facility will be recognized in the model update process. The impacts will be calculated using the normal (socialized) allocation process and no allocation adjustments will be made pending completion of the review. These reviews should be completed in a timely manner.

5. Allocation Adjustments Based on Cross-Border Cost Sharing

The physical rights to any significantly impacted incremental capacity on existing RCFs, that is a result of the cross-border allocation process ("allocation adjustment"), will be assigned to a Party, for congestion management purposes, in proportion to the share of the costs that such Party must pay under the cost allocation process in Section 9.4.4.2 of the JOA.

An allocation adjustment based on the share of costs that such Party must pay under the cost allocation process in Section 9.4.4.2 of the JOA will apply only where there has been a significant decrease in flows on an existing RCF.

An analysis will be performed both with and without the new facility to determine whether there is a significant impact on one or more RCFs. The analysis and any subsequent allocation adjustments will coincide with the expected in-service date of the new facility. The inclusion of the new transmission facility in such an analysis will be dependent upon having a commitment that the new facility has or is expected to receive all of the appropriate approvals and will be installed on the date indicated.

6. Determination of Builder in the Flowgate Allocation Process

For MISO and PJM, flowgate allocations are used to sell firm transmission service and to prioritize market flows reported to the IDC that are then subject to curtailment during TLR. At the same time, flowgate allocations are also used in the market-to-market settlement process and in the ARR, FTR, and day-ahead market loop flow modeling between MISO and PJM. The firm flow entitlement used in market-to-market settlement and in the ARR, FTR, and day-ahead market loop flow modeling is derived from a combination of flowgate allocations in the forward direction and market flow impacts in the reverse direction. This allocation agreement between MISO and PJM is limited to how to assign allocations and does not extend into ARRs, FTRs, and day-ahead market loop flow assumptions.

In order to implement the allocation process, MISO and PJM have defined the terms builder and non-builder as follows when applying the allocation adjustment rules:

- The term builder refers to a Party that has responsibility (either total or partial) for construction of the transmission facility upgrade and is entitled to receive the increase in capacity of existing flowgates while holding the non-builders harmless. Where a market participant in one or both markets has funded some or all of a transmission facility upgrade for the purpose of obtaining Incremental ARRs under one Party's tariff, the term builder refers to the Party providing Incremental ARRs.
- In determining which Party has total or partial responsibility for construction of the transmission facility upgrade, responsibility is defined as the Party that has cost responsibility for the upgrades. The cost responsibility could be to a single Transmission Owner pricing zone within a market footprint, to multiple Transmission Owner pricing zones within the same market footprint, to multiple Transmission Owner pricing zones

within both market footprints as in the case of a cross-border project funded by the two markets, or to a single market participant as in the case of a transmission upgrade funded by a market participant.

- Where the responsibility for cost is to either a single Transmission Owner pricing zone or to multiple Transmission Owner pricing zones within the same market footprint in which the upgrade is built, the total allocation goes to the builder after holding the non-builder harmless.
- Where the responsibility for cost is shared by multiple Transmission Owner pricing zones within both market footprints, the allocation will be split between the Parties in proportion to the cost responsibility between the Parties.
- Where the responsibility for cost is to a single market participant funder (rather than to an entire pricing zone) that has resources/participates in one market only, the allocation goes to that market, irrespective of the Party that owns the flowgate and in which the upgrade resides.
- Where the responsibility for cost is to a market participant funder that has resources/participates in both markets, the allocation will be split between the two markets subject to the Parties' OATT and business practices.

Appendix H – Application of Market Flow Threshold Field Test Conditions

MISO, PJM and SPP participated in a NERC approved Market Flow threshold field test from June 1, 2007 to October 31, 2009. The purpose of the field test was to determine a Market Flow threshold percentage that allows the three Regional Transmission Organizations (RTOs) to consistently meet their relief obligation during TLR without jeopardizing reliability. Although the field test was able to achieve a success rate close to 100% based on MISO data using a 5% threshold, the following conditions were applied to the field test results:

- Market Flows were evaluated 30 minutes after implementation of the TLR curtailment.
- A 5 MW dead-band (or 10% of the relief obligation for relief obligations greater than 50 MW) was applied to the Target Market Flow such that once actual Market Flows were within the dead-band, it was considered a success meeting the relief obligation.
- There were no instances where MISO was able to meet its relief obligation if more than 30 MW must be removed within 30 minutes. The field test found the amount of Market Flow that must be removed in 30 minutes and not the size of the relief obligation is an indicator whether the market will be successful.

Since the NERC ORS applied the three conditions above to the field test results in order to demonstrate a high success rate, these same conditions will be applied when the Market-Based Operating Entities have relief obligations on external Flowgates during TLR.

The field test results are only applicable to Flowgates that are external to each of the RTOs and does not include internal Flowgates (internal to that specific RTO) or market-to-market Flowgates (internal to one of the three RTOs but subject to market-to-market provisions with another RTO). The reason for excluding internal Flowgates and market-to-market Flowgates is because the three RTOs use market redispatch to control total flow and to maintain reliability. As the Reliability Coordinator for the Flowgate, the three RTOs are responsible for the reliability of their own Flowgate and must manage total flow in order to meet their reliability responsibility. As described in the field test final report, by controlling total flow, the three markets effectively meet their relief obligation.

MISO Second Revised Rate Schedule FERC No. 5 PJM Interconnection, L.L.C. Second Revised Rate Schedule FERC No. 38

ATTACHMENT 3

Interregional Coordination Process

Version 3.0

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Appendix A: Definitions

Preface

The purpose of this Interregional Coordination Process ("ICP") is to provide a description of the proposed market-to-market coordination process, including the appropriate use of the market-to-market process, that will be implemented concurrently with the implementation of side-by-side LMP-based energy markets in the PJM and MISO regions. Specifically, this ICP presents an overview of the market-to-market coordination process, an explanation of the coordination for market pricing at the regional boundaries, a description of the Real-Time and Day-Ahead coordination methodologies, an example to illustrate the Real-Time coordination, and the associated settlements processes.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 1 Overview of the Market-to-Market

1 Overview of the Market-to-Market Coordination Process

The fundamental philosophy of the PJM/MISO interregional transmission congestion coordination process is to set up procedures to allow any transmission constraints that are significantly impacted by generation dispatch changes in both markets to be jointly managed in the security-constrained economic dispatch models of both RTOs. This joint management of transmission constraints near the market borders will provide the more efficient and lower cost transmission congestion management solution, while providing coordinated pricing at the market boundaries.

The market-to-market coordination process builds upon the PJM/MISO market-to-nonmarket coordination process, as described in the "Congestion Management Process" document ("CMP") filed as part of the MISO – PJM Joint Operating Agreement. That CMP describes the interregional coordination process between a market region that uses an LMP-based congestion management regime and a non-market region that uses a TLR-based congestion management regime (i.e., a market to non-market interface). As described in the CMP, the set of transmission flowgates in each market that can be significantly impacted by the economic dispatch of generation serving load in the adjacent market is identified as the set of Reciprocal Coordinated Flowgates (RCFs). These RCFs are then monitored to measure the impact of Market Flows and loop flows from adjacent regions. The CMP describes how the Market Flow impacts will be managed on an interregional basis within the existing NERC IDC to enhance the effectiveness of the NERC interregional congestion management process. The CMP also describes a process for calculating flow entitlement for network and firm transmission utilization in one region on the RCFs in an adjacent region.

The market-to-market coordination process builds on the work already completed, as described above, by adapting the coordination, as appropriate, to the conditions that will prevail after both the PJM and MISO markets are implemented in the Midwest. In addition, there is a continuing need to define the flow entitlement for network and firm transmission utilization in one region on the subset of RCFs called M2M Flowgates in an adjacent region.

- <u>**Real-Time Energy Market Coordination**</u> -- The market-to-market coordination focuses primarily on Real-Time market coordination to manage transmission limitations that occur on the M2M Flowgates in a more cost effective manner. This Real-Time coordination will result in a more efficient economic dispatch solution across both markets to manage the Real-Time transmission constraints that impact both markets, focusing on the actual flows in Real-Time to manage constraints. Under this approach, the flow entitlements on the M2M Flowgates do not impact the physical dispatch; the flow entitlements are used in market settlements to ensure appropriate compensation based on comparison of the actual Market Flows to the flow entitlements.
- <u>Day-Ahead Energy Market Coordination</u> -- The Day-Ahead market coordination focuses primarily on ensuring that the Day-Ahead scheduled flows on all M2M Flowgates are limited to no more than the Firm Flow entitlements for each RTO. Under certain conditions set forth in this Agreement, an RTO may request that the Day-Ahead flow limit be raised above its Firm Flow entitlement.

• <u>ARR Allocation & FTR Auction Coordination</u> -- The Auction Revenue Rights Allocation and Financial Transmission Rights (FTR) auction processes in both RTOs will model the Firm Flow entitlements on all M2M Flowgates.

1.1 Only a subset of all transmission constraints that exist in either market will require coordinated congestion management. This subset of transmission constraints will be identified as M2M Flowgates in a manner similar to the method used in the CMP described above. The list of M2M Flowgates will be limited to only those for which at least one generator in the adjacent market has a significant Generation-to-Load Distribution Factor (GLDF), sometimes called "shift factor," with respect to serving load in that adjacent market. NERC rules currently establish that a significant shift factor is five percent or greater. If NERC adopts a lower shift factor threshold than 5%, the new threshold will be used to determine whether the generator has a significant GLDF for the purpose of this market-to-market ICP. Flowgates eligible for market-to-market coordination are called M2M Flowgates. For the purposes of market-to-market coordination (in addition to the five studies for RCFs described in section 3.2.1 of the CMP) the following will be used in determining M2M Flowgates.

- 1.1.1 M2M Flowgates include Reciprocal Coordinated Flowgates and any additional Flowgates that meet the criteria in this section (1.1) of the Interregional Coordination Process.
- 1.1.2 MISO and PJM will only be performing market-to-market coordination on RCFs that are under the operational control of MISO or PJM. MISO and PJM will not be performing market-to-market coordination on Flowgates that are owned and controlled by third party entities or on Flowgates that are only considered to be coordinated Flowgates.
- 1.1.3 Where the adjacent market does not have a generator with significant impact (either positive impact or negative impact) on a single-monitored element Flowgate at voltages higher than 138 kV (i.e., shift factor is less than 5%) but its Market Flows are a significant portion of the total flow (greater than 25% of the Flowgate rating), these transmission constraints will be included in the list of M2M Flowgates subject to market-to-market coordination. If the Market Flow impacts of the Non-Monitoring RTO exceed 25% of the Flowgate rating during real-time operations, the Flowgate will be added as a M2M Flowgate at the request of the Monitoring RTO.

Where the adjacent market does not have a generator with significant impact (either positive impact or negative impact) on a single-monitored element Flowgate at voltages of 138 kV or lower (i.e., shift factor is less than 5%) but its Market Flows are a significant portion of the total flow (i.e., greater than 35% of the Flowgate rating), these transmission constraints will be included in the list of M2M Flowgates subject to market-to-market coordination. If the Market Flow impacts of the Non-Monitoring RTO exceed 35% of the Flowgate rating during real-time operations, the Flowgate will be added as a M2M Flowgate at the request of the Monitoring RTO.
- 1.1.4 The Parties will lower their generator binding threshold to match the lower generator binding threshold utilized by the other Party. The generator binding threshold will not be set below 1.5% except by mutual consent.(This requirement applies to M2M Flowgates. It is not an additional criteria for determination of M2M Flowgates.)
- 1.1.5 For the purpose of determining whether a multi-monitored element Flowgate is eligible for market-to-market, a progressive threshold based on the number of monitored elements will be used: a single monitored element Flowgate will use a 5% shift factor threshold; double monitored element Flowgate will use a 7.5% shift factor threshold; and a Flowgate with three monitored elements will use a 10% shift factor threshold. Flowgates with more than three monitored elements will be used only by mutual agreement.
- 1.1.6 The five studies for RCFs described in Section 3.2.1 of the CMP will also be performed using a -5% shift factor threshold to identify Flowgates with a significant negative impact due to market operations. Flowgates where a significant negative impact exists as measured by a -5% shift factor or more negative shift factor will be added as M2M Flowgates.

1.2 <u>M2M Flowgate Studies</u>

During the M2M Flowgate Studies, a M2M Flowgate may be added to the systems for operations control using the actual monitored /contingent element pair. Settlements will be implemented using a hold harmless approach as described in the After the Fact Review process set forth in Section 8.4 below.

- 1.2.1 MISO and PJM will implement a process whereby either RTO may request the other to enter an anticipated M2M Flowgate into the dispatch tools before the completion of the Flowgate studies when a system event requires prompt attention. Binding on the Flowgate may commence as soon as each entity's operators can make the monitored/contingent element pair available in its system. Firm Flow Entitlements shall be applied and settlements calculated after the M2M Flowgate is approved by both entities.
- 1.2.2 Use of a M2M Flowgate Before Completion of the Studies:
 - The use of an anticipated Flowgate while the Flowgate is undergoing the M2M Flowgate Studies is described in CMP Section 3.2.5 Dynamic Creation of Coordinated Flowgates. These will typically be limited to forced outages since there should be time to evaluate the potential new M2M Flowgate before the planned outage is taken. However, the need for a new Flowgate is not always identified in advance. The Parties will ensure the time period to run the coordinated Flowgate test and have these Flowgates ready for the market-to-market process is as short as possible.

1.3 <u>Removal of M2M Flowgates</u>

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Removal of M2M Flowgates from the systems may be necessary under certain conditions including the following:

- 1.3.1 Where Information Technology systems cannot support the operation of a defined M2M Flowgate effectively, the first attempt will be to find a mutually acceptable temporary work-around that will allow the continued use of the market-to-market process. Where a temporary work-around is not available, the market-to-market process will be suspended on that M2M Flowgate until Information Technology system enhancements allow re-establishing the M2M Flowgate. The Party responsible for IT system enhancements will take all practicable steps to minimize the period of the suspension.
- 1.3.2 A M2M Flowgate is no longer valid when either a temporary M2M Flowgate or a transmission system change is implemented that eliminates significant impacts from either entity's generation such that the Flowgate no longer passes the M2M Flowgate Studies.
 - a. Once a M2M Flowgate becomes a completely invalid constraint, it will no longer be bound in the monitoring RTO's UDS.
 - b. A Flowgate that is removed from the M2M Flowgate list but remains a valid constraint may continue to be bound in the Monitoring RTO's UDS, but the market-to-market process will no longer be initiated on it.
- 1.3.3 The RTOs will collaborate to address specific scenarios where generation is not responding to dispatch signals (e.g., self scheduled) and the generation does, or could, significantly impact an M2M Flowgate and/or resulting market-to-market settlement.
- 1.3.4 The Parties can mutually agree to add or remove a Flowgate from the market-tomarket process whether or not it passes the coordination tests, or whether or not it is a Reciprocal Coordinated Flowgate. A M2M Flowgate may be removed when the Parties agree that the market-to-market process would not be an effective mechanism to manage congestion on that Flowgate.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 2 Interface Bus Price Coordination

2 Interface Bus Price Coordination

Proxy bus prices are calculated by each RTO to reflect the economic value of imports or exports from the neighboring RTO. For example, the proxy bus price for RTO A as calculated by RTO B is driven by the economic dispatch of RTO B, therefore this proxy price will reflect the system marginal price in RTO B, plus any congestion cost adjustment and marginal loss cost adjustment based on the proxy bus location. The coordinated operation of M2M Flowgates will tend to force the pricing at the RTO borders to be consistent with the energy prices at generators and load busses near the RTO border points.

In order to be good functional indicators for the market-to-market coordination, the proxy bus models for PJM and MISO must be coordinated to the same level of granularity. Therefore, the proxy bus modeling approaches must be similar such that the prices are consistent. This does not necessarily mean the proxy bus prices will be the same, particularly in the initial implementation of Market-to-Market coordination. What is important at the outset is that the proxy buses reflect consistent pricing between the RTOs given the constraints for which each RTO is operating. Consistency means that the proxy bus price one RTO calculates for the other RTO reflects the nature of the congestion on both RTOs' systems, such that imports and exports to and from one RTO to the other are provided the correct incentives given their effect on the current binding constraints. A description of the current proxy bus modeling process used by PJM and MISO is posted on each RTO's OASIS.

As the Market-to-Market coordination process continues to evolve, it may be possible to get to the point that each RTO's proxy bus prices for the other is consistently close. This will require coordination beyond merely operating for constraints on each other's systems, to include tightly coordinating the economic dispatches themselves, in an iterative process as described in Section 7.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 3 Real-Time Energy Market Coordinatio

3 Real-Time Energy Market Coordination

When an M2M Flowgate that is under the operational control of either MISO or PJM become binding in the Monitoring RTOs Real-Time security constrained economic dispatch, the Monitoring RTO will notify the Non-Monitoring RTO of the transmission constraint violation and will identify the appropriate M2M Flowgate that requires mitigation. The Monitoring and Non-Monitoring RTOs will provide the economic value of the constraint (i.e., the shadow price) as calculated by their respective dispatch models. Using this information, the security-constrained economic dispatch of the Non-Monitoring RTO will include the transmission constraint; the Monitoring RTO will evaluate the shadow prices within each RTO and request that the Non-Monitoring RTO reduce its Market Flow if it can do so more efficiently than the Monitoring RTO.

An iterative coordination process will be supported by automated data exchanges in order to ensure the process is manageable in a Real-Time environment. The process of evaluating the shadow prices between the RTOs will continue until the shadow prices are sufficiently close that an efficient redispatch solution is achieved. The continual interactive process over the next several dispatch cycles will allow the transmission congestion to be managed in a coordinated, cost-effective manner by the RTOs. A more detailed description of this iterative procedure will be discussed in Section 3.1.

This coordinated dispatch protocol will be performed any time that an M2M Flowgate under the operational control of either MISO or PJM becomes binding. This approach will produce the level of coordination that will be required to ensure efficient congestion management across the market seams. This approach also will provide a much higher level of interregional congestion management coordination than that which currently exists between any existing adjacent markets.

3.1 Real-Time Energy Market Coordination Procedures

The following procedure will apply for managing M2M Flowgates in the realtime energy market:

- 1. The RTOs will exchange topology information to ensure that their respective market software is consistent.
- 2. When any of the M2M Flowgates under a Monitoring RTO's control is identified as a transmission constraint violation, the Monitoring RTO will enter the M2M Flowgate into its security-constrained dispatch software, setting the flow limit equal to the appropriate facility rating.
- 3. The Monitoring RTO will then notify the Non-Monitoring RTO of the transmission constraint violation and will identify the appropriate M2M Flowgate that requires mitigation.
- 4. When the M2M Flowgate first becomes a binding transmission constraint in the Monitoring RTOs Real-Time security-constrained economic dispatch, the Monitoring RTO will transmit the following information to the Non-Monitoring RTO:
 - Constraint Shadow Price (\$/MW) output of the RTOs Real-Time market software.
 - Current Market Flow contribution by the Monitoring RTO on M2M Flowgate (MW) output of the Real-Time market software.
 - Amount of MWs requested to be reduced from the current Market Flow of the Non-Monitoring RTO. This number will change throughout the iterative process to efficiently resolve constraints.
- 5. The Non-Monitoring RTO will enter the M2M Flowgate into its securityconstrained dispatch software, setting the flow limit on the M2M Flowgate equal to its current Market Flow minus the relief requested by the Monitoring RTO.
 - (a) This means the Non-Monitoring RTO will attempt to manage the flow on the M2M Flowgate at its current Market Flow amount or less, such that it will not contribute any additional flow on the limited M2M Flowgate during this time period.
- 6. If the Non-Monitoring RTO has sufficient generation to be redispatched, it will redispatch its generation to control the M2M Flowgate until one of the following conditions is reached:
 - (a) The Non-Monitoring RTO has provided the relief requested by the Monitoring RTO.
 - (b) The Non-Monitoring RTO has provided relief at a cost as high as the current shadow price from the Monitoring RTO.
- 7. The Non-Monitoring RTO will then transmit the following information to the Monitoring RTO:

- Constraint Shadow Price (\$/MW) Output of the RTOs Real-Time market software. (If the M2M Flowgate does not result in a binding constraint in the Non-Monitoring RTO's security-constrained economic dispatch, then the shadow price is zero and the Flow Relief is zero for the Non-Monitoring RTO.)
- Current Market Flow contribution by the Non-Monitoring RTO on M2M Flowgate (MW) Output of the RTO's Real-Time market software.
- 8. Over the next several dispatch cycles the Monitoring RTO may request the Non-Monitoring RTO to adjust its flow limit up or down. The Monitoring RTO will continue to control the M2M Flowgate respecting the appropriate rating of the facility.
- 9. As the relief provided by the Non-Monitoring RTO is realized in the M2M Flowgate, the Monitoring RTO can control the M2M Flowgate at a lower shadow price since less relief is needed from the Monitoring RTO. The updated shadow price will be sent to the Non-Monitoring RTO. The Non-Monitoring RTO will then control the M2M Flowgate using the latest shadow price from the Monitoring RTO as the shadow price limit.
- 10. Throughout the period that the transmission constraint violation exists, the RTOs will continue to share the flow and constraint shadow price information that is described above. The shadow prices of the two RTOs will eventually converge towards the most cost-effective redispatch solution, provided both RTOs have sufficient redispatch capability. The information transferred via these data exchanges will be retained to provide the pertinent data for Market Settlements.
- 11. Every 15 to 30 minutes as necessary, the Monitoring RTO will review the constraint shadow price comparison, make required adjustments, and communicate any such adjustments to the Non-Monitoring RTO. This process will continue until the Monitoring RTO determines that the cost of further adjustments to the dispatch of the Non-Monitoring RTO would exceed the cost of relieving the transmission constraint by adjusting the Monitoring RTO's own dispatch.
- 12. The start and stop times for such Constrained Operation events involving M2M Flowgates will be logged for Market Settlements purposes.

3.2 Real-Time Energy Market Settlements

The Market Settlements under the coordinated congestion management will be performed based on the Real-Time Market Flow contribution on the transmission flowgate from the Non-Monitoring RTO as compared to its flow entitlement.

If the Real-Time Market Flow less the Generator Pseudo-Tie Market Flow Adjustment is greater than the flow entitlement plus the Approved MW adjustment from Day Ahead Coordination, then the Non-Monitoring RTO will pay the Monitoring RTO for congestion relief provided to sustain the higher level of Real-Time Market Flow. This payment will be calculated based on the following equation:

Payment = ((Real-Time Market Flow MW¹ – Generator Pseudo-Tie Market Flow Adjustment²) - (Firm Flow Entitlement MW³ + Approved MW⁴)) * Transmission Constraint Shadow Price in Monitoring RTOs Dispatch Solution

If the Real-Time Market Flow less the Generator Pseudo-Tie Market Flow Adjustment is less than the flow entitlement plus the Approved MW adjustment from Day Ahead Coordination, then the Monitoring RTO will pay the Non-Monitoring RTO for congestion relief provided at a level below the flow entitlement. This payment will be calculated based on the following equation:

Payment = ((Firm Flow Entitlement MW³ + Approved MW⁴) – (Real-Time Market FlowMW¹ - Generator Pseudo-Tie Market Flow Adjustment²)) * Transmission Constraint Shadow Price in Non-Monitoring RTOs Dispatch Solution

For the purpose of settlements calculations, shadow prices will be calculated by the pricing software in the same manner as the LMP, and will be integrated over each hour during which a transmission constraint is being actively coordinated under the ICP by summing the five-minute shadow prices during the active periods within the hour and dividing by 12 (the number of five minute intervals in the hour).

¹ This value represents the Non-Monitoring RTO's Real Time Market Flow.

² This value represents the Generator Pseudo-Tie Market Flow Adjustment as described in Section 11 of this Attachment 3.

³ This value represents the Non-Monitoring RTO's Firm Flow Entitlement.

⁴ This value represents the Approved MW that resulted from the Day Ahead Coordination.

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4 Day-Ahead Energy Market Coordination

The Day-Ahead energy market coordination focuses primarily on ensuring that the Day-Ahead scheduled flows on all M2M Flowgates are limited to no more than the Firm Flow Entitlements for each RTO. For the purpose of determining the Firm Flow Entitlement to model in a RTO's Day-Ahead market, either RTO may adjust the Firm Flow Entitlement to align with M2M settlement practices. When system conditions can accommodate the change, either RTO may request that the Day-Ahead flow limit be raised above its Firm Flow Entitlement.

The Day-Ahead energy market redispatch protocol may be implemented in the Day-Ahead energy market upon the request of either RTO if the adjacent RTO verifies that such Day-Ahead redispatch is feasible.

An example of the Day-Ahead energy market protocol is as follows:

- 1. The Requesting RTO specifies the amount of scheduled flow reduction that it is requesting on a specific M2M Flowgate and communicates the request to the Responding RTO
- 2. The Responding RTO will then lower the MW limit that it utilizes in its Day-Ahead market on the specified M2M Flowgate by the specified amount. This means that instead of modeling the M2M Flowgate constraint at flow entitlement amount, the Responding RTO will model the constraint as the flow entitlement less the requested MW reduction. Therefore, the Responding RTO will schedule less flow on the specified M2M Flowgate in order to provide Day-Ahead congestion relief for the Requesting RTO. The Requesting RTO may then use the additional MW capability in its own Day-Ahead market.

4.1 Day-Ahead Energy Market Coordination Procedures

The following procedure will apply to the modeling of M2M Flowgates in the Day-Ahead energy markets, unless either the Monitoring RTO or the Non-Monitoring RTO requests specific exceptions.

- Each RTO will model all M2M Flowgates, for which it is the Reliability Coordinator, in its Day-Ahead market and Day-Ahead reliability analyses, with the limit set equal to the applicable facility limit less the Firm Flow Entitlement of the Non-Monitoring RTO.
- Each RTO will model all M2M Flowgates, for which it is NOT the Reliability Coordinator, in its Day-Ahead Market and Day-Ahead reliability analysis with the limit set equal to its Firm Flow Entitlement for that M2M Flowgate.
- The Monitoring RTO will include an appropriate loop flow model in its Day-Ahead process. However, this loop flow model will not account for loop flows contributed by deliveries associated with the Non-Monitoring RTO market since these flows are accounted for by the Firm Flow Entitlement.

An M2M Flowgate limit exception is a request to alter the M2M Flowgate limits, as described above, that will be modeled in the Day-Ahead markets and/or the Day-Ahead reliability analysis. The following procedure will apply for designating M2M Flowgate limit exceptions:

- 1. If the Requesting RTO identifies a need to utilize more of an M2M Flowgate than it is entitled, it may request the Responding RTO to lower its Day-Ahead Market limit below its Firm Flow Entitlement by a specified amount and range of hours. The Requesting RTO must request the adjustment from the Responding RTO as soon as possible but not later than one hour prior to the Responding RTO's deadline for submitting bids and offers in the day-ahead market.
- 2. If the Responding RTO agrees to provide the limit reduction, it will communicate the approved amount to the Requesting RTO as soon as possible but not later than the Requesting RTO's deadline for submitting bids and offers in the Day-Ahead Market.
- 3. The Requesting RTO may increase its limit on the M2M Flowgate by the agreed upon and specified amount and range of hours.
- 4. Either Party may rescind the agreement up to one hour after the Responding RTO's deadline for submitting bids and offers in the day-ahead market.

For the purpose of modeling generator pseudo-tie impacts in the Day-Ahead market, the RTOs will determine the amount of impact on M2M Flowgates based on Market Participant quantities offered in the Day-Ahead market. The impact for a pseudo-tied generator will be determined appropriately by the RTOs, e.g. from the generator

specific location to the MISO-PJM border. Either RTO may adjust and coordinate the M2M Flowgate limit to align with M2M settlement formulas and practices.

4.2 Day-Ahead Energy Market Settlements

The market settlements for Day-Ahead congestion relief will be performed in a similar manner to the Real-Time energy market settlements of the coordinated congestion management protocol. The Day-Ahead payment for the RTO that is requesting congestion relief will be calculated as follows:

Payment = Approved MW * Transmission Constraint Shadow Price in Responding RTOs Dispatch Solution

This payment will be calculated based on the hourly Day-Ahead Market results. If such congestion relief is requested and performed on a Day-Ahead basis, then the Real-Time flow entitlement for the affected hours in the corresponding Real-Time market will be adjusted accordingly. Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 5 Auction Revenue Rights (ARR) Alloc

5 Auction Revenue Rights (ARR) Allocation/Financial Transmission Rights (FTR) Auction Coordination

The allocation of ARR and FTR products in each marketplace must recognize the Firm Flow Entitlement that exists in adjacent markets. The ARR allocation and FTR Auction model will contain the same level of detail for adjacent regions as the Day-Ahead market model and the Real-Time market model. Each RTO will allocate ARRs via Annual ARR Allocation award, and award FTRs via Annual and Monthly FTR Auction to Network and Firm Transmission customers subject to their participation and simultaneous feasibility test that determines the amount of transmission capability that exists to support the ARRs and FTRs.

The simultaneous feasibility analysis for each RTO will model that RTO's Firm Flow Entitlement on the transmission flowgates in the adjacent region as the Market Flow limit that must be respected in the ARR Allocation and FTR Auction processes. For the purposes of determining the Firm Flow Entitlement to model in a RTO's FTR market, either RTO may adjust the Firm Flow Entitlement to align with M2M settlement practices. The transmission flowgates in each RTO will be modeled in the simultaneous feasibility test at a capability value equal to the flowgate rating minus the Firm Flow Entitlement that exists for flows from the adjacent market. In this way, the ARR Allocation and the FTR Auction across both RTOs will recognize the reciprocal transmission utilization that exists for Network and Firm transmission customers in both markets.

6 Coordination Example

The following example illustrates the Real-Time coordination of an M2M Flowgate, specifically describing the following five stages:

- Stage 1: Initial Conditions & Energy Prices at Border
- Stage 2: Transmission Constraint Initialization & Energy Prices at Border
- Stage 3: First Coordinated Interregional RTO Dispatch Cycle (Constraint Binds in Monitoring RTO) & Energy Prices at Border
- Stage 4: First Coordinated Interregional RTO Dispatch Cycle (Constraint Binds in Non-Monitoring RTO) & Energy Prices at Border
- Stage 5: Ongoing Coordinated Dispatch Cycles

Stage 1 – Initial Conditions

- Marginal Losses are not utilized in this example for ease of understanding
- RTO A is the Non-Monitoring RTO, its system marginal price is \$35/MWh
- RTO B is the Monitoring RTO, its system marginal price is \$40/MWh
- Generator 1 is on-line and dispatched to full output, its dispatchable range is 100 MW
- Generators 2 and 3 are both off-line; they are both 20 MW quick start CTs
- M2M Flowgate A has a limit of 100 MW with the actual flow at 95 MW



Stage 1 - Energy Prices at the RTO Border (Proxy Bus Prices)

The proxy bus prices will be calculated for each stage of the congestion management example. These examples illustrate that the proxy bus prices will move in the same direction as the constrained bus prices when the M2M Flowgate is binding in both RTO security-constrained economic dispatches. The LMPs throughout both RTOs are equal to their System Marginal Price so long as the RTOs are unconstrained (no binding constraint resulting in redispatch of generation). This example also ignores marginal losses to simplify the illustration.



Stage 2 - Transmission Constraint Initialization

The RTO B (Monitoring RTO) dispatch software is projecting that the flow on Flowgate A is increasing and that *9 MW of flow relief* will be required. (Note: The 9 MW is derived from RTO B's look-ahead dispatch software along with a parallel path evaluation). The security-constrained dispatch solution for RTO B results in both Generator 2 and Generator 3 being dispatched; the system marginal price for RTO B remains at \$40/MWh. Generator 3 is the most cost effective unit to control the constraint.

The Flowgate A constraint shadow price for RTO B will be equal to:

(Gen 2 Offer Price – System Marginal Price for RTO B)/(Generator 2 GLDF on Constraint)

(\$60/MWh-\$40/MWh) /-0.20 = -\$100/MW of Flow Relief.⁴

⁴ The transmission constraint shadow price is calculated based on the difference between the constrained on generator offer price and the system marginal price. This difference is then divided by the GLDF of the generator on the binding constraint. In this case, Generator 2 drives the constraint shadow price because it has the highest offer and the lowest GLDF.

The LMP for Gen 2 will be:

System Marginal Price for RTO B + (Gen 2 GLDF)(RTO B Shadow Price)

\$40/MWh + (-.2)(-\$100/MWh flow relief) = \$60/MWh

The LMP for Gen 3 will be:

System Marginal Price for RTO B + (Gen 3 GLDF)(RTO B Shadow Price)

\$40/MWh + (-.3)(-\$100/MWh flow relief) = \$70/MWh

The conditions for Stage 2, the initial transmission constrained scenario, are as follows:



Stage 2 - Energy Prices at the RTO Border (Proxy Bus Prices)

The proxy bus price for RTO A as calculated by RTO B will include the impact of the constraint on Flowgate A.

- Since the constraint is not binding in RTO A in Stage 2, the proxy price for RTO B as calculated by RTO A will remain at the system marginal price of RTO A.
- Since the proxy bus prices for each RTO reflect the value of imports or exports from the neighboring RTO, these proxy prices will be set by the system marginal price in the RTO that is calculating the proxy price.

RTO B's Proxy price for RTO A is as follows:

System Marginal Price for RTO B + (Proxy bus GLDF)(RTO B Shadow Price)



\$40/MWh + (.3)(-\$100/MWh flow relief) = \$10/MWh

Stage 3 – First Coordinated Interregional RTO Dispatch Cycle (Constraint Binds in Monitoring RTO)

- RTO B notifies RTO A of the transmission constraint Condition on Flowgate A. Initially RTO B requests RTO A to maintain its current Market Flow on Flowgate A. RTO B sends its latest shadow price of -\$100/MWh to RTO A.
- RTO A enters the constraint into its security-constrained dispatch software with the current flow equal to the limit using -\$100/MWh as its shadow price limit. (The current flow equals 35 MW in this case.) Since RTO A's load is growing, the constraint binds with a shadow price less than the -\$100/MWh limit. (Assume Firm Flow is 40 MW.).

Flowgate A constraint shadow price for RTO A will be equal to:

(Gen 1 Offer Price – System Marginal Price for RTO A)/(Gen 1 GLDF on Constraint)

(\$20/MWh-\$35/MWh) /0.30 = -\$50/MW of Flow Relief.⁵

The LMP for Gen 1 will be:

System Marginal Price for RTO A + (Gen 1 GLDF)(RTO A Shadow Price)



\$35/MWh + (.3)(-\$50/MWh flow relief) = \$20/MWh

⁵The transmission constraint shadow price is calculated based on the difference between the constrained on generator offer price and the system marginal price. This difference is then divided by the GLDF of the generator on the binding constraint. In this case, Generator 2 drives the constraint shadow price because it has the highest offer and the lowest GLDF. The resulting shadow price of -\$50/MWh is less than the limit of -\$100/MWh from the Monitoring RTO A.

Stage 3 - Energy Prices at the RTO Border (Proxy Bus Prices)

The proxy bus price for RTO A as calculated by RTO B, will include the impact of the constraint on Flowgate A. Since the constraint is now binding in RTO A in stage 3, the proxy price for RTO B as calculated by RTO A will include impact of the constraint on Flowgate A.

RTO A's Proxy price for RTO B is as follows:

System Marginal Price for RTO A + (Proxy bus GLDF)(Shadow Price)

Gen 3 RTO A RTO B LMP = \$70/MWh System Marginal Price = System Marginal Price = \$35 / MWh \$40/MWh RTO B's Proxy RTO A's Proxy Price for RTO A = Price for RTO B = \$10/MWh \$50/MWh GLDF=30% GLDF=-30% Flowgate А ٠ Flow = 95 MW. Gen 2 Limit = 100 MW LMP = \$60/MWh Gen 1 LMP = \$20/MWh

35/MWh + (-.3)(-50/MWh flow relief) = 50/MWh

Stage 4 – First Coordinated Interregional RTO Dispatch Cycle (Constraint Binds in Non-Monitoring RTO)

RTO B analyzes the constraint shadow price information and determines that RTO A has a more economical alternative to provide the Flow Relief than is currently being obtained by operating Generator 2 out of merit. The analysis results in RTO B requesting RTO A to provide 4 MW more of Flow Relief to enable Generator 2 to come offline.

RTO A is able to reduce its Market Flow on Flowgate A to the desired 31 MW limit in its dispatch software. RTO A can achieve the requested relief by lowering Gen 1 while observing the shadow price limit from RTO B.

After the flow on Flowgate A is reduced by the redispatch action from RTO A, RTO B requests Generator 2 to come off-line, because it will no longer be required to control the Flowgate A limit.

The Flowgate A constraint shadow price for RTO B will be equal to:

(Gen 3 Offer Price – System Marginal Price for RTO B)/(Generator 3 GLDF on Constraint) (\$58/MWh-\$40/MWh) /-0.30 = -\$60/MW of Flow Relief.⁶

The LMP for Gen 2 will be:

System Marginal Price for RTO B + (Gen 2 GLDF)(RTO B Shadow Price)

\$40/MWh + (-.2)(-\$60/MWh flow relief) = \$52/MWh

The LMP for Gen 3 will be:

System Marginal Price for RTO B + (Gen 3 GLDF)(RTO B Shadow Price)

\$40/MWh + (-.3)(-\$60/MWh flow relief) = \$58/MWh

⁶ The transmission constraint shadow price is calculated based on the difference between the constrained on generator offer price and the system marginal price. This difference is then divided by the GLDF of the generator on the binding constraint. In this case, Generator 3 drives the constraint shadow price because it is the only unit online for the constraint.

The conditions for Stage 4 are as follows:



Stage 4 - Energy Prices at the RTO Border (Proxy Bus Prices)

The proxy bus price for RTO A, as calculated by RTO B, will include the impact of the constraint on Flowgate A. Since the constraint remains binding in RTO A in Stage 4, the proxy price for RTO B as calculated by RTO A will include impact of the constraint on Flowgate A.

RTO B's Proxy price for RTO A is as follows:

System Marginal Price for RTO B + (Proxy bus GLDF)(RTO B Shadow Price)



\$40/MWh + (.3)(-\$60/MWh flow relief) = \$22/MWh

Stage 5 – Ongoing Coordinated Dispatch Cycles

As the constrained operations progress, the RTOs will periodically verify that the constrained operations are coordinated by ensuring that the constraint shadow prices are reasonably close for the given constrained scenario.

In this case, the RTO A shadow price is \$50/MWh and the RTO B shadow price is \$60/MWh, which indicates that the system is optimally coordinated for the given constrained condition.

The RTO B's proxy bus price for RTO A is \$22/MWh which is very close to the LMP at Gen 1 bus (\$20/MWh) in RTO A. The RTO B's proxy bus for RTO A and the Gen 1 bus both have +30% GLDF on Flowgate A. One of the objectives of the market-to-market coordination is to achieve price convergence for buses with similar GLDFs across the RTO border. Similarly, the RTO A's proxy bus price for RTO B is \$50/MWh which is reasonably close to the LMP at Gen 3 bus (\$58/MWh) in RTO B. The RTO A's proxy bus for RTO B and the Gen 3 bus both have -30% GLDF on Flowgate A.

Settlement calculations

Stages 4 and 5 are the steady state situation integrated over an hour.

Firm Flow Entitlement for RTO A on Flowgate A per the example = 40MW

Real-Time Market Flow MW by RTO A on Flowgate A = 31MW (requested by RTO B)

RTO A Shadow Price on Flowgate A = -\$50/MWh

Payment (RTO B to RTO A) = ((Firm Flow Entitlement MW + Approved MW) – Real-Time Market Flow MW) * Transmission Constraint Shadow Price in Non-Monitoring RTOs Dispatch Solution

Payment (RTO B to RTO A) = ((40/MWh + 0) -31/MWh)*-\$50/MWh

Payment (RTO B to RTO A) = \$450

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 7 When One of the RTOs Does Not Have

7 When One of the RTOs Does Not Have Sufficient Redispatch

The purpose of this Section 7 is to establish rules for determining shadow prices on a constrained (i.e., binding) M2M Flowgate where either Party has insufficient redispatch to control the constrained M2M Flowgate. A Party has insufficient redispatch if the Party's market clearing software that clears the real-time energy market cannot produce a solution that manages the flow on a constrained (i.e., binding) M2M Flowgate within the binding limit in a dispatch interval at a cost less than or equal to the Transmission Constraint Penalty Factor.

A Party with insufficient redispatch to control a constrained M2M Flowgate shall either: (1) allow the Transmission Constraint Penalty Factor to set the shadow price of the constrained M2M Flowgate; or (2) upon mutual agreement of both Parties, apply the Constraint Relaxation Logic in accordance with the Party's Governing Documents. If the Constraint Relaxation Logic is implemented, the Monitoring RTO or the Non-Monitoring RTO binds for the constrained M2M Flowgate, and such RTO cannot provide sufficient redispatch to reach the shadow price of the other RTO, the Constraint Relaxation Logic shall be deactivated and the RTO binding for the constrained M2M Flowgate that cannot provide sufficient redispatch shall use the other RTO's shadow price.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 8 Appropriate Use of the Market-to-Ma

8 Appropriate Use of the Market-to-Market Process

Under normal operating conditions, the MISO and PJM operators will model all Reciprocal Coordinated Flowgates (RCFs) in their respective EMSs. A subset of these Flowgates, impacted by Market Flows from the two RTOs' energy markets, will be subject to the market-to-market process and called M2M Flowgates. This subset will be controlled using market-to-market tools for coordinated redispatch and additionally will be eligible for market-to-market settlements.

In principle and as much as practicable, Parties agree that the goal is to control to the most limiting Flowgate using the actual Flowgate limit. The RTOs will record and exchange actual M2M Flowgate limits, the limit used to bind, and a reason for significant deviation.

There are times when either Party, acting as the Monitoring RTO, will bind a M2M Flowgate different from its actual limit. The Parties have agreed in subsections 8.1 through 8.4 of this Section_8 to the conditions under which market-to-market settlement will occur even though a limit to which the Monitoring RTO is binding (limit control) is less than its actual limit.

8.1 **Qualifying Conditions for M2M Settlement:**

- **8.1.1 Purpose of Market-to-Market**. Market-to-market was established to address regional, not local issues. The intent is to implement market-to-market coordination and settle on such coordination where both Parties have significant impact.
- **8.1.2** Minimizing Less than Optimal Dispatch. The Parties agree that, as a general matter, they should minimize financial harm to one RTO that results from market-to-market coordination initiated by the other RTO that produces less than optimal dispatch, which can lead to revenue inadequacy for FTRs, and impose the burden for such revenue inadequacy on one or both RTOs.
- **8.1.3 Use Market-to-Market Whenever Binding a M2M Flowgate**. The market-to-market process will be initiated by the Monitoring RTO whenever an M2M Flowgate is constrained and therefore binding in its dispatch.
- **8.1.4 Most Limiting Flowgate**. Generally, controlling to the most limiting Flowgate provides the preferable operational and financial outcome. In principle and as much as practicable, market-to-market coordination will take place on the most limiting Flowgate, and to that Flowgate's actual limit (thermal, reactive, stability).
 - a. Market-to-market events that involve the use of a limit control that is below 95% of the actual limit will be subject to an after-the-fact review, <u>unless the lower limit was agreed to by the RTOs prior to the market-to-</u> <u>market binding event</u>. The review will determine if normal market-tomarket settlements are appropriate. If market-to-market settlements are determined by the Parties not to be appropriate, then settlements will not occur on the M2M Flowgate. Sufficient real-time and after-the-fact data will be exchanged to enable these reviews. The Parties may agree to

change the trigger for review to a lower number for specific Flowgates, however, either Party may request review of specific instances that are bound above the established binding percentage

- **8.1.5** Substitute Flowgates. The Parties agree that, if the use of substitute Flowgates is minimized and the ability to coordinate on the most limiting Flowgate in the very near term is enabled, there should be very few instances where market-to-market coordination occurs without resulting settlement.
 - a. Generally, market-to-market coordination without the normal market-tomarket settlement will be limited to times when: (1) a substitute is used for a period in excess of that defined in Section 8.1.5 (b) (ii) below, or (2) a substitute Flowgate (whether M2M or non-M2M) is used and the most limiting Flowgate is later determined to fail the market-to-market tests.
 - b. Where the most limiting constraint (monitored/contingent element pair) is not a defined M2M Flowgate:
 - i. Parties will add the Flowgate definition and activate market-tomarket coordination on that Flowgate (as opposed to a substitute) as soon as reasonably practicable; or
 - ii. A substitute Flowgate may be used for a short time (generally less than an hour) until it is possible to coordinate using the most limiting Flowgate. Parties will attempt to use either: (i) the most limiting M2M Flowgate or (ii) the most limiting Flowgate that is modeled by both Parties, in that order of preference. If possible, the Parties should use another Flowgate that is limiting. Optimal choices are Flowgates with the same or very similar Market Flow impacts (sensitivities) resulting in a very similar redispatch and market-to-market settlement.
 - c. A substitute Flowgate can be used in the market-to-market process pending the outcome of the coordinated Flowgate tests. The substitute Flowgate will be utilized only until the actual constraint can be entered in both the Monitoring and Non-Monitoring RTO systems as an M2M Flowgate. Market-to-market settlement is dependent on the outcome of the coordinated Flowgate tests on the actual constraint and the RTO requesting the use of a substitute Flowgate will do so at its own risk that market-to-market settlement may not occur.
 - d. A substitute M2M Flowgate will not be used to control for another constrained M2M Flowgate except in very limited circumstances and only where there is prior mutual agreement between MISO and PJM to do so. Mutual agreement is established only when it has been communicated and logged by the control center operators that the coordinated Flowgate is not the most limiting (i.e., it is a substitute Flowgate).

- e. A substitute M2M Flowgate will not be used to control for a non-M2M Flowgate that has failed the Flowgate study or has not been entered into the study process.
- f. Any use of substitute Flowgate should be clearly logged by both RTO operators with the actual start time, the actual end time and the reason for using a substitute Flowgate.
- g. If the Monitoring RTO requests TLR on an M2M Flowgate but has not initiated the market-to-market process and is not binding its market for that Flowgate, the Non-Monitoring RTO is not required to bind its market for that Flowgate in order to meet the Non-Monitoring RTO's TLR relief obligation. It will be assumed that the Monitoring RTO is binding its market for the actual constraint and that the actual constraint is already active in the market-to-market process (if the actual constraint is an M2M Flowgate).
- **8.1.6 Operating Guides** that refer to market-to-market operation do so under the assumption that the Flowgates for which market-to-market operations take place are, or are expected to be, constrained. Operating Guides are written by operators and are not intended to result in settlement not otherwise contemplated by the JOA or this ICP. Safe Operating Mode (SOM) is reserved for abnormal conditions when existing operating guides and normal tool sets are not sufficient to manage abnormal operating conditions. After declaring SOM, operator actions may include using market-to-market tools in addition to direct dispatch. Operators may choose to use substitute M2M Flowgates with the dispatch tools to maintain reliable operations. Settlement determination will occur during the After-the-Fact Review set forth in Section 8.4 below. Generally, settlement for market-to-market coordination that takes place after SOM is declared will apply if the settlement would apply under normal conditions.

8.2 Specific Conditions Applicable to Section 8.1.4 (Most Limiting Flowgate)

8.2.1 Market-to-Market Events Not Requiring an After-the-Fact Review

The MISO and PJM operators will model all M2M Flowgates facilities with actual limits in their respective EMSs. The MISO EMS model uses design thermal limits of equipment. The MISO limits are updated in UDS following contacts with Transmission Owners prior to binding. The MISO and PJM operators will control the flows on these M2M Flowgates in their respective UDSs at a binding percentage that is 95% or greater of the M2M Flowgate actual limit.

8.2.2 Market-to-Market Events Requiring an After-the-Fact Review

All M2M events that involve the use of a limit control that is below 95% of the actual limit will be subject to an after-the-fact review to determine whether this was an appropriate use of the market-to-market process and is subject to normal market-to-

market settlement. The following criteria will be used in making such a determination:

8.2.2.1 Reducing the UDS Binding Percentage to Provide Necessary Constraint Control:

- a. A reduced UDS binding percentage below 95% of the actual facility limit can be applied to an M2M Flowgate by the Monitoring RTO provided the monitored element (for the defined contingency condition) of the M2M Flowgate meets the following conditions:
 - i. The monitored element is, or is expected to be, over its actual limit (post contingency if applicable) and the UDSs are not providing the desired relief.
 - ii. Transient system behavior necessitates controlling the M2M Flowgate to a target between 95% and 100% and providing some margin. To achieve this, in some instances, the UDS percentage may need to be below 95%.
 - iii. The limit for the monitored element changes due to equipment switching out of service. For instance the actual limit of a line is reduced when one of the breakers in a breaker-and-half configuration is out of service, or only one parallel transformer remains in service at one of the line end terminals.
 - iv. A constraint with a very high loading volatility such that loading is expected to exceed 100% of the actual limit, even when the UDS binding percentage is significantly below that value.
- b. The reduced UDS binding percentage should only be applied for the time duration necessary to manage the initiating condition and shall be returned to normal as soon as possible.
- c. Each time the Monitoring RTO reduces the binding limit control of an M2M Flowgate below 95% for an actual or relevant post contingency overload, the Monitoring RTO operator will make a best effort to notify the Non-Monitoring RTO operator of the new limit control, the reason for the change, and when the limit control is expected to be returned to normal (if known). Both RTO operators will log the event. This notification only applies to an operating condition causing a limit control change; it does not apply to the use of temperature adjusted limits, voltage limits or stability limits implemented as flow limits.
 - i. A limit reported by a Transmission Owner on the operating day shall require an accompanying reason. If the limit is set to control for underlying facilities, this shall be called out specifically. Any reason other than those specifically called out herein shall be reported.

d. The Monitoring RTO will operate to the most conservative limit when there are conflicting results between two different EMSs (either another RTO EMS or a Transmission Owner EMS) unless the reason for the difference is known.

8.2.2.2 Reducing the UDS Binding Percentage of a M2M Flowgate for Prepositioning

- a. In some conditions system flows are expected to change quickly due to load pick-up, planned, and emergency outages, and the UDS may not be accurately predicting a resulting overload on the M2M Flowgate in the near future. When a reduction in binding percentage is initiated by the operator to mitigate expected impacts on an M2M Flowgate from a planned outage, that action shall be taken to prepare the system consistent with the time submitted on the outage ticket or as revised by the equipment operator. This reduction should be for as short a time as practicable but may be extended if the outage is delayed. If possible, initiating the reduction in binding percentage shall be delayed until the outage begins.
- b. M2M Flowgates may be de-rated for a short period of time to pre-position the system for an expected change. These expected changes can include:
 - i. Change in unit status (anticipated as part of an upcoming outage, reacting to an imminent emergency outage, or change in commitment if the unit for which the commitment was changed cannot be adequately ramped to allow normal redispatch to manage any resulting constraints).
 - ii. Transmission system topology change (either anticipated event or as part of an upcoming planned outage). In this case, every effort shall be made to add the expected constraint to the systems and bind on the expected constraint instead of using a substitute Flowgate.
 - iii. Increase or decrease in wind generation output.
- c. Reducing the limit to pre-position the system will be considered an appropriate use of market-to-market tools but subject to settlement adjustment for substitute M2M Flowgates applying a hold harmless approach discussed in the After the Fact Review process set forth in Section 8.4 below. The time duration of such events shall be limited to that necessary to pre-position to avoid excessive impacts on market prices.

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8.3 Specific Conditions Applicable to Section 8.1.6 (Operating Guides)

- **8.3.1** All op guides are subject to review by MISO and PJM through which either RTO can request removal of a reference to the market-to-market process. Where reference to the market-to-market process has been removed and not replaced by alternate congestion management actions, the use of SOM will be added to the op guide if it is not already included in the op guide. Before modifying existing op guides, one of the following conditions must be met:
 - a. One or more constraints are made available to assist in managing West-to-East flows across NIPS to avoid the conditions that prompted SOM; or
 - b. MISO and PJM will agree to a mechanism to manage congestion that will avoid the need for repeated SOM declarations on the same constraint.
- **8.3.2** In the event of severe abnormal system conditions, such as storm damage to critical facilities, the Inter-RTO Steering Committee shall meet as soon as practicable to agree upon the response, which shall be incorporated into a temporary operating guide.

8.4 After-the-Fact Review to Determine Market-to-Market Settlement

- **8.4.1** Based on the communication and data exchange that has occurred in real-time between the Monitoring RTO operator and the Non-Monitoring RTO operator, there will be an opportunity to review the limit change and the use of the market-to-market process to verify it was an appropriate use of the market-to-market process and subject to market-to-market settlement. The Monitoring RTO will initiate the review as necessary to apply these conditions and settlements adjustments.
 - a. A review will verify that the limit used in the market-to-market coordination represented the actual limit of the monitored element of the original Flowgate that has passed one of the M2M Flowgate Studies. The Monitoring RTO will archive and make available data (including all UDS solutions) that supports the decision to change the M2M Flowgate limit. The Parties will mutually agree upon, and document in writing and post on the Parties' websites, the data that should be exchanged and/or archived to meet this requirement, and shall retain the data for the period applicable to other data used to audit settlements inputs and Market Flow calculations under this agreement.
 - b. A review will verify the outcome of the M2M Flowgate Studies and whether the potential Flowgate passed one of the M2M Flowgate Studies by both the Monitoring RTO and the Non-Monitoring RTO. The Monitoring RTO uses market-to-market tools before a M2M Flowgate is approved at its own risk regarding market-to-market settlement. After the M2M Flowgate Studies are complete, if the Flowgate did not pass at least one of the studies conducted by

the Monitoring RTO and at least one of the studies conducted by the Non-Monitoring RTO, then settlements will be adjusted as follows.

- i. If the Non-Monitoring RTO's integrated Market Flows are below its Firm Flow Entitlement for the hour, there will be a normal market-to-market settlement with a payment from the Monitoring RTO to the Non-Monitoring RTO for the hour.
- ii. If the Non-Monitoring RTO's integrated Market Flows exceed its Firm Flow Entitlement for the hour, there will be no market-to-market settlement for the hour.
- iii. If the Monitoring RTO was requested to initiate the market-to-market process on the Monitoring RTO's Flowgate to assist the Non-Monitoring RTO, the Monitoring RTO will be held harmless as follows.
 - a. If the Non-Monitoring RTO's integrated Market Flows are below its Firm Flow Entitlement for the hour, there will be no market-tomarket settlement for the hour.
 - b. If the Non-Monitoring RTO's integrated Market Flows exceed its Firm Flow Entitlement for the hour, there will be a normal marketto-market settlement with a payment from the Non-Monitoring RTO to the Monitoring RTO for the hour.
- 8.4.2 The Non-Monitoring RTO may request the Monitoring RTO to implement the market-to-market process on its behalf. There will be an after the fact review performed to determine whether this market-to-market event should be subject to settlement. If the review finds it is subject to settlement, the usual criteria will be applied. If the review finds it is not subject to settlement, the usual criteria will be applied except that the Monitoring RTO shall be held harmless.
 - a. If the Non-Monitoring RTO's integrated Market Flows are below its Firm Flow Entitlement for the hour, there will be no market-to-market settlement for the hour.
 - b. If the Non-Monitoring RTO's integrated Market Flows exceed its Firm Flow Entitlement for the hour, there will be a normal market-to-market settlement with a payment from the Non-Monitoring RTO to the Monitoring RTO for the hour.

8.5 M2M Data Exchange

8.5.1 A data exchange will be established. Parties shall mutually agree upon data, format and frequency of exchanges. The data exchange must be updated to include the following data as soon as practicable if requested by either Party.

- a. actual Flowgate SE/SA flow from the approved case,
- b. UDS solution %,
- c. operator entered binding %,
- d. actual Flowgate limit, and
- e. shadow price.

9 Overview of Coordinated Transaction Scheduling

Coordinated Transaction Scheduling or "CTS" are market rules implemented by MISO and PJM that allow real-time transactions to be scheduled based on a market participant's willingness to purchase energy at a source (in the PJM Balancing Authority Area or the MISO Balancing Authority Area) and sell it at a sink (in the other Balancing Authority Area) if the forecasted price at the sink minus the forecasted price at the corresponding source is greater than or equal to the dollar value specified in the bid.

CTS transactions are ordinarily evaluated on a 15-minute basis consistent with forecasted real-time prices from MISO's Coordinated Transaction Scheduling Dispatch run and the forecasted price information from PJM's Intermediate Term Security Constrained Economic Dispatch solution. Coordinated optimization with CTS improves interregional scheduling efficiency by (i) better ensuring that scheduling decisions take into account relative price differences between the regions, and (ii) moving the evaluation of bids and offers closer to the time scheduling decisions are implemented.

MISO and PJM may suspend the scheduling of CTS transactions when MISO or PJM are not able to adequately implement schedules as expected due to: (1) a failure or outage of the data link between MISO and PJM prevents the exchange of accurate or timely data necessary to implement the CTS transactions; (2) a failure or outage of any computational or data systems preventing the actual or accurate calculation of data necessary to implement the CTS transactions; or (3) when necessary to ensure or preserve system reliability.

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 10 - M2M Settlement Calcs MI-Ont PARs

10 Market-to-Market Settlement Calculations for the Michigan-Ontario Phase Angle Regulators Interface

10.1 Qualification Test for MOPI M2M Flowgates

Unless both PJM and MISO agree otherwise, the Parties shall study each M2M Flowgate to determine whether the M2M Flowgate qualifies as a MOPI M2M Flowgate. A M2M Flowgate shall be considered a MOPI M2M Flowgate where the average MI-ONT PAR shift factor value is: (1) greater than or equal to 5 percent for a single-monitored element; (2) greater than or equal to 7.5 percent for a double-monitored element; or (3) greater than or equal to 10 percent for a triple-monitored element. A M2M Flowgate with more than three monitored elements may be added as a MOPI M2M Flowgate only upon mutual agreement by the Parties.

10.2 Market Flow and Firm Flow Entitlements Calculations on MOPI M2M Flowgates

In addition to the Market Flow and Firm Flow Entitlements calculated pursuant to Attachment 2 and the sections of Attachment 3 other than this Section 10, the Parties shall calculate separate MOPI Market Flows and MOPI Firm Flow Entitlements in accordance with Section 10.2.1 and 10.2.2, respectively, for each MOPI M2M Flowgate when the MI-ONT PARs are regulating (i.e., controlling loop flows with PAR tap changes) for Lake Erie circulation. The MOPI Market Flows and MOPI Firm Flow Entitlements calculated pursuant to Section 9.2.1 and 9.2.2 shall only be used only for the purpose of calculating market-to-market settlements on MOPI M2M Flowgates for periods when the MI-ONT PARs are regulating for Lake Erie circulation.

PJM and MISO shall use the Market Flow and Firm Flow Entitlements calculated pursuant to Attachment 2 to calculate market-to-market settlements when the MI-ONT PARs are not regulating for Lake Erie circulation.

10.2.1 MOPI Market Flow Calculations for MOPI Flowgates When MI-ONT PARs are Regulating

 $MOPI Market Flow_{MOPI M2M Flowgate X} = Market Flow_{MOPI M2M Flowgate X} + MI-ONT PARs$ $Market Flow_{MOPI M2M Flowgate X} - LEC Adjustment_{MOPI M2M Flowgate X}$

Where:

*Market Flow*_{MOPI M2M Flowgate x} = the Market Flow for the relevant MOPI M2M Flowgate calculated in the same manner as M2M Flowgates, as described in Attachment 2 of this Agreement;

Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 10 - M2M Settlement Calcs MI-Ont PARs

*MI-ONT PARs Market Flow*_{MOPI M2M Flowgate X} = PAR Shift Factor_{MOPI M2M Flowgate X} × the RTO's Market Flow for the four MI-ONT PAR paths, calculated in the same manner as the Market Flow is computed for M2M Flowgates, as described in Attachment 2 of this Agreement;

*PAR Shift Factor*_{*MOPI M2M Flowgate X*} = the MI-ONT PAR interface shift factor on M2M Flowgate X;

LEC Flow = The difference between the actual and scheduled flow on the MI-ONT PAR interface, with the clockwise flow around Lake Erie considered as the positive direction;

LEC Bandwidth = a megawatt range agreed upon by the Parties that represents the maximum directional LEC Flow on the MI-ONT PAR interface, with the clockwise flow around Lake Erie considered as the positive direction; and

*LEC Adjustment*_{*MOPI M2M Flowgate X*} = one of the following values:

- (1) where the LEC Flow is outside the LEC Bandwidth on the MI-ONT PAR interface, LEC Adjustment_{MOPI M2M Flowgate X} = PAR Shift Factor_{MOPI M2M Flowgate X} x (LEC Flow LED Bandwidth); or
- (2) where the actual circulation on the MI-ONT PAR interface is equal to or between the directional limits of the *LEC Bandwidth*, *LEC Adjustment*_{MOPI M2M Flowgate X} shall equal zero.

10.2.2 MOPI Firm Flow Entitlement Calculations for MOPI Flowgates When MI-ONT PARs are Regulating

Firm Flow Entitlement for MOPI M2M Flowgates are calculated by: (1) revising the Flowgate contingency definition of the MOPI M2M Flowgate to include the MI-ONT PAR interface; and (2) calculating MOPI Firm Flow Entitlements for this MOPI M2M Flowgate in the same manner as all other M2M Flowgates with the following exception: impacts from historical reservations that cross the MI-ONT PAR interface shall be excluded from the process of calculating allocations described in Attachment 2 of this Agreement.
Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 11 Market Flow Adj for Gen Pseudo-Tie

11 Market Flow Adjustment for Generator Pseudo-Ties

Pursuant to the calculations in this Section 11, the Parties shall adjust the Market Flow on M2M Flowgates for market-to-market settlement calculations to account for each generator pseudo-tied from PJM into MISO or pseudo-tied from MISO into PJM.

11.1 The Transfer Distribution Factor Calculation for each Generator Pseudo-Tie and Flowgate

The Parties shall use the equations in Section 11.1 to calculate the transfer distribution factor for each generator pseudo-tie and M2M flowgate pairing. The weighted shift factor for the MISO-PJM common interface definition will be determined based on a mutually agreed upon method and represents the portion of the path from the location of the pseudo-tied generator to the MISO-PJM border.

The Parties shall calculate a transfer distribution factor for each generator pseudo-tie and M2M Flowgate pairing. The calculation is as follows:

Where:

shift factor for each generator pseudo-tie and M2M Flowgate pairing

weighted shift factor for the MISO-PJM common interface and each M2M Flowgate pairing

11.2 The Generator Pseudo-Tie Market Flow Adjustment Calculation

The calculation for the Pseudo-Tie Market Flow Adjustment is the transfer distribution factor for each generator pseudo-tie and M2M Flowgate pairing multiplied by the output of the pseudo-tie and is described as follows:

Where:

transfer distribution factor for each generator pseudo-tie per flowgate

output per generator pseudo-tie based on net Market Flows serving Attaining BA load Interregional Agreements --> MISO-JOA --> MISO-JOA ATTACHMENT 3 --> MISO-JOA Att 3 Section 11 Market Flow Adj for Gen Pseudo-Tie

The Parties shall sum each Pseudo-Tie Market Flow Adjustment for each generator pseudo-tie and M2M Flowgate pairing as follows:

Appendix A: Definitions

Any undefined, capitalized terms used in this ICP shall have the meaning: (i) provided in the Joint Operating Agreement between PJM and MISO, or in the CMP, or (ii) given under industry custom and, where applicable, in accordance with good utility practices.

Monitoring RTO	The RTO that has the primary responsibility for monitoring and control of a specified M2M Flowgate
Non-Monitoring RTO	The RTO that does not have the primary responsibility for monitoring and control of a specified M2M Flowgate, but does have generation that impacts that Flowgate
Firm Flow	The estimated impacts of firm Network and Point-to-Point service on a particular M2M Flowgate.
Firm Flow Entitlement	The firm flow entitlement (FFE) represents the net allocation on M2M Flowgates used in the market-to-market settlement process. The FFE is determined by taking the forward allocation (using 0% allocations) and reducing it by the lesser of the two day-ahead allocation in the reverse direction (using 0% allocations) or the generation-to-load impacts in the reverse direction (down to 0%). The generation-to-load impacts in the reverse direction come from the day-ahead allocation run. The forward allocation comes from the day-ahead network and native load (DA NNL) calculation. The FFE may be positive, negative or zero.
Flow Relief	The reduction in the MW flow on an M2M Flowgate that is caused by the generation redispatch as a result of the binding transmission constraint
Market Flow	The flow in MW on an M2M Flowgate that is caused by all generation deliveries to load in the RTO footprint.
Reciprocal Coordinated Flowgate (RCF)	A Coordinated Flowgate for which Reciprocal Entities have generation that has a GLDF on the flowgate at or above the NERC approved threshold (currently, 5% or greater)
Requesting RTO	RTO that is requesting an increase in their Firm Flow Entitlement in the Day-Ahead energy market coordination procedures. A Requesting RTO may be a Monitoring RTO or a Non-Monitoring RTO with respect to a given RCF in Real Time.
Responding RTO	RTO that is responding to a request to reduce their Firm Flow Entitlement in the Day-Ahead energy market coordination procedures. A Responding RTO may be a Monitoring RTO or a

	Non-Monitoring RTO with respect to a given RCF in Real Time.
UDS	Security constrained, economic dispatch software used to determine dispatch instructions to resources in a Party's market area.
M2M Flowgate	Has the definition as defined in Section 1 of this Attachment 3.
M2M Flowgate Studies	M2M Flowgate Studies consist of the coordinated flowgate tests defined in Section 3.2.1 of the Congestion Management Process and the significantly impacted flowgate tests defined in Section 1.1.3 of this Attachment 3.

ATTACHMENT 4

CROSS-BORDER GRANDFATHERED PROJECTS

Arrowhead – Gardner Park 345 kV Line

AEP 765 kV Cloverdale Line

ATTACHMENT 5

EMERGENCY ENERGY TRANSACTIONS

PJM or MISO may, from time to time, have insufficient Operating Reserves available to their respective systems, or need to supplement available resources to cover sudden and unforeseen circumstances such as loss of equipment or forecast errors. Such conditions could result in the need by the Party experiencing the deficiency to purchase Emergency Energy for Reliability reasons.

The purpose of this Attachment 5 is to allow for the exchange of Emergency Energy between the Parties during such times when resources are insufficient and commercial remedies are not available. The offer to provide Emergency Energy shall be available only when the Party experiencing the deficiency has declared an Energy Emergency Alert, Level Alert 2, as defined in Attachment 1 of NERC Standard EOP-002-0, or as defined in a subsequent revision of such Standard.

1.0: CHARACTERISTICS OF THE POWER AND ENERGY

Unless otherwise mutually agreed, all power and energy made available by the delivering Party shall be three phase, 60 Hz alternating current at operating voltages established at the Delivery Point in accordance with system requirements and appropriate to the Interconnection.

2.0: NATURE OF SERVICE

- 2.1 PJM, to the maximum extent it deems consistent with:
 - (a) the safe and proper operation of its own system,
 - (b) the furnishing of dependable and satisfactory services to its own customers, and
 - (c) its obligations to other parties,

shall make available to MISO energy market Emergency Energy from available generating capability in excess of its load requirements up to the transfer limits in use between the two Balancing Authority Areas.

PJM shall refer to all Emergency Energy transactions as being sold:

- (a) "Recallable" where such a delivery could reasonably be expected to be recalled if PJM needed the generation for a deployment of reserves or other system Emergency; or
- (b) "Non-Recallable" where PJM would normally be able to continue delivering the Emergency Energy following a reserve deployment.

The Parties shall use reasonable efforts to ensure that an Emergency Energy transaction continues only until it can be replaced by a commercial transaction.

- 2.2 MISO, to the maximum extent it deems consistent with:
 - (a) the safe and proper operation of its own Transmission System,
 - (b) the furnishing of dependable and satisfactory services to its own customers, and
 - (c) its obligations to other parties, including the terms and conditions of the Midwest ISO Tariff.

shall make available to PJM Emergency Energy from available generating capability in excess of its load requirements up to the transfer limits in use between the two Balancing Authority Areas.

MISO shall refer to all Emergency Energy transactions as being sold:

- (a) "Recallable" where such a delivery could reasonably be expected to be recalled if MISO needed the generation for a deployment of reserves or other system Emergency; or
- (b) "Non-Recallable" where MISO would normally be able to continue delivering the Emergency Energy following a reserve deployment.

The Parties shall use reasonable efforts to ensure that an Emergency Energy transaction continues only until it can be replaced by a commercial transaction.

- 2.3 In the event one Party is unable to provide Emergency Energy to the other Party when needed, but there is energy available from a third party Balancing Authority, delivery of such Emergency Energy will be facilitated to the extent feasible.
- 2.4 MISO does not take title to energy, or Emergency Energy, under its tariff but will purchase or sell such energy for and on behalf of, its Market Participants and will invoice and make payment to PJM, as set forth in the Joint Operating Agreement.

3.0: RATES AND CHARGES

- 3.1 All Emergency Energy transactions shall be billed based on scheduled deliveries.
- 3.2 All rates and charges associated with Emergency Energy shall be expressed in funds of the United States of America.
- 3.3 MISO and PJM agree that the charge for Emergency Energy delivered by one Party to the other Party shall be as defined below.

The delivering Party shall be allowed to include, in the total price charged for Emergency Energy, all costs incurred in the delivery of Emergency Energy to the Delivery Point, and the receiving Party shall be responsible for all costs at and beyond the Delivery Point.

Direct Transaction

The charge for Emergency Energy supplied by delivering Party in any hour to the receiving Party shall be calculated using the following two-part formula. The first part of the formula calculates the energy portion of the charge and the second part incorporates any transmission charges incurred by the delivering Party to deliver the Emergency Energy to the Delivery Point. In the case of PJM as the delivering Party, the cost of the energy portion shall be the greater of 150% of any applicable Locational Marginal Price ("LMP") at the point(s) of delivery to provide the Emergency Energy, or \$100/MWHr. In the case of MISO as the delivering Party, the cost of the energy portion shall be the greater of 150% of the energy portion shall be the delivering Party.

Energy Portion for an hour =

(*Emergency Energy supplied in the hour in MWHr*) **times** (*delivering Party's cost of such energy in \$/MWHr*)

Transmission Charge to Delivery Point (if applicable) =

The actual ancillary services (including delivering Party's market charges applicable to export schedules) and transmission costs incurred by the delivering Party in delivering such Emergency Energy to the Delivery Point pursuant to the delivering Party's Tariff or the equivalent thereof, including costs incurred pursuant to the transmission tariff of any transmission service provider in the event that a Party's Market Flows exceed the physical capability in megawatts of the contract path between two of its regions to serve its load.

Total Charge for Emergency Energy supplied in any hour =

The sum of the Energy Portion for an hour and the Transmission Charge for that same hour.

A Party requesting Emergency Energy under this Section is obligated to pay for the Emergency Energy in the amount requested, times a minimum period of one clock hour, once the delivering Party has initiated the redispatch of generation in the delivering Party's energy market or dispatch order, so that the energy will be made available at the time requested to the receiving Party at the Delivery Point.

Transaction from Third Party Supplier

The charge for Emergency Energy supplied to the receiving Party from a third party through the delivering Party's system shall be calculated using the following two-part formula. The first part of the formula calculates the energy portion of the charge and the second part incorporates any transmission charges incurred by the delivering Party to deliver the Emergency Energy to the Delivery Point. The delivering Party's cost for Emergency Energy shall be the cost that the third-party supplier charges the delivering Party or as otherwise stated in an agreement between receiving Party and the third-party supplier.

Energy Portion for an hour =

(*Emergency Energy supplied in the hour in MWHr*) **times** (*Third-party Supplier's charge for such energy in \$/MWHr*)

Transmission Charge to Delivery Point (if applicable) =

The actual ancillary service costs (as applicable), transmission costs and all other applicable costs attributable to such transactions incurred by the delivering Party in delivering such energy to the Delivery Point pursuant to the delivering Party's Tariff or the equivalent thereof, including costs incurred pursuant to the transmission tariff of any transmission service provider in the event that a Party's Market Flows exceed the physical capability in megawatts of the contract path between two of its regions to serve its load.

Total Charge for Emergency Energy supplied in an hour =

The sum of the energy portion for an hour and the transmission charge for that same hour.

A Party requesting Emergency Energy under this Attachment 5 is obligated to pay the Transmission Charge, times a minimum period of one clock hour, once the delivering Party has entered the necessary schedules in the delivering Party's system.

4.0: MEASUREMENT OF ENERGY INTERCHANGED

All Emergency Energy supplied at the Delivery Point shall be metered. The delivering Party shall be responsible for the actual losses as a result of delivery to the delivery Point and the receiving Party shall be responsible for all losses from the delivery Point.

5.0: BILLING AND PAYMENT

5.1 Billing for, and payment of, all charges incurred pursuant to this Attachment 5 shall be pursuant to Section 16.2 of the Joint Operating Agreement of which this Attachment is a part.

APPENDIX E. Resume of John Chiles

EDUCATION •

Bachelor of Science in Engineering, University of South Florida, 1993

PROFESSIONAL MEMBERSHIPS •

IEEE, Power Engineering Society

PROFESSIONAL EXPERIENCE •

Mr. Chiles has over 30 years of electric utility and consulting experience. He provides regulatory and strategic support for generation and transmission cooperatives, municipal electric systems, independent generation developers, industrial consumers and state commissions regarding regional transmission organization energy markets, open access transmission issues, transmission planning and need certification, generation siting and interconnection, NERC compliance support and training, and stakeholder representation in RTO stakeholder forums. Mr. Chiles has filed testimony at the Federal Energy Regulatory Commission (FERC) and at several State regulatory commissions.

GDS Associates, Inc., September 2005 to Present

Principal, Transmission Services

As a Principal at GDS, Mr. Chiles consults with utilities, government agencies, and industrial clients in the following areas:

- Served as Stakeholder Representative for clients within Entergy, the Midcontinent Independent System Operator (MISO) and the Southwest Power Pool (SPP) on matters related to transmission expansion planning and market design
- Assisted multiple clients during the Entergy integration into MISO, including conversion of transmission rights, valuation of generation assets, and Day 2 market preparation
- Provided generation interconnection support services for renewable and fossil-fuel based facilities, including siting analysis, technical study support, client representation with Transmission Providers, and negotiation of Interconnection Agreements
- Filed expert witness testimony at FERC and State jurisdictions regarding transmission facility need determination, transmission loss calculations, integrated resource planning and Regional Transmission Organization (RTO) integration activities
- Conducted NERC mock audits on Transmission Planning (TPL), Facility Rating (FAC), and Modeling (MOD) Standards for numerous municipal and cooperative organizations
- Supported generation procurement Request for Proposals (RFPs) through providing technical and strategic support on transmission issues

TECO Energy, Tampa, FL, January 2000 – January 2004

Manager

- Monitored and provided corrective action on NERC compliance
- Served as Southwest Reserve Sharing Group and WECC Operating Committee representative
- Developed generation optimization process to achieve optimal dispatch of 2,200 MW plant to meet NERC criteria
- Optimized daily transmission positions for 4,400 MW asset portfolio (\$3MM/month)
- Determined transmission deliverability (ATC, Generator Operating Limit) to support balance of month and originated transactionsProvided regulatory support on issues at FERC and state levels
- Assisted in development of and modifications to ERCOT protocols
- Determined how changes in regional markets impacted profitability of asset portfolio
- Represented company at FERC, SeTrans and State jurisdictions

- Developed and Presented of 5- and 10-Year expansion plans
- Representative on GridFlorida Flowgate Working Group
- LMP analysis for TECO Assets

North Carolina Electric Membership Corporation, Raleigh, NC, 1994-1999

Project Engineer

- Impacts of FERC Order 888 and 889 on member systems; reviewed and analyzed wholesale provider transmission expansion plans
- Transmission-Dependent Utility representative on SERC ATC Working Group
- OASIS site testing
- Consulting support to PA Cooperative group for PA Retail Access Program
- Expansion plan development for Duke Energy, Carolina Power & Light, Dominion Virginia Power
- RFP bid evaluation
- Evaluation of Structured Transactions for external sales

AREAS OF EXPERTISE •

Regional Transmission Organization Operations and Policy Support

- Market Integration Support for new entrants in California Independent System Operator (CAISO), SPP and MISO
- Market Analysis of Nodal Price Data
- Technical Support on RTO Settlements Issues

Energy Market Design

- Nodal Market Development (ERCOT)
- Resource Adequacy Market Development (PJM)
- Energy Imbalance Market Development (SPP, WECC)

Open Access Transmission Issues

- Loss Study Review and Support
- Deliverability Analysis for Generation Assets

Negotiation of Agreements for Transmission Service

Transmission System Modeling and Planning

- Power Flow Analysis
- Short Circuit Analysis
- Need Certification Technical Studies
- Review of Impact of Transmission Expansion Plans on Load and Generation

Production Cost Modeling and Simulation

- PROMOD Studies for Generation Margin Determination and Load Cost Analysis
- Assessment of Economic Transmission Projects
- Financial Transmission Rights Evaluation

Generation Interconnection Process Evaluation and Support

- Power Flow-Based Site Selection Analysis
- Technical Support for Review of Transmission Provider Studies
- Negotiation of Interconnection Service Agreements

NERC Compliance Activities

- TPL Assessments
- Development of Policies, Guidelines and Procedures
- Mock Audits and Gap Analysis
- Subject Matter Expert Training for TPL, FAC, and MOD Standards

Regulatory, Strategic and Stakeholder Support

- Stakeholder Representation at MISO, SPP, and ERCOT
- Technical and Regulatory Support for Clients at FERC and State Jurisdictions

EXPERT WITNESS TESTIMONY •

FEDERAL ENERGY REGULATORY COMMISSION (FERC)

PJM Interconnection, LLC, American Transmission Systems, Inc., Docket No. ER12-2399-003

Southwestern Electric Cooperative, Inc., et al., Docket Nos. EL15-72, et al., Panel Member for Technical Conference

ARKANSAS PUBLIC SERVICE COMMISSION (APSC)

In the Matter of a Show Cause Order Directed to Entergy Arkansas, Inc. Regarding Its Continued Membership in the Current Entergy System Agreement, or Any Successor Agreement Thereto, and Regarding the Future Operation and Control of Its Transmission Assets, Docket No. 10-011-U

GEORGIA PUBLIC SERVICE COMMISSION (GPSC)

In the Matter of: Georgia Power Company's 2010 Integrated Resource Plan, Docket No. 31081

In the Matter of: Georgia Power Company's 2013 Integrated Resource Plan, Docket No. 36498

In the Matter of: Georgia Power Company's 2016 Integrated Resource Plan, Docket No. 40161

In the Matter of: Georgia Power Company's 2019 Integrated Resource Plan, Docket No. 42310

MISSISSIPPI PUBLIC SERVICE COMMISSION (MPSC)

In Re: Joint Application of Entergy Mississippi, Inc., and The Midwest Independent Transmission System Operator, Inc., for Transfer of Functional Control of Entergy Mississippi's Transmission Facilities To MISO, Docket No. 2011-UA-376

PUBLIC UTILITY COMMISSION OF TEXAS (PUCT)

Entergy Gulf States, Inc.'s Transition to Competition Plan, PUC Docket No. 33687 Application of Sharyland Utilities, L.P. to Approve Study and Plan Pursuant to the Commission's Order in Docket No. 37990 Concerning the Movement of Sharyland's Stanton and Colorado City Divisions from the Southwest Power Pool to ERCOT, PUC Docket No. 39070

Application of Entergy Texas, Inc., ITC Holdings Corp., MidSouth Transco LLC, Transmission Company Texas, LLC, and ITC MidSouth LLC for Approval of Change of Ownership and Control of Transmission Business, Transfer of Certification Rights, Certain Cost Recovery Approvals, and Related Relief, PUC Docket No. 41223

Updated Application of Entergy Texas, Inc., ITC Holdings Corp., Mid-South Transco LLC, Transmission Company Texas, LLC, and ITC Midsouth LLC for Approval of Change of Ownership and Control of Transmission Business, Transfer Of Certification Rights, and Related Relief, PUC Docket No. 41850

COMMONWEALTH OF VIRGINIA STATE CORPORATION COMMISSION DIVISION OF ENERGY (VSCC)

Virginia Electric and Power Company for Approval and Certification of Electric Facilities for the Surry-Skiffes Creek 500 kV Transmission Line, Skiffes Creek-Whealton 230 kV Transmission Line, and Skiffes Creek 500 kV-230 kV-115 kV Switching Station, Case No. PUE-2012-00029

Virginia Electric and Power Company for Approval and Certification of Electric Transmission Facilities for the Remington CT-Warrenton 230 kV Double Circuit Transmission Line, Vint Hill-Wheeler and Wheeler-Loudoun 230 kV Transmission Lines, 230 kV Vint Hill Switching Station, and 230 kV Wheeler Switching Station, Case No. PUE-2014-00025

prepared by GDS ASSOCIATES INC I

PJM DELIVERABILITY ASSESSMENT - OHIO

REVIEW OF KODA TEST AND DFAX METHODOLOGY

Prepared for Avangrid Resources and Blue Delta Energy

PUCO Cases 21-516-EL-REN, 21-517-EL-REN, 21-531-EL-REN, 21-532-EL-REN, 21-544-EL-REN, and 22-380-EL-REN

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Summary: Testimony Joint Testimony of John Chiles electronically filed by Mrs. Angela Whitfield on behalf of Barton Windpower, LLC and Elm Creek Wind II LLC and Moraine Wind LLC and Buffalo Ridge II LLC and Barton Windpower LLC and Avangrid Renewables, LLC and Rugby Wind LLC and Blue Delta Energy, LLC