PUCO EXHIBIT FILING

RECEIVED-DOCKETING DIS

Date of Hearing:	10-7-1	5	45 OCT 21 PM 3: 31
Case No. 14-1693-E	L-RDR 14-1	694-EL-AA	₩ ica
PUCO Case Caption: チュガ			
approval of Shis Pa	wes Company	s Proposed +	<u> </u>
Enterinto an appliat	Power Punch	al agreement	for
Inclusion in the Prue	1 Puchase agr	sement Rides.	_
for approval of Certain	polication of ol	in former Composing authority.	<u>~</u>
List of exhibits being filed:	Vo	lune VIII	re an ile ness.
COMPANY 1	2		ng al
SC 32-3	3-34-35	36	- Dearth
OMAEG 18	•	· · · · · · · · · · · · · · · · · · ·	innges api oliction of gular cours
IEU 13-	14		Dhat the
P3 3-4	-5-6-	7	certify to
			is to rate an nent de
			This accur docur
Reporter's Signature:	MES		_

2066

BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the :
Application Seeking :
Approval of Ohio Power :

Approval of Ohio Power :
Company's Proposal to : Case No. 14-1693-EL-RDR

Enter into an Affiliate:
Power Purchase Agreement:
for Inclusion in the Power:
Purchase Agreement Rider.:

In the Matter of the : Application of Ohio Power :

Company for Approval of : Case No. 14-1694-EL-AAM

Certain Accounting : Authority. :

PROCEEDINGS

before Ms. Greta See and Ms. Sarah Parrot, Attorney Examiners, at the Public Utilities Commission of Ohio, 180 East Broad Street, Room 11-D, Columbus, Ohio, called at 9 a.m. on Wednesday, October 7, 2015.

VOLUME VIII

ARMSTRONG & OKEY, INC.

222 East Town Street, Second Floor
Columbus, Ohio 43215-5201
(614) 224-9481 - (800) 223-9481
Fax - (614) 224-5724

Armstrong & Okey, Inc., Columbus, Ohio (614) 224-9481

BEFORE THE POWER SITING BOARD OF THE STATE OF OHIO

In the Matter of the Letter of Notification Application by
Carroll County Energy, LLC for a Certificate of
Environmental Compatibility and Public Need for the
Carroll County Energy 345 kV Interconnection

Case Number
14-0591-EL-BLN

Members of the Board:

Chairman, Public Utilities Commission

Director, Development Services Agency

Director, Department of Health

Director, Department of Agriculture

Director, Environmental Protection Agency

Director, Department of Natural Resources

Public Member

Ohio House of Representatives
Ohio Senate

To the Honorable Power Siting Board:

Please review the attached Staff Report of Investigation, which has been filed in accordance with the Board's rules. The accelerated certificate application in this case is subject to an automatic approval process as required by Section 4906.03 of the Ohio Revised Code.

The application will be automatically approved on May 16, 2014, unless suspended by the Board's chairperson, the Executive Director, or an administrative law judge. If suspended, the Board must render a decision on the application within 90 days from the date of suspension.

The staff report includes recommended conditions of the certificate. Prior to the automatic approval date, the applicant must file a supplement to its application that adopts these conditions. Absent such supplement. Staff will recommend that the case be suspended.

Any concerns you or your designee may have with this case must be presented to the Executive Director of the Power Siting Board at least four business days prior to May 16, 2014, which is the automatic approval date. To contact the Executive Director with concerns, reply to the email to which this document was attached, or use the ContactOPSB email address listed below.

Sincerely

Kim Wissman Executive Director

Ohio Power Siting Board

(614) 466-6692

ContactOPSB@puc.state.oh.us

EXHIBIT

AEP-12

OPSB STAFF REPORT OF INVESTIGATION

Case Number:	14-0591-EL-BLN			
Project Name:	Carroll County Energy 345 kV Interconnection			
Project Location:	Carroll County, Ohio			
Applicant:	Carroll County Energy, LLC			
Application Filing Date:	April 17, 2014			
Filing Type:	Expedited Letter of Notification			
Inspection Date:	April 30, 2014			
Report Date:	May 6, 2014			
Automatic Approval Date:	May 16, 2014			
Applicant's Waiver Requests:	none			
Staff Assigned:	D. Rostofer, J. O'Dell			
Summary of Staff Recommendations (see discussion below):				
Application: Approval Disapproval Approval with Conditions				
Waiver: Approval Disapproval Not Applicable				

Project Description

Carroll County Energy, LLC (CCE) proposes to construct a 0.45 mile 345 kilovolt (kV) electric transmission line that would connect the proposed CCE Generation Facility¹ to the American Electric Power Company (AEP) Tidd to Canton Central 345 kV electric transmission line. The project would include 1) the bifurcation of the AEP Tidd to Canton Central 345 kV electric transmission line into the Tidd to CCE Segment and the Canton to CCE Segment; 2) adding two cut-in structures within AEP right-of-way; 3) adding six new single-phase monopole transition structures within the AEP right-of-way; 4) connecting both the Tidd to CCE Segment and the Canton to CCE Segment to the new transition structures within the AEP right-of-way; 5) adding four new double-circuit steel monopole structures within the CCE right-of-way; and 6) extending the Tidd to CCE Segment and the Canton to CCE Segment from the transition structures within the AEP right-of-way to the CCE switchyard via double-circuit steel monopole structures. Construction is expected to begin in February 2015, and the line is scheduled to be in-service June 2016.

Site Description

The project is located approximately three miles north of Carrollton, entirely within Washington Township, Carroll County, Ohio. The route would extend from the AEP Tidd to Canton Central 345 kV electric transmission line right-of-way 0.45-miles east across SR 9 (Kensington Road NE) to the CCE switchyard. CCE has secured an option agreement to construct the project. Land

¹ The CCE Generation Facility was certificated by the OPSB on April 28, 2014 (Case No. 13-1752-EL-BGN).

use along the route and surrounding properties is primarily agricultural. Staff recommends that CCE be required to coordinate all traffic related issues with the appropriate entities to ensure that traffic will be maintained along public roadways and private drives during construction.

Need

The CCE Generation Facility will generate energy to meet regional demand and must be connected to the transmission grid in order to provide that energy to market. The PJM Interconnection System Impact Study completed for the generation facility in October 2013 (2013 CCE SIS) confirmed that a 345 kV line extension is necessary to loop the generation facility into the grid.

Nature of Impacts

Social 5

A Phase I archaeological investigation identified three cultural finds, none of which possessed significant archaeological value. The Applicant would avoid all archaeological resources during construction.

A Historic Architecture Survey was also conducted. No landmarks or historic structures are located within the study area of this project and the project would not significantly influence the overall viewscape of historical structures within five miles of the project area.

Surface Waters

The electric transmission line right-of-way contains four primary headwater streams. No pole structures would be located within the 100-year flood zones of these streams. The right-of-way also contains three wetlands. None of these wetlands were scored as high quality wetlands (Category 2/3 or Category 3). All wetlands would be clearly staked prior to the commencement of any clearing in order to minimize incidental vehicle impacts. Stream and wetland impacts would be avoided by accessing pole locations from either side of the streams and/or wetlands, where practicable. No ponds are located within the project right-of-way, and the project will not traverse any conservation areas, scenic rivers, or recreation lands.

Staff recommends that CCE be required to develop a construction access plan, which will be incorporated into a final Stormwater Pollution Prevention Plan (SWPPP). The access plan should consider location of streams, wetlands, wooded areas, and sensitive plant species, as identified by the Ohio Division of Wildlife and explain how impacts to all sensitive resources would be avoided or minimized during construction, operation, and maintenance of the facility.

CCE would utilize best management practices (BMPs) to minimize impacts to surface waters. Appropriate BMPs would be outlined in the SWPPP, and a copy would be provided to Staff. The Applicant plans to submit a Notice of Intent for coverage under the Ohio EPA General National Pollutant Discharge Elimination System Permit. Coverage under the U.S. Army Corps of Engineers (USACE) Nationwide Permit 18 is not required. However, CCE would discuss this project in the USACE Pre-construction Notification for the generation facility.

Threatened and Endangered Species

The federal and state endangered Indiana bat (Myotis sodalis) and its suitable habitat may be found in the project area. In order to reduce or avoid impacts to the Indiana bat, CCE has committed to adherence to seasonal tree cutting dates of October 1 to March 31 for the clearing of trees that exhibit suitable Indiana bat summer habitat.

Conclusion

With the following conditions, the construction of this project should pose only minimal negative social and ecological impacts. Staff recommends automatic approval of this case on May 16, 2014.

Conditions

- Prior to construction, the Applicant shall obtain all applicable permits and authorizations
 as required by federal and state entities for any activities where such permit or
 authorization is required;
- 2. The Applicant shall conduct a pre-construction conference(s) prior to the start of any project work (including any vegetation clearing), which the Staff shall attend, to discuss how environmental concerns will be satisfactorily addressed;
- 3. At least 30 days before the pre-construction conference, the Applicant shall submit to the Staff, for review and approval, a project construction access plan. This plan shall include all laydown areas, residential and environmentally sensitive area access points (walk in locations only), and any locations where vegetation clearing is required. The plan shall consider the location of residential fencing, private structures, streams, wetlands, wooded areas, conservation easement areas, and park lands;
- 4. The Applicant shall not conduct mechanized clearing within 25 feet of any stream channel and;
- The Applicant shall coordinate all traffic related issues with the appropriate entities to
 ensure that traffic will be maintained along public roadways and private drives during
 construction.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

5/6/2014 2:43:26 PM

in

Case No(s). 14-0591-EL-BLN

Summary: Report of investigation electronically filed by Mr. Adam S Bargar on behalf of Staff of OPSB

2014 PJM Interconnection Queue Statistics Update

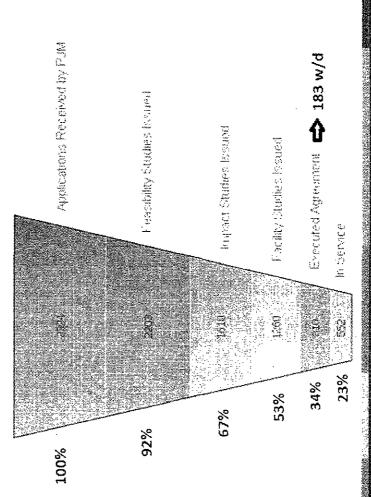
Presented by David Egan Manager, Interconnection Projects



www.pjm.con

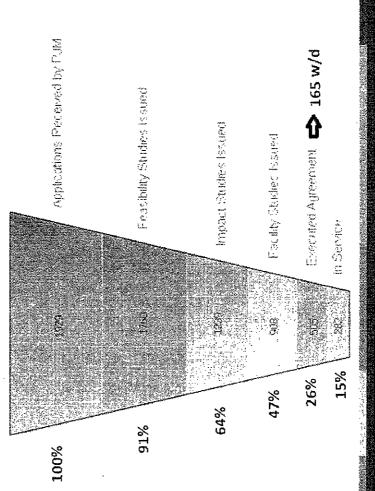
A through AA1 Queue Request (All) Progression

Generation Project Progression Excludes Active Projects Number of Projects



A through AA1 Queue Request (New) Progression

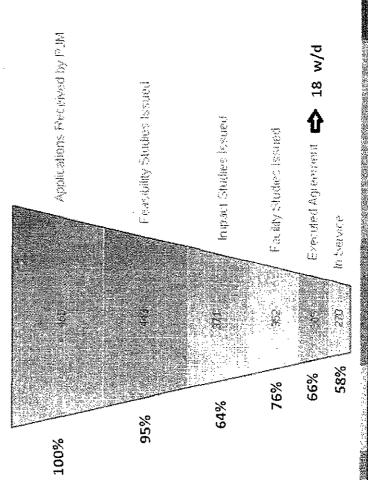
Generation Project Progression Excludes Active Projects Number of Projects



m

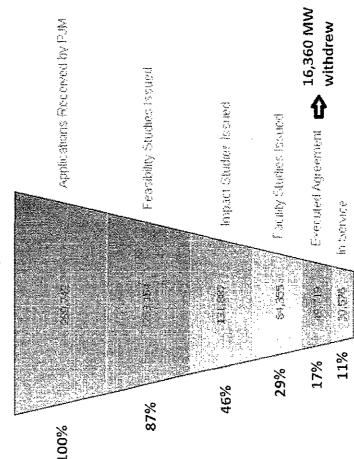
A through AA1 Queue Request (Upgrade) Progression

Generation Project Progression Excludes Active Projects Number of Projects



A through AA1 Queue MW (All) Progression

Generation Project Progression Excludes Active Projects Number of Projects

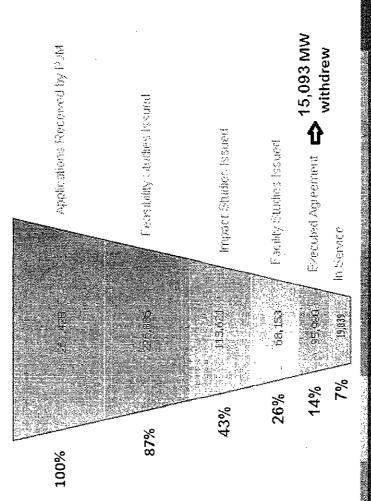


ĸ,



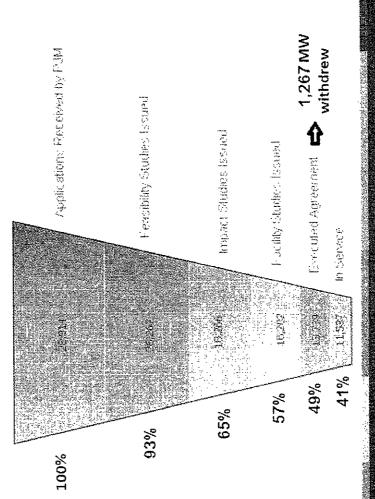
A through AA1 Queue MW (New) Progression

Generation Project Progression Excludes Active Projects Number of Projects



A through AA1 Queue MW (Upgrade) Progression

Generation Project Progression Excludes Active Projects Number of Projects



BEFORE THE OHIO POWER SITING BOARD

In the Matter of the Application of CLEAN)	
ENERGY FUTURE-LORDSTOWN, LLC for)	
a Certificate of Environmental Compatibility and)	Case No. 14-2322-EL-BGN
Public Need for an Electric Generating Facility in)	
Lordstown, Ohio, Trumbull County)	

DIRECT TESTIMONY OF

William Siderewicz

on behalf of

Clean Energy Future-Lordstown, LLC

July 31, 2015



1. Please state your name current title and business address.

My name is William Siderewicz and I am the president of Clean Energy Future-Lordstown, LLC. My business address is 24 Proctor Street, Manchester, Massachusetts 01944.

2. Please state your background.

I have thirty-five (35) years of experience representing equity ownership interest in the development, permitting, funding, construction, and operations of thirty-two (32) privately-owned power projects, having more than 11,500 MW of generation capacity. My experience has been primarily in the U.S., but also includes the international marketplace. My career has included the positions of: vice president of British Gas, Ltd.; senior vice president of Calpine Corporation; co-founder and co-owner of Pure Energy Resources, LLC; co-founder/owner and managing partner of Oregon Clean Energy, LLC; and most recently, president of Clean Energy Future-Lordstown, LLC. I have been a participant in the Ohio Power Siting Board ("OPSB") process for the Oregon Clean Energy Center Project, a 960 MW electric generation combined-cycle project, that is currently under construction. I was also involved in the siting process for the Fremont Energy Center generation project which was certified about 10 years ago.

I have a B.S. in Civil Engineering (cum laude) from Merrimack College, an M.S. in Environmental Engineering from Cornell University, and an MBA in Finance from Northeastern University. In addition, I am a licensed professional engineer in Pennsylvania and New York.

3. What is the purpose of your pre-filed testimony?

23 My testimony will give background about the Application of Clean Energy Future— 24 Lordstown which I will refer to as the "Company."

4. Please provide the background concerning construction of the Lordstown Energy Center.

The Company will construct, own, and operate the Lordstown Energy Center, a natural gas-fired combined-cycle power plant (the "Project"). It will utilize proven Siemens H-class advanced gas turbines as well as a Siemens condensing steam turbine in a 2x2x1

combined-cycle configuration to generate electricity at a nominal plant output of 800 MW.

The proposed location for the Project consists of a rectangular-shaped parcel of land, totaling 17 acres. A 23.5-acre parcel located adjacent to and immediately south of the Project site will be used for temporary construction laydown; an approximately 4.5-acre parcel north of Henn Parkway is also planned for this same use plus construction worker parking. In addition to the generation Project itself, the Application includes a new 5-breaker ringbus and a new transmission line from the proposed generation Project to the 5-breaker ringbus. A total of 182 acres were involved in this Application for the Facility and associated structures.

5. Please provide a little more detail about the transmission line and 5-breaker ringbus.

The Project will interconnect to two (2) American Transmission Systems, Inc. ("ATSI") existing 345-kilovolt ("kV") circuits; namely the Highland-Sammis and Highland-Mansfield circuits as noted in PJM's data for Project Z2-028. These two 345 kV circuits are located paralleled to each other and are approximately 3,700 feet east of the Project In order to facilitate this electrical interconnection, the facility design will incorporate a series of new metal poles to carry the Project's conductors from the generators (3) to the new 5-breaker ringbus. A pathway will be cleared at a width of about 100 feet to accommodate the new poles/lines. In order for the Project's lines to reach the new switchyard, they must pass underneath two sets of parallel ATSI circuits one at 345 kV and the other at 138 kV. The 345 kV circuit is suspended from new single metal poles (170 feet tall). The 138 kV circuit is suspended from older-style truss towers and its associated transmission lines are lower to the ground than the neighboring 345 kV lines. In order for the Project's new 345 kV lines to reach the 5-breaker ringbus, ATSI will need to "lift" the lines of the 138 kV circuit by installing new towers/poles at or near the point of crossing. Additional analysis is now underway to also assess the 345 kV clearance adequately.

The Company is now working jointly and cooperatively with ATSI to establish the parameters for crossing under ATSI's 345/138 kV circuits. In addition, ATSI is

30 31

32

33

34

35

36 37

38

39

40

41 42

43

44

45

46

47

48

49

50

51

52

53

54

55 56

57

determining the schedule and design/cost needs to "lift" its circuits. The Company will reimburse ATSI for all of its costs for "lifting" its lines. This reimbursement requirement will be documented in the eventual Interconnection Construction Service Agreement ("ICSA") that will be executed between: PJM, ATSI, and the Company, prior to financial closing for the Lordstown Project.

The new 345 kV lines and associate poles will be designed, financed, constructed, owned, and operated by the Company. These new 345 kV lines terminate at the new 5-breaker ringbus.

6. Please provide a little more detail about the new 5-breaker ringbus.

Once the Project's 345 kV conductors reach the area of ATSI's Highland-Sammis and Highland-Mansfield circuits, they will be connected to a new 5-breaker ringbus. The design features of the 5-breaker ringbus will be specified in the Facilities Study developed by PJM/ATSI. The eventual Interconnection Service Agreement ("ISA") and the ICSA will define the responsibilities, terms, and conditions associated with the new 5-breaker ringbus.

The Company has elected to self-build the 5-breaker ringbus, taking full EPC responsibility for this system while utilizing only ATSI-approved engineers and contractors. It is expected that the new switchyard will require about four to six acres of land. The Company has access to and/or controls of well over 48 acres of land near the two (2) targeted ATSI interconnect circuits. The Company will survey and subdivide the land needed for the 5-breaker ringbus. Once the switchyard is completed and operational, the Company will convey the land and switchyard to ATSI, at no cost.

ATSI will then own and maintain the switchyard. In order to access the switchyard for maintenance, the Company will build a new access road from the most northerly end of Goldner Lane to the switchyard, while granting ATSI a perpetual easement to use the access road.

ATSI will have the responsibility to cut their two (2) 345 kV circuits and "loop" them into the new switchyard. ATSI will assume the engineering and construction responsibility to complete this looping that will be paid for by the Company.

7. Do you have a request or recommendation for the transfer process to ATSI?

Yes, I request and recommend that the Board follow the same procedure that it used in the Oregon amendment case (Case No. 14-1394-EL-BGA issued on October 27, 2014) where the Board, in its order, directed that the Applicant could transfer to ATSI the substation and land when it was built, so long as they informed the Board when the transfer occurred.

8. Does the Company plan to enlarge the output of the generating plant in the future?

Yes, the facility has an existing built-in ability to generate additional output above the base case amount of 800 MW. We have made application to PJM for an additional 140 megawatts and have a queue position, #AB1-017. This incremental output can occur without any changes to the existing Project's equipment, or the addition of new equipment, beyond what was included and described in the Application. Once PJM has completed the Facilities Study stage (anticipated for this class of applicants in October 2016), the Company plans to file an amendment to increase the capacity of this Project to 940 MW.

9. How long have you been engaged in the development process for this Project?

The idea of a northeast Ohio gas-fired generation facility was first originated in early 2013. It became evident from data made available via PJM, that numerous older coal-fired power plants in the greater Cleveland area, eastern Ohio and far western Pennsylvania would be closing in the coming years. Examples of such coal plant closures are: Niles, Ashtabula, Lake Shore, and Eastlake. The cumulative generating capacity of these plants was significant.

Within northeast Ohio there are about 4,000,000 people, or ½ of Ohio's population. The cumulative residential, commercial, and industrial need for electricity from this number of people is very significant, as noted in FERC Form 1 data. With the closure of so many

regional coal plants, there is an obvious imbalance between electricity supply and demand. In the not too distant future, the only viable generation in northeast Ohio will be Perry Nuclear Plant (1,230 MW) and the West Lorain Peaker (545 MW). This is hardly enough generation to the meet the demands of northeast Ohio. Except for the Lordstown Project, there are no new gas fired facilities in the eastern half of ATSI's territory.

The Company identified fourteen (14) potential sites in northeast Ohio for a new large scale combined-cycle turbine generator plant. Each site was examined for: water supply, wastewater disposal, gas supply, ability to inject to the local grid, land availability, and political support for new power generation. After a careful examination of all possible options, it became obvious that Lordstown was the most viable site location. Land was secured, engineering and environmental analyses were completed, and a PJM interconnection queue application submitted in February 2014. Since that time, there has been continued engineering and design work completed. In addition, the Company was establishing a working relationship with the Village of Lordstown via its elected officials and department heads. Through a cooperative working relationship, it was established that the optimum site for a new generation facility in Lordstown was the Lordstown Industrial Park, a large-scale land parcel that was pre-zoned I-1 (industrial) along Route 45. The Company and Village have been working together now for about 16 months.

10. Did you encounter any objections to this Project from officials in the area?

Local officials have been very supportive of the Project. Early on during discussions, local officials independently contacted officials in Fremont, Ohio and Oregon, Ohio, where I have been involved in similar projects. On their own, these officials arranged for group visits to the Fremont Energy Center. The actual experience of a similar operating facility confirmed for them that the proposed Lordstown Project would be an acceptable and welcomed addition to the Village of Lordstown. On July 28, 2015 both the Lordstown Mayor and fire chief testified in support of this Project.

11. Did you review the Staff Report that was issued on July 13, 2015?

Yes.

12. Do you and Clean Energy Future-Lordstown accept the conditions in the Staff Report?

Yes.

13. Do you have any responses to testimony given at the local public hearing on July 28, 2015?

The Company was present during the July 28, 2015 hearing at the Lordstown High School. It was most impressive and rewarding to see and hear a unanimous (14-0) vote of confidence from such a diverse spectrum of individuals: elected officials, fire chief, teacher, school board, union labor leaders, local business managers, local citizen, etc. Within the Company's application to the OPSB it was established that the Project will have a positive \$1.45 billion benefit in the region. This impact does not include payments made to Dominion East Ohio (in Cleveland) to transport gas to the Project site or the purchase of Ohio-based shale gas. When these factors are considered, the complete economic benefit rises to \$13.8 billion, over the first 40 years of the plant's life.

When one considers the positive recommendation of the Staff Report and the overwhelming local support for the Project, we are hopeful that the OPSB will agree and grant permission for the Project to be built.

Due to an air conditioning malfunction at the Village Hall, the July 28, 2015 public hearing was moved to the Lordstown High School. There is a bit of irony here. On November 4, 2014, citizens of Lordstown were asked to vote to increase their own property tax to fund a Village school budget shortfall of about \$500,000/year. The vote failed to pass. With continued reductions in state and federal funding for schools, Lordstown was experiencing extraordinary financial pressures that threatened the very viability of the school system. However, on July 28, 2015, the Village spoke loudly and clearly that they want this Project to proceed. It is quite ironic that the Village citizens initially voted to not fund the school system in November 2014, but spoke clearly on July 28, 2015 at the High School within this same school system to proceed with the Project, to in effect, save the school system. One of the immediate positive benefits to the Village from the Project is a negotiated tax payment plan whereby the Project will

make payments to the Village school system to not only resolve the current financial deficit but place it on a plan to be operating in the "black." What better reward can this be that the Village expended no capital and yet gets to maintain and grow its school system to supply educational needs that will ensure a skilled and productive adult population for tomorrow. All of this benefit comes from a new gas fired power plant project that has additional key benefits including: grid reliability, low-cost energy and capacity while also exhibiting a cleaner and more environmentally favorable footprint (versus coal).

14. Do you have any further comments?

Yes, the first relates to the financing plan for the Project. The Lordstown Project is an Independent Power Production ("IPP") project and not a typical regulated utility capital project. When it comes to financing and constructing IPP projects versus regulated utility projects, each are at opposite ends of the spectrum when it comes to time sensitivity for raising capital and completing financial closing. For this Project, we are on track for a financial closing on October 12, 2015, and are currently raising about \$520 million of debt and \$400 million of equity. There are time pressures to stay on pace in order to: (i) avoid escalation of the Project's capital cost; (ii) meet the commercial operation date of June 1, 2018, which is predicated on an October 2015 start; (iii) avoid the severe penalties for being late with the commercial operation date when it comes to capacity commitments to PJM and gas fuel supply commitments in the fuel contract; (iv) avoid the potential for debt markets to experience interest rate increases, from current favorable levels; and (v) avoid the reduction in northeast Ohio grid reliability when the only generating plants in the greater Cleveland area will soon be Perry and West Lorain.

If the financial close for an IPP facility is delayed, the risk is that the added costs/burdens rapidly make the Project non-viable. The net result is that two years of development is wasted, the Village of Lordstown and the Valley region obtain none of the described economic benefits. In addition, low-cost electricity is foregone and regional grid reliability remains low. IPP projects have this timing consideration that regulated utilities do not have. In a classical utility financing model, any added costs/burdens of delay

simply become new added construction costs and are passed through to the ratepayer. Having in-region generation and maintaining grid reliability are two (2) important goals that were most recently identified by ATSI's new CEO, Mr. Chuck Jones as noted in an *Akron Beacon Journal* article dated March 21, 2015 by Betty Lin-Fisher (Attachment 1). The Lordstown Project is the only near-term solution for meeting these important goals in the greater Cleveland region.

If the order for the Lordstown Project is delayed, and in turn, financial closing is delayed to the point that the Lordstown Project fails, the electricity needs of northeast Ohio will need to be met by imported power versus on-the-ground generation. This imported power will come from competing new gas-fired CCGT projects in: Pennsylvania, West Virginia, Kentucky, Michigan and/or Indiana. The net result would be low system reliability in Ohio (due to less in-state generation) and the loss of the positive multibillion dollar economic benefits that the Lordstown Project brings to northeast Ohio, including hundreds of jobs over a three-year construction period. In effect, the delay in issuance of an order to proceed results in the worse-case scenario on two important fronts: loss of both grid reliability and in-state economic benefits.

In order for the Project to meet its October 2015 closing date, it would be necessary that the normal 30-day waiting period for appeal of an eventual order conclude by the end of September 2015. Looking backward from September, the issuance of an order would need to occur sometime in August 2015.

The second comment relates to the favorable nature of the Lordstown Project that directly relates to my first comment, on timing of an order. It should be noted that this Project is virtually identical to the gas fired project approved for Oregon, Ohio (Case No. 12-2959-EL-BGN order issued on May 1, 2013); namely a 2x2x1 CCGT configuration, Siemens H-class GTs, same emission controls, a wet cooling tower and a double circuit 345 kV interconnection. There are no new technological considerations for Lordstown versus Oregon. In addition, on July 28, 2015, public testimony was 14-0 in favor of the Lordstown Project, including testimony by Lordstown's mayor, Mr. Hill. Lastly, the Company has accepted the terms associated with the Staff's positive recommendation for

the Project. It would appear that little additional analysis would be required to reach a conclusion as to why the Lordstown Project should be approved.

Lastly I refer to the statement (Attachment 2) from Michael McCormick of Siemens Energy who explains how Siemens has met with representatives of union labor to work cooperatively with them on this Project. The Company has selected Siemens Energy to engineer, procure and construct ("EPC") this Project. It is our intent to fully engage and utilize the abundant and well-trained union labor of the Mahoning Valley to construct the Lordstown Project.

15. Does this conclude your testimony?

Yes, it does.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Testimony was served upon the following parties of record via regular or electronic mail this 31st day of July 2015.

Sally W. Bloomfield

Jally N Bloompule

Robert J. Schmidt, Jr.
L. Bradfield Hughes
Porter Wright Morris & Arthur, LLP
41 South High Street
Columbus, OH 43215
rschmidt@porterwright.com

Anne Rericha
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
arericha@firstenergycorp.com

Ryan O'Rouke Thomas Lindgren Assistant Attorneys General Public Utilities Section 180 East Broad Street, 6th Floor Columbus, OH 43215-3793 ryan.orourke@puc.state.oh.us thomas.lindgren@puc.state.oh.us

ATTACHMENT 1 AKRON BEACON JOURNAL ARTICLE MARCH 21, 2015

Ohio.com

S Click to Print

'Kid from Ellet' Chuck Jones ready to lead FirstEnergy

CEO Chuck Jones uses leadership rules as standards for job

By Betty Lin-Fisher Beacon Journal business writer



Published, March 21, 2015 - 11,40 PM

In 2012. FirstEnergy Corp.'s annual shareholder meetings became abruptly short.

Hundreds protesting the company's tax rate and other issues had been bused to headquarters downtown, then marched to the John S. Knight Center. There, for the first time ever, shareholders had to pass through metal detectors for the meeting.

But it was over in less than 10 minutes — no speeches or questions for then-President and CEO Tony Alexander. The next two annual meetings also were 12 and 16 minutes — one of which was moved to Morgantown, W.Va.

That is likely to change this spring.

Chuck Jones, 59, who took over as president and CEO on Jan. 1, said his team is working on his meeting speech.

"What I've said to my team is 'Look, you work it up for me. I want to see what we should say and then we'll go from there,' " Jones said.

And in his first conference call with Wall Street analysts, Jones said he "believes very strongly in transparent communications, whether to employees, customers, regulators or the financial community."

In a recent 60-minute interview in his Akron office, he added, "as long as you're diligent and you tell the truth, it's worked for me my whole life. I'm not going to change."

Office tells story

An engineer by training, Jones has an office peppered with sports memorabilia and family photos, mostly of his five grandchildren who call him "Grampy."

He's the father to three grown children and two step-children with his wife of 11 years, Kim, who worked for FirstEnergy for 28 years.

He enjoys cooking Sunday dinner for the family, and he can pull a bottle of wine from the wine cellar he built with his own woodworking skills.

Two family members work at the company: brother Jim Jones is a distribution technician for the Illuminating Co.; and daughter Carly Lange works for FirstEnergy's emergency management area.

FirstEnergy's hiring policy allows relatives to work for the company, as long as they are not direct reports.

The day Jones was named CEO, he received a chastising text from Lange that she read about his promotion first on her computer. "I said, 'You're an employee, not my daughter. I would have called you at 5:30," he told her.

Other office decor gives a sense of his engineering mind.

A framed photo of Thomas Edison is on the wall behind his desk chair. It was a gift a few years ago from his uncle, who displayed it in his office when he worked for General Electric.

Then there's the framed 8-by-10 paper with 10 "Leadership Rules of the Road" that has been with him since he attended the U.S. Naval Academy.

"I tell people that I'm responsible for leading. This is who Chuck is and this is how Chuck is going to lead. If you ever see me violate them, your job is to let me know," he said of the rules, which include "Be a person of integrity" and "Keep a sense of humor and be able to laugh at yourself."

"I put pressure on myself to lead the right way. They're constantly there as a reminder," Jones said.

Jones oversees a company that has grown from a home-town utility to become one of the nation's largest investorowned utilities. As of December, the Akron-based company had 15,557 employees in six states, with about 2,500 in Akron. Of those total employees, 49 percent are represented by a union.

Jones is the third home-grown CEO following Alexander and the late Pete Burg.

His base salary will be \$1.100.000, compared to Alexander's \$1,340,000. Alexander, 63, will retire at the end of April after 43 years.

Humble Eilet

"A kid from Ellet ended up in this position. But at Ellet, I got a good education, a good foundation and I had great teachers and great coaches. Coaches that didn't let athletes get too full of themselves. They taught you how to play hard and be humble at the same time."

Jones said he's told his employees "when you grow up 5 miles away, you care about the company maybe a little differently than an executive from California who may come here someday to run it."

The second of four boys born to Charles Sr. and Alice Jones, Chuck Jones played football, basketball and baseball.

He jokes that his basketball skills started out so poorly that when he, his dad, his older brother and a neighbor played in the driveway, "they would all argue on who had to take me on their team because I wasn't very good."

But Jones rose to the level of an Ail-City basketball player.

Joe Natoli was his eighth-grade English teacher and followed his career.

"He was an outstanding player," said Natoli, who retired 10 years ago and has served on the Akron City Council. "He was a class act from the get-go. ... Not only did he have the smarts, but he was very personable."

Jerry Feeman, a high school teammate and now a Summit County council member, spent summers riding bikes and playing basketball with Jones.

"He was mischievous, but in a quiet way," Feeman said.

Jones was a self-starter. Knowing that he would have to pay for college, he began at age 14 to write a letter every few months seeking an appointment to a military academy, targeting his congressman at the time, John Seiberling.

He included copies of his report cards and newspaper clippings, among them a story on his participation in the Beacon Journal's Spelling Bee (he missed the word "deluge").

He never heard back until his junior year, when he was called to Seiberling's office to meet with a review team. He was shown a file that was about 3 inches thick and told to "stop writing letters, you're fine, which one do you want to go to?"

He chose the U.S. Naval Academy since he dreamt of being a pilot.

When he showed up to the academy, he was asked "what kind of engineer do you want to be?" — something he hadn't considered.

"I just picked electrical engineering. I used to tear transistor radios apart because I couldn't afford to buy a new one." he said.

A change in his eyesight after two years at the academy ended his hopes of becoming a Navy pilot. He "kinda liked the engineering thing" but "didn't really enjoy shipboard life." so he left the academy.

No place at home

Jones' father was unhappy that he had left the academy and warned that if he returned to Akron, he'd have to make it on his own. In need of a job, Jones reached out to Herb Loewlein, head of the co-op program at Ohio Edison. They had met when Jones participated in the young Optimists group at school. Loewlein was the president of the Akron Optimists' Club.

That was in 1977. Jones worked for Ohio Edison for the two last years of college and never left. Meanwhile, he held other jobs, among them refereeing basketball and umpiring baseball and working for the city by sitting in a "little telephone booth freezing and waiting for people to come ice skate" at the downtown rink.

At Edison, now FirstEnergy, Jones moved through the ranks, relocating to Pennsylvania, Cleveland and back to Akron. Most recently, he was executive vice president and president of FirstEnergy Utilities, overseeing the company's 10 regulated distribution companies.

He also was the lead negotiator with Browns owner Jimmy Haslam in the \$102 million deal to rename the football facility FirstEnergy Stadium: Home of the Cleveland Browns.

He has been active in the community, chairing the Greater Akron Chamber, but more importantly, giving new life to the All-American Soapbox Derby in 2012.

"Chuck sought me out to tell me that FirstEnergy would be there when we had our act together and when we thought the time was right," said Bill Ginter, recent chair of the Soap Box Derby and a retired chief operating officer of Advanced Elastomer Systems. He also loaned FirstEnergy employees to help reorganize the derby's affairs.

Ginter said Jones' style will help FirstEnergy because he "has the unique ability to balance individual personal needs as well as organizational needs. That's a tough one to get."

Priorities

As for maintaining the balance, Jones has a challenge.

FirstEnergy's stakeholders are varied — investors, customers, employees, regulators and critics — and they often have disparate interests.

"I think you can please them all a little and move them all forward together. If you get out of balance and try to please anyone of them too much, then I think that causes stresses."

Power outages can be inconveniences or life-altering and can affect all aspects of the company. The company keeps the lights on 99.997 percent of the time, Jones said, but the average customer loses the lights about two hours a year.

That can be a big deal, as he learned from his mother at Easter dinner.

Following the massive blackout of 2003, which began in FirstEnergy's territory and shut down power to eight states and a part of Canada, FirstEnergy's reliability was being questioned, Jones said. His mother asked him why he couldn't keep her lights on, saying they went off "all the time."

He checked her records and found they had been out two times in five years. "In her brain, those two were a lot."

Can't 'take it personal'

Jones said the utility business is one that is judged on the exceptions and prone to criticism, but "if you're going to take it personal, you're in the wrong line of work."

"We're always going to have our detractors. It keeps us on our toes. I don't see it as a negative," he said.

Environmentalists have called a pending plan in front of the Public Utilities Commission of Ohio, asking state regulators to guarantee profits on a select number of power plants that might otherwise be decommissioned. a "bailout" for FirstEnergy.

Jones said, however, sees it as in the best interest of customers, because it guarantees that. "You will have plants in Ohio generating electricity that connects to the transmission grid in a way it ensures reliability."

As for his critics, they're watching closely

Daniel Sawmiller, senior campaign representative for Sierra Club's Ohio Beyond Coal campaign, said. "We take Mr. Jones at his word that he intends to run FirstEnergy in a new, more transparent way. Sierra Club looks forward to

working with him to ensure Ohio's continued transition away from obsolete energy sources like coal toward a clean energy future.

"Jones would prove his commitment to make the company's business more transparent by abandoning this doomed charade and engaging in open dialogue with stakeholders," he said.

The international president of a FirstEnergy union, which was part of a 20-week lockout about a year ago. said he is impressed. Shortly after Jones' appointment to CEO, he made a trip to Detroit, where the union is headquartered, to meet with leadership.

"I can't say anything negative because for the guy to have his first order of business be come out and sit down and talk about how to work collaboratively together and continue to have other scheduled discussions on safety issues, which is near and dear to us." said Mike Langford, international president of the Utility Workers Union of America.

Langford said time will tell, but "at least having an open dialogue and discussion" is "a great place to be instead of the opposite."

As for Jones, he said that in any negotiations, "if someone is high-fiving and saying they won, it wasn't a good negotiations. You need to find ways to find common ground on issues. I'm going to work very hard to find common ground both internally and with all our constituents."

Betty Lin-Fisher can be reached at 330-996-3724 or blinfisher@thebeaconjournal.com. Follow her @blinfisherABJ on Twitter or www.facebook.com/BettyLinFisherABJ and see all her stories at www.chio.com/betty

Find this article at:

http://www.ohio.com/news/local/kid-from-ellet-chuck-jones-ready-to-lead-firstenergy-1.577049

Click to Print

Copyright © 2014 Ohio.com

ATTACHMENT 2 TESTIMONY OF MR. MICHAEL MCCORMICK SIEMENS ENERGY

SIEMENS

Energy

To: Ohio Power Siting Board From: Michael F. McCormick

Date: July 27, 2015

Subj : Written Testimony for July 28, 2015

RE: Case No. 14-2322-EL-BGN

Siemens Energy will be the turnkey engineering, procurement and construction (EPC) contractor for the Lordstown Energy Center (LEC) Project. One of our responsibilities is to hire or contract for the on-the-ground team of construction workers to complete this planned electricity production facility.

LEC will be constructed primarily with a union labor force over a nearly three (3) year period. The major equipment components that make up the LEC Project (2 gas turbine generators and a steam turbine generator) are all made by Siemens Corp. and the rest of the equipment are provided by Siemens Corp. As part of our continuing service to the Project, we will complete the on-going maintenance and upkeep of this equipment. These services will be carried out by local union skilled labor forces.

As an international power generation equipment supplier, of both equipment and services, we have 100's of power generation units installed throughout the U.S. This equipment is uniquely designed and manufactured, and as a result Siemens has on-going contracts with owners of such equipment to provide routine maintenance, service and repair. In order to complete such services, we routinely hire local union labor to complete the work under our direction. As a result of these work efforts, Siemens Generation Services Company is one of the largest union millwright employers in the U.S.

Most recently, we hosted a meeting of union labor leaders to our Orlando office to discuss the terms and conditions under which we would engage the various unions for the LEC Project. These individuals included: Mr. Don Crane, Head of The Building Trades for the Lordstown area, Mr. Doug Banes, General Vice President of The United Brotherhood of Carpenters, Pile Drivers and Millwrights, and Mr. Dave Thart, Midwest Regional Vice President of the United Brotherhood of Carpenters, Pile Drivers and Millwrights. This negotiation process is on-going but to date, very productive. We are quite confident that given our long successful track record of working effectively with The Building Trades in the USA, that we'll be able to do the same here.

SIEMENS

Energy

We look forward to being a contributing party to this very exciting Project in Lordstown, and hope the OPSB will provide its approval for it to be built and operated.

Michael F. McCormick

Zuilet F. ZL

President – Siemens Generation Services Company

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

7/31/2015 1:58:23 PM

in

Case No(s). 14-2322-EL-BGN

Summary: Testimony of William Siderewicz on behalf of Clean Energy Future-Lordstown, LLC electronically filed by Teresa Orahood on behalf of Sally Bloomfield



COLUMBUS I CLEVELAND CINCINNATI-DAYTON MARIETTA

BRICKER & ECKLER LLP 100 South Third Street Columbus, OH 43215-4291 MAIN: 614.227.2300 FAX: 614.227.2390

www.bricker.com info@bricker.com

Sally W. Bloomfield 614,227,2368 sbloomfield@bricker.com September 29, 2015

Via Electronic Filing

Ms. Barcy McNeal Administration/Docketing Public Utilities Commission of Ohio 180 East Broad Street, 11th Floor Columbus, OH 43215-3793

Re: NTE Ohio, LLC, OPSB Case No. 14-534-EL-BGN

Dear Ms. McNeal:

The November 24, 2014, Opinion, Order, and Certificate ("Certificate") approving NTE Ohio, LLC ("NTE") Certificate of Environmental Compatibility and Public Need to Construct the Middletown Energy Center established a set of conditions as part of the Certificate. In addition to the conditions, the Board stated on page 20 that the NTE could not commence construction of the facility until it submitted a copy of an interconnection agreement with PJM Interconnection, L.C.C. ("PJM") that it had signed.

Attached to this letter is a copy of the PJM agreement, which has been signed by NTE.

If you have any questions please call at the number listed above.

Sincerely,

Sally W. Bloomfield

Attachment

cc: Grant Zeto (w/Attachment)

Jally IV Bloomputa

EXHIBIT

SC - 34

Original Service Agreement No. []
Effective Date: []

(PJM Queue #Z1-079)

INTERCONNECTION SERVICE AGREEMENT

Among

PJM INTERCONNECTION, L.L.C.

And

NTE OHIO, LLC

And

DUKE ENERGY BUSINESS SERVICES, LLC FOR DUKE ENERGY OHIO, INC

INTERCONNECTION SERVICE AGREEMENT

By and Among PJM Interconnection, L.L.C.

And NTE Ohio, LLC and

Duke Energy Business Services, LLC, for Duke Energy Ohio, Inc (PJM Queue Position #Z1-079)

- 1.0 Parties. This Interconnection Service Agreement ("ISA") including the Specifications. Schedules and Appendices attached hereto and incorporated herein, is entered into by and between PJM Interconnection, L.L.C., the Regional Transmission Organization for the PJM Region (hereinafter "Transmission Provider" or "PJM"), NTE Ohio, LLC ("Interconnection Customer") and Duke Energy Business Services, LLC, for Duke Energy Ohio, Inc ("Interconnected Transmission Owner"). All capitalized terms herein shall have the meanings set forth in the appended definitions of such terms as stated in Part I of the PJM Open Access Transmission Tariff ("Tariff").
- Authority. This ISA is entered into pursuant to Part VI of the Tariff. Interconnection 2.0 Customer has requested an Interconnection Service Agreement under the Tariff, and Transmission Provider has determined that Interconnection Customer is eligible under the Tariff to obtain this ISA. The standard terms and conditions for interconnection as set forth in Appendix 2 to this ISA are hereby specifically incorporated as provisions of this ISA. Transmission Provider, Interconnected Transmission Owner and Interconnection Customer agree to and assume all of the rights and obligations of the Transmission Provider, Interconnected Transmission Owner and Interconnection Customer, respectively, as set forth in Appendix 2 to this ISA.
- Customer Facility Specifications. Attached are Specifications for the Customer Facility 3.0 that Interconnection Customer proposes to interconnect with the Transmission System. Interconnection Customer represents and warrants that, upon completion of construction of such facilities, it will own or control the Customer Facility identified in section 1.0 of the Specifications attached hereto and made a part hereof. In the event that Interconnection Customer will not own the Customer Facility, Interconnection Customer represents and warrants that it is authorized by the owner(s) thereof to enter into this ISA and to represent such control.
- Effective Date. Subject to any necessary regulatory acceptance, this ISA shall become 4.0 effective on the date it is executed by all Interconnection Parties, or, if the agreement is filed with FERC unexecuted, upon the date specified by FERC. This ISA shall terminate on such date as mutually agreed upon by the parties, unless earlier terminated in accordance with the terms set forth in Appendix 2 to this ISA. The term of the ISA shall

be as provided in Section 1.3 of Appendix 2 to this ISA. Interconnection Service shall commence as provided in Section 1.2 of Appendix 2 to this ISA.

Security. In accord with Section 212.4 of the Tariff, Interconnection Customer shall provide the Transmission Provider (for the benefit of the Interconnected Transmission Owner) with a letter of credit from an agreed provider or other form of security reasonably acceptable to the Transmission Provider and that names the Transmission Provider as beneficiary ("Security") in the amount of \$ 12,560,299. This amount represents the sum of the estimated Costs, determined in accordance with Sections 212 and 217 of the Tariff, for which the Interconnection Customer will be responsible, less any Costs already paid by Interconnection Customer. Interconnection Customer acknowledges that its ultimate cost responsibility in accordance with Section 217 of the Tariff will be based upon the actual Costs of the facilities described in the Specifications, whether greater or lesser than the amount of the payment security provided under this section.

Should Interconnection Customer fail to provide security at the time the Interconnection Customer executes this ISA, or, if deferred, by the end of the 120-day period, this ISA shall be terminated.

- 6.0 Project Specific Milestones. In addition to the milestones stated in Section 212.5 of the Tariff, as applicable, during the term of this ISA, Interconnection Customer shall ensure that it meets each of the following development milestones:
- 6.1 Substantial Site work completed. On or before June 1, 2016 Interconnection Customer must demonstrate completion of at least 20% of project site construction. At this time, Interconnection Customer must submit to Interconnected Transmission Owner and Transmission Provider initial drawings, certified by a professional engineer, of the Customer Interconnection Facilities.
- 6.2 Delivery of major electrical equipment. On or before March 1, 2017, Interconnection Customer must demonstrate that two generating units have been delivered to Interconnection Customer's project site.
- 6.3 Commercial Operation. (i) On or before June 1, 2018, Interconnection Customer must demonstrate commercial operation of two generating units. Demonstrating commercial operation includes achieving Initial Operation in accordance with Section 1.4 of Appendix 2 to this ISA and making commercial sales or use of energy, as well as, if applicable, obtaining capacity qualification in accordance with the requirements of the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region.
- 6.4 Within one (1) month following commercial operation of generating unit(s), Interconnection Customer must provide certified documentation demonstrating that "asbuilt" Customer Facility and Customer Interconnection Facilities are in accordance with applicable PJM studies and agreements. Interconnection Customer must also provide

PJM with "as-built" electrical modeling data or confirm that previously submitted data remains valid.

Interconnection Customer shall demonstrate the occurrence of each of the foregoing milestones to Transmission Provider's reasonable satisfaction. Transmission Provider may reasonably extend any such milestone dates, in the event of delays that Interconnection Customer (i) did not cause and (ii) could not have remedied through the exercise of due diligence. The milestone dates stated in this ISA shall be deemed to be extended coextensively with any suspension of work initiated by Interconnection Customer in accordance with the Interconnection Construction Service Agreement.

- 7.0 Provision of Interconnection Service. Transmission Provider and Interconnected Transmission Owner agree to provide for the interconnection to the Transmission System in the PJM Region of Interconnection Customer's Customer Facility identified in the Specifications in accordance with Part IV and Part VI of the Tariff, the Operating Agreement of PJM Interconnection, L.L.C. ("Operating Agreement"), and this ISA, as they may be amended from time to time.
- 8.0 Assumption of Tariff Obligations. Interconnection Customer agrees to abide by all rules and procedures pertaining to generation and transmission in the PJM Region, including but not limited to the rules and procedures concerning the dispatch of generation or scheduling transmission set forth in the Tariff, the Operating Agreement and the PJM Manuals.
- 9.0 Facilities Study. In analyzing and preparing the Facilities Study, and in designing and constructing the Attachment Facilities. Local Upgrades and/or Network Upgrades described in the Specifications attached to this ISA, Transmission Provider, the Interconnected Transmission Owner(s), and any other subcontractors employed by Transmission Provider have had to, and shall have to, rely on information provided by Interconnection Customer and possibly by third parties and may not have control over the accuracy of such information. Accordingly, NEITHER TRANSMISSION PROVIDER, THE INTERCONNECTED TRANSMISSION OWNER(s), NOR ANY OTHER SUBCONTRACTORS EMPLOYED BY TRANSMISSION PROVIDER OR INTERCONNECTED TRANSMISSION OWNER MAKES ANY WARRANTIES. EXPRESS OR IMPLIED, WHETHER ARISING BY OPERATION OF LAW, COURSE OF PERFORMANCE OR DEALING, CUSTOM, USAGE IN THE TRADE OR PROFESSION, OR OTHERWISE, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE ACCURACY, CONTENT, OR CONCLUSIONS OF THE FACILITIES STUDY OR THE SYSTEM IMPACT STUDY IF A FACILITIES STUDY WAS NOT REQUIRED OR OF THE ATTACHMENT FACILITIES, THE LOCAL UPGRADES AND/OR THE NETWORK UPGRADES, PROVIDED, HOWEVER, that Transmission Provider warrants that the Transmission Owner Interconnection Facilities and any Merchant Transmission Upgrades described in the Specifications will be designed and constructed (to the extent that Interconnected Transmission Owner is responsible for design and construction thereof) and operated in

accordance with Good Utility Practice, as such term is defined in the Operating Agreement. Interconnection Customer acknowledges that it has not relied on any representations or warranties not specifically set forth herein and that no such representations or warranties have formed the basis of its bargain hereunder.

10.0 Construction of Transmission Owner Interconnection Facilities

- 10.1. Cost Responsibility. Interconnection Customer shall be responsible for and shall pay upon demand all Costs associated with the interconnection of the Customer Facility as specified in the Tariff. These Costs may include, but are not limited to, an Attachment Facilities charge, a Local Upgrades charge, a Network Upgrades charge and other charges, as well as Costs of any Merchant Network Upgrades constructed on behalf of Interconnection Customer. A description of the facilities required and an estimate of the Costs of these facilities are included in Sections 3.0 and 4.0 of the Specifications to this ISA.
- 10.2. Billing and Payments. Transmission Provider shall bill the Interconnection Customer for the Costs associated with the facilities contemplated by this ISA, estimates of which are set forth in the Specifications to this ISA, and the Interconnection Customer shall pay such Costs, in accordance with Section 11 of Appendix 2 to this ISA and the applicable Interconnection Construction Service Agreement. Upon receipt of each of Interconnection Customer's payments of such bills, Transmission Provider shall reimburse the applicable Interconnected Transmission Owner. Pursuant to Section 212.4 of the Tariff, Interconnection Customer requests that Transmission Provider provide a quarterly cost reconciliation:

<u>X</u>	Yes
	No

- 10.3. Contract Option. In the event that the Interconnection Customer and Interconnected Transmission Owner agree to utilize the Negotiated Contract Option provided by the Interconnection Construction Service Agreement to establish, subject to FERC acceptance, non-standard terms regarding cost responsibility, payment, billing and/or financing, the terms of Sections 10.1 and/or 10.2 of this Section 10.0 shall be superseded to the extent required to conform to such negotiated terms, as stated in a schedule attached to the parties' Interconnection Construction Service Agreement relating to interconnection of the Customer Facility.
- In the event that the Interconnection Customer elects to construct some or all of the Transmission Owner Interconnection Facilities and/or of any Merchant Network Upgrades under the Option to Build of the Interconnection Construction Service Agreement, billing and payment for the Costs associated with the facilities contemplated by this ISA shall relate only to such portion of the

Interconnection Facilities and/or any Merchant Network Upgrades as the Interconnected Transmission Owner is responsible for building.

11.0 Interconnection Specifications

- 11.1 Point of Interconnection. The Point of Interconnection shall be as identified on the one-line diagram attached as Schedule B to this ISA.
- 11.2 List and Ownership of Interconnection Facilities. The Interconnection Facilities to be constructed and ownership of the components thereof are identified in Section 3.0 of the Specifications attached to this ISA.
- 11.2A List and Ownership of Merchant Network Upgrades. If applicable, Merchant Network Upgrades to be constructed and ownership of the components thereof are identified in Section 3.0 of the Specifications attached to this ISA.
- 11.3 Ownership and Location of Metering Equipment. The Metering Equipment to be constructed, the capability of the Metering Equipment to be constructed, and the ownership thereof, are identified on the attached Schedule C to this ISA.
- 11.4 Applicable Technical Standards. The Applicable Technical Requirements and Standards that apply to the Customer Facility and the Interconnection Facilities are identified in Schedule D to this ISA.

12.0 Power Factor Requirement.

Consistent with Section 4.7 of Appendix 2 to this ISA, the power factor requirement is as follows:

The Interconnection Customer shall design its Customer Facility with the ability to maintain a power factor of at least 0.95 leading to 0.90 lagging measured at the generator's terminals.

- 13.0 Charges. In accordance with Sections 10 and 11 of Appendix 2 to this ISA, the Interconnection Customer shall pay to the Transmission Provider the charges applicable after Initial Operation, as set forth in Schedule E to this ISA. Promptly after receipt of such payments, the Transmission Provider shall forward such payments to the appropriate Interconnected Transmission Owner.
- 14.0 Third Party Beneficiaries. No third party beneficiary rights are created under this ISA, except, however, that, subject to modification of the payment terms stated in Section 10 of this ISA pursuant to the Negotiated Contract Option, payment obligations imposed on Interconnection Customer under this ISA are agreed and acknowledged to be for the benefit of the Interconnected Transmission Owner(s). Interconnection Customer expressly agrees that the Interconnected Transmission Owner(s) shall be entitled to take such legal recourse as it deems appropriate against Interconnection Customer for the

payment of any Costs or charges authorized under this ISA or the Tariff with respect to Interconnection Service for which Interconnection Customer fails, in whole or in part, to pay as provided in this ISA, the Tariff and/or the Operating Agreement.

- 15.0 Waiver. No waiver by either party of one or more defaults by the other in performance of any of the provisions of this ISA shall operate or be construed as a waiver of any other or further default or defaults, whether of a like or different character.
- 16.0 Amendment. This ISA or any part thereof, may not be amended, modified, or waived other than by a written document signed by all parties hereto.
- 17.0 Construction With Other Parts Of The Tariff. This ISA shall not be construed as an application for service under Part II or Part III of the Tariff.
- 18.0 Notices. Any notice or request made by either party regarding this ISA shall be made, in accordance with the terms of Appendix 2 to this ISA, to the representatives of the other party and as applicable, to the Interconnected Transmission Owner(s), as indicated below:

Transmission Provider:

PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon. PA 19403

Interconnection Customer:

NTE Ohio LLC 24 Cathedral Place Suite 300 St. Augustine, FL 32084 Attn: T.R. Eves

Interconnected Transmission Owner:

Duke Energy Business Services, LLC for Duke Energy Ohio, Inc. 139 East 4th Street EX670
Cincinnati, Ohio 45202
Attn: Tim Abbott

AgreementNotices@duke-energy.com

19.0 Incorporation Of Other Documents. All portions of the Tariff and the Operating Agreement pertinent to the subject matter of this ISA and not otherwise made a part hereof are hereby incorporated herein and made a part hereof.

- 20.0 Addendum of Non-Standard Terms and Conditions for Interconnection Service. Subject to FERC approval, the parties agree that the terms and conditions set forth in Schedule F hereto are hereby incorporated herein by reference and be made a part of this ISA. In the event of any conflict between a provision of Schedule F that FERC has accepted and any provision of Appendix 2 to this ISA that relates to the same subject matter, the pertinent provision of Schedule F shall control.
- 21.0 Addendum of Interconnection Customer's Agreement to Conform with IRS Safe Harbor Provisions for Non-Taxable Status. To the extent required, in accordance with Section 24.1 of Appendix 2 to this ISA, Schedule G to this ISA shall set forth the Interconnection Customer's agreement to conform with the IRS safe harbor provisions for non-taxable status.
- 22.0 Addendum of Interconnection Requirements for all Wind or Non-synchronous Generation Facilities. To the extent required, Schedule H to this ISA sets forth interconnection requirements for a wind or non-synchronous generation facilities and is hereby incorporated by reference and made a part of this ISA.
- 23.0 Infrastructure security of electric system equipment and operations and control hardware and software is essential to ensure day-to-day reliability and operational security. All Transmission Providers, Interconnected Transmission Owners, market participants, and Interconnection Customers interconnected with electric systems are to comply with the recommendations offered by the President's Critical Infrastructure Protection Board and best practice recommendations from the electric reliability authority. All public utilities are expected to meet basic standards for electric system infrastructure and operational security, including physical, operational, and cyber-security practices.

IN WITNESS WHEREOF, Transmission Provider, Interconnection Customer and Interconnected Transmission Owner have caused this ISA to be executed by their respective authorized officials.

Printed name of signer: V. Nelson Peeler

SPECIFICATIONS FOR INTERCONNECTION SERVICE AGREEMENT

By and Among PJM INTERCONNECTION, L.L.C.

And NTE OHIO, LLC

And

DUKE ENERGY BUSINESS SERVICES, LLC, FOR DUKE ENERGY OHIO, INC.

(PJM Queue Position # Z1-079)

- 1.0 Description of generating unit(s) (the Customer Facility) to be interconnected with the Transmission System in the PJM Region:
 - a. Name of Customer Facility:

Middletown Energy Center

b. Location of Customer Facility:

Oxford State Road and Cincinnati Dayton Road, Middletown, Butler County, Ohio

c. Size in megawatts of Customer Facility:

For Generation Interconnection Customer:

Maximum Facility Output of 513 MW

d. Description of the equipment configuration:

The Facility will be a natural gas combined cycle facility utilizing one (1) combustion turbine generator (CTG) and one (1) steam turbine generator (STG).

2.0 Rights

2.1 Capacity Interconnection Rights:

Pursuant to and subject to the applicable terms of the Tariff, the Interconnection Customer shall have Capacity Interconnection Rights at the Point(s) of Interconnection specified in this Interconnection Service Agreement in the amount of 513 MW.

2.1a To the extent that any portion of the Customer Facility described in section 1.0 is not a Capacity Resource with Capacity Interconnection Rights, such portion of the Customer Facility shall be an Energy Resource. PJM reserves the right to limit total injections to the Maximum Facility Output in the event reliability would be affected by output greater than such quantity.

2.5 Incremental Auction Revenue Rights:

Pursuant to Section 231 of the Tariff, Interconnection Customer shall have Incremental Auction Revenue Rights in the following quantities: None

2.6 Incremental Capacity Transfer Rights:

Pursuant to Section 234 of the Tariff, Interconnection Customer shall have Incremental Capacity Transfer Rights between the following associated source(s) and sink(s) in the indicated quantities: None

- 3.0 Construction Responsibility and Ownership of Interconnection Facilities
 - a. Interconnection Customer.
 - (1) Interconnection Customer shall construct and, unless otherwise indicated, shall own, the following Interconnection Facilities:

345 kV line or bus from generator step-up connection bus to the substation bus at Garver

345 kV main air break disconnect and grounding switch

Two 345 kV line circuit breakers with air break disconnect and grounding switches on the high side of the generator step-up transformers

Two generator step up transformers with primary voltage of 345 kV

Protection and control equipment for transformers, breakers and switches

(2) In the event that, in accordance with the Interconnection Construction Service Agreement, Interconnection Customer has exercised the Option to Build, it is hereby permitted to build in accordance with and subject to the conditions and limitations set forth in that Section, the following portions (1) of the Transmission Owner Interconnection Facilities and/or (2) of any Merchant Network Upgrades which constitute or are part of the Customer Facility:

None

Ownership of the facilities built by Interconnection Customer pursuant to the Option to Build shall be as provided in the Interconnection Construction Service Agreement.

- b. Interconnected Transmission Owner
 - n4474: New 345 kV interconnection substation ("Garver Substation")
 - n4473: Loop line (Circuit 4515) through Garver substation;
 - n4251.1-13: Replace (13) 138 kV circuit breakers
 - n4251.14: Install reactors on the low sides of the three Todhunter 345-138 kV autotransformers:
 - n4254: Reconductor the DEO 138 kV Circuit 5680 and upgrade circuit 5680 terminal equipment
- c.. Appalachian Power Company ("AEP") (additional Transmission Owner)
 - n4259: Adjust Mountaineer relay trip limit or install new relay package on the Mountaineer - Belmont 765 kV line
- 4.0 Subject to modification pursuant to the Negotiated Contract Option and/or the Option to Build under the Interconnection Construction Service Agreement, Interconnection Customer shall be subject to the estimated charges detailed below, which shall be billed and paid in accordance with Appendix 2, Section 11 of this ISA and the applicable Interconnection Construction Service Agreement.
 - 4.1 Attachment Facilities Charge: \$8,366,280
 - 4.2 Network Upgrades Charge: \$ 11,723,671
 - 4.3 Local Upgrades Charge: \$ 0
 - 4.4 Other Charges: \$ 0
 - 4.5 Cost of Merchant Network Upgrades: \$ 0
 - 4.6 Cost breakdown:
 - \$ 5.204,960 Direct Labor
 - \$ 9.535,415 Direct Material
 - \$4,489,818 Indirect Labor
 - \$ 859,758 Indirect Material
 - \$ 20,089,951 Total
 - 4.7 Security Amount Breakdown:
 - \$11,723,671 Estimated Cost of Non-Direct Connection Local Upgrades and/or Non-Direct Connection Network Upgrades

- plus \$0. Estimated Cost of any Merchant Network Upgrades that Interconnected Transmission Owner is responsible for building
- plus \$ 836,628 Estimated cost of the work (for the first three months) on the required Attachment Facilities, Direct Connection Local Upgrades, and Direct Connection Network Upgrades
- plus \$ Option to Build Security for Attachment Facilities, Direct Connection Local Upgrades, and Direct Connection Network Upgrades (including Cancellation Costs)
- less \$ 0 Costs already paid by Interconnection Customer
 - \$ 12,560,299 Total Security required with ISA

APPENDICES:

- APPENDIX 1 DEFINITIONS
- APPENDIX 2 STANDARD TERMS AND CONDITIONS FOR INTERCONNECTIONS

SCHEDULES:

- SCHEDULE A CUSTOMER FACILITY LOCATION/SITE PLAN
- SCHEDULE B SINGLE-LINE DIAGRAM
- SCHEDULE C LIST OF METERING EQUIPMENT
- SCHEDULE D APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS
- SCHEDULE E SCHEDULE OF CHARGES
- SCHEDULE F SCHEDULE OF NON-STANDARD TERMS & CONDITIONS
- SCHEDULE G INTERCONNECTION CUSTOMER'S AGREEMENT TO CONFORM WITH IRS SAFE HARBOR PROVISIONS FOR NON-TAXABLE STATUS
- SCHEDULE H INTERCONNECTION REQUIREMENTS FOR A WIND GENERATION FACILITY

APPENDIX 1

DEFINITIONS

From the PJM Tariff accepted for filing by the Commission as of the effective date of this agreement

1. Definitions

1.01 Abnormal Condition:

Any condition on the Interconnection Facilities which, determined in accordance with Good Utility Practice, is: (i) outside normal operating parameters such that facilities are operating outside their normal ratings or that reasonable operating limits have been exceeded; and (ii) could reasonably be expected to materially and adversely affect the safe and reliable operation of the Interconnection Facilities; but which, in any case, could reasonably be expected to result in an Emergency Condition. Any condition or situation that results from lack of sufficient generating capacity to meet load requirements or that results solely from economic conditions shall not, standing alone, constitute an Abnormal Condition.

1.0A Affected System:

An electric system other than the Transmission Provider's Transmission System that may be affected by a proposed interconnection or on which a proposed interconnection or addition of facilities or upgrades may require modifications or upgrades to the Transmission System.

1.0A.01 Affiliate:

With respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

1.0B Affected System Operator:

An entity that operates an Affected System or, if the Affected System is under the operational control of an independent system operator or a regional transmission organization, such independent entity.

1.1 Ancillary Services:

Those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.

1.2 Annual Transmission Costs:

The total annual cost of the Transmission System for purposes of Network Integration Transmission Service shall be the amount specified in Attachment H for each Zone until amended by the applicable Transmission Owner or modified by the Commission.

1.2.01 Applicable Laws and Regulations:

All duly promulgated applicable federal, State and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority having jurisdiction over the relevant parties, their respective facilities, and/or the respective services they provide.

1.2A Applicable Regional Entity:

The Regional Entity for the region in which a Network Customer, Transmission Customer, Interconnection Customer, or Transmission Owner operates.

1.2B Applicable Standards:

The requirements and guidelines of NERC, the Applicable Regional Entity, and the Control Area in which the Customer Facility is electrically located; the PJM Manuals; and Applicable Technical Requirements and Standards.

1.2C Applicable Technical Requirements and Standards:

Those certain technical requirements and standards applicable to interconnections of generation and/or transmission facilities with the facilities of an Interconnected Transmission Owner or, as the case may be and to the extent applicable, of an Electric Distributor (as defined in Section 1.8 of the Operating Agreement), as published by Transmission Provider in a PJM Manual provided, however, that, with respect to any generation facilities with maximum generating capacity of 2 MW or less for which the Interconnection Customer executes a Construction Service Agreement or Interconnection Service Agreement on or after March 19, 2005, "Applicable Technical Requirements and Standards" shall refer to the "PJM Small Generator Interconnection Applicable Technical Requirements and Standards." All Applicable Technical Requirements and Standards shall be publicly available through postings on Transmission Provider's internet website.

1.3 Application:

A request by an Eligible Customer for transmission service pursuant to the provisions of the Tariff.

1.3A Attachment Facilities:

The facilities necessary to physically connect a Customer Facility to the Transmission System or interconnected distribution facilities.

1.3AA Attachment H:

Attachment H shall refer collectively to the Attachments to the PJM Tariff with the prefix "H-" that set forth, among other things, the Annual Transmission Rates for Network Integration Transmission Service in the PJM Zones.

1.3B Behind The Meter Generation:

Behind The Meter Generation refers to a generation unit that delivers energy to load without using the Transmission System or any distribution facilities (unless the entity that owns or leases the distribution facilities has consented to such use of the distribution facilities and such consent has been demonstrated to the satisfaction of the Office of the Interconnection); provided, however, that Behind The Meter Generation does not include (i) at any time, any portion of such generating unit's capacity that is designated as a Generation Capacity Resource; or (ii) in an hour, any portion of the output of such generating unit[s] that is sold to another entity for consumption at another electrical location or into the PJM Interchange Energy Market.

1.3BB Black Start Service:

Black Start Service is the capability of generating units to start without an outside electrical supply or the demonstrated ability of a generating unit with a high operating factor (subject to Transmission Provider concurrence) to automatically remain operating at reduced levels when disconnected from the grid.

1.3BB.01 Breach:

The failure of a party to perform or observe any material term or condition of Part IV or Part VI of the Tariff, or any agreement entered into thereunder as described in the relevant provisions of such agreement.

1.3BB.02 Breaching Party:

A party that is in Breach of Part IV or Part VI and/or an agreement entered into thereunder.

1.3BB.03 Cancellation Costs:

The Costs and liabilities incurred in connection with: (a) cancellation of supplier and contractor written orders and agreements entered into to design, construct and install Attachment Facilities, Direct Assignment Facilities and/or Customer-Funded Upgrades, and/or (b) completion of some or all of the required Attachment Facilities, Direct Assignment Facilities and/or Customer-Funded Upgrades, or specific unfinished portions and/or removal of any or all of such facilities which have been installed, to the extent required for the Transmission Provider and/or Transmission Owner(s) to perform their respective obligations under Part IV and/or Part VI of the Tariff.

1.3C Capacity Interconnection Rights:

The rights to input generation as a Generation Capacity Resource into the Transmission System at the Point of Interconnection where the generating facilities connect to the Transmission System.

1.3D Capacity Resource:

Shall have the meaning provided in the Reliability Assurance Agreement.

1.3E Capacity Transmission Injection Rights:

The rights to schedule energy and capacity deliveries at a Point of Interconnection (as defined in Section 1.33A) of a Merchant Transmission Facility with the Transmission System. Capacity Transmission Injection Rights may be awarded only to a Merchant D.C. Transmission Facility and/or Controllable A.C. Merchant Transmission Facilities that connects the Transmission System to another control area. Deliveries scheduled using Capacity Transmission Injection Rights have rights similar to those under Firm Point-to-Point Transmission Service or, if coupled with a generating unit external to the PJM Region that satisfies all applicable criteria specified in the PJM Manuals, similar to Capacity Interconnection Rights.

1.3F Commencement Date:

The date on which Interconnection Service commences in accordance with an Interconnection Service Agreement.

1.4 Commission:

The Federal Energy Regulatory Commission.

1.5 Completed Application:

An Application that satisfies all of the information and other requirements of the Tariff, including any required deposit.

1.5.01 Confidential Information:

Any confidential, proprietary, or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy, or compilation relating to the present or planned business of a New Service Customer, Transmission Owner, or other Interconnection Party or Construction Party, which is designated as confidential by the party supplying the information, whether conveyed verbally, electronically, in writing, through inspection, or otherwise, and shall include, without limitation, all information relating to the producing party's technology, research and development, business affairs and pricing, and any information supplied by any New Service Customer, Transmission Owner, or other Interconnection Party or Construction Party to another such party prior to the execution of an Interconnection Service Agreement or a Construction Service Agreement.

1.5A Consolidated Transmission Owners Agreement:

The certain Consolidated Transmission Owners Agreement dated as of December 15, 2005, by and among the Transmission Owners and by and between the Transmission Owners and PJM Interconnection, L.L.C.

1.5B Constructing Entity:

Either the Transmission Owner or the New Services Customer, depending on which entity has the construction responsibility pursuant to Part VI and the applicable Construction Service Agreement; this term shall also be used to refer to an Interconnection Customer with respect to the construction of the Customer Interconnection Facilities.

1.5C Construction Party:

A party to a Construction Service Agreement. "Construction Parties" shall mean all of the Parties to a Construction Service Agreement.

1.5D Construction Service Agreement:

Either an Interconnection Construction Service Agreement or an Upgrade Construction Service Agreement.

1.6 Control Area:

An electric power system or combination of electric power systems to which a common automatic generation control scheme is applied in order to:

- (1) match, at all times, the power output of the generators within the electric power system(s) and capacity and energy purchased from entities outside the electric power system(s), with the load within the electric power system(s):
- (2) maintain scheduled interchange with other Control Areas, within the limits of Good Utility Practice;
- (3) maintain the frequency of the electric power system(s) within reasonable limits in accordance with Good Utility Practice; and
- (4) provide sufficient generating capacity to maintain operating reserves in accordance with Good Utility Practice.

1.6A Control Zone:

Shall have the meaning given in the Operating Agreement.

1.6B Controllable A.C. Merchant Transmission Facilities:

Transmission facilities that (1) employ technology which Transmission Provider reviews and verifies will permit control of the amount and/or direction of power flow on such facilities to such extent as to effectively enable the controllable facilities to be operated as if they were direct

current transmission facilities, and (2) that are interconnected with the Transmission System pursuant to Part IV and Part VI of the Tariff.

1.6C Costs:

As used in Part IV, Part VI and related attachments to the Tariff, costs and expenses, as estimated or calculated, as applicable, including, but not limited to, capital expenditures, if applicable, and overhead, return, and the costs of financing and taxes and any Incidental Expenses.

1.6D Counterparty:

PJMSettlement as the contracting party, in its name and own right and not as an agent, to an agreement or transaction with a market participant or other customer.

1.7 Curtailment:

A reduction in firm or non-firm transmission service in response to a transfer capability shortage as a result of system reliability conditions.

1.7A Customer Facility:

Generation facilities or Merchant Transmission Facilities interconnected with or added to the Transmission System pursuant to an Interconnection Request under Subparts A of Part IV of the Tariff.

1.7A.01 Customer-Funded Upgrade:

Any Network Upgrade, Local Upgrade, or Merchant Network Upgrade for which cost responsibility (i) is imposed on an Interconnection Customer or an Eligible Customer pursuant to Section 217 of the Tariff, or (ii) is voluntarily undertaken by a market participant in fulfilment of an Upgrade Request pursuant to Section 7.8 of Schedule 1 of the Operating Agreement. No Network Upgrade, Local Upgrade or Merchant Network Upgrade or other transmission expansion or enhancement shall be a Customer-Funded Upgrade if and to the extent that the costs thereof are included in the rate base of a public utility on which a regulated return is earned.

1.7A.02 Customer Interconnection Facilities:

All facilities and equipment owned and/or controlled, operated and maintained by Interconnection Customer on Interconnection Customer's side of the Point of Interconnection identified in the appropriate appendices to the Interconnection Service Agreement and to the Interconnection Construction Service Agreement, including any modifications, additions, or upgrades made to such facilities and equipment, that are necessary to physically and electrically interconnect the Customer Facility with the Transmission System.

1.7B Daily Capacity Deficiency Rate:

Daily Capacity Deficiency Rate is as defined in Schedule 11 of the Reliability Assurance Agreement.

1.7C Deactivation:

The retirement or mothballing of a generating unit governed by Part V of this Tariff.

1.7D Deactivation Avoidable Cost Credit:

The credit paid to Generation Owners pursuant to section 114 of this Tariff.

1.7E Deactivation Avoidable Cost Rate:

The formula rate established pursuant to section 115 of this Tariff.

1.7F Deactivation Date:

The date a generating unit within the PJM Region is either retired or mothballed and ceases to operate.

1.7G Default:

As used in the Interconnection Service Agreement and Construction Service Agreement, the failure of a Breaching Party to cure its Breach in accordance with the applicable provisions of an Interconnection Service Agreement or Construction Service Agreement.

1.8 Delivering Party:

The entity supplying capacity and energy to be transmitted at Point(s) of Receipt.

1.9 Designated Agent:

Any entity that performs actions or functions on behalf of the Transmission Provider, a Transmission Owner, an Eligible Customer, or the Transmission Customer required under the Tariff.

1.9A Designated Entity:

"Designated Entity" shall have the same meaning provided in the Operating Agreement.

1.10 Direct Assignment Facilities:

Facilities or portions of facilities that are constructed for the sole use/benefit of a particular Transmission Customer requesting service under the Tariff. Direct Assignment Facilities shall

be specified in the Service Agreement that governs service to the Transmission Customer and shall be subject to Commission approval.

1.10A Economic-based Enhancement or Expansion:

"Economic-based Enhancement or Expansion" shall have the same meaning provided in the Operating Agreement.

1.10B Economic Minimum:

The lowest incremental MW output level a unit can achieve while following economic dispatch.

1.11 Eligible Customer:

- (i) Any electric utility (including any Transmission Owner and any power marketer), Federal power marketing agency, or any person generating electric energy for sale for resale is an Eligible Customer under the Tariff. Electric energy sold or produced by such entity may be electric energy produced in the United States, Canada or Mexico. However, with respect to transmission service that the Commission is prohibited from ordering by Section 212(h) of the Federal Power Act, such entity is eligible only if the service is provided pursuant to a state requirement that the Transmission Provider or Transmission Owner offer the unbundled transmission service, or pursuant to a voluntary offer of such service by a Transmission Owner.
- (ii) Any retail customer taking unbundled transmission service pursuant to a state requirement that the Transmission Provider or a Transmission Owner offer the transmission service, or pursuant to a voluntary offer of such service by a Transmission Owner, is an Eligible Customer under the Tariff. As used in Part VI, Eligible Customer shall mean only those Eligible Customers that have submitted a Completed Application.

1.11.01 Emergency Condition:

A condition or situation (i) that in the judgment of any Interconnection Party is imminently likely to endanger life or property; or (ii) that in the judgment of the Interconnected Transmission Owner or Transmission Provider is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Transmission System, the Interconnection Facilities, or the transmission systems or distribution systems to which the Transmission System is directly or indirectly connected; or (iii) that in the judgment of Interconnection Customer is imminently likely (as determined in a non-discriminatory manner) to cause damage to the Customer Facility or to the Customer Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions, provided that a Generation Interconnection Customer is not obligated by an Interconnection Service Agreement to possess black start capability. Any condition or situation that results from lack of sufficient generating capacity to meet load requirements or that results solely from economic conditions shall not constitute an Emergency Condition, unless one or more of the enumerated conditions or situations identified in this definition also exists.

1.11A Energy Resource:

A generating facility that is not a Capacity Resource.

1.11A.01 Energy Settlement Area:

The bus or distribution of busses that represents the physical location of Network Load and by which the obligations of the Network Customer to PJM are settled.

1.11B Energy Transmission Injection Rights:

The rights to schedule energy deliveries at a specified point on the Transmission System. Energy Transmission Injection Rights may be awarded only to a Merchant D.C. Transmission Facility that connects the Transmission System to another control area. Deliveries scheduled using Energy Transmission Injection Rights have rights similar to those under Non-Firm Point-to-Point Transmission Service.

1.11C Environmental Laws:

Applicable Laws or Regulations relating to pollution or protection of the environment, natural resources or human health and safety.

1.11D Existing Generation Capacity Resource:

Existing Generation Capacity Resource shall have the meaning specified in the Reliability Assurance Agreement.

1.12 Facilities Study:

An engineering study conducted by the Transmission Provider (in coordination with the affected Transmission Owner(s)) to determine the required modifications to the Transmission Provider's Transmission System, including the cost and scheduled completion date for such modifications, that will be required to provide the requested transmission service or to accommodate an Interconnection Request or Upgrade Request. As used in the Interconnection Service Agreement or Construction Service Agreement, Facilities Study shall mean that certain Facilities Study conducted by Transmission Provider (or at its direction) to determine the design and specification of the Interconnection Facilities necessary to accommodate the New Service Customer's New Service Request in accordance with Section 207 of Part VI of the Tariff.

1.12A Federal Power Act:

The Federal Power Act, as amended, 16 U.S.C. §§ 791a, et seq.

1.12B FERC:

The Federal Energy Regulatory Commission or its successor.

1.13 Firm Point-To-Point Transmission Service:

Transmission Service under this Tariff that is reserved and/or scheduled between specified Points of Receipt and Delivery pursuant to Part II of this Tariff.

1.13A Firm Transmission Withdrawal Rights:

The rights to schedule energy and capacity withdrawals from a Point of Interconnection (as defined in Section 1.33A) of a Merchant Transmission Facility with the Transmission System. Firm Transmission Withdrawal Rights may be awarded only to a Merchant D.C. Transmission Facility that connects the Transmission System with another control area. Withdrawals scheduled using Firm Transmission Withdrawal Rights have rights similar to those under Firm Point-to-Point Transmission Service.

1.13A.02 Generation Capacity Resource:

"Generation Capacity Resource" shall have the meaning specified in the Reliability Assurance Agreement.

1.13B Generation Interconnection Customer:

An entity that submits an Interconnection Request to interconnect a new generation facility or to increase the capacity of an existing generation facility interconnected with the Transmission System in the PJM Region.

1.13C Generation Interconnection Facilities Study:

A Facilities Study related to a Generation Interconnection Request.

1.13D Generation Interconnection Feasibility Study:

A study conducted by the Transmission Provider (in coordination with the affected Transmission Owner(s)) in accordance with Section 36.2 of this Tariff.

1.13E Generation Interconnection Request:

A request by a Generation Interconnection Customer pursuant to Subpart A of Part IV of the Tariff to interconnect a generating unit with the Transmission System or to increase the capacity of a generating unit interconnected with the Transmission System in the PJM Region.

1.13F Generation Owner:

An entity that owns or otherwise controls and operates one or more operating generating units in the PJM Region.

1.14 Good Utility Practice:

Any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region; including those practices required by Federal Power Act Section 215(a)(4).

1.14.01 Governmental Authority:

Any federal, state, local or other governmental, regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, arbitrating body, or other governmental authority having jurisdiction over any Interconnection Party or Construction Party or regarding any matter relating to an Interconnection Service Agreement or Construction Service Agreement, as applicable.

1.14.02 Hazardous Substances:

Any chemicals, materials or substances defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "hazardous constituents," "restricted hazardous materials," "extremely hazardous substances," "toxic substances," "radioactive substances," "contaminants," "pollutants," "toxic pollutants" or words of similar meaning and regulatory effect under any applicable Environmental Law, or any other chemical, material or substance, exposure to which is prohibited, limited or regulated by any applicable Environmental Law.

1.14A IDR Transfer Agreement:

An agreement to transfer, subject to the terms of Section 49B of the Tariff, Incremental Deliverability Rights to a party for the purpose of eliminating or reducing the need for Local or Network Upgrades that would otherwise have been the responsibility of the party receiving such rights.

1.14A.001 Immediate-need Reliability Project:

"Immediate-need Reliability Project" shall have the same meaning provided in the Operating Agreement.

1.14A.01 Incidental Expenses:

Shall mean those expenses incidental to the performance of construction pursuant to an Interconnection Construction Service Agreement, including, but not limited to, the expense of temporary construction power, telecommunications charges, Interconnected Transmission Owner

expenses associated with, but not limited to, document preparation, design review, installation, monitoring, and construction-related operations and maintenance for the Customer Facility and for the Interconnection Facilities.

1.14B Incremental Auction Revenue Rights:

The additional Auction Revenue Rights (as defined in Section 1.3.1A of Schedule 1 of the Operating Agreement), not previously feasible, created by the addition of Incremental Rights-Eligible Required Transmission Enhancements, Merchant Transmission Facilities, or of one or more Customer-Funded Upgrades.

1.14B.01 Incremental Rights-Eligible Required Transmission Enhancements:

Regional Facilities and Necessary Lower Voltage Facilities or Lower Voltage Facilities (as defined in Schedule 12 of the Tariff) and meet one of the following criteria: (1) cost responsibility is assigned to non-contiguous Zones that are not directly electrically connected; or (2) cost responsibility is assigned to Merchant Transmission Providers that are Responsible Customers.

1.14C Incremental Available Transfer Capability Revenue Rights:

The rights to revenues that are derived from incremental Available Transfer Capability created by the addition of Merchant Transmission Facilities or of one of more Customer-Funded Upgrades.

1.14D Incremental Deliverability Rights (IDRs):

The rights to the incremental ability, resulting from the addition of Merchant Transmission Facilities, to inject energy and capacity at a point on the Transmission System, such that the injection satisfies the deliverability requirements of a Capacity Resource. Incremental Deliverability Rights may be obtained by a generator or a Generation Interconnection Customer, pursuant to an IDR Transfer Agreement, to satisfy, in part, the deliverability requirements necessary to obtain Capacity Interconnection Rights.

1.14D.1 Incremental Multi-Driver Project:

"Incremental Multi-Driver Project" shall have the same meaning provided in the Operating Agreement.

1.14Da Initial Operation:

The commencement of operation of the Customer Facility and Customer Interconnection Facilities after satisfaction of the conditions of Section 1.4 of Appendix 2 of an Interconnection Service Agreement.

1.14Db Initial Study:

A study of a Completed Application conducted by the Transmission Provider (in coordination with the affected Transmission Owner(s)) in accordance with Section 19 or Section 32 of the Tariff.

1.14Dc Interconnected Entity:

Either the Interconnection Customer or the Interconnected Transmission Owner; Interconnected Entities shall mean both of them.

1.14D.01 Interconnected Transmission Owner:

The Transmission Owner to whose transmission facilities or distribution facilities Customer Interconnection Facilities are, or as the case may be, a Customer Facility is, being directly connected. When used in an Interconnection Construction Service Agreement, the term may refer to a Transmission Owner whose facilities must be upgraded pursuant to the Facilities Study, but whose facilities are not directly interconnected with those of the Interconnection Customer.

1.14D.02 Interconnection Construction Service Agreement:

The agreement entered into by an Interconnection Customer, Interconnected Transmission Owner and the Transmission Provider pursuant to Subpart B of Part VI of the Tariff and in the form set forth in Attachment P of the Tariff, relating to construction of Attachment Facilities, Network Upgrades, and/or Local Upgrades and coordination of the construction and interconnection of an associated Customer Facility. A separate Interconnection Construction Service Agreement will be executed with each Transmission Owner that is responsible for construction of any Attachment Facilities, Network Upgrades, or Local Upgrades associated with interconnection of a Customer Facility.

1.14E Interconnection Customer:

A Generation Interconnection Customer and/or a Transmission Interconnection Customer.

1.14F Interconnection Facilities:

The Transmission Owner Interconnection Facilities and the Customer Interconnection Facilities.

1.14G Interconnection Feasibility Study:

Either a Generation Interconnection Feasibility Study or Transmission Interconnection Feasibility Study.

1.14G.01 Interconnection Party:

Transmission Provider, Interconnection Customer, or the Interconnected Transmission Owner. Interconnection Parties shall mean all of them.

1.14H Interconnection Request:

A Generation Interconnection Request, a Transmission Interconnection Request and/or an IDR Transfer Agreement.

1.14H.01 Interconnection Service:

The physical and electrical interconnection of the Customer Facility with the Transmission System pursuant to the terms of Part IV and Part VI and the Interconnection Service Agreement entered into pursuant thereto by Interconnection Customer, the Interconnected Transmission Owner and Transmission Provider.

1.14I Interconnection Service Agreement:

An agreement among the Transmission Provider, an Interconnection Customer and an Interconnected Transmission Owner regarding interconnection under Part IV and Part VI of the Tariff.

1.14J Interconnection Studies:

The Interconnection Feasibility Study, the System Impact Study, and the Facilities Study described in Part IV and Part VI of the Tariff.

1.15 Interruption:

A reduction in non-firm transmission service due to economic reasons pursuant to Section 14.7.

1.15A List of Approved Contractors:

A list developed by each Transmission Owner and published in a PJM Manual of (a) contractors that the Transmission Owner considers to be qualified to install or construct new facilities and/or upgrades or modifications to existing facilities on the Transmission Owner's system, provided that such contractors may include, but need not be limited to, contractors that, in addition to providing construction services, also provide design and/or other construction-related services, and (b) manufacturers or vendors of major transmission-related equipment (e.g., high-voltage transformers, transmission line, circuit breakers) whose products the Transmission Owner considers acceptable for installation and use on its system.

1.16 Load Ratio Share:

Ratio of a Transmission Customer's Network Load to the Transmission Provider's total load.

1.17 Load Shedding:

The systematic reduction of system demand by temporarily decreasing load in response to transmission system or area capacity shortages, system instability, or voltage control considerations under Part II or Part III of the Tariff.

1.17A Local Upgrades:

Modifications or additions of facilities to abate any local thermal loading, voltage, short circuit, stability or similar engineering problem caused by the interconnection and delivery of generation to the Transmission System. Local Upgrades shall include:

- (i) Direct Connection Local Upgrades which are Local Upgrades that only serve the Customer Interconnection Facility and have no impact or potential impact on the Transmission System until the final tie-in is complete; and
- (ii) Non-Direct Connection Local Upgrades which are parallel flow Local Upgrades that are not Direct Connection Local Upgrades.

1.17B Long-lead Project:

"Long-lead Project" shall have the same meaning provided in the Operating Agreement.

1.18 Long-Term Firm Point-To-Point Transmission Service:

Firm Point-To-Point Transmission Service under Part II of the Tariff with a term of one year or more.

1.18A [RESERVED]

1.18A.01 [RESERVED]

1.18A.02 Material Modification:

Any modification to an Interconnection Request that has a material adverse effect on the cost or timing of Interconnection Studies related to, or any Network Upgrades or Local Upgrades needed to accommodate, any Interconnection Request with a later Queue Position.

1.18A.03 Maximum Facility Output:

The maximum (not nominal) net electrical power output in megawatts, specified in the Interconnection Service Agreement, after supply of any parasitic or host facility loads, that a Generation Interconnection Customer's Customer Facility is expected to produce, provided that the specified Maximum Facility Output shall not exceed the output of the proposed Customer Facility that Transmission Provider utilized in the System Impact Study.

1.18B Merchant A.C. Transmission Facilities:

Merchant Transmission Facilities that are alternating current (A.C.) transmission facilities, other than those that are Controllable A.C. Merchant Transmission Facilities.

1.18C Merchant D.C. Transmission Facilities:

Direct current (D.C.) transmission facilities that are interconnected with the Transmission System pursuant to Part IV and Part VI of the Tariff.

1.18D Merchant Network Upgrades:

Merchant A.C. Transmission Facilities that are additions to, or modifications or replacements of, physical facilities of the Interconnected Transmission Owner that, on the date of the pertinent Transmission Interconnection Customer's Interconnection Request, are part of the Transmission System or are included in the Regional Transmission Expansion Plan.

1.18E Merchant Transmission Facilities:

A.C. or D.C. transmission facilities that are interconnected with or added to the Transmission System pursuant to Part IV and Part VI of the Tariff and that are so identified on Attachment T to the Tariff, provided, however, that Merchant Transmission Facilities shall not include (i) any Customer Interconnection Facilities, (ii) any physical facilities of the Transmission System that were in existence on or before March 20, 2003; (iii) any expansions or enhancements of the Transmission System that are not identified as Merchant Transmission Facilities in the Regional Transmission Expansion Plan and Attachment T to the Tariff, or (iv) any transmission facilities that are included in the rate base of a public utility and on which a regulated return is earned.

1.18F Merchant Transmission Provider:

An Interconnection Customer that (1) owns, controls, or controls the rights to use the transmission capability of, Merchant D.C. Transmission Facilities and/or Controllable A.C. Merchant Transmission Facilities that connect the Transmission System with another control area, (2) has elected to receive Transmission Injection Rights and Transmission Withdrawal Rights associated with such facility pursuant to Section 36 of the Tariff, and (3) makes (or will make) the transmission capability of such facilities available for use by third parties under terms and conditions approved by the Commission and stated in the Tariff, consistent with Section 38 below.

1.18G Metering Equipment:

All metering equipment installed at the metering points designated in the appropriate appendix to an Interconnection Service Agreement.

1.18G.01 Multi-Driver Project:

"Multi-Driver Project" shall have the same meaning provided in the Operating Agreement.

1.19 Native Load Customers:

The wholesale and retail power customers of a Transmission Owner on whose behalf the Transmission Owner, by statute, franchise, regulatory requirement, or contract, has undertaken an obligation to construct and operate the Transmission Owner's system to meet the reliable electric needs of such customers.

1.19A NERC:

The North American Electric Reliability Council or any successor thereto.

1.19B Neutral Party:

Shall have the meaning provided in Section 9.3(v).

1.20 Network Customer:

An entity receiving transmission service pursuant to the terms of the Transmission Provider's Network Integration Transmission Service under Part III of the Tariff.

1.21 Network Integration Transmission Service:

The transmission service provided under Part III of the Tariff.

1.22 Network Load:

The load that a Network Customer designates for Network Integration Transmission Service under Part III of the Tariff. The Network Customer's Network Load shall include all load (including losses) served by the output of any Network Resources designated by the Network Customer. A Network Customer may elect to designate less than its total load as Network Load but may not designate only part of the load at a discrete Point of Delivery. Where an Eligible Customer has elected not to designate a particular load at discrete points of delivery as Network Load, the Eligible Customer is responsible for making separate arrangements under Part II of the Tariff for any Point-To-Point Transmission Service that may be necessary for such non-designated load.

1.23 Network Operating Agreement:

An executed agreement that contains the terms and conditions under which the Network Customer shall operate its facilities and the technical and operational matters associated with the implementation of Network Integration Transmission Service under Part III of the Tariff.

1.24 Network Operating Committee:

A group made up of representatives from the Network Customer(s) and the Transmission Provider established to coordinate operating criteria and other technical considerations required for implementation of Network Integration Transmission Service under Part III of this Tariff.

1.25 Network Resource:

Any designated generating resource owned, purchased, or leased by a Network Customer under the Network Integration Transmission Service Tariff. Network Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis, except for purposes of fulfilling obligations under a reserve sharing program.

1.26 Network Upgrades:

Modifications or additions to transmission-related facilities that are integrated with and support the Transmission Provider's overall Transmission System for the general benefit of all users of such Transmission System. Network Upgrades shall include:

- (i) Direct Connection Network Upgrades which are Network Upgrades that only serve the Customer Interconnection Facility and have no impact or potential impact on the Transmission System until the final tie-in is complete; and
- (ii) Non-Direct Connection Network Upgrades which are parallel flow Network Upgrades that are not Direct Connection Network Upgrades.

1.26A New PJM Zone(s):

The Zone included in this Tariff, along with applicable Schedules and Attachments, for Commonwealth Edison Company, The Dayton Power and Light Company and the AEP East Operating Companies (Appalachian Power Company, Columbus Southern Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company).

1.26B New Service Customers:

All customers that submit an Interconnection Request, a Completed Application, or an Upgrade Request that is pending in the New Services Queue.

1.26C New Service Request:

An Interconnection Request, a Completed Application, or an Upgrade Request.

1.26D New Services Queue:

All Interconnection Requests, Completed Applications, and Upgrade Requests that are received within each three-month period ending on January 31, April 30, July 31, and October 31 of each year shall collectively comprise a New Services Queue.

1.26E New Services Queue Closing Date:

Each January 31, April 30, July 31, and October 31 shall be the Queue Closing Date for the New Services Queue comprised of Interconnection Requests, Completed Applications, and Upgrade Requests received during the three-month period ending on such date.

1.26F Nominal Rated Capability:

The nominal maximum rated capability in megawatts of a Transmission Interconnection Customer's Customer Facility or the nominal increase in transmission capability in megawatts of the Transmission System resulting from the interconnection or addition of a Transmission Interconnection Customer's Customer Facility, as determined in accordance with pertinent Applicable Standards and specified in the Interconnection Service Agreement.

1.27 Non-Firm Point-To-Point Transmission Service:

Point-To-Point Transmission Service under the Tariff that is reserved and scheduled on an asavailable basis and is subject to Curtailment or Interruption as set forth in Section 14.7 under Part II of this Tariff. Non-Firm Point-To-Point Transmission Service is available on a standalone basis for periods ranging from one hour to one month.

1.27.01 Non-Firm Sale:

An energy sale for which receipt or delivery may be interrupted for any reason or no reason, without liability on the part of either the buyer or seller.

1.27A Non-Firm Transmission Withdrawal Rights:

The rights to schedule energy withdrawals from a specified point on the Transmission System. Non-Firm Transmission Withdrawal Rights may be awarded only to a Merchant D.C. Transmission Facility that connects the Transmission System to another control area. Withdrawals scheduled using Non-Firm Transmission Withdrawal Rights have rights similar to those under Non-Firm Point-to-Point Transmission Service.

1.27A.01 Nonincumbent Developer:

"Nonincumbent Developer" shall have the same meaning provided in the Operating Agreement.

1.27AA Non-Retail Behind The Meter Generation:

Behind the Meter Generation that is used by municipal electric systems, electric cooperatives, or electric distribution companies to serve load.

1.27B Non-Zone Network Load:

Network Load that is located outside of the PJM Region.

1.27C Office of the Interconnection:

Office of the Interconnection shall have the meaning set forth in the Operating Agreement.

1.28 Open Access Same-Time Information System (OASIS):

The information system and standards of conduct contained in Part 37 and Part 38 of the Commission's regulations and all additional requirements implemented by subsequent Commission orders dealing with OASIS.

1.28A Operating Agreement of the PJM Interconnection, L.L.C. or Operating Agreement:

That agreement dated as of April 1, 1997 and as amended and restated as of June 2, 1997 and as amended from time to time thereafter, among the members of the PJM Interconnection, L.L.C.

1.28A.01 Option to Build:

The option of the New Service Customer to build certain Customer-Funded Upgrades, as set forth in, and subject to the terms of, the Construction Service Agreement.

1.28B Optional Interconnection Study:

A sensitivity analysis of an Interconnection Request based on assumptions specified by the Interconnection Customer in the Optional Interconnection Study Agreement.

1.28C Optional Interconnection Study Agreement:

The form of agreement for preparation of an Optional Interconnection Study, as set forth in Attachment N-3 of the Tariff.

1.29 Part I:

Tariff Definitions and Common Service Provisions contained in Sections 2 through 12.

1.30 Part II:

Tariff Sections 13 through 27 pertaining to Point-To-Point Transmission Service in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.31 Part III:

Tariff Sections 28 through 35 pertaining to Network Integration Transmission Service in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.31A Part IV:

Tariff Sections 36 through 112 pertaining to generation or merchant transmission interconnection to the Transmission System in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.31B Part V:

Tariff Sections 113 through 122 pertaining to the deactivation of generating units in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.31C Part VI:

Tariff Sections 200 through 237 pertaining to the queuing, study, and agreements relating to New Service Requests, and the rights associated with Customer-Funded Upgrades in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.32 Parties:

The Transmission Provider as administrator of the Tariff, and the Transmission Customer receiving service under the Tariff. PJMSettlement shall be the Counterparty to Transmission Customers.

1.32.01 PJM:

PJM Interconnection, L.L.C.

1.32A PJM Administrative Service:

The services provided by PJM pursuant to Schedule 9 of this Tariff.

1.32B PJM Control Area:

The Control Area that is recognized by NERC as the PJM Control Area.

1.32C PJM Interchange Energy Market:

The regional competitive market administered by the Transmission Provider for the purchase and sale of spot electric energy at wholesale interstate commerce and related services, as more fully set forth in Attachment K – Appendix to the Tariff and Schedule 1 to the Operating Agreement.

1.32D PJM Manuals:

The instructions, rules, procedures and guidelines established by the Transmission Provider for the operation, planning, and accounting requirements of the PJM Region and the PJM Interchange Energy Market.

1.32E PJM Region:

Shall have the meaning specified in the Operating Agreement.

1.32F [RESERVED]

1.32.F.01 PJMSettlement:

PJM Settlement, Inc. (or its successor).

1.32G [RESERVED]

1.33 Point(s) of Delivery:

Point(s) on the Transmission Provider's Transmission System where capacity and energy transmitted by the Transmission Provider will be made available to the Receiving Party under Part II of the Tariff. The Point(s) of Delivery shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

1.33A Point of Interconnection:

The point or points, shown in the appropriate appendix to the Interconnection Service Agreement and the Interconnection Construction Service Agreement, where the Customer Interconnection Facilities interconnect with the Transmission Owner Interconnection Facilities or the Transmission System.

1.34 Point(s) of Receipt:

Point(s) of interconnection on the Transmission Provider's Transmission System where capacity and energy will be made available to the Transmission Provider by the Delivering Party under Part II of the Tariff. The Point(s) of Receipt shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

1.35 Point-To-Point Transmission Service:

The reservation and transmission of capacity and energy on either a firm or non-firm basis from the Point(s) of Receipt to the Point(s) of Delivery under Part II of the Tariff.

1.36 Power Purchaser:

The entity that is purchasing the capacity and energy to be transmitted under the Tariff.

1.36.01 PRD Curve:

PRD Curve shall have the meaning provided in the Reliability Assurance Agreement.

1.36.02 PRD Provider:

PRD Provider shall have the meaning provided in the Reliability Assurance Agreement.

1.36.03 PRD Reservation Price:

PRD Reservation Price shall have the meaning provided in the Reliability Assurance Agreement.

1.36.04 PRD Substation:

PRD Substation shall have the meaning provided in the Reliability Assurance Agreement.

1.36.05 Pre-Confirmed Application:

An Application that commits the Eligible Customer to execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service.

1.36A Pre-Expansion PJM Zones:

Zones included in this Tariff, along with applicable Schedules and Attachments, for certain Transmission Owners – Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power and Light Company, Jersey Central Power and Light Company, Metropolitan Edison Company, PECO Energy Company, Pennsylvania Electric Company, Pennsylvania Power & Light Group, Potomac Electric Power Company, Public Service Electric and Gas Company, Allegheny Power, and Rockland Electric Company.

1.36A.01 Price Responsive Demand:

Price Responsive Demand shall have the meaning provided in the Reliability Assurance Agreement.

1.36A.02 Project Financing:

Shall mean: (a) one or more loans, leases, equity and/or debt financings, together with all modifications, renewals, supplements, substitutions and replacements thereof, the proceeds of which are used to finance or refinance the costs of the Customer Facility, any alteration, expansion or improvement to the Customer Facility, the purchase and sale of the Customer Facility or the operation of the Customer Facility; (b) a power purchase agreement pursuant to

which Interconnection Customer's obligations are secured by a mortgage or other lien on the Customer Facility; or (c) loans and/or debt issues secured by the Customer Facility.

1.36A.03 Project Finance Entity:

Shall mean: (a) a holder, trustee or agent for holders, of any component of Project Financing; or (b) any purchaser of capacity and/or energy produced by the Customer Facility to which Interconnection Customer has granted a mortgage or other lien as security for some or all of Interconnection Customer's obligations under the corresponding power purchase agreement.

1.36A.03a Proportional Multi-Driver Project:

"Proportional Multi-Driver Project" shall have the same meaning provided in the Operating Agreement.

1.36A.04 Public Policy Objectives:

"Public Policy Objectives" shall have the same meaning provided in the Operating Agreement.

1.36A.05 Public Policy Requirements:

"Public Policy Requirements" shall have the same meaning provided in the Operating Agreement.

1.36B Queue Position:

The priority assigned to an Interconnection Request, a Completed Application, or an Upgrade Request pursuant to applicable provisions of Part VI.

1.36C Reasonable Efforts:

With respect to any action required to be made, attempted, or taken by an Interconnection Party or by a Construction Party under Part IV or Part VI of the Tariff, an Interconnection Service Agreement, or a Construction Service Agreement, such efforts as are timely and consistent with Good Utility Practice and with efforts that such party would undertake for the protection of its own interests.

1.37 Receiving Party:

The entity receiving the capacity and energy transmitted by the Transmission Provider to Point(s) of Delivery.

1.37A.01 Regional Entity:

Shall have the same meaning specified in the Operating Agreement.

1.37A Regional Transmission Expansion Plan:

The plan prepared by the Office of the Interconnection pursuant to Schedule 6 of the Operating Agreement for the enhancement and expansion of the Transmission System in order to meet the demands for firm transmission service in the PJM Region.

1.38 Regional Transmission Group (RTG):

A voluntary organization of transmission owners, transmission users and other entities approved by the Commission to efficiently coordinate transmission planning (and expansion), operation and use on a regional (and interregional) basis.

1.38.01 Regulation Zone:

Any of those one or more geographic areas, each consisting of a combination of one or more Control Zone(s) as designated by the Office of the Interconnection in the PJM Manuals, relevant to provision of, and requirements for, regulation service.

1.38.01A Relevant Electric Retail Regulatory Authority:

An entity that has jurisdiction over and establishes prices and policies for competition for providers of retail electric service to end-customers, such as the city council for a municipal utility, the governing board of a cooperative utility, the state public utility commission or any other such entity.

1.38A Reliability Assurance Agreement:

The Reliability Assurance Agreement Among Load Serving Entities in the PJM Region, Rate Schedule No. 44, dated as of May 28, 2009, and as amended from time to time thereafter.

1.38B [RESERVED]

1.38C Required Transmission Enhancements:

Enhancements and expansions of the Transmission System that (1) a Regional Transmission Expansion Plan developed pursuant to Schedule 6 of the Operating Agreement or (2) any joint planning or coordination agreement between PJM and another region or transmission planning authority set forth in Schedule 12-Appendix B ("Appendix B Agreement") designates one or more of the Transmission Owner(s) to construct and own or finance. Required Transmission Enhancements shall also include enhancements and expansions of facilities in another region or planning authority that meet the definition of transmission facilities pursuant to FERC's Uniform System of Accounts or have been classified as transmission facilities in a ruling by FERC addressing such facilities constructed pursuant to an Appendix B Agreement cost responsibility for which has been assigned at least in part to PJM pursuant to such Appendix B Agreement.

1.38C.01 Reserve Sub-zone:

Any of those geographic areas wholly contained within a Reserve Zone, consisting of a combination of a portion of one or more Control Zone(s) as designated by the Office of the Interconnection in the PJM Manuals, relevant to provision of, and requirements for, reserve service.

1.38D Reserve Zone:

Any of those geographic areas consisting of a combination of one or more Control Zone(s), as designated by the Office of the Interconnection in the PJM Manuals, relevant to provision of, and requirements for reserve service.

1.39 Reserved Capacity:

The maximum amount of capacity and energy that the Transmission Provider agrees to transmit for the Transmission Customer over the Transmission Provider's Transmission System between the Point(s) of Receipt and the Point(s) of Delivery under Part II of the Tariff. Reserved Capacity shall be expressed in terms of whole megawatts on a sixty (60) minute interval (commencing on the clock hour) basis.

1.39A Schedule of Work:

Shall mean that schedule attached to the Interconnection Construction Service Agreement setting forth the timing of work to be performed by the Constructing Entity pursuant to the Interconnection Construction Service Agreement, based upon the Facilities Study and subject to modification, as required, in accordance with Transmission Provider's scope change process for interconnection projects set forth in the PJM Manuals.

1.39B Scope of Work:

Shall mean that scope of the work attached as a schedule to the Interconnection Construction Service Agreement and to be performed by the Constructing Entity(ies) pursuant to the Interconnection Construction Service Agreement, provided that such Scope of Work may be modified, as required, in accordance with Transmission Provider's scope change process for interconnection projects set forth in the PJM Manuals.

1.39C Secondary Systems:

Control or power circuits that operate below 600 volts, AC or DC, including, but not limited to, any hardware, control or protective devices, cables, conductors, electric raceways, secondary equipment panels, transducers, batteries, chargers, and voltage and current transformers.

1.39D Security:

The security provided by the New Service Customer pursuant to Section 212.4 or Section 213.4 of the Tariff to secure the New Service Customer's responsibility for Costs under the

Interconnection Service Agreement or Upgrade Construction Service Agreement and Section 217 of the Tariff.

1.40 Service Agreement:

The initial agreement and any amendments or supplements thereto entered into by the Transmission Customer and the Transmission Provider for service under the Tariff.

1.41 Service Commencement Date:

The date the Transmission Provider begins to provide service pursuant to the terms of an executed Service Agreement, or the date the Transmission Provider begins to provide service in accordance with Section 15.3 or Section 29.1 under the Tariff.

1.42 Short-Term Firm Point-To-Point Transmission Service:

Firm Point-To-Point Transmission Service under Part II of the Tariff with a term of less than one year.

1.42.001 Short-term Project:

"Short-term Project" shall have the same meaning provided in the Operating Agreement.

1.42a Site:

All of the real property, including but not limited to any leased real property and easements, on which the Customer Facility is situated and/or on which the Customer Interconnection Facilities are to be located.

1.42B Small Generation Resource

An Interconnection Customer's device of 20 MW or less for the production and/or storage for later injection of electricity identified in an Interconnection Request, but shall not include the Interconnection Customer's Interconnection Facilities. This term shall include Energy Storage Resources, as defined in Attachment K of this Agreement, and/or other devices for storage for later injection of energy.

1.42.01 Small Inverter Facility:

An Energy Resource that is a certified small inverter-based facility no larger than 10 kW.

1.42.02 Small Inverter ISA:

An agreement among Transmission Provider, Interconnection Customer, and Interconnected Transmission Owner regarding interconnection of a Small Inverter Facility under section 112B of Part IV of the Tariff.

1.42A [RESERVED]

1.42B [RESERVED]

1.42C [RESERVED]

1.42D State:

The term "state" shall mean a state of the United States or the District of Columbia.

1.42D.01 Switching and Tagging Rules:

The switching and tagging procedures of Interconnected Transmission Owners and Interconnection Customer as they may be amended from time to time.

1.42E [RESERVED]

1.42F System Condition:

A specified condition on the Transmission Provider's system or on a neighboring system, such as a constrained transmission element or flowgate, that may trigger Curtailment of Long-Term Firm Point-to-Point Transmission Service using the curtailment priority pursuant to Section 13.6. Such conditions must be identified in the Transmission Customer's Service Agreement.

1.43 System Impact Study:

An assessment by the Transmission Provider of (i) the adequacy of the Transmission System to accommodate a Completed Application, an Interconnection Request or an Upgrade Request, (ii) whether any additional costs may be incurred in order to provide such transmission service or to accommodate an Interconnection Request, and (iii) with respect to an Interconnection Request, an estimated date that an Interconnection Customer's Customer Facility can be interconnected with the Transmission System and an estimate of the Interconnection Customer's cost responsibility for the interconnection; and (iv) with respect to an Upgrade Request, the estimated cost of the requested system upgrades or expansion, or of the cost of the system upgrades or expansion, necessary to provide the requested incremental rights.

1.43.01 System Protection Facilities:

The equipment required to protect (i) the Transmission System, other delivery systems and/or other generating systems connected to the Transmission System from faults or other electrical disturbance occurring at or on the Customer Facility, and (ii) the Customer Facility from faults or other electrical system disturbance occurring on the Transmission System or on other delivery systems and/or other generating systems to which the Transmission System is directly or indirectly connected. System Protection Facilities shall include such protective and regulating devices as are identified in the Applicable Technical Requirements and Standards or that are

required by Applicable Laws and Regulations or other Applicable Standards, or as are otherwise necessary to protect personnel and equipment and to minimize deleterious effects to the Transmission System arising from the Customer Facility.

1.43A Tariff:

This document, the "PJM Open Access Transmission Tariff."

1.44 Third-Party Sale:

Any sale for resale in interstate commerce to a Power Purchaser that is not designated as part of Network Load under the Network Integration Transmission Service but not including a sale of energy through the PJM Interchange Energy Market established under the PJM Operating Agreement.

1.45 Transmission Customer:

Any Eligible Customer (or its Designated Agent) that (i) executes a Service Agreement, or (ii) requests in writing that the Transmission Provider file with the Commission, a proposed unexecuted Service Agreement to receive transmission service under Part II of the Tariff. This term is used in the Part I Common Service Provisions and in Part VI to include customers receiving transmission service under Part II and Part III of this Tariff.

1.45.01 Transmission Facilities:

Transmission Facilities shall have the meaning set forth in the Operating Agreement.

1.45A Transmission Injection Rights:

Capacity Transmission Injection Rights and Energy Transmission Injection Rights.

1.45B Transmission Interconnection Customer:

An entity that submits an Interconnection Request to interconnect or add Merchant Transmission Facilities to the Transmission System or to increase the capacity of Merchant Transmission Facilities interconnected with the Transmission System in the PJM Region.

1.45C Transmission Interconnection Facilities Study:

A Facilities Study related to a Transmission Interconnection Request.

1.45D Transmission Interconnection Feasibility Study:

A study conducted by the Transmission Provider in accordance with Section 36.2 of the Tariff.

1.45E Transmission Interconnection Request:

A request by a Transmission Interconnection Customer pursuant to Part IV of the Tariff to interconnect or add Merchant Transmission Facilities to the Transmission System or to increase the capacity of existing Merchant Transmission Facilities interconnected with the Transmission System in the PJM Region.

1.45F Transmission Owner:

Each entity that owns, leases or otherwise has a possessory interest in facilities used for the transmission of electric energy in interstate commerce under the Tariff. The Transmission Owners are listed in Attachment L.

1.45G Transmission Owner Attachment Facilities:

That portion of the Transmission Owner Interconnection Facilities comprised of all Attachment Facilities on the Interconnected Transmission Owner's side of the Point of Interconnection.

1.45H Transmission Owner Interconnection Facilities:

All Interconnection Facilities that are not Customer Interconnection Facilities and that, after the transfer under Section 5.5 of Appendix 2 to Attachment P of the PJM Tariff to the Interconnected Transmission Owner of title to any Transmission Owner Interconnection Facilities that the Interconnection Customer constructed, are owned, controlled, operated and maintained by the Interconnected Transmission Owner on the Interconnected Transmission Owner's side of the Point of Interconnection identified in appendices to the Interconnection Service Agreement and to the Interconnection Construction Service Agreement, including any modifications, additions or upgrades made to such facilities and equipment, that are necessary to physically and electrically interconnect the Customer Facility with the Transmission System or interconnected distribution facilities.

1.45I Transmission Owner Upgrade:

"Transmission Owner Upgrade" shall have the same meaning provided in the Operating Agreement.

1.46 Transmission Provider:

The Transmission Provider shall be the Office of the Interconnection for all purposes, provided that the Transmission Owners will have the responsibility for the following specified activities:

(a) The Office of the Interconnection shall direct the operation and coordinate the maintenance of the Transmission System, except that the Transmission Owners will continue to direct the operation and maintenance of those transmission facilities that are not listed in the PJM Designated Facilities List contained in the PJM Manual on Transmission Operations:

- (b) Each Transmission Owner shall physically operate and maintain all of the facilities that it owns; and
- (c) When studies conducted by the Office of the Interconnection indicate that enhancements or modifications to the Transmission System are necessary, the Transmission Owners shall have the responsibility, in accordance with the applicable terms of the Tariff, Operating Agreement and/or the Consolidated Transmission Owners Agreement to construct, own, and finance the needed facilities or enhancements or modifications to facilities.

1.47 Transmission Provider's Monthly Transmission System Peak:

The maximum firm usage of the Transmission Provider's Transmission System in a calendar month.

1.48 Transmission Service:

Point-To-Point Transmission Service provided under Part II of the Tariff on a firm and non-firm basis.

1.48A Transmission Service Request:

A request for Firm Point-To-Point Transmission Service or a request for Network Integration Transmission Service.

1.49 Transmission System:

The facilities controlled or operated by the Transmission Provider within the PJM Region that are used to provide transmission service under Part II and Part III of the Tariff.

1.49A Transmission Withdrawal Rights:

Firm Transmission Withdrawal Rights and Non-Firm Transmission Withdrawal Rights.

1.49A.01 Upgrade Construction Service Agreement:

That agreement entered into by a New Service Customer (other than an Interconnection Customer whose project includes generation capability or Merchant Transmission Facilities other than Merchant Network Upgrades), a Transmission Owner, and the Transmission Provider, pursuant to Subpart B of Part VI of the Tariff, and in the form set forth in Attachment GG of the Tariff.

1.49A.02 Upgrade Customer:

A customer that submits an Upgrade Request.

1.49A.03 Upgrade-Related Rights:

Incremental Auction Revenue Rights, Incremental Available Transfer Capability Revenue Rights, Incremental Deliverability Rights, and Incremental Capacity Transfer Rights (as defined in Section 2.35 of Attachment DD of the Tariff).

1.49A.04 Upgrade Request:

A request pursuant to Section 7.8 of Schedule 1 of the Operating Agreement, submitted in the form prescribed in Attachment EE of the Tariff, for evaluation by the Transmission Provider of the feasibility and estimated costs of, (a) a particular proposed Customer-Funded Upgrade or (b) the Customer-Funded Upgrades that would be needed to provide the Incremented Auction Revenue Rights specified in the request.

- 1.49B [RESERVED]
- 1.49C [RESERVED]
- 1.49D [RESERVED]
- 1.49E [RESERVED]
- 1.49F [RESERVED]

1.49G Wholesale Transaction:

As used in Part IV, means any transaction involving the transmission or sale for resale of electricity in interstate commerce that utilizes any portion of the Transmission System.

1.49H Zone:

An area within the PJM Region, as set forth in Attachment J.

1.50 Zone Network Load:

Network Load that is located inside of the area comprised of the PJM Region.

APPENDIX 2

STANDARD TERMS AND CONDITIONS FOR INTERCONNECTIONS

1 Commencement, Term of and Conditions Precedent to Interconnection Service

1.1 Commencement Date:

The effective date of an Interconnection Service Agreement shall be the date provided in Section 4.0 of the Interconnection Service Agreement. Interconnection Service under this Interconnection Service Agreement shall commence upon the satisfaction of the conditions precedent set forth in Section 1.2 below.

1.2 Conditions Precedent:

The following conditions must be satisfied prior to the commencement of Interconnection Service under this Interconnection Service Agreement:

- (a) This Interconnection Service Agreement, if filed with FERC, shall have been accepted for filing by the FERC;
- (b) All requirements for Initial Operation as specified in Section 1.4 below shall have been met and Initial Operation of the Customer Facility shall have been completed.
- (c) Interconnection Customer shall be in compliance with all Applicable Technical Requirements and Standards for interconnection under the Tariff (as determined by the Transmission Provider).

1.3 Term:

This Interconnection Service Agreement shall remain in full force and effect until it is terminated in accordance with Section 16 of this Appendix 2.

1.4 Initial Operation:

The following requirements shall be satisfied prior to Initial Operation of the Customer Facility:

- **1.4.1** The construction of all Interconnection Facilities necessary for the interconnection of the Customer Facility has been completed;
- 1.4.2 The Interconnected Transmission Owner has accepted any Interconnection Facilities and/or Merchant Network Upgrades constructed by Interconnection Customer pursuant to the Interconnection Construction Service Agreement;
- 1.4.3 The Interconnection Customer and the Interconnected Transmission Owner have all necessary systems and personnel in place to allow for parallel operation of their respective facilities:
- 1.4.4 The Interconnected Transmission Owner has received all applicable documentation for the Interconnection Facilities and/or Merchant Network Upgrades built by the Interconnection Customer, certified as correct, including, but not limited to, access to the field copy of marked-

up drawings reflecting the as-built condition, pre-operation test reports, and instruction books; and

1.4.5 Interconnection Customer shall have received any necessary authorization from Transmission Provider to synchronize with the Transmission System or to energize, as applicable per the determination of Transmission Provider, the Customer Facility and Interconnection Facilities.

1.4A Limited Operation:

If any of the Transmission Owner Interconnection Facilities are not reasonably expected to be completed prior to the Interconnection Customer's planned date of Initial Operation, and provided that the Interconnected Transmission Owner has accepted the Customer Interconnection Facilities pursuant to the Interconnection Construction Service Agreement, Transmission Provider shall, upon the request and at the expense of Interconnection Customer, perform appropriate power flow or other operating studies on a timely basis to determine the extent to which the Customer Facility and the Customer Interconnection Facilities may operate prior to the completion of the Transmission Owner Interconnection Facilities consistent with Applicable Laws and Regulations, Applicable Reliability Standards, Good Utility Practice, and the Interconnection Service Agreement. In accordance with the results of such studies and subject to such conditions as Transmission Provider determines to be reasonable and appropriate, Transmission Provider shall (a) permit Interconnection Customer to operate the Customer Facility and the Customer Interconnection Facilities, and (b) grant Interconnection Customer limited, interim Interconnection Rights commensurate with the extent to which operation of the Customer Facility is permitted.

1.5 Survival:

The Interconnection Service Agreement shall continue in effect after termination to the extent necessary to provide for final billings and payments; to permit the determination and enforcement of liability and indemnification obligations arising from acts or events that occurred while the Interconnection Service Agreement was in effect; and to permit each Interconnection Party to have access to the real property, including but not limited to leased property and easements of the other Interconnection Parties pursuant to Section 16 of this Appendix 2 to disconnect, remove or salvage its own facilities and equipment.

2 Interconnection Service

2.1 Scope of Service:

Interconnection Service shall be provided to the Interconnection Customer at the Point of Interconnection (a), in the case of interconnection of the Customer Facility of a Generation Interconnection Customer, up to the Maximum Facility Output, and (b), in the case of interconnection of the Customer Facility of a Transmission Interconnection Customer, up to the Nominal Rated Capability. The location of the Point of Interconnection shall be mutually agreed by the Interconnected Entities, provided, however, that if the Interconnected Entities are unable

to agree on the Point of Interconnection, the Transmission Provider shall determine the Point of Interconnection, provided that Transmission Provider shall not select a Point of Interconnection that would impose excessive costs on either of the Interconnected Entities and shall take material system reliability considerations into account in such selection. Specifications for the Customer Facility and the location of the Point of Interconnection shall be set forth in an appendix to the Interconnection Service Agreement and shall conform to those stated in the Facilities Study.

2.2 Non-Standard Terms:

The standard terms and conditions of this Appendix 2 shall not apply, to such extent as Transmission Provider determines to be reasonably necessary to accommodate such circumstances, in the event that the Interconnection Customer acquires an ownership interest in facilities which, under the standard terms and conditions of the Interconnection Construction Service Agreement would be part of the Transmission Owner Interconnection Facilities. In such circumstances and to the extent determined by Transmission Provider to be reasonably necessary, non-standard terms and conditions mutually agreed upon by all Interconnection Parties shall apply, subject to FERC and any other necessary regulatory acceptance or approval. In addition, a Generation Interconnection Customer that acquires an ownership interest in such facilities shall become, and shall remain for so long as it retains such interest, a signatory to the Consolidated Transmission Owners Agreement.

2.3 No Transmission Services:

The execution of an Interconnection Service Agreement does not constitute a request for transmission service, or entitle Interconnection Customer to receive transmission service, under Part II or Part III of the Tariff. Nor does the execution of an Interconnection Service Agreement obligate the Interconnected Transmission Owner or Transmission Provider to procure, supply or deliver to Interconnection Customer or the Customer Facility any energy, capacity, Ancillary Services or Station Power (and any associated distribution services).

2.4 Use of Distribution Facilities:

To the extent that a Generation Interconnection Customer uses distribution facilities for the purpose of delivering energy to the Transmission System, Interconnection Service under this Tariff shall include the construction and/or use of such distribution facilities. In such cases, to such extent as Transmission Provider determines to be reasonably necessary to accommodate such circumstances, the Interconnection Service Agreement may include non-standard terms and conditions mutually agreed upon by all Interconnection Parties as needed to conform with Applicable Laws and Regulations and Applicable Standards relating to such distribution facilities.

2.5 Election by Behind The Meter Generation:

In the event that a Generation Interconnection Customer's Customer Facility is Behind The Meter Generation, the Generation Interconnection Customer may elect from time to time, subject

to the terms of this section, whether to operate all or a portion of its Customer Facility's generating capacity as a Capacity Resource under the Tariff and the Operating Agreement.

2.5.1 Capacity Resource Election:

The Generation Interconnection Customer may elect to operate all or a portion of its Customer Facility as a Capacity Resource only to the extent that the Interconnection Service Agreement grants Capacity Interconnection Rights. Such an election may include all or any portion of the Customer Facility's capacity for which Capacity Interconnection Rights have been granted.

2.5.2 Timing and Duration of Election:

The Generation Interconnection Customer shall make an initial election under this section no later than 30 days prior to the commencement of Interconnection Service. Thereafter, the Generation Interconnection Customer may make the election authorized by this Section 2.5 only once in each calendar year and must notify Transmission Provider of such an election no later than May 1, and no sooner than March 15, of each year. Each such election shall be effective commencing on June 1 following Transmission Provider's receipt of notice of the election. An election under this Section 2.5 shall remain in effect unless and until the Generation Interconnection Customer modifies or terminates it in a subsequent election made in accordance with the terms of this section.

3 Modification Of Facilities

3.1 General:

Subject to Applicable Laws and Regulations and to any applicable requirements or conditions of the Tariff and the Operating Agreement, either Interconnected Entity may undertake modifications to its facilities. In the event that an Interconnected Entity plans to undertake a modification that reasonably may be expected upon completion to have a permanent material impact on the other Interconnected Entity's facilities, that Interconnected Entity, in accordance with Good Utility Practice, shall provide the other Interconnection Parties with sufficient information regarding such modification, so that the other Interconnection Parties may evaluate the potential impact of such modification prior to commencement of the work. Interconnected Entity desiring to perform such modification shall provide the relevant drawings, plans, and specifications to the other Interconnection Parties at least ninety days, or such shorter period to which the Interconnection Parties receiving the information may agree (which agreement shall not unreasonably be withheld, conditioned, or delayed), in advance of the beginning of the work. The Interconnection Customer shall notify Transmission Provider and Interconnected Transmission Owner of the proposed modifications and Transmission Provider shall provide, within sixty days of receipt of the relevant drawings and specifications (or within such other time upon which the Interconnection Parties may agree), an estimate of any modifications to the Transmission System that would be necessary to accommodate the proposed modifications by Interconnection Customer and a good faith estimate of the costs thereof.

3.2 Interconnection Request:

This Section 3 shall not apply to any proposed modifications by Interconnection Customer to its facilities for which Interconnection Customer must make an Interconnection Request under the Tariff. In such circumstances, the Interconnection Customer and Transmission Provider shall follow the requirements of Subpart A of Part IV of the Tariff.

3.3 Standards:

Any additions, modifications, or replacements made to an Interconnected Entity's facilities shall be constructed and operated in accordance with Good Utility Practice, Applicable Standards and Applicable Laws and Regulations.

3.4 Modification Costs:

Unless otherwise required by Applicable Laws and Regulations or this Appendix 2 and, with respect to a Transmission Interconnection Customer, subject to the terms of Section 236.2 of the Tariff:

- (a) Interconnection Customer shall not be responsible for the costs of any additions, modifications, or replacements that the Interconnected Transmission Owner in its discretion or at the direction of Transmission Provider makes to the Interconnection Facilities or the Transmission System in order to facilitate the interconnection of a third party to the Interconnection Facilities or the Transmission System, or to provide transmission service under the Tariff to a third party.
- (b) Interconnection Customer shall be responsible for the costs of any additions, modifications, or replacements to the Interconnection Facilities or the Transmission System that are required, in accord with Good Utility Practice and/or to maintain compliance with Applicable Laws and Regulations or Applicable Standards, in order to accommodate additions, modifications, or replacements made by Interconnection Customer to the Customer Facility or to the Customer Interconnection Facilities.
- (c) Interconnection Customer shall be responsible for the costs of any additions, modifications, or replacements to the Customer Interconnection Facilities or the Customer Facility that are required, in accord with Good Utility Practice and/or to maintain compliance with Applicable Laws and Regulations or Applicable Standards, in order to accommodate additions, modifications, or replacements that Transmission Provider or the Interconnected Transmission Owner makes to the Transmission System or to the Transmission Owner Interconnected Transmission Owner's changes to the Transmission Provider's or the Interconnected Transmission Owner's changes to the Transmission System or the Transmission Owner Interconnection Facilities are made pursuant to Good Utility Practice and/or to maintain compliance with Applicable Laws and Regulations or Applicable Standards.

4 Operations

4.1 General:

Each Interconnected Entity shall operate, or shall cause operation of, its facilities in a safe and reliable manner in accord with (i) the terms of this Appendix 2; (ii) Applicable Standards; (iii) applicable rules, procedures and protocols set forth in the Tariff and the Operating Agreement, as any or all may be amended from time to time: (iv) Applicable Laws and Regulations, and (v) Good Utility Practice.

4.1.1 Interconnection Customer Drawings:

Within one hundred twenty (120) days after the date of Initial Operation, unless the Interconnection Parties agree on another mutually acceptable deadline, the Interconnection Customer shall deliver to the Transmission Provider and the Interconnected Transmission Owner final, "as-built" drawings, information and documents regarding the Customer Interconnection Facilities, including, as and to the extent applicable: a one-line diagram, a site plan showing the Customer Facility and the Customer Interconnection Facilities, plan and elevation drawings showing the layout of the Customer Interconnection Facilities, a relay functional diagram, relaying AC and DC schematic wiring diagrams and relay settings for all facilities associated with the Interconnection Customer's step-up transformers, the facilities connecting the Customer Facility to the step-up transformers and the Customer Interconnection Facilities, and the impedances (determined by factory tests) for the associated step-up transformers and the Customer Facility. As applicable, the Interconnection Customer shall provide Transmission Provider and the Interconnected Transmission Owner specifications for the excitation system, automatic voltage regulator, Customer Facility control and protection settings, transformer tap settings, and communications.

4.2 Operation of Merchant Network Upgrades:

Unless otherwise provided in the Interconnection Service Agreement, the Interconnected Transmission Owner that owns Transmission System facilities to which any Merchant Network Upgrades are connected shall operate such Merchant Network Upgrades (a) on behalf and at the expense of the Interconnection Customer that constructed or caused construction of the pertinent Merchant Network Upgrades and (b) in accordance with this Appendix 2 and with an agreement between the Interconnected Transmission Owner and the Interconnection Customer regarding such operation.

4.3 Interconnection Customer Obligations:

Interconnection Customer shall obtain Transmission Provider's approval prior to either synchronizing with the Transmission System or energizing, as applicable per the determination of Transmission Provider, the Customer Facility or, except in an Emergency Condition, disconnecting the Customer Facility from the Transmission System, and shall coordinate such synchronizations, energizations, and disconnections with the Interconnected Transmission Owner.

4.4 [Reserved.]

4.5 Permits and Rights-of-Way:

Each Interconnected Entity at its own expense shall maintain in full force and effect all permits, licenses, rights-of-way and other authorizations as may be required to maintain the Customer Facility and the Interconnection Facilities that the entity owns, operates and maintains and, upon reasonable request of the other Interconnected Entity, shall provide copies of such permits, licenses, rights-of-way and other authorizations at its own expense to the requesting party.

4.6 No Ancillary Services:

Except as provided in Section 4.7 of this Appendix 2, nothing in this Appendix 2 is intended to obligate the Interconnection Customer to supply Ancillary Services to either Transmission Provider or the Interconnected Transmission Owner.

4.7 Reactive Power

4.7.1 Reactive Power Design Criteria

4.7.1.1 New Facilities:

For all new generating facilities to be interconnected pursuant to the Tariff, other than windpowered and other non-synchronous generation facilities, the Generation Interconnection Customer shall design its Customer Facility to maintain a composite power delivery at continuous rated power output at a power factor of at least 0.95 leading to 0.90 lagging. For all new wind-powered and other non-synchronous generation facilities the Generation Interconnection Customer shall design its Customer Facility with the ability to maintain a composite power delivery at a power factor of at least 0.95 leading to 0.95 lagging under conditions in which a wind-powered generation facility's real power output exceeds 25 percent of its continuous rated power output and, for all other non-synchronous generation facilities, across the full range of continuous rate power output. For all wind-powered and other nonsynchronous generation facilities entering the New Service Queue on or after May 1, 2015, the power factor requirement shall be measured at the generator's terminals. For new generation resources of more than 20 MW, other than wind-powered and other non-synchronous generating facilities, the power factor requirement shall be measured at the generator's terminals. For new generation resources of 20 MW or less, and all wind-powered and other non-synchronous generation facilities entering the New Service Queue prior to May 1, 2015, the power factor requirement shall be measured at the Point of Interconnection. Any different reactive power design criteria that Transmission Provider determines to be appropriate for a wind-powered or other non-synchronous generation facility shall be stated in the Interconnection Service A Transmission Interconnection Customer interconnecting Merchant D.C. Agreement. Transmission Facilities and/ or Controllable A.C. Merchant Transmission Facilities shall design its Customer Facility to maintain a power factor at the Point of Interconnection of at least 0.95 leading and 0.95 lagging, when the Customer Facility is operating at any level within its approved operating range.

4.7.1.2 Increases in Generating Capacity or Energy Output:

All increases in the capacity or energy output of any generation facility interconnected with the Transmission System, other than wind-powered and other non-synchronous generating facilities, shall be designed with the ability to maintain a composite power delivery at continuous rated power output at a power factor for all incremental MW of capacity or energy output, of at least 1.0 (unity) to 0.90 lagging. Wind-powered generation facilities and other non-synchronous generation facilities entering the New Service Queue on or after May 1, 2015, shall be designed with the ability to maintain a composite power delivery at a power factor for all incremental MW of capacity or energy output, of at least 0.95 leading to 0.95 lagging under conditions in which a wind-powered generation facility's real power output exceeds 25 percent of its continuous rated power output and, for all other non-synchronous generation facilities, across the full range of continuous rated power output. Wind-powered generation facilities and other non-synchronous generation facilities entering the New Service Queue prior to May 1, 2015 shall be designed with the ability to maintain a composite power delivery at continuous rated power out at a power factor for all incremental MW of capacity of energy output of at least 1.0 (unity) to 0.95 lagging. The power factor requirement associated with increases in capacity or energy output of more than 20 MW to synchronous generation facilities and increases to wind and non-synchronous generation facilities interconnected with the Transmission System shall be measured at the generator's terminals. The power factor requirement associated with increases in capacity or energy output of 20 MW or less to synchronous generation facilities interconnected to the Transmission System shall be measured at the Point of Interconnection.

4.7.2 Obligation to Supply Reactive Power:

Interconnection Customer agrees, as and when so directed by Transmission Provider or when so directed by the Interconnected Transmission Owner acting on behalf or at the direction of Transmission Provider, to operate the Customer Facility to produce reactive power within the design limitations of the Customer Facility pursuant to voltage schedules, reactive power schedules or power factor schedules established by Transmission Provider or, as appropriate, the Interconnected Transmission Owner. Transmission Provider shall maintain oversight over such schedules to ensure that all sources of reactive power in the PJM Region, as applicable, are treated in an equitable and not unduly discriminatory manner. Interconnection Customer agrees that Transmission Provider and the Interconnected Transmission Owner, acting on behalf or at the direction of Transmission Provider, may make changes to the schedules that they respectively establish as necessary to maintain the reliability of the Transmission System.

4.7.3 Deviations from Schedules:

In the event that operation of the Customer Facility of an Interconnection Customer causes the Transmission System or the Interconnected Transmission Owner's facilities to deviate from appropriate voltage schedules and/or reactive power schedules as specified by Transmission Provider or the Interconnected Transmission Owner's operations control center (acting on behalf or at the direction of Transmission Provider), or that otherwise is inconsistent with Good Utility Practice and results in an unreasonable deterioration of the quality of electric service to other customers of Transmission Provider or the Interconnected Transmission Owner, the Interconnection Customer shall, upon discovery of the problem or upon notice from

Transmission Provider or the Interconnected Transmission Owner, acting on behalf or at the direction of Transmission Provider, take whatever steps are reasonably necessary to alleviate the situation at its expense, in accord with Good Utility Practice and within the reactive capability of the Customer Facility. In the event that the Interconnection Customer does not alleviate the situation within a reasonable period of time following Transmission Provider's or the Interconnected Transmission Owner, with Transmission Provider's approval, upon notice to the Interconnection Customer and at the Interconnection Customer's expense, may take appropriate action, including installation on the Transmission System of power factor correction or other equipment, as is reasonably required, consistent with Good Utility Practice, to remedy the situation cited in Transmission Provider's or the Interconnected Transmission Owner's notice to the Interconnection Customer under this section.

4.7.4 Payment for Reactive Power:

Any payments to the Interconnection Customer for reactive power shall be in accordance with Schedule 2 of the Tariff.

4.8 Under- and Over-Frequency Conditions:

The Transmission System is designed to automatically activate a load-shed program as required by NERC and each Applicable Regional Entity in the event of an under-frequency system disturbance. A Generation Interconnection Customer shall implement under-frequency and over-frequency relay set points for the Customer Facility as required by NERC and each Applicable Regional Entity to ensure "ride through" capability of the Transmission System. The response of a Generation Interconnection Customer's Customer Facility to frequency deviations of predetermined magnitudes, both under-frequency and over-frequency deviations shall be studied and coordinated with the Transmission Provider in accordance with Good Utility Practice. The term "ride through" as used herein shall mean the ability of a Generation Interconnection Customer's Customer Facility to stay connected to and synchronized with the Transmission System during system disturbances within a range of under-frequency and over-frequency conditions, in accordance with Good Utility Practice.

4.9 Protection and System Quality

4.9.1 System Protection:

Interconnection Customer shall, at its expense, install, operate and maintain such System Protection Facilities as may be required in connection with operation of the Customer Facility and the Customer Interconnection Facilities consistent with Applicable Technical Requirements and Standards. Interconnected Transmission Owner shall install any System Protection Facilities that may be required, as determined by Transmission Provider, on the Transmission Owner Interconnection Facilities or the Transmission System in connection with the operation of the Customer Facility and the Customer Interconnection Facilities. Responsibility for the cost of any System Protection Facilities required on the Transmission Owner Interconnection Facilities or the Transmission System shall be allocated as provided in Section 217 of the Tariff.

4.9.2 Power Quality:

The Customer Facility and Customer Interconnection Facilities shall not cause excessive deviations from the power quality criteria set forth in the Applicable Technical Requirements and Standards.

4.10 Access Rights:

Each Interconnected Entity shall provide the other Interconnected Entity access to areas under its control as reasonably necessary to permit the other Interconnected Entity to perform its obligations under this Appendix 2, including operation and maintenance obligations. An Interconnected Entity that obtains such access shall comply with all safety rules applicable to the area to which access is obtained. Each Interconnected Entity agrees to inform the other Interconnected Entity's representatives of safety rules applicable to an area.

4.11 Switching and Tagging Rules:

The Interconnected Entities shall comply with applicable Switching and Tagging Rules in obtaining clearances for work or for switching operations on equipment. Such Switching and Tagging Rules shall be developed in accordance with OSHA standards codified at 29 C.F.R. Part 1910, or successor standards. Each Interconnected Entity shall provide the other Interconnected Entity a copy of its Switching and Tagging Rules that are applicable to the other Interconnected Entity's activities.

4.12 Communications and Data Protocol:

The Interconnected Entities shall comply with any communications and data protocol that the Transmission Provider may establish.

4.13 Nuclear Generating Facilities:

In the event that the Customer Facility is a nuclear generating facility, the Interconnection Parties shall agree to such non-standard terms and conditions as are reasonably necessary to accommodate the Interconnection Customer's satisfaction of Nuclear Regulatory Commission requirements relating to the safety and reliability of operations of such facilities.

5 Maintenance

5.1 General:

Each Interconnected Entity shall maintain, or shall cause the maintenance of, its facilities in a safe and reliable manner in accord with (i) the terms of this Appendix 2; (ii) Applicable Standards; (iii) applicable rules, procedures and protocols set forth in the Tariff and the Operating Agreement, as any or all may be amended from time to time; (iv) Applicable Laws and Regulations, and (v) Good Utility Practice.

5.2 Maintenance of Merchant Network Upgrades:

Unless otherwise provided in the Interconnection Service Agreement, the Interconnected Transmission Owner that owns Transmission System facilities to which any Merchant Network Upgrades are connected shall maintain such Merchant Network Upgrades (a) on behalf and at the expense of the Interconnection Customer that constructed or caused construction of the pertinent Merchant Network Upgrades and (b) in accordance with this Appendix 2 and with an agreement between the Interconnected Transmission Owner and the Interconnection Customer regarding such maintenance.

5.3 Outage Authority and Coordination

5.3.1 Coordination:

The Interconnection Parties agree to confer regularly to coordinate the planning, scheduling and performance of preventive and corrective maintenance on the Customer Facility, the Customer Interconnection Facilities and any Attachment Facilities owned by the Interconnected Transmission Owner.

5.3.2 Authority:

Each Interconnected Entity may, in accordance with Good Utility Practice, remove from service its facilities that may affect the other Interconnected Entity's facilities in order to perform maintenance or testing or to install or replace equipment. Except in the event of an Emergency Condition, the Interconnection Customer proposing to remove such facilities from service shall provide prior notice of such activities to the Transmission Provider and the Interconnected Transmission Owner, and the Interconnected Entities shall coordinate all scheduling of planned facility outages with Transmission Provider, in accordance with applicable sections of the Operating Agreement, the PJM Manuals and any other applicable operating guidelines or directives of the Transmission Provider. Subject to the foregoing, the Interconnected Entity scheduling a facility outage shall use Reasonable Efforts to coordinate such outage with the other Interconnected Entity's scheduled outages.

5.3.3 Outages Required for Maintenance:

Subject to any necessary approval by Transmission Provider, each Interconnected Entity shall provide necessary equipment outages to allow the other Interconnected Entity to perform periodic maintenance, repair or replacement of its facilities and such outages shall be provided at mutually agreeable times, unless conditions arise which an Interconnected Entity believes, in accordance with Good Utility Practice, may endanger persons or property.

5.3.4 Rescheduling of Planned Outages:

To the extent so provided by the Tariff, the Operating Agreement, and the PJM Manuals, an Interconnected Entity may seek compensation from Transmission Provider for any costs related

to rejection by Transmission Provider of a request of such Interconnected Entity for a planned maintenance outage.

5.3.5 Outage Restoration:

If an outage on an Interconnected Entity's facilities adversely affects the other Interconnected Entity's facilities, the Interconnected Entity that owns or controls the facility that is out of service shall use Reasonable Efforts to restore the facility to service promptly.

5.4 Inspections and Testing:

Each Interconnected Entity shall perform routine inspection and testing of its facilities and equipment in accordance with Good Utility Practice as may be necessary to ensure the continued interconnection of the Customer Facility with the Transmission System in a safe and reliable manner. Each Interconnected Entity shall have the right, upon advance written notice, to request reasonable additional testing of an Interconnected Entity's facilities for good cause, as may be in accordance with Good Utility Practice.

5.5 Right to Observe Testing:

Each Interconnected Entity shall notify the other Interconnected Entity in advance of its performance of tests of its portion of the Interconnection Facilities or of any Merchant Network Upgrades. The other Interconnected Entity shall, at its own expense, have the right to observe such testing.

5.6 Secondary Systems:

Each Interconnected Entity agrees to cooperate with the other in the inspection, maintenance, and testing of those Secondary Systems directly affecting the operation of an Interconnected Entity's facilities and equipment which may reasonably be expected to affect the other Interconnected Entity's facilities. Each Interconnected Entity shall provide advance notice to the other Interconnected Entity before undertaking any work on such equipment, especially in electrical circuits involving circuit breaker trip and close contacts, current transformers, or potential transformers.

5.7 Access Rights:

Each Interconnected Entity shall provide the other Interconnected Entity access to areas under its control as reasonably necessary to permit the other Interconnected Entity to perform its obligations under this Appendix 2, including operation and maintenance obligations. An Interconnected Entity that obtains such access shall comply with all safety rules applicable to the area to which access is obtained. Each Interconnected Entity agrees to inform the other Interconnected Entity's representatives of safety rules applicable to an area.

5.8 Observation of Deficiencies:

If an Interconnection Party observes any Abnormal Condition on, or becomes aware of a lack of scheduled maintenance and testing with respect to, an Interconnection Party's facilities and equipment that might reasonably be expected to adversely affect the observing Interconnection Party's facilities and equipment, the observing Interconnection Party shall provide prompt notice under the circumstances to the appropriate Interconnection Party, and such Interconnection Party shall consider such notice in accordance with Good Utility Practice. Any Interconnection Party's review, inspection, and approval related to the other Interconnection Party's facilities and equipment shall be limited to the purpose of assessing the safety, reliability, protection and control of the Transmission System and shall not be construed as confirming or endorsing the design of such facilities and equipment, or as a warranty of any type, including safety, durability or reliability thereof. Notwithstanding the foregoing, the observing Interconnection Party shall have no liability whatsoever for failure to give a deficiency notice to the other Interconnection Party and the Interconnected Entity that owns the relevant Interconnection Facilities shall remain fully liable for its failure to determine and correct deficiencies and defects in its facilities and equipment.

6 Emergency Operations

6.1 Obligations:

Subject to Applicable Laws and Regulations, each Interconnection Party shall comply with the Emergency Condition procedures of NERC, the Applicable Regional Entity, Transmission Provider, the Interconnected Transmission Owner and Interconnection Customer.

6.2 Notice:

Each Interconnection Party shall notify the other parties promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect operation of the Customer Facility, the Customer Interconnection Facilities, the Transmission Owner Interconnection Facilities, or the Transmission System. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the facilities and/or operation thereof, its anticipated duration and the corrective action taken and/or to be taken. The initial notice shall be followed as soon as practicable with written notice.

6.3 Immediate Action:

An Interconnection Party becoming aware of an Emergency Condition may take such action, including disconnection of the Customer Facility from the Transmission System, as is reasonable and necessary in accord with Good Utility Practice (i) to prevent, avoid, or mitigate injury or danger to, or loss of, life or property; (ii) to preserve the reliability of, in the case of Interconnection Customer, the Customer Facility, or, in the case of Transmission Provider or the Interconnected Transmission Owner, the Transmission System and interconnected subtransmission and distribution facilities; or (iii) to expedite restoration of service. Unless, in Interconnection Customer's reasonable judgment, immediate action is required to prevent imminent loss of life or property, Interconnection Customer shall obtain the consent of Transmission Provider and the Interconnected Transmission Owner prior to performing any manual switching operations at the Customer Facility or the Generation Interconnection

Į

Facilities. Each Interconnection Party shall use Reasonable Efforts to minimize the effect of its actions during an Emergency Condition on the facilities and operations of the other Interconnection Parties.

6.4 Record-Keeping Obligations:

Each Interconnection Party shall keep and maintain records of actions taken during an Emergency Condition that may reasonably be expected to affect the other parties' facilities and make such records available for audit in accordance with Section 19.3 of this Appendix 2.

7 Safety

7.1 General:

Each Interconnected Entity shall perform all work under this Appendix 2 that may reasonably be expected to affect the other Interconnected Entity in accordance with Good Utility Practice and all Applicable Laws and Regulations pertaining to the safety of persons or property. An Interconnected Entity performing work within the boundaries of the other Interconnected Entity's facilities must abide by the safety rules applicable to the site. Each party agrees to inform the other party's representatives of applicable safety rules that must be obeyed on the premises.

7.2 Environmental Releases:

Each Interconnected Entity shall notify the other Interconnection Parties, first orally and promptly thereafter in writing, of the release of any Hazardous Substances, any asbestos or lead abatement activities, or any type of remediation activities, related to the Customer Facility or the Interconnection Facilities, any of which may reasonably be expected to affect one or both of the other parties. The notifying party shall (i) provide the notice as soon as possible; (ii) make a good faith effort to provide the notice within twenty-four (24) hours after the party becomes aware of the occurrence; and (iii) promptly furnish to the other parties copies of any publicly available reports filed with any governmental agencies addressing such events.

8 Metering

8.1 General:

Interconnection Customer shall have the right to install, own, operate, test and maintain the necessary Metering Equipment. In the event that Interconnection Customer exercises this option, the Interconnected Transmission Owner shall have the right to install its own check meter(s), at its own expense, at or near the location of the Metering Equipment. If both Interconnection Customer and Interconnected Transmission Owner install meters, the meter installed by the Interconnection Customer shall control unless it is determined by testing to be inaccurate. If the Interconnection Customer does not exercise the option provided by the first sentence of this section, the Interconnected Transmission Owner shall have the option to install, own, operate, test and maintain all necessary Metering Equipment at Interconnection Customer's expense. If

the Interconnected Transmission Owner does not exercise this option, the Interconnection Customer shall install, own, operate, test and maintain all necessary Metering Equipment. Transmission Provider shall determine the location where the Metering Equipment shall be installed, after consulting with Interconnection Customer and the Interconnected Transmission Owner. All Metering Equipment shall be tested prior to any operation of the Customer Facility. Power flows to and from the Customer Facility shall be compensated to the Point of Interconnection, or, upon the mutual agreement of the Interconnected Transmission Owner and the Interconnection Customer, to another location.

8.2 Standards:

All Metering Equipment installed pursuant to this Appendix 2 to be used for billing and payments shall be revenue quality Metering Equipment and shall satisfy applicable ANSI standards and Transmission Provider's metering standards and requirements. Nothing in this Appendix 2 precludes the use of Metering Equipment for any retail services of the Interconnected Transmission Owner provided, however, that in such circumstances Applicable Laws and Regulations shall control.

8.3 Testing of Metering Equipment:

The Interconnected Entity that, pursuant to Section 8.1 of this Appendix 2, owns the Metering Equipment shall operate, maintain, inspect and test all Metering Equipment upon installation and at least once every two years thereafter. Upon reasonable request by the other Interconnected Entity, the owner of the Metering Equipment shall inspect or test the Metering Equipment more frequently than every two years, but in no event more frequently than three times in any 24month period. The owner of the Metering Equipment shall give reasonable notice to the Interconnection Parties of the time when any inspection or test of the owner's Metering Equipment shall take place, and the other parties may have representatives present at the test or inspection. If Metering Equipment is found to be inaccurate or defective, it shall be adjusted, repaired or replaced in order to provide accurate metering. Where the Interconnected Transmission Owner owns the Metering Equipment, the expense of such adjustment, repair or replacement shall be borne by the Interconnection Customer, except that the Interconnection Customer shall not be responsible for such expenses where the inaccuracy or defect is caused by the Interconnected Transmission Owner. If Metering Equipment fails to register, or if the measurement made by Metering Equipment during a test varies by more than one percent from the measurement made by the standard meter used in the test, the owner of the Metering Equipment shall inform Transmission Provider, and the Transmission Provider shall inform the other Interconnected Entity, of the need to correct all measurements made by the inaccurate meter for the period during which the inaccurate measurements were made, if the period can be determined. If the period of inaccurate measurement cannot be determined, the correction shall be for the period immediately preceding the test of the Metering Equipment that is equal to onehalf of the time from the date of the last previous test of the Metering Equipment, provided that the period subject to correction shall not exceed nine (9) months.

8.4 Metering Data:

At Interconnection Customer's expense, the metered data shall be telemetered (a) to a location designated by Transmission Provider; (b) to a location designated by the Interconnected Transmission Owner, unless the Interconnected Transmission Owner agrees otherwise; and (c) to a location designated by Interconnection Customer. Data from the Metering Equipment at the Point of Interconnection shall be used, under normal operating conditions, as the official measurement of the amount of energy delivered from or to the Customer Facility to the Point of Interconnection, provided that the Transmission Provider's rules applicable to Station Power shall control with respect to a Generation Interconnection Customer's consumption of Station Power.

8.5 Communications

8.5.1 Interconnection Customer Obligations:

Interconnection Customer shall install and maintain satisfactory operating communications with Transmission Provider's system dispatcher or its other designated representative and with the Interconnected Transmission Owner. Interconnection Customer shall provide standard voice line, dedicated voice line and facsimile communications at its Customer Facility control room through use of the public telephone system. Interconnection Customer also shall provide and maintain backup communication links with both Transmission Provider and Interconnected Transmission Owner for use during abnormal conditions as specified by Transmission Provider and Interconnected Transmission Owner, respectively. Interconnection Customer further shall provide the dedicated data circuit(s) necessary to provide Interconnection Customer data to the Transmission Provider and Interconnected Transmission Owner as necessary to conform with Applicable Technical Requirements and Standards.

8.5.2 Remote Terminal Unit:

Unless otherwise deemed unnecessary by Transmission Provider and Interconnected Transmission Owner, as indicated in the Interconnection Service Agreement, prior to any operation of the Customer Facility, a remote terminal unit, or equivalent data collection and transfer equipment acceptable to the Interconnection Parties, shall be installed by Interconnection Customer, or by the Interconnected Transmission Owner at Interconnection Customer's expense, to gather accumulated and instantaneous data to be telemetered to the location(s) designated by Transmission Provider and Interconnected Transmission Owner through use of a dedicated point-to-point data circuit(s) as indicated in Section 8.5.1 of this Appendix 2. Instantaneous, bi-directional real power and, with respect to a Generation Interconnection Customer's Customer Facility, reactive power flow information, must be telemetered directly to the location(s) specified by Transmission Provider and the Interconnected Transmission Owner.

8.5.3. Phasor Measurement Units (PMUs):

An Interconnection Customer entering the New Services Queue on or after October 1, 2012 with a proposed new Customer Facility that has a Maximum Facility Output equal to or greater than 100 MW shall install and maintain, at its expense, phasor measurement units (PMUs). PMUs shall be installed on the Customer Facility low side of the generator step-up transformer, unless it

is a non-synchronous generation facility, in which case the PMUs shall be installed on the Customer Facility side of the Point of Interconnection. The PMUs must be capable of performing phasor measurements at a minimum of 30 samples per second which are synchronized via a high-accuracy satellite clock. To the extent Interconnection Customer installs similar quality equipment, such as relays or digital fault recorders, that can collect data at least at the same rate as PMUs and which data is synchronized via a high-accuracy satellite clock, such equipment would satisfy this requirement. As provided for in the PJM Manuals, an Interconnection Customer shall be required to install and maintain, at its expense. PMU equipment which includes the communication circuit capable of carrying the PMU data to a local data concentrator, and then transporting the information continuously to the Transmission Provider; as well as store the PMU data locally for thirty days. Interconnection Customer shall provide to Transmission Provider all necessary and requested information through the Transmission Provider synchrophasor system, including the following: (a) gross MW and MVAR measured at the Customer Facility side of the generator step-up transformer (or, for a non-synchronous generation facility, to be measured at the Customer Facility side of the Point of Interconnection); (b) generator terminal voltage; (c) generator terminal frequency; and (d) generator field voltage and current, where available. The Transmission Provider will install and provide for the ongoing support and maintenance of the network communications linking the data concentrator to the Transmission Provider, Additional details regarding the requirements and guidelines of PMU data and telecommunication of such data are contained in the PJM Manuals.

9 Force Majeure

9.1 Notice:

An Interconnection Party that is unable to carry out an obligation imposed on it by this Appendix 2 due to Force Majeure shall notify the other parties in writing or by telephone within a reasonable time after the occurrence of the cause relied on.

9.2 Duration of Force Majeure:

An Interconnection Party shall not be responsible, or considered to be in Breach or Default under this Interconnection Service Agreement, for any non-performance, any interruption or failure of service, deficiency in the quality or quantity of service, or any other failure to perform any obligation hereunder to the extent that such failure or deficiency is due to Force Majeure. An Interconnection Party shall be excused from whatever performance is affected only for the duration of the Force Majeure and while the Interconnection Party exercises Reasonable Efforts to alleviate such situation. As soon as the non-performing Interconnection Party is able to resume performance of its obligations excused because of the occurrence of Force Majeure, such Interconnection Party shall resume performance and give prompt notice thereof to the other parties.

9.3 Obligation to Make Payments:

Any Interconnection Party's obligation to make payments for services shall not be suspended by Force Majeure.

9.4 Definition of Force Majeure:

For the purposes of this section, an event of force majeure shall mean any cause beyond the control of the affected Interconnection Party or Construction Party, including but not restricted to, acts of God, flood, drought, earthquake, storm, fire, lightning, epidemic, war, riot, civil disturbance or disobedience, labor dispute, labor or material shortage, sabotage, acts of public enemy, explosions, orders, regulations or restrictions imposed by governmental, military, or lawfully established civilian authorities, which, in any of the foregoing cases, by exercise of due diligence such party could not reasonably have been expected to avoid, and which, by the exercise of due diligence, it has been unable to overcome. Force majeure does not include (i) a failure of performance that is due to an affected party's own negligence or intentional wrongdoing; (ii) any removable or remediable causes (other than settlement of a strike or labor dispute) which an affected party fails to remove or remedy within a reasonable time; or (iii) economic hardship of an affected party.

10 Charges

10.1 Specified Charges:

If and to the extent required by the Interconnected Transmission Owner, after the Initial Operation of the Customer Facility. Interconnection Customer shall pay one or more of the types of recurring charges described in this section to compensate the Interconnected Transmission Owner for costs incurred in performing certain of its obligations under this Appendix 2. All such charges shall be stated in Schedule E of the Interconnection Service Agreement. Interconnected Transmission Owner shall provide Transmission Provider and Interconnection Customer with appropriate cost data, schedules and/or written testimony in support of any charges under this section in such manner and at such time as to allow Transmission Provider to include such materials in its filing of the Interconnection Service Agreement with the FERC. Transmission Provider will deliver a copy of such filing to Interconnection Customer. Permissible charges under this section may include:

- (a) Administration Charge Any such charge may recover only the costs and expenses incurred by the Interconnected Transmission Owner in connection with administrative obligations such as the preparation of bills, the processing of Customer Facility-specific data on energy delivered at the Point of Interconnection and costs incurred in similar types of administrative processes related to Interconnection Customer's Interconnection Service. An Administration Charge shall not be permitted to the extent that the Interconnected Transmission Owner's other charges to the Interconnection Customer under the same Interconnection Service Agreement include an allocation of Interconnected Transmission Owner's administrative and general expenses and/or other corporate overhead costs.
- (b) Metering Charge Any such charge may recover only the Interconnected Transmission Owner's costs and expenses associated with operation, maintenance, inspection, testing, and carrying or capital replacement charges for any Metering Equipment that is owned by the Interconnected Transmission Owner.

- (c) Telemetering Charge Any such charge may recover only the Interconnected Transmission Owner's costs and expenses associated with operation, maintenance, inspection, testing, and carrying or capital replacement charges for any telemetering equipment that is owned by the Interconnected Transmission Owner and that is used exclusively in conjunction with Interconnection Service for the Interconnection Customer.
- (d) Customer Facility Operations and Maintenance Charge Any such charge may recover only the Interconnected Transmission Owner's costs and expenses associated with operation, maintenance, inspection, testing, modifications, taxes and carrying or capital replacement charges for Attachment Facilities related to the Interconnection Customer's Interconnection Service and that are owned by the Interconnected Transmission Owner, provided that
- (i) any such charge shall exclude costs and expenses associated with Transmission Owner Interconnection Facilities owned by the Interconnected Transmission Owner that are radial line facilities that serve load in addition to an Interconnection Customer; and
- (ii) except as otherwise provided by Applicable Laws and Regulations, any such charge may include only an allocated share, derived in accordance with the allocations contained in the Facilities Study, of costs and expenses associated with Transmission Owner Interconnection Facilities owned by the Interconnected Transmission Owner that are radial line facilities that serve more than one Interconnection Customer. At the discretion of the affected Interconnected Entities, a Customer Facility Operations and Maintenance Charge authorized under this section may apply on a per-incident basis or on a monthly or other periodic basis.
- (e) Other Charges Any other charges applicable to the Interconnection Customer, as mutually agreed upon by the Interconnection Customer and the Interconnected Transmission Owner and as accepted by the FERC as part of an Interconnection Service Agreement.

10.2 FERC Filings:

To the extent required by law or regulation, each Interconnection Party shall seek FERC acceptance or approval of its respective charges or the methodology for the calculation of such charges.

11 Security, Billing And Payments

11.1 Recurring Charges Pursuant to Section 10:

The following provisions shall apply with respect to recurring charges applicable to Interconnection Service after Initial Operation of the Customer Facility pursuant to Section 10 of this Appendix 2.

11.1.1 General:

Except as, and to the extent, otherwise provided in the Interconnection Service Agreement, billing and payment of any recurring charges applicable to Interconnection Service after Initial Operation of the Customer Facility pursuant to Section 10 of this Appendix 2 shall be in accordance with Section 7 of the Tariff. The Interconnected Transmission Owner shall provide Transmission Provider with all necessary information and supporting data that Transmission Provider may reasonably require to administer billing for and payment of applicable charges under this Appendix 2. Transmission Provider shall remit to the Interconnected Transmission Owner revenues received in payment of Interconnected Transmission Owner's charges to Interconnection Customer under this Appendix 2 upon Transmission Provider's receipt of such revenues. At Transmission Provider's reasonable discretion, charges to Interconnection Customer and remittances to Interconnected Transmission Owner under this Appendix 2 may be netted against other amounts owed by or to such parties under the Tariff.

11.1.2 Billing Disputes:

In the event of a billing dispute between Transmission Provider and Interconnection Customer. Transmission Provider shall continue to provide interconnection service under this Appendix 2 as long as Interconnection Customer (i) continues to make all payments not in dispute, and (ii) pays to Transmission Provider or into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If Interconnection Customer fails to meet these two requirements for continuation of service, then Transmission Provider shall so inform the Interconnection Parties and may provide notice to Interconnection Customer of a Breach pursuant to Section 15 of this Appendix 2. Within thirty days after the resolution of the dispute, the Interconnection Party that owes money to the other Interconnection Party shall pay the amount due with interest calculated in accord with Section 11.4.

11.2 Costs for Transmission Owner Interconnection Facilities and/or Merchant Network Upgrades:

The following provisions shall apply with respect to charges for the Costs of the Interconnected Transmission Owner for which the Interconnection Customer is responsible.

11.2.1 Adjustments to Security:

The Security provided by Interconnection Customer at or before execution of the Interconnection Service Agreement (a) shall be reduced as portions of the work on required Local Upgrades and/or Network Upgrades is completed, and/or (b) shall be increased or decreased as required to reflect adjustments to Interconnection Customer's cost responsibility, as determined in accordance with Section 217, to correspond with changes in the Scope of Work developed in accordance with Transmission Provider's scope change process for interconnection projects set forth in the PJM Manuals.

11.2.2 Invoice:

The Interconnected Transmission Owner shall provide Transmission Provider a quarterly statement of the Interconnected Transmission Owner's scheduled expenditures during the next three months for, as applicable (a) the design, engineering and construction of, and/or for other charges related to, construction of the Interconnection Facilities and/or Merchant Network Upgrades for which the Interconnected Transmission Owner is responsible under the Interconnection Service Agreement and the Interconnection Construction Service Agreement, or (b) in the event that the Interconnection Customer exercises the Option to Build pursuant to Section 3.2.3.1 of Appendix 2 of the form of Interconnection Construction Service Agreement (set forth in Attachment P to the Tariff), for the Transmission Owner's Costs associated with the Interconnection Customer's building Attachment Facilities, Local Upgrades, and Network Upgrades (including both Direct Connection Network Upgrades. Direct Connection Local Upgrades, Non-Direct Connection Network Upgrades and Non-Direct Connection Local Upgrades), including but not limited to Costs for tie-in work and Cancellation Costs. Provided, however, such Transmission Owner Costs may include oversight costs (i.e. costs incurred by the Transmission Owner when engaging in oversight activities to satisfy itself that the Interconnection Customer is complying with the Transmission Owner's standards and specifications for the construction of facilities) only if the Transmission Owner and the Interconnection Customer mutually agree to the inclusion of such costs under the Option to Build pursuant to the provisions of Section 3.3.3.1 of Appendix 2 of the form of Interconnection Construction Service Agreement (set forth in Attachment P to the Tariff). Transmission Provider shall bill Interconnection Customer on behalf of the Interconnected Transmission Owner, for the Interconnected Transmission Owner's expected Costs during the subsequent three months. Interconnection Customer shall pay each bill within twenty (20) days after receipt thereof. Upon receipt of each of Interconnection Customer's payments of such bills, Transmission Provider shall reimburse the Interconnected Transmission Owner. Interconnection Customer may request that the Transmission Provider provide a quarterly cost reconciliation. Such a quarterly cost reconciliation will have a one-quarter lag, e.g., reconciliation of costs for the first calendar quarter of work will be provided at the start of the third calendar quarter of work, provided, however, that Section 11.2.3 of this Appendix 2 shall govern the timing of the final cost reconciliation upon completion of the work.

11.2.3 Final Invoice:

Within 120 days after the Interconnected Transmission Owner completes construction and installation of the Interconnection Facilities and/or Merchant Network Upgrades for which the Interconnected Transmission Owner is responsible under the Interconnection Service Agreement and the Interconnection Construction Service Agreement, Transmission Provider shall provide Interconnection Customer with an accounting of, and the appropriate Construction Party shall make any payment to the other that is necessary to resolve, any difference between (a) Interconnection Customer's responsibility under the Tariff for the actual Cost of such facilities, and (b) Interconnection Customer's previous aggregate payments to Transmission Provider for the Costs of such facilities. Notwithstanding the foregoing, however, Transmission Provider shall not be obligated to make any payment to either the Interconnection Customer or the Interconnected Transmission Owner that the preceding sentence requires it to make unless and until the Transmission Provider has received the payment that it is required to refund from the Construction Party owing the payment.

11.2.4 Disputes:

In the event of a billing dispute between any of the Construction Parties, Transmission Provider and the Interconnected Transmission Owner shall continue to perform their respective obligations pursuant to this Interconnection Service Agreement and any related Interconnection Construction Service Agreements so long as (a) Interconnection Customer continues to make all payments not in dispute, and (b) the Security held by the Transmission Provider while the dispute is pending exceeds the amount in dispute, or (c) Interconnection Customer pays to Transmission Provider or into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If Interconnection Customer fails to meet any of these requirements, then Transmission Provider shall so inform the other Construction Parties and Transmission Provider or the Interconnected Transmission Owner may provide notice to Interconnection Customer of a Breach pursuant to Section 15 of this Appendix 2.

11.3 No Waiver:

Payment of an invoice shall not relieve Interconnection Customer from any other responsibilities or obligations it has under this Appendix 2, nor shall such payment constitute a waiver of any claims arising hereunder.

11.4 Interest:

Interest on any unpaid amounts shall be calculated in accordance with the methodology specified for interest on refunds in the FERC's regulations at 18 C.F.R. § 35.19a(a)(2)(iii). Interest on delinquent amounts shall be calculated from the due date of the bill to the date of payment.

12.0 Assignment

12.1 Assignment with Prior Consent:

Except as provided in Section 12.2 to this Appendix 2, no Interconnection Party shall assign its rights or delegate its duties, or any part of such rights or duties, under the Interconnection Service Agreement without the written consent of the other Interconnection Parties, which consent shall not be unreasonably withheld, conditioned, or delayed. Any such assignment or delegation made without such written consent shall be null and void. An Interconnection Party may make an assignment in connection with the sale, merger, or transfer of a substantial portion or all of its properties including the Interconnection Facilities which it owns, so long as the assignee in such a sale, merger, or transfer assumes in writing all rights, duties and obligations arising under this Interconnection Service Agreement. In addition, the Interconnected Transmission Owner shall be entitled, subject to Applicable Laws and Regulations, to assign the Interconnection Service Agreement to any Affiliate or successor that owns and operates all or a substantial portion of the Interconnected Transmission Owner's transmission facilities.

12.2 Assignment Without Prior Consent

12.2.1 Assignment to Owners:

Interconnection Customer may assign the Interconnection Service Agreement without the Interconnected Transmission Owner's or Transmission Provider's prior consent to any Affiliate or person that purchases or otherwise acquires, directly or indirectly, all or substantially all of the Customer Facility and the Customer Interconnection Facilities, provided that prior to the effective date of any such assignment, the assignee shall demonstrate that, as of the effective date of the assignment, the assignee has the technical and operational competence to comply with the requirements of this Interconnection Service Agreement and assumes in a writing provided to the Interconnected Transmission Owner and Transmission Provider all rights, duties, and obligations of Interconnection Customer arising under this Interconnection Service Agreement. However, any assignment described herein shall not relieve or discharge the Interconnection Customer from any of its obligations hereunder absent the written consent of the Transmission Provider, such consent not to be unreasonably withheld, conditioned or delayed.

12.2.2 Assignment to Lenders:

Interconnection Customer may, without the consent of the Transmission Provider or the Interconnected Transmission Owner, assign the Interconnection Service Agreement to any Project Finance Entity(ies), provided that such assignment does not alter or diminish Interconnection Customer's duties and obligations under this Interconnection Service Agreement. If Interconnection Customer provides the Interconnected Transmission Owner with notice of an assignment to any Project Finance Entity(ies) and identifies such Project Finance Entities as contacts for notice purposes pursuant to Section 21 of this Appendix 2, the Transmission Provider or Interconnected Transmission Owner shall provide notice and reasonable opportunity for such entity(ies) to cure any Breach under this Interconnection Service Agreement in accordance with this Interconnection Service Agreement. Transmission Provider or Interconnected Transmission Owner shall, if requested by such lenders, provide such customary and reasonable documents, including consents to assignment, as may be reasonably requested with respect to the assignment and status of the Interconnection Service Agreement, provided that such documents do not alter or diminish the rights of the Transmission Provider or Interconnected Transmission Owner under this Interconnection Service Agreement, except with respect to providing notice of Breach to a Project Finance Entity. Upon presentation of the Transmission Provider and/or the Interconnected Transmission Owner's invoice therefor, Interconnection Customer shall pay the Transmission Provider and/or the Interconnected Transmission Owner's reasonable documented cost of providing such documents and certificates. Any assignment described herein shall not relieve or discharge the Interconnection Customer from any of its obligations hereunder absent the written consent of the Interconnected Transmission Owner and Transmission Provider.

12.3 Successors and Assigns:

This Interconnection Service Agreement and all of its provisions are binding upon, and inure to the benefit of, the Interconnection Parties and their respective successors and permitted assigns.

13 Insurance

13.1 Required Coverages For Generation Resources Of More Than 20 Megawatts or Merchant Transmission Facilities:

Each Interconnected Entity shall maintain insurance as described in paragraphs A through E below. All insurance shall be procured from insurance companies rated "A-," VII or better by AM Best and authorized to do business in a state or states in which the Interconnection Facilities are located. Failure to maintain required insurance shall be a Breach of the Interconnection Service Agreement.

- A. Workers Compensation insurance with statutory limits, as required by the state and/or jurisdiction in which the work is to be performed, and employer's liability insurance with limits of not less than one million dollars (\$1,000,000.00).
- B. Commercial General Liability Insurance and/or Excess Liability Insurance covering liability arising out of premises, operations, personal injury, advertising, products and completed operations coverage, independent contractors coverage, liability assumed under an insured contract, coverage for pollution to the extent normally available and punitive damages to the extent allowable under applicable law, with limits of not less than one million dollars (\$1,000,000) per occurrence/one million dollars (\$1,000,000) general aggregate/one million dollars (\$1,000,000) products and completed operations aggregate.
- C. Business/Commercial Automobile Liability Insurance for coverage of owned and non-owned and hired vehicles, trailers or semi-trailers designed for travel on public roads, with a minimum, combined single limit of one million dollars (\$1,000,000) each accident for bodily injury, including death, and property damage.
- D. Excess and/or Umbrella Liability Insurance with a limit of liability of not less than twenty million dollars (\$20,000,000.00) per occurrence. These limits apply in excess of the employer's liability, commercial general liability and business/commercial automobile liability coverages described above. This requirement can be met alone or via a combination of primary, excess and/or umbrella insurance.
- E. Professional Liability Insurance providing errors, omissions and/or malpractice coverage in the amount of five million dollars (\$5,000,000) per occurrence/aggregate. Coverage shall be provided for the Interconnected Entity's duties, responsibilities and performance outlined in this Appendix 2, the Interconnection Service Agreement, and if applicable, the Interconnection Construction Service Agreement.

An Interconnected Entity may meet the Professional Liability Insurance requirements by requiring third-party contractors, designers, or engineers, or other parties that are responsible for design work associated with the transmission facilities or Interconnection Facilities necessary for the interconnection to procure professional liability insurance in the amounts and upon the terms prescribed by this section 13.1(E), and providing evidence of such insurance to the other Interconnected Entity. Such insurance shall be procured from companies rated "A-," VII or better by AM Best and authorized to do business in a state or states in which the Interconnection

Facilities are located. Nothing in this section relieves the Interconnected Entity from complying with the insurance requirements. In the event that the policies of the designers, engineers, or other parties used to satisfy the Interconnected Entity's insurance obligations under this section become invalid for any reason, including but not limited to, (i) the policy(ies) lapsing or otherwise terminating or expiring; (ii) the coverage limits of such policy(ies) are decreased; or (iii) the policy(ies) do not comply with the terms and conditions of the Tariff; Interconnected Entity shall be required to procure insurance sufficient to meet the requirements of this section, such that there is no lapse in insurance coverage. Notwithstanding the foregoing, in the event an Interconnected Entity will not design or construct or cause to design or construct any new transmission facilities or Interconnection Facilities, Transmission Provider, in its discretion, may waive the requirement that an Interconnected Entity maintain the Professional Liability Insurance pursuant to this section.

13.1A. Required Coverages For Generation Resources Of 20 Megawatts Or Less:

Each Interconnected Entity shall maintain the types of insurance as described in section 13.1 paragraphs A through E in an amount sufficient to insure against all reasonably foreseeable direct liabilities given the size and nature of the generating equipment being interconnected, the interconnection itself, and the characteristics of the system to which the interconnection is made. Additional insurance may be required by the Interconnection Customer, as a function of owning and operating a generating facility. All insurance shall be procured from insurance companies rated "A-," VII or better by AM Best and authorized to do business in a state or states in which the Interconnection Facilities are located. Failure to maintain required insurance shall be a Breach of the Interconnection Service Agreement.

13.2 Additional Insureds:

The Commercial General Liability, Business/Commercial Automobile Liability and Excess and/or Umbrella Liability policies procured by each Interconnected Entity (the "Insuring Interconnected Entity") shall include each other Interconnection Party (the "Insured Interconnection Party"), and its respective officers, agents and employees as additional insureds, providing all standard coverages and covering liability of the Insured Interconnection Party arising out of bodily injury and/or property damage (including loss of use) in any way connected with the operations, performance, or lack of performance under this Interconnection Service Agreement.

13.3 Other Required Terms:

The above-mentioned insurance policies (except workers' compensation) shall provide the following:

(a) Each policy shall contain provisions that specify that it is primary and non contributory for any liability arising out of that party's negligence, and shall apply to such extent without consideration for other policies separately carried and shall state that each insured is provided coverage as though a separate policy had been issued to each, except the insurer's

liability shall not be increased beyond the amount for which the insurer would have been liable had only one insured been covered. Each Insuring Interconnected Entity shall be responsible for its respective deductibles or retentions.

- (b) If any coverage is written on a Claims First Made Basis, continuous coverage shall be maintained or an extended discovery period will be exercised for a period of not less than two (2) years after termination of the Interconnection Service Agreement.
- (c) Provide for a waiver of all rights of subrogation which the Insuring Interconnected Entity's insurance carrier might exercise against the Insured Interconnection Party.

13.3A No Limitation of Liability:

The requirements contained herein as to the types and limits of all insurance to be maintained by the Interconnected Entities are not intended to and shall not in any manner, limit or qualify the liabilities and obligations assumed by the Interconnection Parties under the Interconnection Service Agreement.

13.4 Self-Insurance:

Notwithstanding the foregoing, each Interconnected Entity may self-insure to meet the minimum insurance requirements of this Section 13 of this Appendix 2 to the extent it maintains a self-insurance program, provided that such Interconnected Entity's senior secured debt is rated at investment grade or better by Standard & Poor's and its self-insurance program meets the minimum insurance requirements of this Section 13. For any period of time that an Interconnected Entity's senior secured debt is unrated by Standard & Poor's or is rated at less than investment grade by Standard & Poor's, such Party shall comply with the insurance requirements applicable to it under this Section 13. In the event that an Interconnected Entity is permitted to self-insure pursuant to this section, it shall notify the other Interconnection Parties that it meets the requirements to self-insure and that its self-insurance program meets the minimum insurance requirements in a manner consistent with that specified in Section 13.5 of this Appendix 2.

13.5 Notices: Certificates of Insurance:

All policies of insurance shall provide for thirty days prior written notice of cancellation or material adverse change. If the policies of insurance do not or cannot be endorsed to provide thirty days prior notice of cancellation or material adverse change, each Interconnected Entity shall provide the other Interconnected Entities with thirty days prior written notice of cancellation or material adverse change to any of the insurance required in this agreement. Each Interconnected Entity shall provide the other with certificates of insurance prior to Initial Operation of the Customer Facility and thereafter at such time intervals as they shall mutually agree upon, provided that such interval shall not be less than one year. All certificates of insurance shall indicate that the certificate holder is included as an additional insured under the Commercial General Liability, Business/Commercial Automobile Liability and Excess and/or

Umbrella Liability coverages, and that this insurance is primary with a waiver of subrogation included in favor of the other Interconnected Entities.

13.6 Subcontractor Insurance:

In accord with Good Utility Practice, each Interconnected Entity shall require each of its subcontractors to maintain and provide evidence of insurance coverage of types, and in amounts, commensurate with the risks associated with the services provided by the subcontractor. Bonding of contractors or subcontractors shall be at the hiring Interconnected Entity's discretion, but regardless of bonding, the hiring principal shall be responsible for the performance or non-performance of any contractor or subcontractor it hires.

13.7 Reporting Incidents

The Interconnection Parties shall report to each other in writing as soon as practical all accidents or occurrences resulting in injuries to any person, including death, and any property damage arising out of the Interconnection Service Agreement.

14 Indemnity

14.1 Indemnity:

Each Interconnection Party shall indemnify and hold harmless the other Interconnection Parties, and the other Interconnection Parties' officers, shareholders, stakeholders, members, managers, representatives, directors, agents and employees, and Affiliates, from and against any and all loss, liability, damage, cost or expense to third parties, including damage and liability for bodily injury to or death of persons, or damage to property or persons (including reasonable attorneys' fees and expenses, litigation costs, consultant fees, investigation fees, sums paid in settlements of claims, penalties or fines imposed under Applicable Laws and Regulations, and any such fees and expenses incurred in enforcing this indemnity or collecting any sums due hereunder) (collectively, "Loss") to the extent arising out of, in connection with, or resulting from (i) the indemnifying Interconnection Party's breach of any of the representations or warranties made in, or failure of the indemnifying Interconnection Party or any of its subcontractors to perform any of its obligations under, this Interconnection Service Agreement (including Appendix 2), or (ii) the negligence or willful misconduct of the indemnifying Interconnection Party or its contractors; provided, however, that no Interconnection Party shall have any indemnification obligations under this Section 14.1 in respect of any Loss to the extent the Loss results from the negligence or willful misconduct of the Interconnection Party seeking indemnity.

14.2 Indemnity Procedures:

Promptly after receipt by a Person entitled to indemnity ("Indemnified Person") of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in Section 14.1 may apply, the Indemnified Person shall notify the indemnifying Interconnection Party of such fact. Any failure of or delay in such notification shall not affect an Interconnection Party's indemnification obligation unless such

failure or delay is materially prejudicial to the indemnifying Interconnection Party. The Indemnified Person shall cooperate with the indemnifying Interconnection Party with respect to the matter for which indemnification is claimed. The indemnifying Interconnection Party shall have the right to assume the defense thereof with counsel designated by such indemnifying Interconnection Party and reasonably satisfactory to the Indemnified Person. If the defendants in any such action include one or more Indemnified Persons and the indemnifying Interconnection Party and if the Indemnified Person reasonably concludes that there may be legal defenses available to it and/or other Indemnified Persons which are different from or additional to those available to the indemnifying Interconnection Party, the Indemnified Person shall have the right to select separate counsel to assert such legal defenses and to otherwise participate in the defense of such action on its own behalf. In such instances, the indemnifying Interconnection Party shall only be required to pay the fees and expenses of one additional attorney to represent an Indemnified Person or Indemnified Persons having such differing or additional legal defenses. The Indemnified Person shall be entitled, at its expense, to participate in any action, suit or proceeding, the defense of which has been assumed by the indemnifying Interconnection Party. Notwithstanding the foregoing, the indemnifying Interconnection Party (i) shall not be entitled to assume and control the defense of any such action, suit or proceedings if and to the extent that, in the opinion of the Indemnified Person and its counsel, such action, suit or proceeding involves the potential imposition of criminal liability on the Indemnified Person, or there exists a conflict or adversity of interest between the Indennified Person and the indennifying Interconnection Party, in such event the indemnifying Interconnection Party shall pay the reasonable expenses of the Indemnified Person, and (ii) shall not settle or consent to the entry of any judgment in any action, suit or proceeding without the consent of the Indemnified Person, which shall not be unreasonably withheld, conditioned or delayed.

14.3 Indemnified Person:

If an Indemnified Person is entitled to indemnification under this Section 14 as a result of a claim by a third party, and the indemnifying Interconnection Party fails, after notice and reasonable opportunity to proceed under Section 14.2 of this Appendix 2, to assume the defense of such claim, such Indemnified Person may at the expense of the indemnifying Interconnection Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.

14.4 Amount Owing:

If an indemnifying Interconnection Party is obligated to indemnify and hold any Indemnified Person harmless under this Section 14, the amount owing to the Indemnified Person shall be the amount of such Indemnified Person's actual Loss, net of any insurance or other recovery.

14.5 Limitation on Damages:

Except as otherwise provided in this Section 14, the liability of an Interconnection Party under this Appendix 2 shall be limited to direct actual damages, and all other damages at law are waived. Under no circumstances shall any Interconnection Party or its Affiliates, directors, officers, employees and agents, or any of them, be liable to another Interconnection Party, whether in tort, contract or other basis in law or equity for any special, indirect punitive,

exemplary or consequential damages, including lost profits. The limitations on damages specified in this Section 14.5 are without regard to the cause or causes related thereto, including the negligence of any Interconnection Party, whether such negligence be sole, joint or concurrent, or active or passive. This limitation on damages shall not affect any Interconnection Party's rights to obtain equitable relief as otherwise provided in this Appendix 2. The provisions of this Section 14.5 shall survive the termination or expiration of the Interconnection Service Agreement.

14.6 Limitation of Liability in Event of Breach:

An Interconnection Party ("Breaching Party") shall have no liability hereunder to the other Interconnection Parties, and the other Interconnection Parties hereby release the Breaching Party, for all claims or damages that either of them incurs that are associated with any interruption in the availability of the Customer Facility, Interconnection Facilities, Transmission System or Interconnection Service or damages to an Interconnection Party's facilities, except to the extent such interruption or damage is caused by the Breaching Party's gross negligence or willful misconduct in the performance of its obligations under this Interconnection Service Agreement (including Appendix 2).

14.7 Limited Liability in Emergency Conditions:

Except as otherwise provided in the Tariff or the Operating Agreement, no Interconnection Party shall be liable to any other Interconnection Party for any action that it takes in responding to an Emergency Condition, so long as such action is made in good faith, is consistent with Good Utility Practice and is not contrary to the directives of the Transmission Provider or of the Interconnected Transmission Owner with respect to such Emergency Condition. Notwithstanding the above, Interconnection Customer shall be liable in the event that it fails to comply with any instructions of Transmission Provider or the Interconnected Transmission Owner related to an Emergency Condition.

15 Breach, Cure And Default

15.1 Breach:

A Breach of this Interconnection Service Agreement shall include:

- (a) The failure to pay any amount when due;
- (b) The failure to comply with any material term or condition of this Appendix 2 or of the other portions of the Interconnection Service Agreement, including but not limited to any material breach of a representation, warranty or covenant (other than in subsections (a) and (c)-(e) of this Section) made in this Appendix 2;
- (c) Assignment of the Interconnection Service Agreement in a manner inconsistent with its terms:

- (d) Failure of an Interconnection Party to provide access rights, or an Interconnection Party's attempt to revoke or terminate access rights, that are provided under this Appendix 2; or
- (e) Failure of an Interconnection Party to provide information or data required to be provided under this Appendix 2 to another Interconnection Party for such other Interconnection Party to satisfy its obligations under this Appendix 2.

15.2 Continued Operation:

In the event of a Breach or Default by either Interconnected Entity, and subject to termination of the Interconnection Service Agreement under Section 16 of this Appendix 2, the Interconnected Entities shall continue to operate and maintain, as applicable, such DC power systems, protection and Metering Equipment, telemetering equipment, SCADA equipment, transformers, Secondary Systems, communications equipment, building facilities, software, documentation, structural components, and other facilities and appurtenances that are reasonably necessary for Transmission Provider and the Interconnected Transmission Owner to operate and maintain the Transmission System and the Transmission Owner Interconnection Facilities and for Interconnection Customer to operate and maintain the Customer Facility and the Customer Interconnection Facilities, in a safe and reliable manner.

15.3 Notice of Breach:

An Interconnection Party not in Breach shall give written notice of an event of Breach to the Breaching Party, to Transmission Provider and to other persons that the Breaching Party identifies in writing to the other Interconnection Party in advance. Such notice shall set forth, in reasonable detail, the nature of the Breach, and where known and applicable, the steps necessary to cure such Breach. In the event of a Breach by Interconnection Customer, Transmission Provider and the Interconnected Transmission Owner agree to provide notice of such Breach, at the same time and in the same manner as its notice to Interconnection Customer, to any Project Finance Entity provided that the Interconnection Customer has provided the notifying Interconnection Party with notice of an assignment to such Project Finance Entity(ies) and identifies such Project Finance Entity(ies) as contacts for notice purposes pursuant to Section 21 of this Appendix 2.

15.4 Cure and Default:

An Interconnection Party that commits a Breach and does not take steps to cure the Breach pursuant to this Section 15.4 is in Default of this Appendix 2 and of the Interconnection Service Agreement.

15.4.1 Cure of Breach:

Except for the event of Breach set forth in Section 15.1(a) above, the Breaching Interconnection Party (a) may cure the Breach within thirty days from the receipt of such notice; or (b) if the Breach cannot be cured within thirty (30) days, may commence in good faith all steps that are reasonable and appropriate to cure the Breach within such thirty day time period and thereafter

diligently pursue such action to completion. In an event of Breach set forth in Section 15.1(a), the Breaching Interconnection Party may cure the Breach within five (5) days from the receipt of notice of the Breach.

15.5 Right to Compel Performance:

Notwithstanding the foregoing, upon the occurrence of an event of Default, a non-Defaulting Interconnection Party shall be entitled to (a) commence an action to require the Defaulting Interconnection Party to remedy such Default and specifically perform its duties and obligations hereunder in accordance with the terms and conditions hereof, (b) withhold payments, (c) suspend performance hereunder, and (d) exercise such other rights and remedies as it may have in equity or at law; provided, however, that the Transmission Provider shall not terminate the Interconnection Service Agreement due to the failure of Interconnection Customer to make a payment hereunder unless such failure could reasonably be expected to have a material adverse effect on the Interconnected Transmission Owner.

15.6 Remedies Cumulative:

Subject to Section 20.1, no remedy conferred by any provision of this Appendix 2 is intended to be exclusive of any other remedy and each and every remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. The election of any one or more remedies shall not constitute a waiver of the right to pursue other available remedies.

16 Termination

16.1 Termination:

This Interconnection Service Agreement and Interconnection Service under this Interconnection Service Agreement may be terminated by the following means:

16.1.1 By Mutual Consent:

Interconnection Service may be terminated as of the date on which the Interconnection Parties mutually agree to terminate the Interconnection Service Agreement.

16.1.2 By Interconnection Customer:

Interconnection Customer may unilaterally terminate the Interconnection Service Agreement pursuant to Applicable Laws and Regulations upon providing Transmission Provider and the Interconnected Transmission Owner sixty (60) days prior written notice thereof, provided that Interconnection Customer is not then in Default under the Interconnection Service Agreement.

16.1.3 Upon Default of Interconnection Customer:

Transmission Provider may terminate the Interconnection Service Agreement upon the Default of Interconnection Customer of its obligations under the Interconnection Service Agreement by providing Interconnection Customer and the Interconnected Transmission Owner prior written notice of termination; provided, however, that Transmission Provider shall not terminate the Interconnection Service Agreement due to the failure of Interconnection Customer to make a payment hereunder unless such failure could reasonably be expected to have a material adverse effect on the Interconnected Transmission Owner.

16.2 Disposition of Facilities Upon Termination

16.2.1 Disconnection:

Upon termination of the Interconnection Service Agreement in accordance with this Section 16, Transmission Provider and/or the Interconnected Transmission Owner shall, in coordination with Interconnection Customer, physically disconnect the Customer Facility from the Transmission System, except to the extent otherwise allowed by this Appendix 2.

16.2.2 Network Facilities:

At the time of termination, the Transmission Provider and the Interconnected Entities shall keep in place any portion of the Interconnection Facilities and/or of any Merchant Network Upgrades that the Transmission Provider deems necessary for the safety, integrity and/or reliability of the Transmission System. Otherwise, Transmission Provider may, in its discretion, within 30 days following termination of Interconnection Service, require the removal of all or any part of the Interconnection Facilities or of any Merchant Network Upgrades.

- 16.2.2.1 In the event that (i) the Interconnection Service Agreement and Interconnection Service under this Appendix 2 are terminated and (ii) Transmission Provider determines that some or all of the Interconnection Facilities or of any Merchant Network Upgrades that are owned by the Interconnection Customer are necessary for the safety, integrity and/or reliability of the Transmission System, Interconnection Customer, subject to Applicable Laws and Regulations, shall transfer to the Interconnected Transmission Owner title to the Interconnection Facilities or Merchant Network Upgrades that Transmission Provider has determined to be necessary for the safety, integrity and/or reliability of the Transmission System.
- 16.2.2.2 In the event that removal of some or all of the Interconnection Facilities or any Merchant Network Upgrades is necessary to maintain compliance with Applicable Standards, Interconnection Customer shall be responsible for the costs of any such removal. Interconnection Customer shall have the right to take or retain title to equipment and/or facilities that are removed pursuant to this section; alternatively, in the event that the Interconnection Customer does not wish to retain title to removed equipment and/or facilities that it owns, the Interconnected Transmission Owner may elect to pay the Interconnection Customer a mutually agreed amount to acquire and own such equipment and/or facilities.

16.2.3 Request for Disposition Determination:

Interconnection Customer may request a determination from the Transmission Provider whether any Interconnection Facilities or any Merchant Network Upgrades will be removed in the event of any termination of Interconnection Service to the Customer Facility within the following year. Transmission Provider shall respond to that request no later than sixty (60) days after receipt.

16.3 FERC Approval:

Notwithstanding any other provision of this Appendix 2, no termination hereunder shall become effective until the Interconnected Entities and/or Transmission Provider have complied with all Applicable Laws and Regulations applicable to such termination, including the filing with the FERC of a notice of termination of the Interconnection Service Agreement, and acceptance of such notice for filing by the FERC.

16.4 Survival of Rights:

Termination of this Interconnection Service Agreement shall not relieve any Interconnection Party of any of its liabilities and obligations arising under this Interconnection Service Agreement (including Appendix 2) prior to the date on which termination becomes effective, and each Interconnection Party may take whatever judicial or administrative actions it deems desirable or necessary to enforce its rights hereunder. Applicable provisions of this Appendix 2 will continue in effect after termination to the extent necessary to provide for final billings, billing adjustments, and the determination and enforcement of liability and indemnification obligations arising from events or acts that occurred while the Interconnection Service Agreement was in effect.

17 Confidentiality:

Information is Confidential Information only if it is clearly designated or marked in writing as confidential on the face of the document, or, if the information is conveyed orally or by inspection, if the Interconnection Party providing the information orally informs the Interconnection Party receiving the information that the information is confidential. If requested by any Interconnection Party, the disclosing Interconnection Party shall provide in writing the basis for asserting that the information referred to in this section warrants confidential treatment, and the requesting Interconnection Party may disclose such writing to an appropriate Governmental Authority. Any Interconnection Party shall be responsible for the costs associated with affording confidential treatment to its information.

17.1 Term:

During the term of the Interconnection Service Agreement, and for a period of three (3) years after the expiration or termination of the Interconnection Service Agreement, except as otherwise provided in this Section 17, each Interconnection Party shall hold in confidence, and shall not disclose to any person, Confidential Information provided to it by any other Interconnection Party.

17.2 Scope:

Confidential Information shall not include information that the receiving Interconnection Party can demonstrate: (i) is generally available to the public other than as a result of a disclosure by the receiving Interconnection Party; (ii) was in the lawful possession of the receiving Interconnection Party on a non-confidential basis before receiving it from the disclosing Interconnection Party; (iii) was supplied to the receiving Interconnection Party without restriction by a third party, who, to the knowledge of the receiving Interconnection Party, after due inquiry, was under no obligation to the disclosing Interconnection Party to keep such information confidential; (iv) was independently developed by the receiving Interconnection Party without reference to Confidential Information of the disclosing Interconnection Party; (v) is, or becomes, publicly known, through no wrongful act or omission of the receiving Interconnection Party or breach of this Appendix 2; or (vi) is required, in accordance with Section 17.7 of this Appendix 2, to be disclosed to any Governmental Authority or is otherwise required to be disclosed by law or subpoena, or is necessary in any legal proceeding establishing rights and obligations under the Interconnection Service Agreement. Information designated as Confidential Information shall no longer be deemed confidential if the Interconnection Party that designated the information as confidential notifies the other Interconnection Parties that it no longer is confidential.

17.3 Release of Confidential Information:

No Interconnection Party shall disclose Confidential Information to any other person, except to its Affiliates (limited by the Commission's Standards of Conduct requirements), subcontractors, employees, consultants or to parties who may be or considering providing financing to or equity participation in Interconnection Customer or to potential purchasers or assignees of Interconnection Customer, on a need-to-know basis in connection with the Interconnection Service Agreement, unless such person has first been advised of the confidentiality provisions of this Section 17 and has agreed to comply with such provisions. Notwithstanding the foregoing, an Interconnection Party providing Confidential Information to any person shall remain primarily responsible for any release of Confidential Information in contravention of this Section 17.

17.4 Rights:

Each Interconnection Party retains all rights, title, and interest in the Confidential Information that it discloses to any other Interconnection Party. An Interconnection Party's disclosure to another Interconnection Party of Confidential Information shall not be deemed a waiver by any Interconnection Party or any other person or entity of the right to protect the Confidential Information from public disclosure.

17.5 No Warranties:

By providing Confidential Information, no Interconnection Party makes any warranties or representations as to its accuracy or completeness. In addition, by supplying Confidential Information, no Interconnection Party obligates itself to provide any particular information or

Confidential Information to any other Interconnection Party nor to enter into any further agreements or proceed with any other relationship or joint venture.

17.6 Standard of Care:

Each Interconnection Party shall use at least the same standard of care to protect Confidential Information it receives as the Interconnection Party uses to protect its own Confidential Information from unauthorized disclosure, publication or dissemination. Each Interconnection Party may use Confidential Information solely to fulfill its obligations to the other Interconnection Parties under the Interconnection Service Agreement or to comply with Applicable Laws and Regulations.

17.7 Order of Disclosure:

If a Governmental Authority with the right, power, and apparent authority to do so requests or requires an Interconnection Party, by subpoena, oral deposition, interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Interconnection Party shall provide the Interconnection Party that provided the information with prompt prior notice of such request(s) or requirement(s) so that the providing Interconnection Party may seek an appropriate protective order or waive compliance with the terms of this Appendix 2 or the Interconnection Service Agreement. Notwithstanding the absence of a protective order or agreement, or waiver, the Interconnection Party that is subjected to the request or order may disclose such Confidential Information which, in the opinion of its counsel, the Interconnection Party is legally compelled to disclose. Each Interconnection Party shall use Reasonable Efforts to obtain reliable assurance that confidential treatment will be accorded any Confidential Information so furnished.

17.8 Termination of Interconnection Service Agreement:

Upon termination of the Interconnection Service Agreement for any reason, each Interconnection Party shall, within ten (10) calendar days of receipt of a written request from another party, use Reasonable Efforts to destroy, erase, or delete (with such destruction, erasure and deletion certified in writing to the requesting party) or to return to the other party, without retaining copies thereof, any and all written or electronic Confidential Information received from the requesting party.

17.9 Remedies:

The Interconnection Parties agree that monetary damages would be inadequate to compensate an Interconnection Party for another Interconnection Party's Breach of its obligations under this Section 17. Each Interconnection Party accordingly agrees that the other Interconnection Parties shall be entitled to equitable relief, by way of injunction or otherwise, if the first Interconnection Party breaches or threatens to breach its obligations under this Section 17, which equitable relief shall be granted without bond or proof of damages, and the receiving Interconnection Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed to be an exclusive remedy for the breach of this Section 17, but shall be in addition to all

other remedies available at law or in equity. The Interconnection Parties further acknowledge and agree that the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Interconnection Party, however, shall be liable for indirect, incidental or consequential or punitive damages of any nature or kind resulting from or arising in connection with this Section 17.

17.10 Disclosure to FERC or its Staff:

Notwithstanding anything in this Section 17 to the contrary, and pursuant to 18 C.F.R. § 1b.20, if FERC or its staff, during the course of an investigation or otherwise, requests information from one of the Interconnection Parties that is otherwise required to be maintained in confidence pursuant to this Interconnection Service Agreement, the Interconnection Party, shall provide the requested information to FERC or its staff, within the time provided for in the request for information. In providing the information to FERC or its staff, the Interconnection Party must, consistent with 18 C.F.R. § 388.122, request that the information be treated as confidential and non-public by FERC and its staff and that the information be withheld from public disclosure. Interconnection Parties are prohibited from notifying the other Interconnection Parties prior to the release of the Confidential Information to the Commission or its staff. An Interconnection Party shall notify the other Interconnection Parties to the Interconnection Service Agreement when it is notified by FERC or its staff that a request to release Confidential Information has been received by FERC, at which time any of the Interconnection Parties may respond before such information would be made public, pursuant to 18 C.F.R. § 388.112.

17.11

Subject to the exception in Section 17.10 of this Appendix 2, no Interconnection Party shall disclose Confidential Information of another Interconnection Party to any person not employed or retained by the Interconnection Party, except to the extent disclosure is (i) required by law; (ii) reasonably deemed by the disclosing Interconnection Party to be required in connection with a dispute between or among the Interconnection Parties, or the defense of litigation or dispute; (iii) otherwise permitted by consent of the Interconnection Party that provided such Confidential Information, such consent not to be unreasonably withheld; or (iv) necessary to fulfill its obligations under this Interconnection Service Agreement or as a transmission service provider or a Control Area operator including disclosing the Confidential Information to an RTO or ISO or to a regional or national reliability organization. Prior to any disclosures of another Interconnection Party's Confidential Information under this subparagraph, the disclosing Interconnection Party shall promptly notify the other Interconnection Parties in writing and shall assert confidentiality and cooperate with the other Interconnection Parties in seeking to protect the Confidential Information from public disclosure by confidentiality agreement, protective order or other reasonable measures.

17.12

This provision shall not apply to any information that was or is hereafter in the public domain (except as a result of a Breach of this provision).

17.13 Return or Destruction of Confidential Information:

If an Interconnection Party provides any Confidential Information to another Interconnection Party in the course of an audit or inspection, the providing Interconnection Party may request the other party to return or destroy such Confidential Information after the termination of the audit period and the resolution of all matters relating to that audit. Each Interconnection Party shall make Reasonable Efforts to comply with any such requests for return or destruction within ten days of receiving the request and shall certify in writing to the other Interconnection Party that it has complied with such request.

18 Subcontractors

18.1 Use of Subcontractors:

Nothing in this Appendix 2 shall prevent the Interconnection Parties from utilizing the services of subcontractors as they deem appropriate to perform their respective obligations hereunder, provided however, that each Interconnection Party shall require its subcontractors to comply with all applicable terms and conditions of this Appendix 2 in providing such services.

18.2 Responsibility of Principal:

The creation of any subcontract relationship shall not relieve the hiring Interconnection Party of any of its obligations under this Appendix 2. Each Interconnection Party shall be fully responsible to the other Interconnection Parties for the acts and/or omissions of any subcontractor it hires as if no subcontract had been made.

18.3 Indemnification by Subcontractors:

To the fullest extent permitted by law, an Interconnection Party that uses a subcontractor to carry out any of the Interconnection Party's obligations under this Appendix 2 shall require each of its subcontractors to indennify, hold harmless and defend each other Interconnection Party, its representatives and assigns from and against any and all claims and/or liability for damage to property, injury to or death of any person, including the employees of any Interconnection Party or of any Affiliate of any Interconnection Party, or any other liability incurred by the other Interconnection Party or any of its Affiliates, including all expenses, legal or otherwise, to the extent caused by any act or omission, negligent or otherwise, by such subcontractor and/or its officers, directors, employees, agents and assigns, that arises out of or is connected with the operation of the facilities of either Interconnected Entity described in this Appendix 2; provided, however, that no Interconnection Party or Affiliate thereof shall be entitled to indemnity under this Section 18.3 in respect of any injury, loss, or damage to the extent that such loss, injury, or damage results from the negligence or willful misconduct of the Interconnection Party or Affiliate seeking indemnity.

18.4 Subcontractors Not Beneficiaries:

No subcontractor is intended to be, or shall be deemed to be, a third-party beneficiary of an Interconnection Service Agreement.

19 Information Access And Audit Rights

19.1 Information Access:

Consistent with Applicable Laws and Regulations, each Interconnection Party shall make available such information and/or documents reasonably requested by another Interconnection Party that are necessary to (i) verify the costs incurred by the other Interconnection Party for which the requesting Interconnection Party is responsible under this Appendix 2 and (ii) carry out obligations and responsibilities under this Appendix 2, provided that the Interconnection Parties shall not use such information for purposes other than those set forth in this Section 19.1 and to enforce their rights under this Appendix 2.

19.2 Reporting of Non-Force Majeure Events:

Each Interconnection Party shall notify the other Interconnection Parties when it becomes aware of its inability to comply with the provisions of this Appendix 2 for a reason other than an event of force majeure as defined in Section 9.4 of this Appendix 2. The parties agree to cooperate with each other and provide necessary information regarding such inability to comply, including, but not limited to, the date, duration, reason for the inability to comply, and corrective actions taken or planned to be taken with respect to such inability to comply. Notwithstanding the foregoing, notification, cooperation or information provided under this Section shall not entitle the receiving Interconnection Party to allege a cause of action for anticipatory breach of the Interconnection Service Agreement.

19.3 Audit Rights:

Subject to the requirements of confidentiality under Section 17 of this Appendix 2, each Interconnection Party shall have the right, during normal business hours, and upon prior reasonable notice to the pertinent other Interconnection Party, to audit at its own expense the other Interconnection Party's accounts and records pertaining to such Interconnection Party's performance and/or satisfaction of obligations arising under this Appendix 2. Any audit authorized by this Section shall be performed at the offices where such accounts and records are maintained and shall be limited to those portions of such accounts and records that relate to obligations under this Appendix 2. Any request for audit shall be presented to the Interconnection Party to be audited not later than twenty-four months after the event as to which the audit is sought. Each Interconnection Party shall preserve all records held by it for the duration of the audit period.

20 Disputes

20.1 Submission:

Any claim or dispute that any Interconnection Party may have against another arising out of the Interconnection Service Agreement may be submitted for resolution in accordance with the dispute resolution provisions of the Tariff.

20.2 Rights Under The Federal Power Act:

Nothing in this Section shall restrict the rights of any Interconnection Party to file a complaint with FERC under relevant provisions of the Federal Power Act.

20.3 Equitable Remedies:

Nothing in this Section shall prevent any Interconnection Party from pursuing or seeking any equitable remedy available to it under Applicable Laws and Regulations.

21 Notices

21.1 General:

Any notice, demand or request required or permitted to be given by any Interconnection Party to another and any instrument required or permitted to be tendered or delivered by any Interconnection Party in writing to another may be so given, tendered or delivered, by recognized national courier, or by depositing the same with the United States Postal Service with postage prepaid, for delivery by certified or registered mail, addressed to the Interconnection Party, or personally delivered to the Interconnection Party, at the address specified in the Interconnection Service Agreement. Such notices, if agreed to by the Interconnection Parties, may be made via electronic means, with e-mail confirmation of delivery.

21.2 Emergency Notices:

Moreover, notwithstanding the foregoing, any notice hereunder concerning an Emergency Condition or other occurrence requiring prompt attention, or as necessary during day-to-day operations, may be made by telephone or in person, provided that such notice is confirmed in writing promptly thereafter. Notice in an Emergency Condition, or as necessary during day-to-day operations, shall be provided (i) if by the Interconnected Transmission Owner, to the shift supervisor at, as applicable, a Generation Interconnection Customer's Customer Facility or a Transmission Interconnection Customer's control center; and (ii) if by the Interconnection Customer, to the shift supervisor at the Interconnected Transmission Owner's transmission control center.

21.3 Operational Contacts:

Each Interconnection Party shall designate, and provide to each other Interconnection Party contact information concerning, a representative to be responsible for addressing and resolving operational issues as they arise during the term of the Interconnection Service Agreement.

22 Miscellaneous

22.1 Regulatory Filing:

In the event that this Interconnection Service Agreement contains any terms that deviate materially from the form included in Attachment O of the Tariff, Transmission Provider shall file the Interconnection Service Agreement on behalf of itself and the Interconnected Transmission Owner with FERC as a service schedule under the Tariff within thirty days after execution. Interconnection Customer may request that any information so provided be subject to the confidentiality provisions of Section 17 of this Appendix 2. An Interconnection Customer shall have the right, with respect to any Interconnection Service Agreement tendered to it, to request (a) dispute resolution under Section 12 of the Tariff or, if concerning the Regional Transmission Expansion Plan, consistent with Schedule 5 of the Operating Agreement, or (b) that Transmission Provider file the agreement unexecuted with the Commission. With the filing of any unexecuted Interconnection Service Agreement, Transmission Provider may, in its discretion, propose to FERC a resolution of any or all of the issues in dispute between or among the Interconnection Parties.

22.2 Waiver:

Any waiver at any time by an Interconnection Party of its rights with respect to a Breach or Default under this Interconnection Service Agreement or with respect to any other matters arising in connection with this Appendix 2, shall not be deemed a waiver or continuing waiver with respect to any subsequent Breach or Default or other matter.

22.3 Amendments and Rights Under the Federal Power Act:

This Interconnection Service Agreement may be amended or supplemented only by a written instrument duly executed by all Interconnection Parties. An amendment to the Interconnection Service Agreement shall become effective and a part of this Interconnection Service Agreement upon satisfaction of all Applicable Laws and Regulations. Notwithstanding the foregoing, nothing contained in this Interconnection Service Agreement shall be construed as affecting in any way any of the rights of any Interconnection Party with respect to changes in applicable rates or charges under Section 205 of the Federal Power Act and/or FERC's rules and regulations thereunder, or any of the rights of any Interconnection Party under Section 206 of the Federal Power Act and/or FERC's rules and regulations thereunder. The terms and conditions of this Interconnection Service Agreement and every appendix referred to therein shall be amended, as mutually agreed by the Interconnection Parties, to comply with changes or alterations made necessary by a valid applicable order of any Governmental Authority having jurisdiction hereof.

22.4 Binding Effect:

This Interconnection Service Agreement, including this Appendix 2, and the rights and obligations thereunder shall be binding upon, and shall inure to the benefit of, the successors and assigns of the Interconnection Parties.

22.5 Regulatory Requirements:

Each Interconnection Party's performance of any obligation under this Interconnection Service Agreement for which such party requires approval or authorization of any Governmental Authority shall be subject to its receipt of such required approval or authorization in the form and substance satisfactory to the receiving Interconnection Party, or the Interconnection Party making any required filings with, or providing notice to, such Governmental Authorities, and the expiration of any time period associated therewith. Each Interconnection Party shall in good faith seek, and shall use Reasonable Efforts to obtain, such required authorizations or approvals as soon as reasonably practicable.

23 Representations And Warranties

23.1 General:

Each Interconnected Entity hereby represents, warrants and covenants as follows with these representations, warranties, and covenants effective as to the Interconnected Entity during the time the Interconnection Service Agreement is effective:

23.1.1 Good Standing:

Such Interconnected Entity is duly organized or formed, as applicable, validly existing and in good standing under the laws of its State of organization or formation, and is in good standing under the laws of the respective State(s) in which it is incorporated and operates as stated in the Interconnection Service Agreement.

23.1.2 Authority:

Such Interconnected Entity has the right, power and authority to enter into the Interconnection Service Agreement, to become a party hereto and to perform its obligations hereunder. The Interconnection Service Agreement is a legal, valid and binding obligation of such Interconnected Entity, enforceable against such Interconnected Entity in accordance with its terms, except as the enforceability thereof may be limited by applicable bankruptcy, insolvency, reorganization or other similar laws affecting creditors' rights generally and by general equitable principles (regardless of whether enforceability is sought in a proceeding in equity or at law).

23.1.3 No Conflict: .

The execution, delivery and performance of the Interconnection Service Agreement does not violate or conflict with the organizational or formation documents, or bylaws or operating agreement, of the Interconnected Entity, or with any judgment, license, permit, order, material agreement or instrument applicable to or binding upon the Interconnected Entity or any of its assets.

23.1.4 Consent and Approval:

Such Interconnected Entity has sought or obtained, or, in accordance with the Interconnection Service Agreement will seek or obtain, each consent, approval, authorization, order, or acceptance by any Governmental Authority in connection with the execution, delivery and performance of the Interconnection Service Agreement and it will provide to any Governmental Authority notice of any actions under this Appendix 2 that are required by Applicable Laws and Regulations.

24 Tax Liability

24.1 Safe Harbor Provisions:

This Section 24.1 is applicable only to Generation Interconnection Customers. Provided that Interconnection Customer agrees to conform to all requirements of the Internal Revenue Service ("IRS") (e.g., the "safe harbor" provisions of IRS Notices 2001-82 and 88-129) that would confer nontaxable status on some or all of the transfer of property, including money, by Interconnection Customer to the Interconnected Transmission Owner for payment of the Costs of construction of the Transmission Owner Interconnection Facilities, the Interconnected Transmission Owner, based on such agreement and on current law, shall treat such transfer of property to it as nontaxable income and, except as provided in Section 24.4.2 below, shall not include income taxes in the Costs of Transmission Owner Interconnection Facilities that are payable by Interconnection Customer under the Interconnection Service Agreement or the Interconnection Construction Service Agreement. Interconnection Customer shall document its agreement to conform to IRS requirements for such non-taxable status in the Interconnection Service Agreement, the Interconnection Construction Service Agreement, and/or the Interim Interconnection Service Agreement.

24.2 Tax Indemnity:

Interconnection Customer shall indensify the Interconnected Transmission Owner for any costs that Interconnected Transmission Owner incurs in the event that the IRS and/or a state department of revenue (State) determines that the property, including money, transferred by Interconnection Customer to the Interconnected Transmission Owner with respect to the construction of the Transmission Owner Interconnection Facilities and/or any Merchant Network Upgrades is taxable income to the Interconnected Transmission Owner. Interconnection Customer shall pay to the Interconnected Transmission Owner, on demand, the amount of any income taxes that the IRS or a State assesses to the Interconnected Transmission Owner in connection with such transfer of property and/or money, plus any applicable interest and/or penalty charged to the Interconnected Transmission Owner. In the event that the Interconnected Transmission Owner chooses to contest such assessment, either at the request of Interconnection Customer or on its own behalf, and prevails in reducing or eliminating the tax, interest and/or penalty assessed against it, the Interconnected Transmission Owner shall refund to Interconnection Customer the excess of its demand payment made to the Interconnected Transmission Owner over the amount of the tax, interest and penalty for which the Interconnected Transmission Owner is finally determined to be liable. Interconnection Customer's tax indemnification obligation under this section shall survive any termination of the Interconnection Service Agreement or Interconnection Construction Service Agreement.

24.3 Taxes Other Than Income Taxes:

Upon the timely request by Interconnection Customer, and at Interconnection Customer's sole expense, the Interconnected Transmission Owner shall appeal, protest, seek abatement of, or otherwise contest any tax (other than federal or state income tax) asserted or assessed against the Interconnected Transmission Owner for which Interconnection Customer may be required to reimburse Transmission Provider under the terms of this Appendix 2 or Part VI of the Tariff. Interconnection Customer shall pay to the Interconnected Transmission Owner on a periodic basis, as invoiced by the Interconnected Transmission Owner, the Interconnected Transmission Owner's documented reasonable costs of prosecuting such appeal, protest, abatement, or other contest. Interconnection Customer and the Interconnected Transmission Owner shall cooperate in good faith with respect to any such contest. Unless the payment of such taxes is a prerequisite to an appeal or abatement or cannot be deferred, no amount shall be payable by Interconnection Customer to the Interconnected Transmission Owner for such contested taxes until they are assessed by a final, non-appealable order by any court or agency of competent jurisdiction. In the event that a tax payment is withheld and ultimately due and payable after appeal, Interconnection Customer will be responsible for all taxes, interest and penalties, other than penalties attributable to any delay caused by the Interconnected Transmission Owner.

24.4 Income Tax Gross-Up

24.4.1 Additional Security:

In the event that Interconnection Customer does not provide the safe harbor documentation required under Section 24.1 prior to execution of the Interconnection Service Agreement, within 15 days after such execution, Transmission Provider shall notify Interconnection Customer in writing of the amount of additional Security that Interconnection Customer must provide. The amount of Security that a Transmission Interconnection Customer must provide initially pursuant to this Interconnection Service Agreement shall include any amounts described as additional Security under this Section 24.4 regarding income tax gross-up.

24.4.2 Amount:

The required additional Security shall be in an amount equal to the amount necessary to gross up fully for currently applicable federal and state income taxes the estimated Costs of Local Upgrades and Network Upgrades for which Interconnection Customer previously provided Security. Accordingly, the additional Security shall equal the amount necessary to increase the total Security provided to the amount that would be sufficient to permit the Interconnected Transmission Owner to receive and retain, after the payment of all applicable income taxes ("Current Taxes") and taking into account the present value of future tax deductions for depreciation that would be available as a result of the anticipated payments or property transfers (the "Present Value Depreciation Amount"), an amount equal to the estimated Costs of Local Upgrades and Network Upgrades for which Interconnection Customer is responsible under the Interconnection Service Agreement. For this purpose, Current Taxes shall be computed based on the composite federal and state income tax rates applicable to the Interconnected Transmission

Owner at the time the additional Security is received, determined using the highest marginal rates in effect at that time (the "Current Tax Rate"), and (ii) the Present Value Depreciation Amount shall be computed by discounting the Interconnected Transmission Owner's anticipated tax depreciation deductions associated with such payments or property transfers by its current weighted average cost of capital.

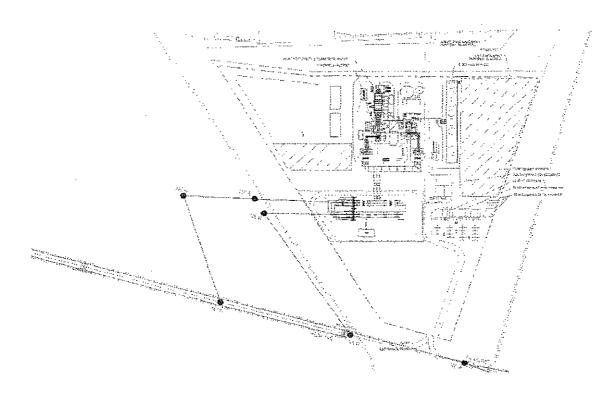
24.4.3 Time for Payment:

Interconnection Customer must provide the additional Security, in a form and with terms as required by Sections 212.4 of the Tariff, within 15 days after its receipt of Transmission Provider's notice under this section. The requirement for additional Security under this section shall be treated as a milestone included in the Interconnection Service Agreement pursuant to Section 217.5 of the Tariff.

24.5 Tax Status:

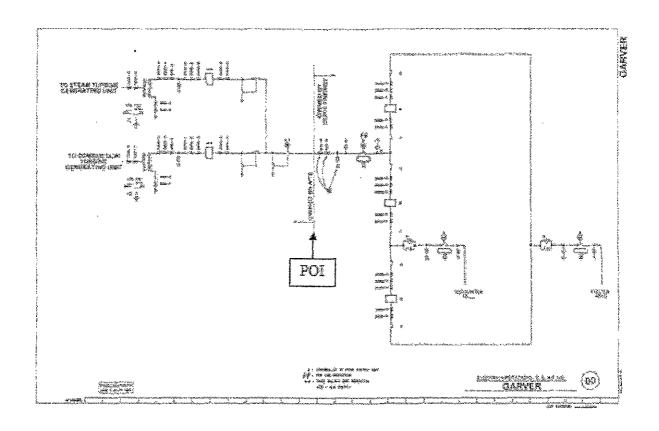
Each Party shall cooperate with the other to maintain the other Party's tax status. Nothing in this Interconnection Service Agreement or Part VI of the Tariff is intended to adversely affect any Interconnected Transmission Owner's tax exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds.

SCHEDULE A CUSTOMER FACILITY LOCATION/SITE PLAN



SCHEDULE B

SINGLE-LINE DIAGRAM



SCHEDULE C

LIST OF METERING EQUIPMENT

PJM Requirements:

Interconnection Customer shall install the necessary equipment to provide "Revenue Metering (KWH, KVARH)" and real time data (KW, KVAR) for the Interconnection Customer's Customer Facility that comply with the requirements set forth in PJM Manuals M-01 and M-14D, and Sections 8.1 through 8.5 of Appendix 2 to this ISA.

Interconnected Transmission Owner Requirements

Metering shall comply with the revenue metering requirements contained in the "Duke Energy Midwest Engineering Guide – Interconnection Metering" document. The link to that can be found in section 7 of the "Requirements for Connection of Facilities to the Duke Energy Midwest Transmission System" found at the following link:

(http://pjm.com/planning/design-engineering/to-tech-standards/deok_aspx).

In the event of any conflict between the Interconnected Transmission Owner standards and the PJM standards, the PJM standards shall control.

SCHEDULE D

APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS

The Interconnection Customer will be required to comply with the following Duke Energy Ohio Requirements for Generation Interconnection Customers: "Requirements for Connection of Facilities to the Duke Energy Midwest Transmission System," that is posted on the PJM website at:

http://www.pjm.com/planning/design-engineering/to-tech-standards/deok.aspx.

Applicable Technical Requirements and Standards are set forth in AEP's document entitled "Requirements for Connection of New Facilities or Changes to Existing Facilities Connected to the AEP Transmission System," that is posted on the PJM website at: http://www.pjm.com/planning/design-engineering/to-tech-standards/private-aep.aspx.

SCHEDULE E

SCHEDULE OF CHARGES

None

SCHEDULE F

SCHEDULE OF NON-STANDARD TERMS & CONDITIONS

None

SCHEDULE G

INTERCONNECTION CUSTOMER'S AGREEMENT TO CONFORM WITH IRS SAFE HARBOR PROVISIONS FOR NON-TAXABLE STATUS

As provided in Section 24.1 of Appendix 2 to this ISA and subject to the requirements thereof, Interconnection Customer represents that it meets all qualifications and requirements as set forth in Section 118(a) and 118(b) of the Internal Revenue Code of 1986, as amended and interpreted by Notice 88-129, 1988-2 C.B. 541, and as amplified and modified in Notices 90-60, 1990-2 C.B. 345, and 2001-82, 2001-2 C.B. 619 (the "IRS Notices"). Interconnection Customer agrees to conform with all requirements of the safe harbor provisions specified in the IRS Notices, as they may be amended, as required to confer non-taxable status on some or all of the transfer of property, including money, by Interconnection Customer to Interconnected Transmission Owner with respect to the payment of the Costs of construction and installation of the Transmission Owner Interconnection Facilities and/or Merchant Network Upgrades specified in this ISA.

Nothing in Interconnection Customer's agreement pursuant to this Schedule G shall change Interconnection Customer's indemnification obligations under Section 24.2 of Appendix 2 to this ISA.

SCHEDULE H

INTERCONNECTION REQUIREMENTS FOR A WIND GENERATION FACILITY

Not Required

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

9/29/2015 2:17:09 PM

in

Case No(s), 14-0534-EL-BGN

Summary: Correspondence of NTE Ohio, LLC in Compliance with Opinion, Order and Certificate electronically filed by Teresa Orahood on behalf of Sally Bloomfield



COLUMBUS I CLEVELAND CINCINNATI-DAYTON MARIETTA

BRICKER & ECKLER LLP 100 South Third Street Columbus, OH 43215-4291 MAIN: 614.227.2300 FAX: 614.227.2390

www.bricker.com info@bricker.com October 5, 2015

Via Electronic Filing

Ms. Barcy McNeal
Administration/Docketing
Public Utilities Commission of Ohio
180 East Broad Street, 11th Floor
Columbus, OH 43215-3793

Re: NTE Ohio, LLC, OPSB Case No. 14-534-EL-BGN

Dear Ms. McNeal:

After a preconstruction meeting held on September 22, 2015, the Ohio Power Siting Board ("Board") Staff issued a letter authorizing NTE Ohio, LLC ("NTE") to commence construction of the facility. In part, this authorization requires NTE to provide the Board notice of the start and completion dates of its construction activities.

As approved by Staff, construction of the facility commenced today, October 5, 2015.

If you have any questions please call at the number listed above.

Wbroomjula

Sincerely,

Sally W. Bloomfield

ec: Grant Zeto

PENGAD 800-681-6888

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

10/5/2015 9:34:32 AM

in

Case No(s). 14-0534-EL-BGN

Summary: Notice of NTE Ohio, LLC that Construction of the Facility has Commenced electronically filed by Teresa Orahood on behalf of Sally Bloomfield

EXHIBI1



Generation Interconnection Generation Queues: Active (ISA, WMPA, etc.)

Generation Queues: Active (154, WMPA, etc.)

accordance with the respective state's own established process. contains a milestone for the generator to execute, separately, an interconnection agreement with the local electric distribution company in Participation Agreement defines the terms and conditions under which PJM wholesale power market participation will be conducted. It also Agreement instead of an Interconnection Service Agreement upon completion of all required reliability studies. A Wholesale Market regarding the nature of their interconnection request. If not jurisdictional, each such generator must sign a Wholesale Market Participation to participate in PJM's wholesale power market. However, they may not be under Federal Energy Regulatory Commission jurisdiction must execute an Interconnection Service Agreement. Generators at local distribution or sub-transmission voltage levels may also request Generators at transmission level voltages that request interconnection with PJM, and want to participate in PJM's wholesale power markets

A system map is available showing the location of each active and withdrawn interconnection request.

Legend

A01 A B C D E F G H I J K L M N O P Q R S T UI UZ UZ UZ VZ VZ VZ WI WI WZ WZ XZ XZ XZ XZ YZ YZ YZ ZZ AAI AAZ ABI AU Showing 1 - 1209 of 1209 Queue AQ Queue Date 04/01/1997 South Lebanon 230 KV ▼ Status: PJM Substation ▼ State: All MW In MWC MWE Stat Feas Imp Fac WMPA CSA St Page 1/1 0:673 655 ⊗ PA Search View: All ▼ 2002 Q2 Projected Reset

<; *

www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx

10/5/2015

A55	A36	A35	A34	A33	A32	A31	A30	A29	A28	A26	A21	A19	A18	A15	A12	A11	A10	A09	A08	A05	A04	A03	A02
															•								
02/22/1999 Lakewood 230kV	·01/27/1999 · Hunterstown 500 kV	01/13/1999 North Bangor 34.5kV	01/12/1999 Brunner 230kV	01/12/1999 : Montour #2	01/12/1999 Montour #1	12/22/1998 Peckville/Varden 69kV	12/03/1998 Colora Tap	11/18/1998 Colora Tap	11/04/1998 Dover	11/02/1998 Linden	08/17/1998 Chichester 230 kV	05/15/1998 Eddystone 230 kV	05/11/1998 North Temple 230 kV	01/20/1998; Sayreville 230 kV	08/20/1997 Martins Creek 230 kV	07/30/1997 Harwood 230 kV	06/02/1997 Glory 115kV	06/01/1997 Susquehanna 230kV	06/01/1997 Susquehanna 230kV	04/01/1997 Bergen	04/01/1997 Linden 230kV or 138kV	04/01/1997 Linden 230kV or 138kV	04/01/1997 Oak Hall 138 kV (Oil CT)
					21.4																		
500 : 301	830 810	10 8.5	749 14	14 14	759 14	46 3.7	400 161	400 465	100. 88	180 7.5	725 - 725	521 521	557:557	765 : 766	600 582	356 1.2	6; 6.	1140 50	1140 50	500 500	1186 - 750	120 114	315 31
500	830	<u></u> 0	14	14	'	44	2	. 2	98		725	521	557	765	600	201	6	35	15	500	750	120	315
500	830	10	<u>-</u> 2	-1	<u>7</u>	44	2	2	100	180	725	521	557	765	600	201	6	35	15	500	750	120	315
ĸ	a)	Œ)	(4)	C)	C)	Ø	C	K)	C)	ಣ	O	ĸ)	r:	O	a)		Œ	O	C)	ĸ)	a)	K)	C)
0	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	(0	0	0
0	0	0	0	(1)	(0	0	0	0	0	0	(Ö	9	0	0	0	0	0		0	0	•
0	0	9	0	8	\otimes	0	0	0	(0	0	()	9	\otimes	٩	0	8	0		0	0	8	\otimes
(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
8	8	\otimes	8	8	8	\otimes	\otimes	\otimes	8	· ③	0	\otimes	8	8	8	8	\otimes	\otimes	8	8	8	\otimes	8
Z	PΑ	PΑ	PΑ	PΑ	PΑ	PΑ	MD	MD	DE	Z	PΑ	PΑ	PΑ	Z	PΆ	PΑ	РΑ	РΑ	РΑ	Z	Z	\mathbb{Z}	VA
2005 Q4	2003 Q3	2001 Q2	2002 Q2	2000 Q4	2001 Q2	2001 Q4	2005 Q4	2003 Q2	2001 Q2	2002 Q1	2004 Q4	2002 Q1	2002 Q4	2002 Q1	2004 Q2	2002 Q2	2000 Q1	2003 Q2	2002 Q3	2002 Q2	2006 Q2	2000 Q2	2001 Q3
Ø►	*	*	-		13		-	*	***		>	P. S.	and the same	(F	*	**	S. S	×	×	Comp.	(III)		

	AA1-046	AA1-045	AA1-044	AA1-043	AA1-042	AA1-040	AA1-038	AA1-037	AA1-036	AA1-034	AA1-033	AA1-032	AA1-028	AA1-027	AA1-026	AA1-025	AA1-019	AA1-018	ÁÁ1-017	AA1-016	AA1-015	AA1-014	AA1-013	AA1-007	AA1-006	A59_W00	A59
	08/29/2014 Somerset-Allegheny 115kV	08/29/2014 McConnellsburg-Guilford 138kV	08/27/2014 Shenango-Hoytdale 345kV	08/27/2014 Ontelaunee	08/27/2014 Ontelaunee	08/27/2014 Morris	08/19/2014 Lexington-Low Moor 230kV	08/13/2014 Piney Hydro 34.5kV	08/11/2014 Mountain 230kV	07/24/2014 Peach Bottom 500kV	07/23/2014 Hay Road 230kV	07/21/2014 Kingsport Mill	07/11/2014 Oak Hall D	07/11/2014 Oak Hall C	07/11/2014 Oak Hall B	07/11/2014 Oak Hall A	© 07/09/2014 Beaverbrook 13kV	06/25/2014 Powerton-Goodings Grove	06/25/2014 Portland 2	06/25/2014 Portland 1	06/23/2014 Fayette II	06/23/2014 Washington 345kV	06/23/2014 Hanging Rock 765kV	06/19/2014 Smith Gap Regional Landfill	06/02/2014 Erie County Landfill	01/01/1999 Springdale 138 kV	04/01/1999 Emilie
	. 80	308	1000	608.1	574	140	78.2	33.3 5.2	180	880	371	50	20	20	20	20	7.3	150	243	158 _.	661	625	1250	6	2.3	88 88	1145 540
	10.4	308	870	34.1	52.5	20	10.1	5.26	180	70	80	45	3.7	3.7	3.7	3.7	2.7	19.5	243	158	បា	ப	ĩo	6	0.8	88	540
	80	308	1000	34.1	0	20	78.2	5.26 🕃	180	120	80	0	0 \(\rangle	0	0	0	7.3 🔷	150	243	158	5	5	10 🖔	6	0.8 🔷	88 වූ	540 €
¢	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Ŕ	9	0	0	0	0	0		0	0	0	0	0	0	0	(a)	0	0	0	0	0	0	0	0	0	0	0	0
					•			8		8		8	8	8	8	8	8		8	8	8	8	8		8	8	0
								0						0	0	0											0
	PΑ	PΑ	PΑ	PΑ	PΑ	=	٧A	⊗ PA	РΑ	PΑ	DE	코	₽ VA	∨A		⊚ VA	⊗ ≥	F	PΑ	PΑ	PΑ	HO	HO	VA	⊗ 9	PΑ	⊗ PA
	2017 Q4	2015 Q4	2018 Q2	2016 Q4	2016 Q4	2015 Q2	2017 Q4	2015 Q2	2017 Q2	2017 Q2	2018 Q2	2015 Q2	2016 Q2	2016 Q2	2016 Q2	2016 Q2	2015 Q3	2017 Q4	2017 Q2	2017 Q2	2015 Q2	2015 Q2	2015 Q2	2016 Q2	2015 Q4	2000 Q4	2004 Q2
d	Á.					*	Å	&			⇔	,	**	*	*		***	Å.	p.º	Dr.		~	*	3	Ö	and the	

http://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx

AA1-084	AA1-083	AA1-082	AA1-080	AA1-079	AA1-078	AA1-077	AA1-076	AA1-073	AA1-072	AA1-070	AA1-067	AA1-066	AA1-065	AA1-064	AA1-063A	AA1-063	AA1-062	AA1-061	AA1-060	AA1-059	AA1-057	AA1-056	AA1-050	AA1-049	AA1-047
10/27/2014 Reybold 138kV	10/27/2014 Four Rivers 230kV	10/24/2014 E. Towanda 230kV	70/24/2014 Washington Co. 12.5kV	10/24/2014 Emilie 230kV	10/23/2014 University Park North	10/23/2014 Lackawanna 230kV	10/22/2014 Hunterstown-Conemaugh 500kV	10/14/2014 Metuchen 26kV	10/13/2014 Kelford 34.5kV	10/06/2014 Hatfield 500kV	09/30/2014 Everetts 34.5kV	09/30/2014 Susquehanna-Lackawanna 500kV	09/30/2014 Earleys 230kV	09/30/2014 Carson-Wake 500kV	09/29/2014 Carolina-Seaboard 115kV	09/26/2014 Huntsville (Cabin Creek) 69kV	09/26/2014 Williams 128kV	09/23/2014 Jacktown-East New Market 69kV	© 09/22/2014 Great Adventure 34.5kV	09/16/2014 Crisfield 25kV	09/10/2014 Sunbury-Milton 69kV	09/10/2014 Bay Shore-Fostoria 345kV & Bay Shore-Monroe 345kV	08/30/2014 Tarboro-Everetts 230kV	08/30/2014 Shawboro-Sligo 230kV	08/29/2014 Hazelton-Jennings 138kV
252	746	925	ω .5	1342	560	1483	1050	5.6	23.1	1710	15	1050	80	80.	74.9	3.6	224	20	20	6	16	960	80	20	69.6
10	20	0	2.3	74	20	44	1000	3.9	2.1	1590	10.5	80	56	56	50.9	3.6	29	13.4	0	<u>ه</u> . س	16	46	25.6	14	9.1
о \$	20	75	3.5	74	20	113	1050	5.6 🔷	3.1 🔷	1710	5	0	80	80	74.9	3.6	224	20	20	6 42	16 ¢	161 %	0	20	69.6
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	⊗ ⊗	0	0	0	0.	8	8	9	0	0	∅	0	0	0	0	0	Ø	O	(3)	0	0	0	0
0			8					S	0	***	0		0		0	~? *			**	*****	*C**		*23		
8			8					8			0		NC NC	-											
DE.	AA	PΑ	M∂	PΑ	F	PΑ	PΑ	Z	8	PΑ	K	PΑ		Ä	K	유	٧V	ĕ	Z	ΜĐ	PΑ	오	N.	S.	MD
2018 Q2	2015 Q4	2015 Q4	2016 Q2	2015 Q2	2015 Q4	2017 Q2	2019 Q4	2016 Q4	2015 Q4	2019 Q2	2015 Q4	2018 Q2	2015 Q4	2015 Q4	2016 Q2	2016 Q1	2017 Q3	2016 Q4	2015 Q4	2016 Q4	2015 Q2	2017 Q2	2015 Q4	2015 Q4	2017 Q4
· ***	7 >	>	**	~	~	:	~		. <i>\$</i> *	1	*	>	*	*	4	*	Å	**	S	***	i de	>	***	\$	<i>j</i> .

10/5/2015	n.com/plani	ation	Interconnection/generation-queue-active.aspx	jeneration-que	ue-act	ve.asp	×					
AA1-085	10/29/2014 Moshannon-Milesburg 230kV	82	10.66	82	v O	0	~~			PΑ	2017 Q4	1
AA1-086	10/29/2014 Blue Mound-Latham	200	26	200	(a)				•	 	2017 Q4	1 2
AA1-092	10/30/2014 Halfway 34.5kV	12.	∞ .	12	15. 15.		\/			M	2016 Q2	\sim
AA1-093	3 10/30/2014 Clear Spring 12.5kV	ω J	2.3	3.5	e e e e e e e e e e e e e e e e e e e	8	8	\otimes	8	M M D	2016 Q2	1
AA1-095	10/30/2014 Halfway-Marlow 34.5 kV	10	6.67	10	er A					MD	2016 Q2	(-
AA1-096	© 10/30/2014 Wilson 12.5kV	ω .5	2.3	3.5	iv	8	8	8	8	MD	2016 Q2	,
AA1-098	10/30/2014 Raritan River-Red Oak 230kV	560	560	روي 560	e e	0	****			Z	2018 Q2	
AA1-099	10/30/2014 Clinton Co. 34.5kV	4	0	4	e M		*			9	2015 Q4	, –
AA1-100	10/30/2014 Warrior Run 138kV		0	= <>	ø.	a	8	0	0	MD	2015 Q4	
AA1-101	10/30/2014 Tait 69KV	20	0	20	v A					유	2015 Q2	
AA1-102	10/30/2014 Kings Creek-Loretto 138kV	150	37.5	o ^		0	0	0	(1)	MD	2016 Q4	
AA1-103	10/30/2014 Harwood-Siegfried 230kV	208.5	27	208.5	e e	o O	•			PΑ	2016 Q2	
AA1-104	10/30/2014 Mickleton 230kV	20	0	20	v A		£20		٠	z	2016 Q2	
AA1-106	10/30/2014 Grover II 34.5kV	19.9	19.9	19.9	(A)					PΑ	2016 Q4	
AA1-108	10/30/2014 Churchtown 230kV	158	158	158	e Ga		- CO.			Z	2018 Q2	
AA1-109	© 10/31/2014 Cotoctin-Troutville Junction 34.5k	19.9	73. 33	19.9	. · ·	0				MD	2016 Q4	
AA1-110	(a) 10/31/2014 Massey 25kV	. 6	4	6	0	0	Ō			MD	2016 Q4	
AA1-111	10/31/2014 Moshannon-East Towanda 230kV	463	463	463	o M					PΑ	2019 Q4	
AA1-112	(3) 10/31/2014 Westmoreland 25kV	7.2	4	7.2	ev M	0	8	\otimes	8	PΑ	2015 Q3	
AA1-114	10/31/2014 Oak Ridge	60	7.72	60	er A					PΑ	2017 Q4	
AA1-115	10/31/2014 Summit-WestFall 115kV	20	0	20	~					PΑ	2016 Q2	
AA1-116	10/31/2014 Kensington/Kankakee	20	0	20	<i>P</i>		~			F	2016 Q2	
AA1-117	10/31/2014. Kensington/Kankakee	20	0	20	e .					=	2016 Q3	
AA1-121	10/31/2014 South Granville 12kV	2.	0	2 6	e e	0	8	8	8	⊗ 9H	2015 Q3	
AA1-122	(2) 10/31/2014 Antietam 34.5kV	10	3.8	10						MD	2016 Q3	
AA1-123	10/31/2014 Highland-Sammis 345kV	1152	1105	1152	e B	o O	**************************************			유	2019 Q4	

AA2-044	AA2-039	AA2-037	AA2-036	AA2-035	AA2-030	AA2-021	AA2-020	AA2-017	AA2-008	AA1-146	AA1-145	AA1-144	AA1-143	AA1-142	AA1-141	AA1-140	AA1-139	AA1-138	AA1-135	AA1-134	AA1-133	AA1-132	AA1-131	AA1-130	AA1-129	AA1-124
02/06/2015 Sherman Avenue 69kV	01/23/2015 Kewanee 138kV	01/09/2015 Preston 12kV	01/09/2015 West Cambridge 12kV	12/30/2014 Collins	12/23/2014 Nelson	12/05/2014 Steele 25kV	12/05/2014 Albright-Cross School 138kV	11/26/2014 East Palmerton-Acahela 69kV	11/06/2014 Sagers 230kV	10/31/2014 Netson	10/31/2014 Four Rivers 230kV	10/31/2014 East Towanda-Grover 230kV	10/31/2014 Easton-Wye Mills 69kV	·10/31/2014 Vienna-Laurel 69kV	10/31/2014 Kenney 25kV	10/31/2014 Worcester 25kV	10/31/2014 Hickory-Shawboro 230kV	10/31/2014 Earleys-Suffolk 230kV	10/31/2014 Earleys-Everetts 230kV	10/31/2014 Sunbury-WinFall 230kV	10/31/2014 Hickory-Shawboro 230kV	10/31/2014 Shawboro-Sligo 230kV	10/31/2014 N. Towanda 34.5kV	10/31/2014 St. Claire 13kV	10/31/2014 Northbrook-Skokie	(2) 10/31/2014 Englishtown-Monroe 34kV
13.5	150	 G	. . .	1140.8	190	7	15	98	925	190°	400	163	20	20	ਹੈਂ	20	120	80	80	. 80	80	80	œ	Oi	27	-1 Сп
7.3	19.5	1.9	5.3	1062	157	2.67	15	12.7	0	157	340	163	7.6	7.6	5.7	7.6	84	. 56	56	56	56	42	5	ω	27	0.5
13.5	150	5	14	1140.8	190	7	15	98	57	190	340	163	20	20	15	20	120	80	80	80	80	60	o ◊	Б	27	1.5
0	0	0	0	0	(0	0	0	9	(•	0	•	0		0	0	@	()	0	•	(۹	0	0	©
										0	٥	0	0	9	0	0	0	0	(3)	0	0	9	(1) (2)	0	0	8
																	0			0			C)			\otimes
			•						٠.					-									8	_		8
Z	F	MD	MD	Γ=	F	MD	MD	PΑ	PΑ	7	٧A	PΑ	MD	ð	€	Mo	Ä	S	R	S	S	K	PΑ	오	F	Z
2016 Q4	2016 Q4	2015 Q4	2015 Q4	2019 Q2	2017 Q2	2015 Q4	2017 Q2	2018 Q4	2015 Q3	2017 Q2	2017 Q1	2017 Q4	2016 Q4	2016 Q4	2016 Q4	2015 Q4	2015 Q4	2015 Q4	2015 Q4	2015 Q4	2015 Q4	2015 Q4	2016 Q1	2015 Q4	2018 Q2	2016 Q3
**	**	Ä				***	Gəv	<i>.</i>	ADD SALES	2155g. 462 \$62	and the	1000								Ž.	**		(D)		ॐ	**

http://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx

AA2-080	AA2-079	AA2-078	AA2-077	AA2-076	AA2-075	AA2-072	AA2-070	AA2-069	AA2-068	AA2-067	AA2-066	AA2-065	AA2-064	AA2-063	AAZ-062	AAZ-061	AA2-060	AA2-059	AAZ-058	AA2-057	AA2-053	AA2-052	AA2-049	AA2-048
03/31/2015 Ellsworth-Eppler Junction 25kV	:03/30/2015 Possum Point 230kV	03/27/2015 Penrose #2 230kV	03/27/2015 Penrose #1 230kV	03/27/2015 Linwood 230kV	03/16/2015 Southwest Lima 345kV	03/09/2015 Kingsville 13kV	02/28/2015 Smith Mountain 138kV	02/27/2015 Cartanza 230kV	02/27/2015 South Justice 115kV	:02/27/2015 Belvidere	02/27/2015 Penns Neck 13kV	© 02/27/2015 Hazen Switch Point-Washington 3 4.5kV	.02/27/2015 Branchville-N. Newton #3 34.5kV	02/27/2015 Branchville-N. Newton #2 34.5kV	02/27/2015 Branchville-N. Newton #1 34.kV	02/27/2015 Branchville-Sussex #2 34.5kV	02/27/2015 Branchville-Sussex #1 34kV	02/27/2015 Edenton 15kV	02/27/2015 Mount Rose 13kV	02/26/2015 Hornertown-Nash 230kV	02/23/2015 Northampton-Roanoke Valley NUG 230kV	02/20/2015 Essex 26kV	02/18/2015 Atlantic-Oceanview 34kV	02/18/2015 Allenwood-Larrabee 34kV
19.9	668	130	220	852	250	<u>.</u>	649	451	20	10	2	œ	17	∞	7	<i>,</i> ∞	6.	20	. 	66	74.9	ຸພ	19.9	14
19.9	0	130	220	40	. 33	. 0	W	451	13.7	10	0	0	0	0	0	0	0	13.7	0.3	. 44.7	52.4	ω	0	0
19.9	28	130	220	0	250		34	451	20	10	2 6	8	17 %	8	7	8	O	20		66	74.9	0	3	7 6
	0		•					•		0			•				0			0	0	∅∅∅∅		0
8						8					8								8			0		
8			•			8					8								8					
PΑ	VA	PΑ	PA	PΑ	유	MD	XX	Œ	S		Z	Z	Z	Z	Z	Z	Z	S	Z	8	8	Z	Z	Z
2017 Q2	2015 Q2	2018 Q2	2018 Q2	2018 Q2	2022 Q1	2015 Q3	2015 Q2	2018 Q2	2016 Q2	2017 Q2	2015 Q1	2015 Q4	2015 Q4	2015 Q4	2015 Q4	2015 Q4	2015 Q4	2016 Q2	2015 Q4	2016 Q2	2016 Q2	2015 Q1	2015 Q4	2015 Q4
	uzotta.	unique.	professor.	2"3000	, Ann	Ä	*	(State	*	///Ohn	C2»		Ø		Ø	Ø	8		Left.		***	anatra.		8

AA2-120	AA2-119	AA2-117	AA2-116	AA2-115	AA2-114	AA2-113	AA2-112	AA2-111	AA2-110	AA2-109	AA2-107	AA2-106	AA2-105	AA2-104	AA2-103	AA2-100	AA2-099	AA2-098	AA2-088	AA2-086	AA2-085	AA2-084	AA2-083	AA2-082	AA2-081
04/29/2015 Tower Hill 115kV	04/29/2015 Glenn Falls 138kV	04/28/2015 Sussex	04/28/2015 Cook-East Elkhart 345kV	04/28/2015 S. Reading-Boyertown 230kV	© 04/28/2015 Furnace Brook-Hazen Switch Point 34kV	04/28/2015 Hornertown 34.5kV	04/27/2015 Tiffany 34.5kV	04/27/2015 Cochranville-Peach Bottom 230kV	04/27/2015 Eddystone 138kV	04/27/2015 Rock Springs-Peach Bottom 500kV	04/24/2015 Waterman 138kV	04/24/2015 Bluff Point 69kV	04/24/2015 Hornertown 34.5kV	04/24/2015 Bigby 115kV	04/24/2015 Backbone Mountain 138kV	04/22/2015 Brown 34.5kV	04/21/2015 Sewaren 230kV	04/20/2015 George Washington (Moundsville)	-03/31/2015 Boykins 115kV	03/31/2015 Boykins 34.5kV	.03/31/2015 General Office 12.5kV	03/31/2015 Lappans Road 12.5kV	03/31/2015 East Towanda-South Troy 115kV	03/31/2015 Alpha 34.5kV	03/31/2015 Niles Valley 34.5kV
250	550	16	994	450	20	20	19.9	550	550	1100	20	20	20	20	86	6.4	568	565	100	13	10	. 4	19.9	20	19.9
250	550	0	994	450	0	13.6	19.9	550	550	1100	0	0	13.6	0	0	6.4	32	20	38	'n	3,8	1,5	19.9	0	19.9
250	550	16	994	450	20	20 概	19.9	550	550	1100	20	20	20	20	20	6.4	0	20	100	4.5	10	4	19.9	20	19.9
0	0	0	0	0	•	0	0	•		0		0			0	•						· 📵		0	•
PA	٧W	Z	M	PΑ	Z	NO	PΑ	PΑ	PΑ	PΛ	F	Z	N.	PΑ	AAA	НО	Z	٧W	٧A	⊗ v _A	MD	MD.	PΑ	٤	PA
2020 Q2	2020 Q2	2016 Q2	2020 Q2	2019 Q3	2016 Q2	2016 Q2	2017 Q2	2019 Q2	2019 Q2	2019 Q2	2016 Q4	2015 Q4	2016 Q2	2016 Q4	2016 Q4	2016 Q4	2018 Q2	2018 Q2	2016 Q3	2016 Q2	2016 Q3	2016 Q4	2017 Q2	2016 Q2	2017 Q2
ॐ ^	*		©~	**		Ü	○ >	C>-	*	*	Z		*	8	3	*			*	Ä	Žį.	**	>		<u></u>

AA2-149	AA2-148	AA2-147	AA2-146	AA2-145	AA2-144	AA2-143	AA2-142	AA2-141	AA2-140	AA2-139	AA2-138	AA2-137	AA2-135	AA2-134	AA2-133	AA2-132	AA2-131	AA2-130	AA2-129	AA2-128	AA2-127	AA2-123	AA2-122	AA2-121
04/30/2015 Carolina-Seaboard 115kV	04/30/2015 Madison-Tanners Creek 138kV	04/30/2015 Todd 12kV	04/30/2015 Catoctin 34.5kV	04/30/2015 Catoctin 34.5kV	04/30/2015 East New Market 12kV	04/30/2015 Catoctin 12.5kV	04/30/2015 Branchburg-Deans 500kV	04/30/2015 Washington 345kV	04/30/2015 Printz 230kV	04/30/2015 Ronco 500kV	04/30/2015 Hanging Rock 765kV - Power Block	04/30/2015 Hanging Rock 765kV - Power Block	:04/30/2015 East Towanda 34.5kV	04/30/2015 Andrew Shaft-84 Junction 25kV	04/30/2015 Wyalusing 34.5kV	04/30/2015 Thompson 34.5kV	04/30/2015 Oak Grove 138kV	04/30/2015 Kings Creek-Crisfield 69kV	04/30/2015 New Church 138kV	04/30/2015 Raritan River-Werner 115kV	04/30/2015 Bear Garden 230kV	04/29/2015 Marengo 34kV	04/29/2015 Parlin 230kV	04/29/2015 Tidd-Wylie Ridge 345kV
20:	175	4.	20	20	10	4	1377	670	641.5	670	1235	1340	19.9	19.9	19.9	19.9	354	2	20	175	582	20	143.5	750
7.6	22.75	2.7	10.9	10.9	6.8	2.7	1278	45	35 5	45	45	. 45	19.9	19.9	19.9	19.9	18	2	· O	70	32.2	0	0	750
20	174.2	4	20	20	10	4	1377	45	35	45	45	45	19.9	19.9	19.9	199	0	2	20	175	7	20	20 WE	750
. V.	o o	0				<i>v</i>		<i>v</i>	0		•	•		0	r 0	0	0				0	υ·	0	
K	·. Z	MD	MD	MD	MD	MD	٤	НО	PΑ	РА	웃	94	PΑ	PΑ	PA	PΑ	ΛM	MD	VA	Z	VA	=	Z	VW
2015 Q4	2015 Q4	2016 Q3	2016 Q3	2016 Q3	2016 Q3	2016 Q3	2021 Q2	2016 Q2	2016 Q2	2015 Q4	2015 Q4	2019 Q2	2017 Q2	2017 Q2	2017 Q2	2017 Q2	2016 Q3	2016 Q1	2016 Q4	2017 Q2	2016 Q2	2016 Q4	2016 Q2	2020 Q2
*	,	**		*	**		ÇI»	**	>	(3)s		**	***				>	*	S	. · ·	©>	8		©**

AB1-006	AB1-005	AB1-003	AB1-002	AB1-001	AA2-186	AA2-184	AA2-183	AA2-182	AA2-180	AA2-178	AA2-177	AA2-174	AA2-173	AA2-171	AA2-170	AA2-169	AA2-167	AA2-166	AA2-165	AA2-161	AA2-159	AA2-155	AA2-153	AA2-150
05/22/2015 Olive-Dequine 345kV (Meadown Lake VI)	05/18/2015 Harrisonville 13kV	05/04/2015 Homer City	05/01/2015 Atlantic-South River 230kV	05/01/2015 Moss Mill 12kV	04/30/2015 Forest 69kV	04/30/2015 Atlantic-Red Bank 34kV	04/30/2015 Tosco-VFT 230kV	04/30/2015 Sunbury 500kV	04/30/2015 Hickory 34.5kV	04/30/2015 Mackeys 230kV	04/30/2015 Hopewell-Surry 230kV	04/30/2015 Northampton-Roanoke Valley 230k	04/30/2015 Hatfield-Yukon 520kV	04/30/2015 Sunbury 500kV	04/30/2015 Burches Hill-Brandywine 230kV	04/30/2015 Five Forks 115kV	04/30/2015 East Sayre 34.5kV	04/30/2015 Shenango-Bedford 69kV	04/30/2015 Hornertown-Nash 230kV	04/30/2015 Yukon Robbins 138kV	04/30/2015 Downsville 34.5kV	04/30/2015 Mt. Lena 12.5kV	04/30/2015 Yellow Springs 12.5kV	04/30/2015 Trappe 12kV
200	1.3	1474	909	Ŋ	20	20	234	. 4030	20	80	80	, Cr	515	1121	1038.1	20	19.9	19.9	74.9	541	16:	. A.	4	.10
26	0	1474	765	1.9	0	0	230	977	-	56	56	2.4	515	60	92	7.6	19.9	19.9	5.9	513	8.7	2.7	2.7	6.8
200	1.3	1474	909	۲Ü	20	20	234	1030	20	80	80	S ₇	515	97	1111	20	19.9	19.9	8.9	541	16	4	4	10
ţ.		F	6		6		1	Jul.			(F	(a)	(F	F		(g		F	F	G	(Ç	F	G
		0	0	0	0		0		②	0			•		0	0	0				0	0	0	
Z	⊗ MD	PΑ	Z	٤	0	z	z	PΑ	<	z	<	Z.	ָּס	٦	×.	z	ص.	<u>ס</u> יַ	z	70	*	₹	₹	~
					OH 21	NJ 21	NJ 21		VA 21	NC 2	VA 21	NC 2	PA 21	PA 21	MD 21	NC 2	PA 21	PA 21	NC 2	PA 2	MD 2	MD 2	MD 2	MD 2
2017 Q4	2015 Q4	2019 Q4	2019 Q2	2016 Q3	2016 Q4	2017 Q3	2019 Q2	2019 Q3	2015 Q4	2016 Q2	2016 Q2	2016 Q2	2019 Q1	2017 Q4	2018 Q2	2016 Q2	2017 Q2	2017 Q2	2016 Q2	2020 Q2	2016 Q3	2016 Q3	2016 Q3	2016 Q3
人	₩		*	*		Ü		(#)	N.	***			<i>></i>			Ä	<i>\P</i>	>	*	*	Ü.		Ä	Ä

_~~
9
Ćή
12
Ö
<u> </u>
G

www.pjm.com/planning/generation-interconnect/or/generation-queue-active.aspx

AB1-047	AB1-046	AB1-045	AB1-044	AB1-043	AB1-042	AB1-041	AB1-040	AB1-039	AB1-038	AB1-037	AB1-036	AB1-035	AB1-034	AB1-033	AB1-032	AB1-030	AB1-027	AB1-026	AB1-025	AB1-022	AB1-021	AB1-020	AB1-017	AB1-015	AB1-014	AB1-013
08/14/2015 Highland 240v	08/14/2015 Sudbrook Park 240v	08/14/2015 East Towson 240v	08/14/2015 Highland 240v	:08/14/2015 Riva Road 240v	08/14/2015 Wall Cove 240v	08/14/2015 Hunt Club 240v	08/14/2015 Glendale 240v	08/14/2015 Lipins Corner 240v	08/14/2015 Shadyside 240v	08/14/2015 Ridgeview 240v	08/14/2015 Howard 240v	08/14/2015 Mill Creek 240v	08/12/2015 Manitou	08/12/2015 North Wales	07/31/2015 Albany 12kV	07/28/2015 Huron 69kV	07/22/2015 Old Church 34.5kV	07/22/2015 Westmoreland 34.5kV	07/21/2015 Lumberton 13kV	07/06/2015 Columbia 115kV	06/29/2015 West Caldwell 13kV	06/29/2015 Cold Spring 240v	06/18/2015 Highland-Sammis 34kV & Highlan d-Mansfield 34kV	06/16/2015 Evergreen 138kV	06/08/2015 Hillcrest 138kV	05/29/2015 Riders Creek 115kV
0	0	0	0	0	Ó	0	<u>o</u>	0	0	0.	0	0	0.6	. ω	ω ω	23	20	20	Ó. Ö	2	2	0	940	16.5	125	130
	. 0	0	. 0	. 0		0	0	0	0		. 0		0	6.1	1.2	υ G	<u></u>	 4-	2.6	0	0.3	0	64	0	47.5	130
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.6	6.1	3.3	7.5 W	20	20	6.8	2 🔷	2 1	0.005	140	16.5	125	130
0	0	0		0	0	0	0	Ö	0	0	0	0	0	0		0	0	0	0	\ \ \ \ \ \	O	& & &	0	0	0	0
MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	Z	PA	HO	٤	VA	VA	Z	S VA	2	⊗ ⊗ MD	P P	НО	HO	N _C
D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	D 2015 Q3	J 2015 Q3	A 2016 Q2	H 2016 Q2	J 2016 Q4	A 2016 Q3	A 2016 Q3	J 2016 Q1	A 2016 Q1	J 2016 Q1	D 2015 Q3	H 2018 Q2	H 2015 Q2	H 2018 Q4	C 2016 Q4
				S	S				S							>			*		47			Carlos Carlos	**	in

AB1-080	AB1-079	AB1-078	AB1-077	AB1-075	AB1-074	AB1-073	AB1-072	AB1-071	AB1-069	AB1-068	AB1-067	AB1-066	AB1-065	AB1-064	AB1-063	AB1-059	AB1-058	AB1-057	AB1-056	AB1-054	AB1-053	AB1-052	AB1-051	AB1-050	AB1-049	AB1-048
09/30/2015 Dumont-Olive 345kV	09/25/2015: Zion 12kV	09/22/2015 Church 25kV	09/21/2015 Suffolk-WinFall 230kV	09/17/2015 Riverside 115kV	09/17/2015 Richmond 230kV	09/17/2015 Eddystone 138kV	09/14/2015 Hagerstown 34.5kV	09/11/2015 Greenbury Point 240V	09/09/2015 Wylie Ridge 500kV	09/08/2015 Eldred-Frackville 230kV	08/31/2015 Unionville 12.5kV	08/31/2015 Ballinger Creek 13.2kV	08/31/2015 Doerr Road 13.2kV	08/31/2015 Belmon 12kV	08/31/2015 Locust St. 13kV	08/31/2015 Old Church 34.5kV	08/31/2015 Gavin Unit #1 765kV	08/31/2015 Indian River 230kV JI	08/31/2015 Indian River 230kV I	08/24/2015 Boykins 115kV	08/24/2015 Hornertown 34.5kV	08/24/2015 Bengies 240v	08/24/2015 Lutherville 240v	08/14/2015 High Ridge 240v	08/14/2015 Friendship Manor 240v	08/14/2015 Texas 240v
715	11.3	2	150	20	20	20	2.5	0	. 1025	364	10	19.8	13	&:	0.4	ហ	1331	251.8	247.8	74.9	10	0	. 0.	0	0:	 . °
40 40 0	11.3 11.3	0		0		0	0	0 0.005	0	0	0	19.8 🜾 🔘		4 4 6	-			0	103.3 247.8 🕦 🔘 🐰	0	6.4 10 %	0 0.005	0 0.005	0 0.005	0 0.005	0 0.005
IN 2018 Q2 👸	IL 2016 Q4	DE 2016 Q2	NC 2019 Q4 🔩	MD 2016 Q4	PA 2016 Q4	PA 2016 Q4	MD 2016 Q3 💸	MD 2015 Q4	PA 2019 Q3	PA			MD 2016 Q4 💸	PA 2016 Q1	NJ 2015 Q4 🌞	VA 2017 Q1 💸	OH 2016 Q4 😭	DE 2020 Q1	MD 2020 Q1	VA 2016 Q2 💸	NC 2016 Q2	MD 2015 Q4	MD 2015 Q4	MD 2015 Q3	MD 2015 Q3	MD 2015 Q3

http://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx

C01	B47	846	B34	B30	B28_W08	B28_W07	B28	B26	B23_W04	B23	B19	B18_W03	B17	814	B12_W02	B12_W01	B09a	805	В03	B02	AB1-092	AB1-084	AB1-083	AB1-082	AB1-081	10/5/2015
12/17/1999 Linden 138kV	11/29/1999 Red Lion 500kV	11/29/1999 Conowingo 230kV	11/23/1999 Seward 230kV	11/22/1999 Emilie 230kV	11/12/1999 Mill Run 25 kV	11/12/1999 Backbone Mountain 138 kV	11/12/1999 Muddy Run 230kV	09/20/1999 Hunlock Creek 66kV	08/26/1999 Gans 138 kV	08/21/1999 Siegfried/Allentown 138kV	07/30/1999 Metrose 34.5kV	01/01/1999 Springdale 138 kV	07/17/1999 Jerseyville 34.5kV	07/06/1999 Armold 115kV	01/01/1999 Oak Grove 138 kV	01/01/1999 South Bend 500 kV	06/10/1999 Burlington 138kV	04/30/1999 Wayne-Homer City 345kV	04/30/1999 Hosensack 500kV	04/30/1999 Morgantown	09/30/2015 Moshannon-East Towanda 230kV	09/30/2015 Greenfield-Elk Mountain 69kV	09/30/2015 Sharon 34.5kV	09/30/2015 Potter 34,5kV	09/30/2015 Anaconda-Mayo Dunbar 115kV	www.pjm.com/planr
1186, 436	351 : 545	548. 36	525 325	605 528	15 15	90 66	160, 162	50: 4.7	88 88	115 2	20: 20	525, 509	2.1 2.1	10.4 15	300 - 300	600, 600	168 168	265 250	750 788	80: 80	504	19.9	19.9	19.9	. 80	ing/generation-inte
436	351	36	304	605			160	50	88	5	20	525			300	600	168	250	750	80	17	19.9	19.9	19.9	56	rconnection/
436 🕄 🔘 🔘 🍏	351 🔞 🔘 🔘 🔘	36 ♥ ♥ ® ♥	525 8 6 6 6	605 9 0 0	15 ② ◎ ◎ ⊗	90 ₽ ® ® ⊗	160 🕄 🔘 🔘 🔘	50 8 8 8	88 © ® ® ⊗	5 \(\times \) \(\tilde{\times} \)	20 💯 , 🚳 🔘 🛇	525 .♀ . ⊗ . ◎ ⊗	2.1 8 @ @ 8	10.4 🕄 🔘 🔘 🛇	300 8 @ @ &	600 8 8 8	168 8 0 0 0	265 🔋 🌑 🔿 🛇	750 8 @ 0 0	80 © © ®	41 6	19.9 😂 🔘	19.9 🕸 🔘	19.9	80 \$	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
0	0	0	0	0	0	0	0			0	0	0	0	0			0	0	0	0						
⊗ ≥	⊗ DE	⊗ MD	⊗ PA	⊗ ·PA	⊗ PA	⊗ **	⊗ PA	⊗ PA	PA	⊗ PA	⊗ ≥	⊗ PA	⊗ ≥	⊗ PA	AW	PA	⊗ ≥	⊗ PA	⊗ PA	⊗ MD	PA	PΑ	PΑ	PΑ	K	
2006 Q2	2002 Q3	2003 Q4	2006 Q2	2004 Q2	2002 Q2	2003 Q2	2003 Q3	2002 Q2	2001 Q4	2001 Q2	2001 Q2	2003 Q3	2001 Q1	2004 Q3	2002 Q4	2002 Q1	2000 Q3	2002 Q1	2003 Q1	2001 Q1	2019 Q2	2017 Q4	2017 Q4	2017 Q4	2016 Q4	
	**	\$ *	**** ***** ****	>	À.	*	⊗ >	>	No.	IJ			ॐ	Ån.			(C)		*			>	~	>	Ž,	

10/5/2015

71 8	K13	<u> </u>	K07	K06	K04	K02	K01	J09	, J08	J05	114	113	112	110	106	102_W73	101	H27	H23_W70	H21_W68	H20	H19
07/30/2003 Arnold (Green Mountain) 115kV	.07/28/2003 Hooversville 115kV	07/25/2003 Greenland Gap 500kV	05/07/2003 Easton 69kV	05/06/2003 Easton 69kV	04/15/2003 Camden 26kV	02/25/2003 East Towanda-Moshannon 230kV	02/10/2003 Salem 69kV	01/31/2003 Harrisburg Authority	12/12/2002 Whiteoak	10/25/2002 Huron 69kV	07/31/2002 Upton 34.5kV	07/30/2002 Hooversville 115kV	07/29/2002 Grand Point 69kV	06/11/2002 Bethesda (Sub 6)	04/08/2002 Greenwich Pumphousse 2.4kV	03/07/2002 Harrison 500 kV	02/13/2002 Ontario 23kV	01/31/2002 Marion 26.4kV	01/30/2002 Kelso Gap 138 kV	01/29/2002 Greenland Gap 500kV	01/21/2002 Oak Grove 13.8kV	01/11/2002 Hope Creek 500kV
10.4 0.4	29.4 5.8	60 2.8	10, 4.2	10 4.2	ហ	70 70	8	26 11	6	8 4	14 4	29.4 2 9.4	30.5 9.6	2 2	1.7 1.7	35 21	7.5 7.5	2.9	100 70	300 264	3.5: 3.5	1221 43
2.08	5.88	60	ហ	ហា		0		26		co	4.1	0	23.3			သ		_		0	υ	43
	5.88		ري د	তা	υī	70	œ	26	0	œ	4.1	29.4	23.3	. 2	1.7	ស្វ	7.5		100	300	3,5	43
©	C)	Ø	O	Ø	C)	O	co	O	C)	©	O	O	9	C)	Ç	K)	C)	C)		c)	Ø	C)
0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	((0	0	0		0	(1)	0	0	0	0	0	0	0	0	0
\otimes	0	0	\otimes	\otimes	8	0	\otimes	0	\otimes	\otimes	8	0	\otimes	8	8	8	8	\otimes	0	0	\otimes	0
0	0	0	(1)	0	0	0	0	0	0	0	0	9	0		9	0	0	0	0	0	0	0
8	0		(S)	(8)	0	0	8	0	0	(8)	0	.	@	0	8	\otimes	0	\otimes		(1)	\otimes	8
PA	PΑ	∀	ĕ	MD	Z	PΑ	Z	PΑ	MD	Z	PΑ	PA	PA	MD	Z	₩/	Z	Z	- MD	- ₩	- 8	Z
2004 Q3	2007 Q3	2007 Q3	2004 Q4	2004 Q4	2005 Q2	2012 Q3	2004 Q3	2006 Q2	2004 Q3	2003 Q3	2004 Q2	2008 Q1	2004 Q1	2004 Q4	2003 Q2	2004 Q3	2005 Q4	2002 Q4	2006 Q4	2007 Q3	2003 Q2	2007 Q4
, da		1		<u></u>	#	. Aleka		*		2>	*	"å,		7	<i>73</i>	J	, , , , , , , , , , , , , , , , , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,Å.	*	₹

	012	011	010	009	006_DP01	005	N47	N39	N34	N32	N31	N27	N26	N17	N16	N15	N 14	Z 13	N12	N1 1	N10	N07	N06	10/5/2015
	03/28/2005 Chicago Heights 138kV	03/21/2005 Bustelton 13kV	.03/14/2005 Edgemoor 138kV	03/07/2005 Normandy	02/24/2005 Altavista 115kV	02/22/2005 Rochelle	01/31/2005 Beryl 138kV	01/28/2005 Johnstown-Altoona 230kV	01/28/2005 Motiva	01/28/2005 Gans 138kV	.01/28/2005 Freemansburg 69kV	01/27/2005 Pequest River 34.5 kV	.01/20/2005 Daleville	12/09/2004 Laurel-Sussex 69kV	12/09/2004 Kent-Harrington 69kV	12/02/2004 LaSalle 138 kV	11/22/2004 Frackville-Hauto #3 69kV	11/01/2004 Beaver Valley	10/13/2004 North Haverhill 69 kV	10/11/2004 Wolf Hills 138 kV	10/11/2004 Grangston 138 kV	09/28/2004 Monterey 69kV	09/16/2004 Hamilton 12kV	ю.тіфлими
			-																					om/plannir
	20 20	7.2	242	212	83.6 3.4	22 22	85 5.2	80 80	250 250	50.4 0.4	ូហ	3.6 3.6	1.7 1.	w	4	150 150	27.3 24	1652 163 0	75 75	250 15	300	38	0	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
0		6	ហ	42.4		2				5 10.1	J.		7 1	ω	. 4			53 0 1630			6	7	UT.	interconne
	20	7	ហ		4	2	17	16	142			3.6	1.7			30	5.4		75	15	6	7.6	0	ction/gen
	20	7	242	212	4	22	85	80	250	50.4	5 1	3.6	1.74	(J.)	4	150	24	1630	75	3	6	38 ,	0.047	eration-q
			4			()	(©	O		()	T)	© _	(i)		()		C)	© -		\Diamond	(0)	ueue-ac
	0	0	0	0	0	0	0		0	0	0		0	0	0	9		8				0	0	tive.as
	8	8	\otimes	0	8	∅⊗	() ()	0	◎ ⊗	0	⊗	⊗	⊗	8	⊗	0	() ()	& &	0	⊗	Ø	0	◎ ⊗	×
	0	9	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	3	0	
						· Ø)·							-											
	·⊗ =	Z	⊗ PE	@ =	\ <u>\</u> \	F	· · · · · · · · · · · · · · · · · · ·	PA	⊗ PE	₽A	⊗ PA	Z	PA PA	Ø DE	⊗ DE	② F	PA	⊗ . PA	○ OH	⊗	⊗ W/	⊗ \$	PA	
	2005 Q4	2007 Q2	2005 Q2	2016 Q3	2006 Q2	2005 Q2	2011 Q4	2006 Q4	2005 Q4	2011 Q4	2008 Q2	2007 Q2	2009 Q4	2006 Q4	2006 Q4	2009 Q4	2006 Q2	2005 Q1	2009 Q2	2005 Q2	2005 Q2	2012 Q4	2005 Q1	
	A ² 3 H 卷 7 3 4	٥	**	,		\$		Å	ŋ ⁾	, de	%	(A)	9		\$		Å	**	IJ	/// **********************************	~	nie nie		

																									10/
P10	. P09	P06	P04	P03	054	053	051	050	048	046	043	042	038	036	035	033	032	031	029	026	025	022	020	018	10/5/2015
· · · · · ·		:				٠					e •	÷				÷ 4	•	-					•		
09/26/2005 LaSalle 138kV	09/14/2005 Kerr Dam 115kV	09/09/2005 Cumberland 230kV	09/08/2005 Peach Bottom 500kV	08/29/2005 Frackville-Hauto #3	07/27/2005 Beaver Valley #2	07/27/2005 Beaver Valley #1	07/27/2005 Pontiac Midpoint-Wilton Center 3 45kV	07/26/2005 Powerton-Dresden 345kV	07/26/2005 Hays Mill - Lookout 115kV	07/22/2005 Frackville-Hauto #3 69kV	07/07/2005 University Park	07/06/2005 Cook 345 kV	06/27/2005 Johnstown-Altoona 230kV	06/06/2005 Honey Brook 12kV	06/06/2005 Providence Heights #1 138kV	·06/02/2005 McGirr-Mendota	05/31/2005 Mountaineer 765kV	05/18/2005 Fries 12kV	05/16/2005 Normandy 138kV	05/12/2005 Pine Grove 69kV	05/12/2005 N. Salisbury 25kV	05/11/2005 Powerton-Goodings Grove 345kV	05/04/2005 Lakehurst 34.5kV	04/21/2005 Salix-Claysburg (Krayn) 115kV	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
190.5 135	267 27	225 100	557 550	27.3 1.3	908 54	902. 75	300 300	200 200	36 36	27.3 2	504 54	1100 84	50 50	1.6 1.6	74 74	20 20	1320 20	5.2 5.2	225	8 6	6 6	300 300	9.4 9.1	65 2.5	ıning/generation-ir
37.2	27	225	550	<u>-</u> دن	77	81	60	40	7.2	0.4	54	84	. 10		14.8	4	20	5.21	45	∞	6	60	9.4	13	terconnectio
190.5 🕃	27 Q	225 g	550 g	1.3 ©	· 77 ©	81 ©	300 වූ	200 g	36 වූ	2 O	54 ©	%	50 g	1.6 📀	74 9	20 g	20 g	5.21 😜	225 🔷	∞ ©	6	300 S	9.4	65 g	n/generation-∢ueı
0	0	.		0	 ()	0	0	•	()	(0		(0			0	0	*	0	(()	0	0	0	Je-activ
0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	()	()		(1)	0	0	0	0	e.aspx
0	0	8	8	0	8	\otimes	0	0	8	0	0	\otimes	8	8	8	0	8	\otimes	0	\otimes	8	٩	8	8	
0	0	0	0		0	0	0	0	0		0	0			0		0	0	0	0	0	0		0	
0 F	⊗	() Z	PA	PA PA	⊗ PA	⊗ PA	@	© -	PA		⊗ =	⊗ <u>≥</u>	PA	⊗ PA	9 F	⊗ =	⊗ ₩	∨ _A	⊗ =	O PA		@ =	⊗ ₹	PA	
2010 Q2	2011 Q1	2008 Q4	2011 Q1	2007 Q4	2006 Q4	2006 Q3	2007 Q4	2012 Q4	2008 Q2	2007 Q4	2011 Q4	2006 Q4	2007 Q4	2011 Q2	2007 Q2	2012 Q2	2005 Q2	2006 Q4	2016 Q3	2008 Q2	2007 Q2	2010 Q4	2007 Q2	2008 Q4	
1.	*	~		,A.,	W	*	, militar	,	Á	Á.		×	, Pro	*	ma ^s s.	Å.	**************************************	⊗ *	,u ^d a	***	***************************************	Ž.	8	. Land	

Johnstown Altoona 230kV 210 <th>P61</th> <th>P60</th> <th>P59</th> <th>P.5</th> <th>P50</th> <th>P49</th> <th>P47</th> <th>P46</th> <th>P44</th> <th>P43</th> <th>P42</th> <th>P38</th> <th>P36</th> <th>P35</th> <th>P34</th> <th>P33</th> <th>P32</th> <th>P28</th> <th>P27</th> <th>P26</th> <th>. P22</th> <th>P20</th> <th>P16</th> <th>P14</th> <th>P1</th> <th>10/5/2015</th>	P61	P60	P59	P.5	P50	P49	P47	P46	P44	P43	P42	P38	P36	P35	P34	P33	P32	P28	P27	P26	. P22	P20	P16	P14	P1	10/5/2015
20	01/31/2006 Gavin #1 765kV	01/31/2006 New Baltimore 115kV (Stony Cree '	01/31/2006 Belington 138kV		01/27/2006 Greenville 69kV		01/25/2006 Mansfield-S. Troy 115kV			01/13/2006 Weyerhaeuser 115kV	01/12/2006 West Kingsport 138kV	12/22/2005 Bremo 230kV	12/22/2005 Nelson - Lee Co. EC 345kV		12/20/2005 Washington Landfill		12/07/2005. White Oak					.10/26/2005 Nelson-Electric Junction 345kV	10/19/2005 Bath County	10/12/2005 McGirr-Mendota	09/26/2005 Kewanee 138kV	www.pjm.com/plan
20				2362 7			100 100	100 100	•	62.5		675 675	240 240	4.1.4		4.3				9.5. 9.5		210	3030:340	80 80	200, 200	ning/generation-inter
	20	10.5	25	. 7	 4	9	20	20	7	50	45	625	48	2	6.4			30	13	1.9	4	42	340	16	40	connection/
0000 Q2		© ⊚ ⊚ ⊚ PA 2010 Q1	2 · ◎ ◎ ⊗ ◎ ◎ WV 2008 Q4		② · ◎ ◎ ⊗ ◎ ⊗ OH 2006 Q2	②	②	② · ◎ ◎ ⊗ ◎ ◎ IL 2007 Q4						©	② · ◎ ⊗ ⊗ □ · ⊗ PA 2006 Q4		© ● ◎ ⊗ ◎ ⊗ MD 2007 Q4	②	© • • • ∞ • ∞ • ∞ • 008 Q1	♀ ● ● ■ □ ⊗ IL 2012 Q2	② ⑤ ⑥ ⊗ ∞ ⑥ PA 2009 Q3	210 💎 🔘 🔘 🔘 🔘 🔘 IL 2015 Q2	340 🕄 🔘 🔘 🔘 🔘 🔘 VA 2009 Q4 🎄	80 © @ @ @ W W L 2012 Q2 🚜	200 © @ @ @ . @ IL 2012 Q1 🙏	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx

Q71	Q70	Q69	Q65	Q63	·Q59	Q57	Q53	Q51	Q50	Q49	Q47	Q45	Q44	Q43	Q39	. Q36	Q31	Q27	Q22	Q20	Q18	Q10	Q09	Q03	Q01	P62	10/5/2015
				, .																							
07/26/2006 Cranes Corner 13.2kV	07/25/2006 Lawrenceville 34.5kV	07/25/2006 Shackleford 34.5kV	07/14/2006 North Anna 500kV	:07/11/2006 Seneca 230kV	07/07/2006 S. Reading-Birdsboro 64kV	07/06/2006 Steward-Waterman 138kV	06/23/2006 Summit-West Fall 115kV	06/20/2006 Quad City 345kV	06/20/2006 Dresden 345kV	06/20/2006 Dresden 345kV	06/20/2006 Peach Bottom	06/14/2006 North Lebanon 13.2kV	06/09/2006 Elizabethtown	06/07/2006 Clinch River 138kV	05/08/2006 Kewanee 138kV	04/28/2006 Philipsburg - Tyrone North 115kV	04/11/2006 Wagner 34kV	04/07/2006 Frackville-Shennandoah 69kV	03/20/2006 Columbia 34.5kV	03/17/2006 Holtwood	03/08/2006 Moser 34.5kV	02/23/2006 Keystone 345kV	02/21/2006 Emporia	02/13/2006 Olive-Dequine 345kV	02/07/2006 Olive-Dequine 345kv	-01/31/2006 Gavin #2 765kV	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
		_,	1594	40	6	2.	1.1	. 191	9	95	253	ω.	0	5 1	105	<i>(</i> n		10	0	24		238	2.	25	5(1320	ınning/gen
2 2		10 10	4	468: 16	6.4 6.4	240 240	38 38	1914 140	957 70	957 70	2532 140	3.2; 3.2	0.3 0.3	534 534	, ST	50 50	10 10	100: 100	0.5 0.5	249 140	21	8 27	2.5 2.5	250 100	500 - 500	0 20	eration-int
. 2	\ 	. 10	1570	16.	6.4	48	7.6	140	70	70	140	3.2	0.	534	21	10	0	20	0.5	140	υī	27	2.5	50	100	20	erconnection
N)	شب اسم	1	1594	16	6.4	240	ಜ	140	70	70	140	3.2	0,3	55 34 4	105	50	ä	100	0.5	14C	ι π	27	2.5	250	500	20	/generatio
r)	C)	m	\diamondsuit	C)	K)	C)	K)	K)	Œ)	<u>د</u>	©	C	C)	co —	(£	(C)	C)	C)	(()	œ	Ø	©	C)	(I)	(3)	(C)	n-queue
0	0					(0	0	0			0	0	0	0	0	0		0	0	0		e-active
0	0	0		0	0	0	()		0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	e.aspx
\otimes	(8)	\otimes	0	8	\otimes	0	0	②	8	\otimes	8	\otimes	\otimes	0	0	0	\otimes	\otimes	\otimes	\otimes	\otimes	\otimes	\otimes	\otimes	\otimes	\otimes	
0	0	0	0		0	0		0		0	0	0		0		0	C3	0		0	0	0		0	0	0	
0	0	0	0	\otimes			•	0	\otimes	⊗	(S)	0	8			0	(8)	0	(X)	0	8	8	\otimes	8	0		
٧X	VA	VA	VA	₽	PΑ	F	PΑ	=	 	7	PA	PΑ	PΑ	XA	产	PΑ	MD	PΑ	Z	PA	PΑ	Ī	٧×	Z	Z	유	
2008 Q2	2007 Q4	2008 Q1	2024 Q1	2010 Q3	2008 Q2	2014 Q4	2011 Q2	2011 Q3	2012 Q4	2011 Q4	2012 Q4	2007 Q3	2006 Q3	2012 Q1	2016 Q4	2012 Q2	2006 Q2	2009 Q2	2006 Q4	2010 Q4	2007 Q4	2008 Q4	· 2007 Q2	2009 Q4	2008 Q4	2009 Q2	
*	>	٧	×	&	Ŕ	J.	太	≫	×	≫	34.	Œ		ij		À	<i>(</i>)	٨	(g)m	5 >	3	>	۵	Å	Å	ŋ	

R72	R66	. R63	· R62	R60	R57	R52A	R52	R49	R48	R40	R33	R32	R30	R23	R20	R19	R18	R15	R14	R1 1	R07	Q90	Q79	Q76	Q73	10/5/2015
			; "									÷ .												• • •		
01/18/2007 Indian River 230kV	01/12/2007 Fairlawn 138kV	01/11/2007 Chesterfield 230kV	01/08/2007 Big Sandy 138kV	01/08/2007 Convoy-East Lima 345kV	12/20/2006 South Reading 69kV	12/06/2006 Kings Creek 69kV	12/06/2006 Mechanicsburg - Darby	12/06/2006 Haviland - Milan 138kV	12/06/2006 Antwerp - Payne 69kV	11/15/2006 Rockwood - Meyersdale 115kV	10/31/2006 Nelson 345kV	10/30/2006 Salix - Claysburg 115kV	10/24/2006 Pontiac Mid-Point 345kV	:10/16/2006 Lakewood 230kV	10/04/2006 Rock Springs	10/03/2006 Ladysmith 230kV	10/02/2006 Blackhawk	09/29/2006 Adkins 345kV	09/29/2006 Tait 69kV.	09/20/2006 South River	09/12/2006 Pleasantville	07/31/2006 Mickleton 230kV	07/31/2006 Ft. Martin - Kammer 500kV	07/31/2006 Quinton 12kV	07/27/2006 South Reading 69kV	www.pjm.com/pla
438 18	67 67	356: 19	280 20	350 304	30 11	100	200	150. 99	48.3	1.8 1.8	600 - 600	75 75	500	375.6 9.6	330 20	720 340	6.4 6.4	564 9	376 15	440	6: 2	650 650	700 700	2 2	30 19	www.pjm.com/planning/generation-interconnection/generation
18	20	19	20	70	9	20	40	30	9.7	0.36	600	15	100	20	20	340	6.4	9	Մ	440	2	650	100	2	16	onnection/o
18 28	20 (19	20	350	30 🕻	100 🔻	200 ₹	150	48.3	 .cs	600	75	500 ₹	20 (20 (340	6.4	9	5	440 <	2	650	100	2	30	7
re	(C)				© -		4							(I)		(C)	C)	(1)			(C)					queue-active.aspx
9			9	0	0	0	0	0	0	0		0	0	0		9	(0)				9	0	()	0	0	live.as
8	◎	∅∅	∅⊗	⊗	Ø	0	0	⊗	Ø	8		() ()	0	⊚ ⊗	Ø	8	8	8	(S)	0	⊗		⊗	∅⊗	⊗	8
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0		0	
8	0	\otimes	(8)	8	0	0	0						0	8	8	0	8	8	(X)		(8)	0	\otimes	\otimes	0	
) DE	Z) VA	~	Z	PA	9H	9	PH C	H0	PA	=	PA	F	Z	MD	٧A	F	HO () H	Z	Z	Z	₩	Z	PA	
2008 Q4	2007 Q1	2011 Q2	2009 Q2	2012 Q2	2010 Q2	2016 Q4	2016 Q4	2011 Q3	2016 Q4	2008 Q2	2015 Q2	2012 Q1	2016 Q4	2007 Q1	2007 Q1	2008 Q2	2008 Q1	2007 Q2	2007 Q2	2019 Q2	2007 Q4	2014 Q3	2010 Q3	2008 Q4	2010 Q2	
ST CONTRACTOR	*	M. M.		À.	\$	Å.	Å	À	J.	Å,	arro Ann	Å		>	· (##		(3)	ॐ	<i>ॐ</i>	<u></u>	<i>(</i> **)	()>	1)	%	\$	

S109	S108	S103	\$102	\$101	S100	506	S05	\$03	S02	S01	R97	R91	R89	R87	R86	R85	R84	R83	R82	R81	R80	· R76	R74	R73	10/5/2015
07/31/2007 North Anna 500kV	07/31/2007 North Anna 500kV	07/31/2007 Warren 115kV	07/31/2007 Ladysmith 230kV	07/31/2007 Ohio Central 138kV	07/31/2007 Clinch River 138kV	02/27/2007 Olive-DeQuine 345kV	02/27/2007 Seneca #2 230kV	02/13/2007 Edgemoor 230kV	02/05/2007 Mt. Zion 13kV	02/05/2007 Derwood 13kV	01/31/2007 Rockport 765kV	01/30/2007 : Columbus-NJ	01/30/2007 · Conowingo	01/29/2007 Muskingum River #5	.01/29/2007 Tanners Creek #2	01/29/2007 Tanners Creek #1	.01/29/2007 Picway #5	01/29/2007 Kanawha #2	01/29/2007 Kanawha #1	01/26/2007 Emilie 230kV	01/26/2007 Possum Point 230kV	01/23/2007 Kanawha 138kV	01/19/2007 Carlls Corner	01/18/2007 Indian River 138kV	d'mam
 1030 20 20	1023 20 20	57 57 57	950 170 170	580 580 580	614: 80 80	202 200 40	468 16 16	450 5 5	4 4 4	1 1 0	1320 20 20	0.4 5 0	576 12 24	585 10 10	145 5 5	145 5 5	95 5 5	200, 5 5	200 5 5	1268 101 101	640 14 60	100 6.1 59 100	4.8 4.8 4.8	170 5 5	www.pjm.com/planning/generation-interconnection/generation-
20 2 0 0 0 0	20 🕄 🔘 🔘 🛇 🔘	57 8 0 0 0 0	170 🕄 . 🔘 . 🔘 🛇	580 0 0 0 0 0	80 2 0 0 0	202 💀 🚳 🚳 🚳	16 0 0 0 0 0	5 0 0 0 0	4 0 0 0 0 0		20 3 @ @ & @	0.37 8 8 8 8 8	24 8 6 6 8		500000	500000	5 9 9 8 8	5 12 10 10 10 10	50000			100 8	4.8 0 0 0 0 17	500000	vgeneration-queue-active.aspx
) 🚫 VA 2010 Q2 💥) 🕲 PA 2011 Q2 👌	🐞 🍩 VA 2009 Q1 🎂	⊗ OH 2011 Q4) 🔘 VA 2012 Q1 😭) 🔘 IN 2009 Q4 🛶	🖔 🚫 PA 2010 Q3 🎳) 🚫 DE 2007 Q4 🍵	🔊 🚳 MD 2008 Q3 🚓) 🔘 MD 2008 Q3 🪕	⊗ IN 2011 Q4 😭) 🔘 NJ 2007 Q2 : 🚓) 🚫 OH 2007 Q2 😭) ⊗ IN 2007 Q2 📛	⊗ IN 2007 Q2	⊗ OH 2007 Q2	⊗ WV 2007 Q2	⊗ WV 2007 Q2	PA 2010 Q1) 🚫 VA 2015 Q2 🐧) . 🔘 WV 2009 Q1 🏽 💩	⊗ NJ 2008 Q4) 🛇 DE 2008 Q4 😭	

559	555	\$50	\$43	· S40	538	S37	S36	S35	S34	532	_. \$30	S29B	S28	S2.7	S25	S14	S13	5121	S115	5114	S113	S112	S111	· S110	10/5/2015
06/25/2007 Sharpsburg 12kV	06/06/2007 Zion 345kV	05/24/2007 Occoquan 230kV	05/15/2007 Vineland	05/10/2007 Hegins	05/07/2007 Westvaco 138kV	05/07/2007 Kankakee 138kV	05/07/2007 Kankakee 138kV	05/07/2007 Beverly 345kV	05/07/2007 Handsome Lake Energy 345kV	·05/03/2007 Perryman	04/30/2007 Gould	.04/27/2007 Somerset 23kV	04/17/2007 Blue Mound II	04/17/2007 Blue Mound I	04/09/2007 Parlin 230kV	03/19/2007 Dans Mountain	03/19/2007 Keystone 345kV	07/31/2007 Vineland 69kV	07/31/2007 Surry 500kV	.07/31/2007 Surry 230kV	07/31/2007 Surry 230kV	07/31/2007 North Anna 500kV	07/31/2007 Surry 500kV	07/31/2007 North Anna 500kV	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
								-					-							-					າ/plannir
1.9	780 · 585	98	17	10.5	. &	175	175 175	620: 20	270	256 120	4	6.8: 6.7	198 198	198 198	124 114	70	238	63	932	932	932	1030	932	1023	ıg/genera
	585	∞	17	0.5	œ	•	175	20	20	120	4	6.7 5	198	198	հա հա 4		19	63	75	75	ઝ	65	13	65	tion-inter
0	495	≈	17	10.5	0	35	35	20	. 20	230	0	5.7	39.6	39.6	114		19	63	75	75	<u>.,</u>	65	<u>-1</u>	65	connection
1.89	585	18	17	10.5	co	175	175	20	20	256		6.75	198	198	114	70	19	63	75	75	15	65	5	65	/generatio
\bar{\}	c)	O	æ	©	,¢O	٥. إ	C)	©	©	¢)	(1)	©		೦೦	C)	♦	rO	ು	¢()	(<u>O</u>	©	©	©	co co	on-queue
0	0	0	0	0	0	0			0	0			0	0	0	0	0	0	0	0	0	0	0	0	-active
0	0	(1)	0		0	0	0		0	0	0	0	0	()	()	0	0	0	0	0	0	٠	()	0	aspx
\otimes	(8)	8	8	0	8	0	0	8	8	\otimes	8	0	\otimes	8	\otimes	0	8	\otimes	\otimes	(8)	\otimes	(8)	8	8	
	0	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0	9	0	0	0	
\otimes	8	\otimes	\otimes	0	0	0	(\otimes	\otimes	0	8	0	8	\otimes	8	0	(3)	(8)	(3)	\otimes	\otimes	\otimes	\otimes	\otimes	
오		XX	Z	PΑ	MĎ	F	7	유	PΑ	M∂	MD	PΑ	7	7	Z	MD.	Z	Z	VA.	۸۸	٧A	٧×	V _A	٧A	
2007 Q4	2011 Q4	2007 Q2	2007 Q4	2009 Q1	2009 Q2	2016 Q4	2015 Q3	2008 Q2	2007 Q2	2015 Q2	2007 Q4	2011 Q3	2010 Q2	2010 Q2	2008 Q2	2016 Q1	2008 Q4	2012 Q2	2011 Q3	2012 Q2	2011 Q2	2010 Q2	2011 Q2	2010 Q2	
象	@ >	*	Ì	\$,15 ² / ₁₆	Å	7,1	<i>⇔</i>	*		%	må.	Juhi,	()»	پیگر	Ör	○>	W.	W	**	÷jej-	M	W.	

)		į))))	A 17		ì					
2008 Q2	VA 2	\otimes	0	8	() (1)	15	ភ	<u></u>	190		07/31/2007 Remington 230kV	S95	
2008 Q2	VA 2	8	0	8	0	15		, ''	190	· • •	07/31/2007 Remington 230kV	594	
2008 Q2 🛔	VA 2	\otimes	0	8	0	5	<u>5</u>	15 5	190		07/31/2007 Remington 230kV	\$93	
2008 Q2 🍵	VA 2	\otimes	0	8	0 a	20 😨	20	20	125		07/31/2007 Elizabeth River 230kV	592	
·2008 Q2 🤚	VA . 21	8	0	8	0	20 😨	20	20	125		07/31/2007 Elizabeth River 230kV	S91	
2008 Q2 🍦	VA 21	8	0	8	0	20 🙄	20	20	125	.,	07/31/2007 Elizabeth River 230kV	590	
2008 Q2 🤚	VA 20	8	0	8	0	20 😨	20	20	92		07/31/2007 Darbytown 230kV	589	
2008 Q2 🤚	VA 21	8	0	8	0	20 😰	20	20	92	•••	07/31/2007 Darbytown 230kV	\$88	
2008 Q2 🍦	VA 21	(X)	0	8	0	20 😰	20	20	92		07/31/2007 Darbytown 230kV	S87	
2008 Q2 🍵	VA 21	8	0	8	0	20 🚱 -	20	20	92		07/31/2007 Darbytown 230kV	S86	
2010 Q2 🦣	VA 21	0	0	8	0	19 ©	19	19	92		.07/31/2007 Surry 230kV	\$85	
2010 Q2 🏽 🍵	VA 21	0	0	8	0	79	19	19	92		07/31/2007 Surry 230kV	S84	
2010 Q2 🧁	VΑ 2	0	0	8	0	19	19	19	92		07/31/2007 Surry 230kV	\$83	
2010 Q2 👸	VA 2	0	0	8	0	19	19	19	92		07/31/2007 Surry 230kV	S82	
2010 Q2 🤚	VA 2	⊗	0	8	0	22 g	22	22	306		07/31/2007 Basin 230kV	S81	
2011 Q2 😭	VA 2	(8)	0	8	0	20 🕾	20	20	356		07/31/2007 Chesterfield 230kV	S80	
2010 Q4 😭	VA 2	8	0	8	0	27 😭	27	27	691		07/31/2007 Chesterfield 230kV	579	
2013 Q2 😭	WV 2	8	0	8	0	38 ©	25	38	585		07/31/2007 Mount Storm 500kV	S76	
2011 Q2 😭	WV 2	8	0	8	0	38 g	25	38	585		07/31/2007 Mount Storm 500kV	574	
2016 Q4 -{	N 2	0	0	0	0	240 🗑	48	_	240		07/30/2007 Convoy-East Lima 345kV	S772	
2016 Q4 🛶	≅ 2	0	0	0	0	120 🤝	24	_	120		07/30/2007 Bluff Point 138kV	571	
2015 Q3 🍓	₩V 2	0	0	8	0	36.4 🔷	36.4	. ***	36.4		07/27/2007 Eureka 138kV	\$70	
2008 Q2 🧂	MD 2	0	0	8	0	101 ©	÷01	9.4	106		07/26/2007 Gould St.	S67	
2007 Q4 🏽 🦣	OH 2	8	0	8	0	13	ដ	13	376		07/05/2007 Tait 69kV	S63	
2011 Q4	2	\otimes	0	8	0	20 😨	20	180	180		06/27/2007 Tosco 230kV	S61	
				₹	clive.asp	aneration-queue-active.aspx	www.pjm.com/planning/generation-interconnection-interconnection-interconne	ation-inter	ng/gener	.com/planni	midwww	10/5/2015	

T16	T157	T155	T154	T148	T147	T143	T142	T131	T129	T127	T126	T121	T12	T118	T117	7111	T110	T1:	T109	T108	T107	T104	T103	T102	T10
												,													
-08/20/2007 Kelso Gap 138kV	01/30/2008 New Creek Mountain 500kV	01/29/2008 Belknap 25kV	01/28/2008 Bellefontaine 69kV	01/25/2008 Wempletown-Belvider 138kV	01/24/2008 Perryman	01/16/2008 Hennepin	01/15/2008 Southwest Lima-Marysville 345kV	01/09/2008 Lincoln-Sterling 138kV	01/08/2008 Printz 230kV	01/02/2008 Olive-Dequine 345kV	01/02/2008 Olive-Dequine 345kV	12/28/2007 Potter-Gold 115kV	08/15/2007 Kent-Harrington 69kV	12/19/2007 Linwood 230kV	12/17/2007 Hunlock Creek 69kV	12/12/2007 Buchanan Hydro-Niles 69kV	12/03/2007 Keystone 500kV	08/15/2007 Laurel-Sussex 69kV	12/03/2007 Keystone 500kV	11/29/2007 Archbald 69kV	11/21/2007 Essex 230kV	11/15/2007 Gosport 115kV	11/13/2007 Sunbury 69kV	11/13/2007 Sunbury 69kV	08/15/2007 Cranes Corner 34.5KV
	<u>-</u>	•	•	<u>.</u>		2	ω		ات	2:	2		4	Ćο	<u>-</u>	6	9		. 9	9	 6	,		_	
30	160.	6	10 10	100	183 10	250	300	150	541 20	9 200 8.7	200 200	75	4.3 3	840 10	126 126	6.4 4.8	916: 20	ST.	918 20	9.2 9.2	675 625	50 20	160 10	160 10	. ω ω
6	32	6	10	20	10	50	60	30	20	40	40	15	4	10	126	6.4	20	ហា	20	9.2	625		10	10	w
. 30	128	6	<u>-1</u>	100	10	250	300	150	20	200	200	75	. 4	1 0	126	6.4	20	ហ	20	9.2	625	20	10	10	(L. I
<u></u>		(3)	©		ග	(S	(©	c)		(S	©		O		(C)		C)	C)	(C)	©	(C)		(C)
0	0		0	0	0		0	0	0	0			(•	9		0	0	0	0	0	0		0	0
(())	0	0	()	0	0	(1)	(0	0		0	0	0	(1)	(1)	0	0	0	0	0	0	0		0 -
\otimes	0	8	8	0	8	0	0	0	\otimes	\otimes	\otimes		8	8	8	\otimes	\otimes	8	\otimes	(X)	0	\otimes	\otimes	\otimes	8
0	0		4.00 4.00 5.00 5.00 6.00 6.00 6.00 6.00 6.00 6		0		0			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
(2)	0	8	\otimes		(3)		0		8		0		8	8	0	0	8	(X)	\otimes	0	0	(3)	8	(8)	8
M∂	₹	PΑ	웃	=	MD	F	웃	웃	ρA	Z	Z	ρA	DE	ρA	PΑ	≧	PΑ	Æ	PΑ	βA	Z	VA	ÞΑ	۸ď	VA
2015 Q4	2016 Q4	2013 Q4	2009 Q1	2016 Q4	2008 Q2	2016 Q4	2015 Q4	2016 Q4	2008 Q4	2010 Q4	2010 Q4	2016 Q4	2007 Q4	2009 Q3	2011 Q1	2009 Q2	2010 Q3	2010 Q2	2010 Q3	2010 Q1	2015 Q2	2008 Q2	2008 Q3	2008 Q3	2008 Q2
á.	and the same of th		9	jaka,				, market		به أفر.	and the		(3)			8	1]	(%)	3 (c.	3	⇔	* 67, -		1000	8
•																									

	1777	176	175	174	173	T68	Т67	T66	T59	T56	T55	T54	T53	T52	T51	T49	T42	T41	T20	T182	T174	T166	T165	T164	10/5/2015
10/05/2007 Arnolds Corner 34.5kV	10/05/2007 Linden 230kV	09/28/2007 South River 230kV	09/28/2007 South River 230kV	09/26/2007 Elgin	09/25/2007 Hanging Rock 765kV	09/21/2007 Edgemoor	09/21/2007 West	09/21/2007 Tasley	09/21/2007 Mickleton	09/21/2007 Christiana	:09/21/2007 :Sherman Ave	.09/21/2007 Cumberland 138kV	:09/21/2007 Delaware City	09/21/2007 Red Lion 500kV	09/21/2007 Hay Road	09/21/2007 Steel City	09/19/2007 Kearny 138kV	09/19/2007 Kearny 138kV	08/30/2007 Falls	01/31/2008 TMI 230kV	01/31/2008 Yukon Hatfield	01/31/2008. Conesville #6	01/31/2008 Conesville #5	01/31/2008 Muskingum River	www.pjm.co
9.8 9.9	1570 44	307 27	280 20	484 16	1240 20	18.2 5.2	20.3 5.3	33 6.7	73.4 7.3	53.4 8.4	93.4 2.4	93.4: 4	23.3 7.3	565 20	565 13	1134 : 42	89 89	178 178	3.3 3.3	824	930	395 395	395 395	600 15	www.pjm.com/planning/generation-interconnection/generation-queus-active.aspx
& 5	44	27	20	16	20	5.2	5. 3	6.7	14.4	8.4	12.4	9.4	7.3	20	1	42	89	178	<u></u>	16.8	900	20	20	15	connection/g
		27 2 @ @ @ @ & NJ	20 9 @ @ @ & NJ		20 @ @ @ \	5.2 ② . @ @ & @ & DE	5.3 8	6.7 2	14.4 @ @ @ @ @ NJ	8.4 9 • • • × • • × • DE	12.4 ② • • × × ×	9.4 © @ @ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7.3 9 • • × × • × DE	20 🖗 🚳 🚳 🔕 ⊗ DE	13 9 @ @ \ @ \ DE	42 🕾 🚳 🚳 🛞 🛞 ⊗ PA		178 @ @ @ @ NJ	3.3 Q 💮 🔘 🛇 🔘 🔘 PA	14 🔷 🔘 🔘 🛇 🌚 ⊗ PA	930 🔷 🔘 🔘 🔘 🔘 PA	20 ♀ ● ● ⊗ ● ⊗ OH	20 ♀ ♠ ★ ♠ ⊗ OH		neration-queue-active.aspx
VA 2010 Q2		J 2012 Q4 გ	J 2012 Q4 🐧	_ 2013 Q1 - 🐧	H 2008 Q2 🌲	E 2009 Q2	2009 Q2	A 2009 Q1 75	J 2011 Q3 🍖	E 2009 Q2	J 2010 Q2 💧	2010 Q3	E 2008 Q2 B	2008 Q2	2010 Q2	A 2009 QZ 👸	IJ 2012 Q2 🐧	U 2012 QZ 🐧	2008 Q2	2015 Q2	2018 Q2	2008 Q1	2008 Q1	он 2008 Q1 😭	

U2-063	U2-061	U2-059	U2-045	U2-041	U2-030	U2-015	U2-013	· U1-095	U1-094	U1-093	U1-090	U1-089	U1-068	U1-067	U1-066	U1-059	U1-054	U1-048	U1-044	U1-032	U1-010	T99	T94	T86	.T85	10/5/2015
07/10/2008 Croydon 230kV	07/07/2008 Garrett County	07/07/2008 Foul Rift 13kV	06/20/2008 Huron 69kV	06/13/2008 East Lima-Marysville 345kV	06/05/2008 Four Mile Ridge Wind 138kV	05/22/2008 Harwood-E. Palmerton 230kV	05/16/2008 Northeast 34.5kV	04/29/2008 Ladysmith 230kV	04/29/2008 Ladysmith 230kV	04/29/2008 Ladysmith 230kV	04/22/2008 Killen 345kV	04/18/2008 Paper Tap 69kV	04/14/2008 York 115kV	04/09/2008 Honey Brook	04/07/2008 Carlls Corner 69kV	04/02/2008 Ada-Dunkirk 69kV	03/26/2008 Calumet	03/24/2008 Reichs Ford Landfill	03/18/2008 Frederick County VA Regional Lan dfill	.02/20/2008 Hopewell 230kV	02/07/2008 Peach Bottom	10/29/2007 Wempletown-Belvidere 138kV	10/24/2007 Cook-Palesades 345kV	10/16/2007 Bradford 34.5kV	10/16/2007 Roxbury-Blain 23kV	: www.pjm.com/pla
391 5	50 - 50	2 2	20	320 0	60 40	100	8 6.5	190 20	190 20	190 20	612	20 0	51 51	3.2 1.6	91 6	49.9	327 27	2 2	2 2	112.5 20	575 18	100	1035	1.6 1.6	6.4 6.4	www.pjm.com/planning/generation-interconnection/generatio
៤ 1	6.5	0.76	2.6	39	7.8	13	&	0	0	0	12	20	10	1.6	& ~^	6.5	27	2	2	0	18	20	1035		9	connection/c
5 ⇔ •••	50 🕃 🔘	2 2 .	20 🗑 🌘	300 🔷 🌑	60	100 🕾 🔘	8 ©	20 💡 🌑	20 🕄 🌘	20 🕄 🧔	12 🔷 🌘	0 ©	10 ©	1.6 🖒 🚳	18 💬 🚳	49.9 🔷 🌘	27 9 @	2 9 @	2 🕸 🚳	20 🙄 🔘	18 0	100 💸 🚳	1035 🔷 🥥	1.6 0 0	6.4 🛇 🔘	generation-queue-active.aspx
® ⊗	9 8	<u> </u>	0	0	0	0	0	0				0	0		0	0	0	0	0	0		0		0		ve.aspx
0	(3)		••••••••••••••••••••••••••••••••••••••••••••••••••••••••	0	0	0	⊗ ⊚	⊗	⊗ ⊗	8	⊗ ③	⊗ (*)	S	⊗ ⊚	⊗ ⊚	0	⊗ ③	8	8	⊗ ⊚	⊗	0	0	⊗ ③	0	
⊗ PA	MD	⊗ ≥	() Z	◎ 0H	MD	PA	· O VA	⊕ ∨∧		O VA	⊗ 9	⊗ PA	⊗ P _A		⊗ Z		⊗ F	⊗ MD	⊗ v _A	⊗ VA	⊗ PA	-	@ <u>M</u>	PA	PA	
2014 Q1	2009 Q4	2011 Q4	2018 Q1	2016 Q4	2014 Q4	2019 Q4	2011 Q4	2009 Q1	2009 Q4	2009 Q4	2008 Q2	2008 Q4	2011 Q1	2011 Q2	2011 Q2	2016 Q4	2013 Q1	2009 Q1	2009 Q1	2009 Q3	2011 Q1	2016 Q4	2016 Q2	2008 Q3	2008 Q4	
<i>?</i> ≫	Å		} ~	Å	j.	, siter,	8	ß,				4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<i></i>		p ²	À		\$	\&	R. M.	>	, militar	*		(3)	

90

8.7 100

8

2018 Q4
2011 Q1
2009 Q2
2012 Q4
2009 Q2
2016 Q4

PA SA

نسر زبرا

100

0

2

2015 Q3

دسا زین

100

0

0

0

유

2015 Q3

(8)

2010 Q2

 \otimes

36

36

0

존 앞

2009 Q4

2014 Q1 2010 Q1 2010 Q1

J I

 \otimes

잎

10/5/2015

www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx

32.5 2.5

2.5

8

0

 \otimes

2008 Q4

00

2012 Q4

2014 Q4

300

39

26

U2-067

U2-072

07/23/2008 Frostburg 138kV II

07/15/2008 Eldred-Pine Grove 69kV 07/23/2008. East Lima-Marysville 345kV

07/31/2008 Desoto-Tanners Creek 345kV

300 200 200

(3)

⑻

PA PA PA

2014 Q4 2008 Q3

100

90

8

26

200

C.

8

Z

2012 Q4

å,

(8)

 \otimes

ĭ O

2012 Q1

2016 Q4

8

80

6.4

10

200

잎

Z

2013 Q1 2012 Q2 PA

2012 Q4

2013 Q4

U2-073 U2-090 U3-001

08/11/2008 Barbadoes 34kV

W1-024	W1-006	W1-005	W1-004	W1-003	V4-073	V4-070	.V4-069	V4-068	V4-067	V4-054	V4-052	V4-049	V4-048	V4-047	V4-046	V4-045	V4-038	.V4-033	V4-027	V4-022	V4-019	V4-018	¥4-011	V4-010	V4-005
02/24/2010 Manalapan 12.5kV	02/04/2010 Oak Hall	:02/04/2010 Oak Hall	.02/04/2010 Oak Hall	02/04/2010 Oak Hall	01/29/2010 Yankee 12.5kV	01/29/2010 Frenchtown 12.5kV	01/29/2010 Frenchtown 34.5kV	01/29/2010 Murphy's 34.5kV	01/28/2010 Cates Road Egg Harbor Township 1	12/31/2009 Fairfield Township 12kV	12/28/2009 West Reading	12/24/2009 Braidwood 2	12/24/2009 Braidwood 1	12/24/2009 Byron 2	12/24/2009 Byron 1	12/24/2009 Peach Bottom	12/16/2009 Friendship Manor 34.5kV	12/11/2009 Desoto-Tanners Creek 345kV	12/07/2009 Quarryville	11/30/2009 Tasley	11/25/2009 Bergen 230kV	· 11/25/2009 Front Royal 500kV	: 11/13/2009 Granger Electric	11/12/2009 Tiffin Center 138kV	11/11/2009 Southampton 13.8kV
4.	20	20	20	20	2.5 0.9	ω ω	ن ن ن	. Ул Ул	2.6 2.6	1.0 . 10	10 10	1219 20	1247 20	1223 20	1249 20	2665.8 103		299.2	5	. UT	1209 10	1425 475	3.2	200	2.9 2.9
 	7.6	7.6	7.6	7.6	0.95		1.14	3.23	0.98	3.8	6	20	20	20	20	206		39	1.9	1.9	10	415	0	26	
∆ <00	20 ♦ €	20 🔷 🧔	20 🔷 🍖	20 🔷 🝖	2.5 🔞 . 🚳	3 🔇	သ (၁	51 (3)	2.6 🞖 🌘	10 10	10 10	20 😭 🌘	20 🗇 🬘	20 0		133.8 🖓 🦸	•	299.2		5 \>	10 🕾 🧟	475 g · @	3 \{\partial}	E-	2.9 🕄 🧣
0	0	0	0	() ()	0	0	0	0	0		0		0	0	0	0	0	0	0	0		0	0	0	0
8	0	0	0	0	8	8	8	8	Õ	0	8	Õ	Õ	0	Õ	0	0	Ö	⊗ ⊗	8	8	0	8	0	8
0	0	0	0							0		0	0	0	0	٩	0				0				
⊕ ≥	⊕ v _A	∨ _A	∨ A		⊗ 9	-⊗ Z	⊗ ≥		⊗ ₹	◎ ∠	⊗ PA	=	· =	7	7	⊗ PA	MD	Z	⊗ PA	⊗ \^	⊗ Z	○ VA	8 9 9	H0	⊗ ≥
2011 Q4	2016 Q2	2016 Q2	2016 Q2	2016 Q2	2010 Q2	2012 Q1	2011 Q4	2011 Q4	2011 Q4	2011 Q4	2011 Q3	2014 Q1	2014 Q1	2014 Q1	2014 Q1	2015 Q2	2012 Q3	2014 Q4	2012 Q3	2016 Q4	2013 Q2	2014 Q4	2015 Q1	2015 Q4	2010 Q3
		Ž.	Ž.		**	*	*	\$		***	ॐ	*	**	≫.	×	×	(i)	Å	Ü	٨		*	٧	À	

W1-124	W1-121	W1-120	W1-119	W1-116	W1-115	W1-114	W1-113	W1-112	W1-111	W1-108	W1-107	W1-101	W1-082	W1-077	W1-072 A_AT5	W1-062	W1-056	W1-054	W1-045	W1-039	W1-033	W1-032	W1-029	10/5/2015
:04/30/2010 Tinton Falls 34.5kV	04/30/2010 Crosswicks 13kV	:04/30/2010 Pemberton Township 2 12kV	04/30/2010 Pemberton Township 1 12kV	04/30/2010 Emmitsburg 34kV	04/30/2010 Tamanend	04/30/2010 Port Carbon	04/30/2010 Millstone 2	04/30/2010 Holmdel	04/30/2010 Harwood-Berwick 69kV	04/30/2010 Grays Ferry 230kV	04/30/2010 Grove City Road 12kV	04/30/2010 Bayonne 13kV	04/29/2010 Milford	04/28/2010 Shacklefords 34.5kV	04/26/2010 Lemoyne	03/29/2010 Clayton 138kV	03/18/2010 Ada-Dunkirk 69kV	03/16/2010 South Akron-Prince	03/04/2010 Roxbury 23 kV	02/26/2010 Pedricktown 230kV	02/25/2010 Pumphrey 115kV	02/25/2010 Millhurst 12.5kV	02/25/2010 Winfall 230kV	www.pjm.co
16.9 6.9	& &	20:	18	14.	 ω	 ယ 	 	. 4	20 14	163 13	. 2.	1.4 1.4	20	14 12	640 40	101 101	18.4	11.4 1.4	1. 	120.3 10	157	ω,	300	m/planning/generation-int
6.4	3.04 ·	7.6	6.8	5.32	1.14	1,14	ω	1.52	0	13	0.74	0.532	7.6	4	40	53	2.4		5.13	10	25	1,14	39	erconnection
16.9 🕄 🔘	8	20 🗑 🔘 (18 🛇 . 🚳 .	14 0 0 0	3 🔷 🚳	3 \\ @	8 0	4 🚳	20 🛭 🔘 1	13 🔞 : 🕲 : (2 🛜 🔘 (1.4 8 0	20 🔷 🔘	4 0 0	40 © ©	53 8 🚳 1	18.4 🔷 🚳 (11.4 0 0	13.5 🛡 🔘	10 © ®	25 🔷 🚳 1	3 🔷 🚳	300 💠 🚳	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
◎	◎ ⊗	⊗	8	∅∅∅	⊘ ⊗	∅∅	∅	Ø	0	⊗	⊗. <a>⊕	⊗	⊗	9	0	∅∅	8		(⊗)	⊗	0	∅	0	xdx
	53	g	S	0	Ľ3				0	0		C	25	0	0	0	0	0	0	0	0	0	0	
⊗ ≥	8	⊗ Z	8	MD	⊗ PA	⊗ PA	@ Z	⊗ ≥	PA	⊗ PA	⊗ PA	⊗ ≥	8		⊗ £	DE	○ 9	PA PA		⊗ ≥	MD	@ 2	◎ NC	
2012 Q4	2011 Q4	2013 Q4	2013 Q4	2012 Q3	2014 Q2	2013 Q4	2015 Q2	2013 Q1	2013 Q3	2013 Q3	2015 Q3	2011 Q1	2014 Q2	2011 Q3	2014 Q2	2012 Q2	2016 Q4	2012 Q4	2017 Q1	2012 Q1	2016 Q4	2015 Q4	2016 Q4	
*	**	***	**	*	**	\$\$\$.	**	**		William Control	***	*		3	ॐ	>	1	٥		(3)			Å	

W2-061 W2-071	W2-056 W2-057	W2-052	W2-050	W2-049	W2-048	W2-040	W2-039	W2-036	W2-030	W2-029	W2-028	W2-022	W2-019	W2-018	W2-016	₩2-014	W2-011	W2-010	W1-132	W1-130	W1-129	W1-127
07/29/2010 Ringoes 12kV 07/30/2010 Mt. Laurel 13kV	07/23/2010 Lumberton 13kV 07/28/2010 Laurel Mountain	07/19/2010 Pierson Avenue 13kV	07/13/2010 Flemington	06/30/2010 Reedy Creek 115kV	06/30/2010 Brokaw-Lanesville	06/29/2010 : Camden 69kV	06/28/2010 Clayville 69kV	06/18/2010 Polhemus Lane 13kV	06/03/2010 Egg Harbor Township	06/01/2010 Limerick #2	06/01/2010 Limerick #1	05/28/2010 Pantego 115kV	05/28/2010 Wrightstown 34.5kV	05/28/2010 Cumberland County Landfill	05/25/2010 Frenchtown 34.5kV	05/25/2010 Richmond	05/20/2010 Conemaugh Unit 2	.05/20/2010 Conemaugh Unit 1	04/30/2010 Pittstown	04/30/2010 Vine Road 12kV	.04/30/2010 Cookstown 34.5kV	04/30/2010 Phillipsburg 12.47kV
3.8 2.8 2.8 2.8	11 11 32 32	0.6 0.5	10	47.4 7.4	62.5	20	63 ·	0.7 0.7	9,6	1218	1218	73.6	় ক	11.2 0	15 8	98 2	870 20	870 20	2 2	9.2	 	υ υ
1.1 1.06	4.18 0	0.225	0	47.4	0	7.6	63	0.284	3,65	J.	úп	9.57	2.3	4.8	5.7	2	20	20	0	3.5	1.9	
3 🔷 2.8 😜	32 🕸	0.592 🙄	10 <	47.4 🙄	62.5	20 🔷	63 🔷	0.749 😨	9.6	5	CJ C	73.6 🗑	о (>	4.8 ©	1 5	2 🗇	20 2	20 g	2 ©	9.2 <i>\(\)</i>	5 15	3 4
00	00	0	0		0	0	0	0	9	0			0		0	0		0	9	0	0	
		(2)	0	0	@		0	0	0		0	0					<i>◎</i>	()	0	0	0	
Ø Ø		Ø	8	0	0	8	0		0	8	⊗.	0	8	8	8	\otimes	(X)	8	⊗	0	8	8
33	9 I	Ø	9	٠		0	0		C			(1)	0	0		0	0	٥		63	0	0
⊗ ⊗ ≥ ≥	⊗ ⊗	⊗ ≥	() Z	● VA	=	₩ OH	@ Z	⊗ ≥	⊗ ≥	PΑ	PA	O N	◎ ≥	⊗ PA	⊗ ⊗	⊗ PA	⊗ PA	⊗ PA	⊗ ∠	⊗ ≥	E	② ≥
2017 Q1 2011 Q4	2012 Q4 2011 Q3	2011 Q1	2015 Q3	2013 Q3	2015 Q4	2017 Q2	2015 Q2	2011 Q1	2016 Q1	2014 Q4	2014 Q4	2016 Q2	2016 Q2	2012 Q2	2013 Q4	2014 Q2	2012 Q3	2012 Q3	2013 Q4	2016 Q3	2014 Q3	2016 Q2
* *	8 *		<i>7</i>	*	٨	*	*	*	**	₩.	×	٨	*		***	Ţ,	1]		*	Ä	Ü	

http://www.pim.com/planning/generation-interconnection/generation-queue-active.aspx

																						•			
W3-063	W3-057	W3-048	W3-047	W3-046	W3-045	W3-044	W3-032,	W3-029	W3-028	W3-025	W3-003	W3-002	W2-102	W2-094	W2-091	W2-090	W2-088	W2-083	W2-082	W2-078 W2-080	W2-076	W2-075	W2-073	10/5/2015	

W3-066	W3-063	W3-057	W3-048	W3-047	W3-046	W3-045	W3-044	W3-032A	W3-029	W3-028	W3-025	W3-003	W3-002	W2-102	W2-094	W2-091	W2-090	W2-088	W2-083	W2-082	W2-080	W2-078	W2-076	W2-075	W2-073	0/5/2015
			٠٠.														•					-				
09/24/2010 Shawboro 230kV	09/17/2010 South Fultonham 4kV	09/01/2010 Lumberton 69kV	.08/31/2010 Hope Creek 500kV	08/31/2010 Front Royal 500kV	08/31/2010 Powerton 345kV.	08/31/2010 Fairfield 12kV	08/31/2010 Washington 12kV	08/30/2010 Cartanza 230kV	08/30/2010 Buckeye-Ringoes 34.5kV	08/27/2010 Cedar 230kV	08/27/2010 Wrightstown 34.5kV	08/03/2010 East Flemington-Frenchtown 34.5 kV	08/02/2010 Occoquan 34.5kV	07/30/2010 Mt. Holly 26.4kV	07/30/2010 Lincoln 13.2kV	07/30/2010 Broadway-Stewartsville 34.5kV	07/30/2010 Lumberton 230kV	07/30/2010 Gravel Hill-Smithburg 34.5kV	07/30/2010 Frenchtown-Rosemont 34.5kV	.07/30/2010 Fort Dix-McGuire 34.5kV	07/30/2010 Stanton 12kV	07/30/2010 Applegarth 12.5kV	07/30/2010 Rocktown 4.8kV	07/30/2010 Tolna Unit 2	07/30/2010 Fishburn/Tanney 46kV	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
300	0.9	20	1275	1464	207.5	ω	20	309.2	17	348	2.1	10	6.4	7	ω	10	20	17	17	17	2	9	2	20	4.	ıning/genera
	0.8 5		50	39									6.4	7										20		llion-int
40	0	7.6	50	60	0	1.14	7.6	309.2	6.5	45	0	0	6.4	2.66	دب دس	0	7.6	6.5	6.5	6.5	0.8	3.4	0.8	0.9	1.5	erconnection
300	0,85	20	50	39	207.5	ω	20	309.2	17	348	2.06	1	6.4	7	Ų	<u>-</u> -	. 20	17	17	17	2	9	2	0.9	4	/generation
4	೦	\Diamond	C)	O	(\$	\Diamond		C)	4		\Diamond	0	C)	C)	\Diamond	\Diamond	\Diamond		4	4	4	\Diamond	4	Œ)	4	nenb-u
	0	0	0	0					0		0	(0	0	0	0	0	0	0	0		0	0	0	0	e-active
0	0	0	0			0	0	0	0	0	0	0		0	0	0	0	0	0		٠	.0	0	0	0	e.aspx
2FT0	λΩN.	8	8		0	\otimes	0	0	\otimes	0	\otimes	\otimes	\otimes	8	8	\otimes	\otimes	8	8	\otimes	\otimes	\otimes	8	\otimes	8	
0	\otimes	V	· Sance	4220	-																					
0	Ø	g	0		 -	G		0		0	967-2 5-23 5-23 5-23		0								23	0		0		
						3 8	S 8	0	e 8	0	S			0	8		s 8	3 8						S	3 ⊗	
			0		_							∅≥							8 8 2	© & z		⊗	© ⊗ ≥			
	8	S	\(\text{\tin}\text{\tett{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\text{\text{\tet{\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\te	0		8	8	0	8	0	\otimes	\otimes	8		8	8	8	8	8	\otimes	8	8	8	8	8	

http://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx

W4-004	W4-001 A_AT9	W3-175	W3-162	W3-160	W3-159	W3-158	W3-139	W3-135	W3-134	W3-128	W3-124	W3-113	W3-112	W3-111	W3-110	W3-106	W3-105	W3-099	W3-088	W3-080	W3-079	W3-077	W3-076	
11/10/2010 Madison-Tanners Creek 138kV	11/02/2010 Lowellville 69kV	10/29/2010 Churchtown 230kV 2	10/29/2010 Baker 345kV	10/29/2010 Worcester 25kV	10/29/2010 Hornerstown-Windsor 34kV	Great Adventure-Great Adventure Tap 34kV	10/29/2010 Broadway-Stewartsville #3 34.5kV	10/29/2010 Goose Lake 34.5kV	10/29/2010 South Joliet 34.5kV	10/29/2010 Sporn-Waterford 345kV	10/29/2010 Devils Brook 13kV	10/29/2010 S. Cumberland 69kV	10/29/2010 S. Cumberland 69kV	10/29/2010 S. Cumberland 69kV	10/29/2010 Sussex	10/29/2010 Sussex-Wykertown 34.5kV	10/29/2010 Dickerson 230kV	10/27/2010 Erie East-Erie South 230 kV	10/21/2010 South West Lima 345kV	09/30/2010 Burlington 26kV	09/30/2010 Allenwood-Larabee 34.5kV	09/30/2010. Broadway-Stewartsville 34.5kV	09/30/2010 Morris Park-Stewartsville 34.5kV	
90	24 3.2		993 20	10:	12	œ .	10	12.1	10.6	652	2.9 2.8	49.9	<u>3</u> 5	20	7.5 7.5	9.9	18 18	100	200	15	7	. 3	17.	
11.7	3.2	371	20	3.8	4.56	w	0	12.1	10.6	652	1.08	5.7	5.7	7.6	2.85	0	Ų٦	<u></u>	26	5.7	2.66	5.7	6.4	
90	3.2	371	20 ා	10 \>	12 🔷	8	10 🔷	12.1 🔷	10.6 🔷	652	2.85 및	14.9	15	20 🖫	7.5	9.9	5 ©	100	200	15	7	15	17 🤝	
9	0	0 (_	9	0	0	0		0	0	0	0	9	9	0	0	0	0	0	0	0	0	0	
0	⊕ ⊗	() ()		0 0		⊚ ⊗	⊗⊗	∅∅	∅∅	0	⊚ ⊗	0	0	0	∅∅	0	(3)	0	0	∅∅	⊗	∅∅∅	∅∅	
	0				8	g	g	8	O		2	0	0	0	0	I	0	0	****	S	S	0	g	
	⊗			8	8	8	8	8	8		8	0	•	0	8	8	~ ⊗	0		8	8	8	8	
Z) OH		ٽ ج	MD	2	Z	Z	 	~	全	Z	유	유	유	Z	Z	MÐ	PΑ	유	Z	Z	Z	2	
2016 Q4	2012 Q3	2017 Q2	2011 Q3	2017 Q4	2015 Q2	2016 Q4	2014 Q3	2013 Q4	2013 Q4	2016 Q2	2011 Q2	2014 Q2	2014 Q2	2014 Q2	2013 Q4	2015 Q3	2011 Q3	2017 Q3	2014 Q4	2015 Q2	2016 Q4	2014 Q4	2014 Q4	
يأتمير	8	~		Ü			*	/ <u>%</u> /	*	©>		Ÿ.	Ŋ.	Ö	*		Ì	Å	٨			***	Š.	

W4-060	W4-059	W4-058	W4-053	W4-046	W4-045	W4-038	W4-037	W4-036	W4-033	W4-031	·W4-029	W4-027	W4-025	W4-016	W4-015	W4-011	W4-010	W4-009	W4-008	W4-005	W4-004 B_AT11	W4-004 A_AT10	1 <i>0/5/</i> 2015	•
01/31/2011 Midland-Werner 34.5kV	01/31/2011 Kuller Road 13kV	01/31/2011 Lawrence 13kV	01/24/2011 Rocktown 4.8kV	01/11/2011 Washington-Mobile Chemical 34.5	Great Adventure-Great Adventure 01/11/2011 Tap 34.5kV	12/30/2010 Hudson 230kV	12/30/2010 Bismark 500kV	12/28/2010 Buckskin 69kV	12/28/2010 Wilmington	12/22/2010 Perryville 12.5kV	12/17/2010 Medford 13kV	12/15/2010 Minotola 12kV	12/06/2010 Cookstown-Fort Dix 34.5kV	11/29/2010 Mickleton 230kV 2	11/29/2010 Mickleton 230kV 1	11/24/2010 Larabee 34.5kV	11/22/2010 White Oak	11/22/2010 Raritan River 230kV	11/22/2010 Madison-Tanners Creek 138kV	11/17/2010 Blue Mound - Latham 345kV	11/15/2010 Perry 3 <i>4</i> 5kV	11/12/2010 Oberlin Road 69kV	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx	
	0.6 0.6	0.7 0.7	2:	10	9	677.5 12	160	12	10	2.6	2.4	7.9	7 5	340	860 105	1 5	53 9.1	725	90	351	1297.8 16	19.2 1	ning/generation-inte	
ა. 8	0.228	0.267	0	3.8	3.4	24	32	0	3.8	0	0.91	w	2.6	340	136	5.7	0	725	11.7	45.6	16	19.2	erconnection	
10	0.6	0.702 ©	2 🔷	10 ♦	⊘ 6	24 🎅	128 🐺	12	10 \(\)	2.6 🗑	2.4 🗑	7.9 🔷	7 10	340	210 ୍ର	15 \(\)	29.1 🤪	725 ¢	90	351	16 ©	19.2 🗑	√generation-que∪«	
	0	0	0	(1)		0	(0	0	0	(0	0	0		0	0	0	0	0			-active	
0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	(1)	(1)	0		.aspx	
\otimes	\otimes	\otimes	\otimes	\otimes	\otimes	(8)	0	0	\otimes	8	\otimes	0	\otimes	0	\otimes	\otimes	\otimes	(1)	0	0	\otimes	\otimes		
		Ü		Eğ	Color S Responsibility	0	0	\otimes	E	E		Z	0		0		0	0			0			
\otimes	8	\otimes	⊗	8	8	8	0		(8)	\otimes	8	8	0		8	\otimes	0	0			\otimes	\otimes		
Z	Z	Z	Z	Z	Z	Z	₩	웃	7	Z	Z	Z	Z	Z	Z	Z	MD	Z	Z	 	오	오		-
2014 Q4	2012 Q3	2011 Q4	2014 Q4	2016 Q4	2016 Q4	2012 Q4	2016 Q4	2014 Q4	2016 Q4	2014 Q4	2014 Q4	2018 Q2	2015 Q1	2015 Q2	2015 Q1	2014 Q4	2014 Q2	2017 Q2	2016 Q4	2016 Q4	2013 Q2	2012 Q2		,
*		Ü	Ü	**	*	X)		**		Ž.	Ů.	Ť		©≫-		Ü	@>		Á	Å	***	*		ļ

X1-049	X1-045	X1-042	X1-039	X1-038	X1-037	X1-032	X1-027 A_AT12	X1-021	X1-020	X1-012	W4-103	W4-102	W4-097	W4-086	W4-084	W4-082	W4-080	W4-073	W4-072	W4-065	W4-064	W4-063	10/5/2015
03/31/2011 Englishtown 12.5kV	03/31/2011 Dresden	03/29/2011 Watervliet	03/29/2011 Eagle Point 230kV	03/29/2011 Union Camp 115kV	03/28/2011 Howell	03/16/2011 Costen 25kV	03/03/2011 Davis Besse-Beaver 345kV	02/28/2011 Deptford 13kV	02/28/2011 Dumont-Greentown 765kV	02/22/2011 Branchville-Sussex 34.5kV	01/31/2011 Burlington 26kV	01/31/2011 Lappans 34.5kV	01/31/2011 Hawks 12.5kV	01/31/2011 Goose Lake 34.5kV	01/31/2011 Dixon 12kV	01/31/2011 Libertyville 12kV	01/31/2011 Metuchen 26.4kV	01/31/2011 Phillipsburg 12.5kV	01/31/2011 Englishtown-Rt. 33 Sw Point 34.5k	01/31/2011 Sussex 12kV	01/31/2011 N. Newton 12kV	01/31/2011 Huron 69kV	www.pjm.com/p
۲.	1917 3	3.2 3.2	190 2.9	35: 35	17 10	4 4	500	Ç ^a	1500	10	7	20, 20	W	2.1 2.1	4 3,9	8 7.9 8 9	20	16.9	16	Ŀω	ω	. 25	www.pjm.com/planning/generation-interconnection/generation
0	ω	3.2	22.9	0	6,46	0	65	1.9	195	ມ ເຂ	2.66	7.6	<u></u>	2.1	3.95	7.99	7.6	6.4	6.08	<u>-1</u>	1.1	0.65	erconnection/
2 🔻	w Ø	3.2	22.9	35	17 0	4	500 🔷	5	1500	10 \(\c)	7 🔷	20 g	ω ()	2.1 9	3.95 g	7.99	20 🔿	16.9 🔿	16	ω	ω <>	5	
0	0	0	0	0	0	0	9	0	()	•	0	0	0	0	0		0	0	0	0	0	0	-queue-active.aspx
0	0	0	0		0					0		0	0	0			0	0	0	0	0	0	.aspx
8	8	8	8	8	8	8		8		8	8	8	8	8	8	8	8	8	8	8	\otimes		
	(3)		0	0								0	g	0			\$2				(000) *** (000) *** (000) ***	0.	
⊗ ≥	⊗ F	⊗ ≊	⊗ ~	VA	⊗ <i>≥</i>	⊗ *5	OH OH	⊗ Z	Z	⊗ ≥	⊗ ≥	MD	⊗ ≥	8	⊗ =	⊗ =	⊗ ≥	⊗ ~	⊗ ≅	⊗ ≥	⊗ ≥	@	
2014 Q4	2013 Q3	2013 Q1	J 2012 Q3	A 2012 Q2	J 2014 Q4	D 2013 Q1	1 2018 Q2	J 2013 Q1	2015 Q4	J 2016 Q2) 2016 Q3	D 2012 Q4) 2016 Q3	2013 Q2	2013 Q2	2012 Q3	2012 Q4) 2014 Q4) 2014 Q4	J 2014 Q4) 2016 Q2	2018 Q1	
**	*	٨	Anna te			Ž.	j.	**	Å,	\$				\$	\$	*	Ü	*	***		Ş	D-	

7.000	X7-038	X2-031	X2-027	X2-025	X2-022	X2-013	X2-012	X2-011	X2-006	X1-114	X1-110	X1-109	X1-108	X1-097	X1-096	X1-095	X1-087	X1-085	X1-084	X1-082	X1-077	X1-074	X1-073	X1-072	X1-071	X1-070	105/2015 X1-068	,
	06/10/2011 Halfway 12.5kV	05/31/2011 Krayn 115kV	05/31/2011 Quinton 12kV	05/31/2011 Sunbury 500kV	05/31/2011 Brokaw-Lanesville	05/19/2011 Thorofare 13kV	05/19/2011 Clinton 230kV	05/19/2011 Fairlawn 138kV	05/06/2011 Baker 345kV	04/29/2011 Holiday Lakes 12kV	04/29/2011 Lower Township 12kV	04/29/2011 E. Towanda 230kV	04/29/2011 Martins Creek 230kV	04/29/2011 Red Lion 138kV	04/29/2011 Loretto-Kings Creek 138kV	04/29/2011 Bernardsville 12KV	04/29/2011 Stillman Valley	04/29/2011 Hornerstown-Windsor 34kV	04/28/2011 Altavista 115kV	04/28/2011 Hazen Switch Point-Warren 34kV	04/28/2011 Wrightstown 34.5kV	04/27/2011 Hay Road 230kV	04/27/2011 Alpha-Gilbert 34kV	04/26/2011 Hackensack 4kV	04/25/2011 Cinnaminson 138kV	:04/25/2011 Levittown 138kV	:04/20/2011 Red Oak 230kV	יייי אייייי אייייי אייייי אייייי איייייי
																												olenning/a
	2	50	. 2	416	189	2	850	73	585	2:	2	850	600 33	27 27	150	· w	15.3	. u	60 60	:12	2.1	856	. 12		0.9 0.9	3.5 3.5	776 10	eneration.
						2		6		~			ω	7					0						3 9	5	0	interconn
1			0																		0		4	0	0		=	
	0	6.5	0.76	416	0	. 0	765	6	585	0.76	0	765	33	27	19.5	1.14	15.3	1.9	60	4.56	0.78	291	4.56	0.38	0.35	1.33	10	ertion/de
< (2	6.5 50 🖓 . 🔘	0.76 2 20 @	416	189	2 🗇	850 🔷	6 6 6	585).76	0 2 💠 🌚	765 850 🗘 🔘	33 33 2	27 27 🕄 🌑	150	1.14 3 🛡 🔘	15.3 \ \ \	1.9 5 🔷 🔘	60 60 8	1.56 12 🔷 🔘	0.78 0 🗘 🚳	291 291 🗑 🔘	4.56 12 🗑 . 🔘	0.38 1 8 :	0.35 0.93 🕃 🔘	1.33 3.5 🔋 🌑	10 10 g	ection/generation-guesta activ
	2	50	2	416	189	2	850	6	585	2 🔷 1	2 \	850	33 😭	27 🚱 (150 🔷	3	15.3 🔷	5	60 😂	12 🔷 (0	291	12		0.93	3.5	10	ection/generation guara ective ectiv
(50	2 % 0	416 🔷 . 🚳	189	2 🕄 🚳	850 🔷 🚳	6 ₽ ●	585	2 🔷 1	2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	850 🔷 🔘	33 @ @	27 @ @	150 🔷 🔘	3 ♥ ◎ ◎ ⊗	15.3 🔷 📵 📵 🚳	5 \ @ @ \ \	60 😂	12 💠 🕯 🚳 🛇		291 🗑 🔘	12 🔷 . 🔘 -		0.93 😰 📦 🚳 🛇	3.5 2 0 0 0	8	erlien/generalien, et let let erlive anny
(2 9 0 0	50 🕏 . 🔘 🔘	2 45.000	416 💠 🔘 🌚	189	2 9 0 0	850 🔷 🔘	6 10 0	585 🕦 🔘 🔘	2 🔷 🕲 🕲	2 💠 🚳 🍩	850 🔷 🔘 🔘	33 👂 🔘 🌚	27 😌 🔘 🔘	150 🔷 🔘 🔘	3 🐺 🔘 : 🔘	15.3 🔷 📵 📵 🚳	5 \ @ @ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	60 2 00	12 💠 🍩 🚳	0 0	291 🗑 🔘	12 🛡 . 🕲 🔘		0.93 🙄 🔘 🚳 🛇 🔤	3.5 2 0 0 0 0	8	
Q Q Q	2 3 0 0 3 3	50 🔻 🔘 🍏 🔘 🌑	2 (\$1, (10) (10) (10)	416 💠 . 🚳 🚳 🚳 . 🚳	189	2 🛇 🚳 🚳 ⊗ 🚳	850 🔷 🔘 🔘 🔘		585 (\$ @ @)	2 \(\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\tint{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\\\ \ti}\\\ \\ \tintity}\\ \text{\text{\text{\text{\text{\tex{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\}\\ \tinthtt{\text{\tin}\text{\text{\text{\texi}\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\tint{\text{\texit{\tet{\text{\texi}\tint{\text{\text{\texi}\text{\texit{\text{\t	2 💠 🚳 🚳 🚳 🚳		33 2 0 0 0 0 0	27 2	150 🔷 🔘 🔘 🔘		15.3 🔷 📵 📵 🚳			12 \(\cdot \empty \emp		291 🔻 🚳 🚳 🚳 🚳	12 🛡 . 🕲 🕲 🕲		0.93 😰 📦 🚳 🛇	3.5 0 0 0 0 0	⊗ (a) (b)	priinn/generation, guerre aptive activ
	2 D D S S MD 2013 Q4	50 0 0 0 0	2 45.000	416 💠 . 🔘 🔘 🔘	189 🗱 🔘 🔘	2 0 0 0 0	850 🔷 🔘 🔘 🔘	6 (2) (a) (a) (b) (b) (a) (b) (b) (c) (a) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	585 🕦 🔘 🔘			850 🔷 🔘 🕲 🔘 🔘 PA 2016 Q1	33 2 0 0 0 0	27 🕄 🌑 🚳 🛇	150 🔷 🔘 🔘 🔘	3 V O O O	15.3 🔷 🔘 🚳 🚳 🔯 🛇	5 \ @ @ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		12 🔷 🍩 🚳 🛇 🖾		291 🔻 🛇 🔘 🔘 🔘	12 4		0.93 🖗 🜑 🚳 🚳	3.5 2 0 0 0 0	8	orling/generation, and a polive perv

X3-081	X3-075	X3-070	X3-066	X3-052	X3-051	X3-043	X3-029		X3-023	X3-015	X3-008	X3-005	X3-004	X3-003	X3-002	X3-001	X2-089	X2-088	X2-087	X2-083	X2-076	X2-075	X2-060	X2-054	X2-052
		٠					-	•						•											
10/31/2011 Upper Darby 13kV	10/28/2011 Runnemede 13kV	10/28/2011 Reybold 138kV	10/13/2011 Church Hill 69kV	09/28/2011 Essex 26.4kV	09/27/2011 Flatlick 765kV	09/12/2011 Lumberton 69kV	08/30/2011 Belvidere		08/29/2011 S. Greenwich-Willard 69kV	08/22/2011 West Cambridge-Vienna 69kV	08/12/2011 Todd 69kV	08/08/2011 Wildwood 12kV	08/08/2011 Essex 230kV	08/03/2011 Mehoopany II 115 kV	08/01/2011 Greenville 12kV	08/01/2011 West Metrose 34.5kV	07/29/2011 Pierson Avenue 13kV	.07/29/2011 Devils Brook 13kV	07/29/2011 Doremus 13kV	07/29/2011 Newark 12kV	07/28/2011 Carson-Wake 500kV	07/26/2011 Flemington	06/30/2011 East Mill 138kV	06/30/2011 Franklin	06/29/2011 Dumont-Olive 345kV
							. ,					-													•
0.5	w	72	٥	6.2 6.2	1460	12	11.2		60	19.5	20	9.	710	64.	3.4	1.8	2	2.4		w	1551	6	30	10	675
		2		6.2			Ω1					9	35	20			2	2.3	···-A	ω			30		
0	0	2	2.28	0	610	4.56	0		7.8	7.41	7.6	υ 4	35	0	1.28	0.69	0.76	0.895	0.38	ω	1376	2.28	0	0	675
0.5	6.3		φ.		610	12	11.15		60	19.5	20	9	ω	20	3.38	1.82	2	2.356		F.1	1551	σ.	30	···1	675
٠ ()	्	(2)	○	ಖ		\Diamond	(C)			○ .	♦	-	¥3)		\Diamond		K)		c)	w w		○.	Ø	\Diamond	○.
		0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	8	8	0	8	0	8	8		0	0	0	\otimes	\otimes	\otimes	8	\otimes	\otimes	\otimes	8		0	8	0	\otimes	0
76.50mg	22	0		.			0			0	S. S.	0	0					17773 32103	E		0		0		0
\otimes	\otimes	\otimes	8	0		\otimes	9			0	(3)	8	0	0	\otimes	\otimes	8	\otimes	8	\otimes		\otimes		\otimes	0
PΑ	Z	DE	ĕ	Z	皇	Z	ح	•	오	M∂	MD	=	Z	PΑ	유	웃	Z	Z	Z	DE	٧A	Z	٧A	Z	Z
2012 Q4	2014 Q2	2013 Q4	2015 Q3	2014 Q3	2017 Q1	2015 Q4	2013 Q4		2015 Q4	2017 Q3	2017 Q3	2013 Q3	2015 Q2	2013 Q4	2014 Q4	2014 Q3	2011 Q4	2012 Q1	2012 Q3	2012 Q2	2016 Q3	2017 Q2	2013 Q4	2014 Q4	2018 Q2
**	spirit.	<u>.</u>	side. Iga		>		**		<u> </u>			Ç.			*	side .	**	Ü		4 4 5 4 4 5 4 4 5	jedjir jedjir	Ü	\$	<i>\text{\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texitt{\$\text{\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$</i>	~

	(2.0 3 E.a		. [; 5	On the transfer of the port Wood AARW	11-047
	2000) 1000) 1000)				4	1.52		4	02/29/2012 Belmon 12.5kV	Y1-027
	0	0	0	\	160	160		180	02/29/2012 Tosco 230kV	Y1-026
-		8		\rightarrow	9.9	3.72		9.9	.02/28/2012 Sussex 34KV	Y1-020
	0	8	0	(I)	<i>ن</i> ه	បា	ហ	405	02/28/2012 Conesville #6	Y1-019
8		8	0	<u></u>	Ųī.	υ'n	υī	405	02/28/2012 Conesville #5	Y1-018
8	S	8	0	CI -	6,48	6.48	6.4 8	6.5	02/23/2012 Geneva	Y1-012
		Ö	0	6	72	9.36		72	02/14/2012 Jubal Early-Austinville 138kV	Y1-006
0	0	0	0	4	60	7.8	•	60	02/07/2012 Deep Creek-Penn Mar 115kV	Y1-003
0	0	8	0	4	452	447		452	02/03/2012 BL England 138kV	Y1-001
0	0	0	0		1000	1000	-	1000	01/31/2012 Lackawanna 230kV	X4-048
8	8-3 8-3	8	0	<>>	19.5	0	•	19.5	01/31/2012 E Street (Sub 18) 13kV	X4-046
0	0	8	<!--</td--><td><>> -</td><td>17.9</td><td>9.9</td><td></td><td>17.9</td><td>01/31/2012 Aldene 230kV</td><td>X4-044</td>	<>> -	17.9	9.9		17.9	01/31/2012 Aldene 230kV	X4-044
0	0	0	0	\rangle	800	750		800	01/30/2012 Pleasant View-Brambleton 230kV	X4-039
0	0	0	0		735.5	735.5		735.5	01/20/2012 Burches Hill-Chalk Point 500kV	X4-035
8	B	8	0	Ø	2	0	2	2	12/30/2011 Bennett-Farmingdale 34kV	X4-031
8	0	8	••••••••••••••••••••••••••••••••••••••••••••••••••••••••	-	12	35		852	12/08/2011 Linwood 230kV	X4-027
		0	0	(80	80		80	11/30/2011 Millbrook Park 138kV	X4-025
٥	0	0	0	\	227	227		643	11/30/2011 Sunbury 500kV	X4-019
8	0	8	0	(E)	10	10	10	168	11/29/2011 Bayonne 138kV	X4-016
8	EJ	8	0	\Diamond	თ	1.9		5	11/28/2011 Cookstown-Fort Dix 34kV	X4-015
0	0	0	0	\	60	0		785	11/03/2011 Kelson Ridge 230kV	X4-006
0	0	0	 < < < < < < 	<> -	60	60		785	11/03/2011 Raritan River 230kV	X4-005
8	0	8	0	\(\)	٠,	0	•	ហ	11/02/2011 Woodbury 26.4kV	X4-004
0		0	0	\(\) \(894	744		894	10/31/2011 Burches Hill-Brandywine 230kV	X3-087
⊗.	IJ	\otimes	0	>	1 0	IJ.⊗		10	·10/31/2011 Andover-Kittatinny 34kV	X3-083
8	5.3	8	0	\Diamond	10	3.8		10	10/31/2011 Marble Hill-Morris Park 34kV	X3-082

Y2-015	Y2-003	Y2-001	Y1-086	Y1-084	Y1-080	Y1-079	Y1-077	Y1-075	Y1-072	Y1-071	Y1-069	Y1-068	Y1-066	Y1-065	Y1-063	Y1-057	Y1-054	Y1-049	Y1-047	Y1-045	Y1-044	Y1-034
05/31/2012 Eldred-Frackville #1 230kV	05/16/2012 Chicago Battery	05/02/2012 Gosport	04/30/2012 Morgans Corner	04/30/2012 East Newton-Blairstown 34.5kV	04/30/2012 Dorchester 12kV	04/30/2012 Wye Mills 69kV	04/30/2012 BL England 138kV	04/30/2012 Medford 13kV	04/30/2012 Glen Gardner 12kV	04/30/2012 Burma 25kV	04/27/2012 Bay Shore-Fostoria Central 345kV & Bayshore-Monroe 345kV	04/27/2012 East Mill 138kV	04/27/2012 Four Rivers 115kV	04/27/2012 Rock Spring 500kV	04/27/2012 Trenton 34.5kV	04/25/2012 Barbadoes 34kV	:04/16/2012 Rochelle 138kV	04/06/2012 Wurno 34.5kV	03/30/2012 North Meshoppen 34.5kV	03/30/2012 Friendship Manor	03/30/2012 Belmont 138kV	02/29/2012 Everson 23kV
344	0.6	50 3.8	20	2	3.4	. 10	525		2 0.7	. , 6	799	50 20	182 1 3.3	834.1	4	2 2	20 20	6 6	15.4	2	43.2	6
337	0	40	7.6	0.76	1.28	3.8	73	0.38	0.76	6	799	0	13.3	805		0.1	0	6	15.4	0	6.8	6
ယ္																						
344	0.6	3.8	20 🔷	1.99	3.38	10 🔷	73 (6)	<u>.</u>	2	6	799 🔷	20 ©	o	834.1 🔷	4	<u>.</u>	20 වූ	6	15.4 🔷	2 🔷	6.8	6
Ø.	Λ		20 🔷 🚳		4677	10 \rightarrow @		_ ©	2 8 0		799 🔷 🔘		0 ∅	834.1 💠 🔘	4 0	- - - - - - - -	, Age 3000		15.4 \(\infty \)	2 ♦ ⊗	6.8 💸 🚳	-4
Ø.	\Diamond	aj	\	4	c	<>	(E)				\$	(I)	O	834.1 💠 🔘 🔘	0		C)	(2)	\Diamond	² ♦ ⊗	\(\)	
6	◇ ⊗	(7) ()	\	4	c	◇ ••••••••••••••••••••••••••••••••••	6	0	0	4	◇ ●	©	© •	834.1 💠 🔘 🔘 🌑	0	0	C)	(2)	◇ ●			4
∲ ◎ ◎	◇ ⊗ ⊗	0	\ () ()	< • • • • • • • • • • • • • • • • • •		\(\rightarrow\)	r O	0	0		♦		60 (8)	834.1 💠 🔘 🔘 🔘		0				8	\\ \@\\ \@\\ \@\\\ \@\\\ \@\\\ \@\\\ \@\\\\ \@\\\\ \@\\\\ \@\\\\ \@\\\\\ \@\\\\\\	4 0
∲ ◎ ◎	◇ ⊗ ⊗ ⊗ Ø				© 0 ⊗	\ @ @	r O	(a) (b) (c) (c)			0 0 0 0		© © ©							8		
∲ ◎ ◎				4 0 0 8			r O	0 0 8		4 0 0 8 8	© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									8 8 8	◇ Ø Ø Ø Ø Ø Ø	4 0 0 8
6 0							\$ 00 00 C														○ ● Ø <p< td=""><td></td></p<>	

Y2-105	Y2-103	Y2-100	Y2-099	Y2-098	Y2-089	Y2-088	Y2-081	Y2-080	Y2-079	Y2-078	Y2-077	Y2-076	Y2-074	Y2-067	Y2-064	Y2-060	Y2-055	Y2-054	Y2-051	Y2-050	Y2-045	Y2-043	Y2-042	Y2-019	Y2-018	10/5/2015
						ω.	_							7	-+->		O1	. 42		Ç	Ű,	ω,				
11/01/2012 Eagle Point 230kV	11/01/2012 Zion Energy Center	10/31/2012 Otter Point 34.5kV	70/31/2012 Warrenton 34.5kV	10/31/2012 Freemansburg #1 12kV	10/31/2012 Lackawanna 230kV	10/31/2012 Garards Fort 25kV	(2) 10/30/2012 Deptford 13kV	10/29/2012 Rhodes Lane 500kV	10/25/2012 Lakewood #2 230kV	10/25/2012 Lakewood #1 230kV	10/23/2012 Hopewell 230kV	10/22/2012 Clover 230kV	10/19/2012 Hopewell 230kV	09/28/2012 Clinch River 138kV	09/24/2012 Printz	08/31/2012 North Meshoppen 34.5kv II	08/16/2012 Elm Street 34.5kV	08/15/2012 Oak Grove 138kV	© 08/15/2012 Brick-Lane Mill 34.5kV	08/15/2012 Tidd-Canton Central	08/02/2012 Baker 345kV	07/30/2012 Kickapoo	07/23/2012 Oxbow 25kV	06/21/2012 Essex 230kV	06/20/2012 Pequest River 34.5kV	www.pjm.co
٠						. •	-																			om/plann
253	945	4	. 2	U1	1370	19.9	Ut	1065	575.6	280	401	445	401	626	606.5	18.9	29	354	<u>ن</u>	742	862	15.7	18.3	755	3.8	ing/genera
20							បា		20	20		· ·	œ					3.7	Çī		•	5		45	 ∞	ation-inte
50	360	4	2	ۍ.	370	19.9	1.9	1065	200	20	30	13.7	∞	12	19	ω .5	29	13.7	1.9	672	σ	0	18.3	45	2.3	www.pjm.com/planning/generation-interconnection/generation-
50	360	4	2	Uп	370	19.9	5	1065	200	20	30	4	∞	12	65.5	3.5	29	13.7	Ųī	742	6	4.5	18.3	45	3.8	generation
O	F	\Diamond	\Diamond	\Diamond	(s	4	(0)	F	(O	\Diamond	C)	K)	\Diamond	\Diamond		Ö	O	C)	\Diamond	F	O	4	Ø	C)	
	0	0	0	0	0	0			0		(1)	0	0		0	0	0	0	0		0		0	()	0	queue-active.aspx
0			0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		0	0	0		aspx
	0	8	8	8	0	8	8	0	0	\otimes	8	\otimes	8	8	\otimes	0	0	8	\otimes	0	8	8	\otimes	8	8	
0		0	0	0		G	E			0	0	0	0	0	0	0		0		0			53	0	0	
\otimes		8	0	\otimes		\otimes	\otimes		0	0	(X)	\otimes	\otimes	\otimes	\otimes	0	8	\otimes	\otimes	0		8	\otimes	0	\otimes	
Z		MD	VA	PA	PA	$A_{\mathcal{Q}}$	Z	PA	Z	Z	X	٧X	VA	VA	PΑ	PΑ	PΑ	٧	Z	유	₹	F	PΑ	Z	Z	
2016 Q2	2016 Q2	2013 Q2	2016 Q2	2012 Q4	2015 Q2	2015 Q2	2015 Q1	2017 Q2	2015 Q2	2015 Q2	2016 Q2	2014 Q2	2013 Q2	2012 Q4	2014 Q3	2015 Q2	2018 Q1	2014 Q4	2014 Q4	2017 Q4	2015 Q2	2012 Q4	2015 Q4	2015 Q2	2014 Q2	
	<u> </u>	8	٩	(3)	(3)	" >	*	*	(*	Ç	**	1	>	7.7	Q>	*	.35E/Jo	C.W.	11/2	*				***		

htp://www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx

·	2015 (2))	, .)) () (2	J	277		08/01/2013 Florey Milos 34.388	21-038	
	2015 01	D A		* \					<u>1</u>		ก ด		00 (04 /3043 Flores: Knob 3/ Flor	7 1	
ļ,	2016 Q4	K))) D		300.3	39		300.3		07/23/2013 WinFall-Chowan 230kV	. 71-036	
ž.	2017 Q3	9 P	8	8	₩	0		18	2.34		18		07/05/2013 Lake Erie Wind 69kV	Z1-035	
	2015 Q2	ŷ PA	8	0	⊗			0	26		590		05/20/2013 Springdale 3, 4, 5	21-015	
@>	2016 Q4	ŷ PA	8	0	⊗	9	4]	19.9	19.9		19.9		© 04/30/2013 Nyswaner 25kV	Y3-109	
	2015 Q1	Z	U	0	0		<u>~</u>	. 35	45	45	635		04/30/2013 Bergen 230kV	Y3-107	
	2014 Q4	⊗ *		0	∅∅	0	(<u>(</u>)	7	7	L	49		04/30/2013 Belleville-Rutland 138kV	Y3-106	
G#	2020 Q2	PA	0	0	0	0		205	97		205		04/30/2013: Valley-Raccoon 138kV	Y3-103	
230-	2018 Q2	MD	0	0	◎	0		135	135		1000		04/30/2013 Rock Springs 500kV	Y3-102	
ß	2015 Q4	PH PH	0	0	8	0	\(\)	2	0		2		04/29/2013 Beckjord 2MW-2	Y3-100	
ß	2015 Q1	9 9	0	0	∅∅	0	©) 	2	٥	2	. 2		04/29/2013 Beckjord 2MW-1	Y3-099	
	2015 Q4	7	VZØ	0	0	0		20	20		1218.8		· 04/26/2013 Kendall IV	Y3-091	
	2015 Q4	· =		0	0	0	\(\)	20	20		1198.8	_	:04/26/2013 Kendall III	Y3-090	
	2015 Q4	F		0	0		\Q	20	20		1178.8		04/26/2013 Kendall II	Y3-089	
Me.	2015 Q4	7		0				20	20		1158.8		04/26/2013 Kendall I	Y3-088	
	2015 Q1	Z	0		₩		() -	3.8	1.44	3.8	ა 8		04/26/2013 Beaverbrook 13kV	Y3-087	
8	2013 Q3	⊗ 유		0	® ⊗		(œ	0	∞	20		-04/19/2013 Tait 69kV	Y3-080	
**	2014 Q3	⊗ ₹		9	8	8	\Diamond	0.372	0		0.4		04/12/2013 Ashton 480V	Y3-074	
	2013 Q2	H0		O.	⊗⊗	0	Ç.	50	50		1350		04/10/2013 W.H. Zimmer Station	Y3-073	
Ca.	2018 Q2	WV WV	0	0	0	0	\$	525	525		525		03/29/2013 George Washington 138kV	Y3-068	
Ž.	2016 Q4	⊗ ĕ	E N		8	0	♦	15	5.7		15		03/13/2013 Rockawalkin 69kV	Y3-058	
2	2013 Q3	⊗ PA	8	0	⊚ ⊗	0	C	1.6	1.6	1.6	∞		03/12/2013 Pioneer Crossing 69kV	Y3-056	
a Naida	2014 Q4	S Pr	(S)	8	⊚ ⊗	0	♦	12	0		12		03/05/2013 Milford 138kV	Y3-054	
	2016 Q2	Z	V	0	0	0		40	ů		537		02/28/2013 Kearny	Y3-053	
	2015 Q1	Z	0		0	0	<u> </u>	50	10	10	1299		02/28/2013 Bergen	Y3-052	•
	2015 Q1	Z	المسما	0		0	(1)	47	4	4	1626		02/28/2013 Linden	Y3-051	
	•				×	ctive.ası	queue-a	√generation-c	connection	ion-inte	ng/generat	om/plannir	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx	10/5/2015	

jattp://www.p	Z1-087	Z1-086	Z1-082	Z1-081	Z1-080	Z1-079	Z1-077	Z1-076	Z1-073	21-072	Z1-069	Z1-068	:Z1-066	Z1-065	21-064	Z1-063	Z1-059	Z1-058	21-057	Z1-056	Z1-055	Z1-052	Z1-051	Z1-050	10/5/2015
т.соп	7	- 65 -	2	<u> </u>	Ö	.	7	6,	ω	2	ý	ŏ	δ.	Ū	Ā	· ເນ	9	, ∞	7	ō	ĊП	2		Ō	
រុំដ្រារ/www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx ់	10/30/2013 Glade 230kV	10/30/2013 Heritage-Carson	10/31/2013 Lawnside 13kV	© 10/30/2013 Church 25kV	. 10/30/2013 Clinton County 34.5kV	10/30/2013 Todhunter-Foster 345kV	10/30/2013 Stockton 2 69kV	10/30/2013 Stockton 1 69kV	10/28/2013 Mendota Hills	10/28/2013 Crescent Ridge	10/24/2013 Gold-Sabinsville 115kV	© 10/10/2013 Birdneck 34.5kV		© 09/30/2013 Wiley 34.5kV	© .09/30/2013 Shannon 13.2kV	© 09/30/2013 Kirk 34.5kV	09/26/2013 Linden 2 - 230kV	09/26/2013 Linden 1 - 138kV	09/26/2013 Reybold 138kV	09/11/2013 South Bend 500kV	09/11/2013 South Bend 500kV	08/29/2013 Burches Hill-Chalk Point 500kV	08/29/2013 D.C. Cook Unit 2	08/29/2013 Kittatinny 230kV	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
	ហា				-				5(ڻ ن			10				က	. 4	2	7	7	. 00	 	4	ianning/ge
	508	1681	- -	. 6	0	513	10	4	50.4	54.5	70	12	10.4	è	4	6	800	491	252	720	714	800	1192	420	nerati
									0.4	7 7						•		4	5.9					40	on-inter
	40	1630	0	2.28	0	513	3.8	5.32	5.2	. 9.7	13.3	- <u>`</u> 5	0	0	0	0	œ 	36	15.9	6	10	44.5	83	20	connection/g
	40	1681		6	6	513	. 10	~~ 4	0	0	70	12	10.4	6	Ą	6	23	23	0	6	10	64.5	102	20	eneratio
	(i	(a	C)	\Diamond	Ü	.0	(E	É		(15	\Diamond	\Diamond	\Diamond	6	(Ex		C)	K)	\Diamond	\Diamond	\Diamond	E.	Œ	n-queu
		0			(1)	0	0	0		0	0	0			0	0	(0	0			0	(e-active
	0	0	0	0	0	0	(0	(1)	0	0	(8)	٥	0	0	0	0	0			0	0	0	0	e.aspx
	0	0	\otimes	0	8	0	0	0		\circ		\otimes	\otimes	8	8	\otimes	\bigcirc	\bigcirc	\otimes	\otimes	8	\otimes	\otimes	\otimes	
	0	0			0	0				0				0	\otimes	8	0	0	٨		0	0			
			8	8	0	0						(8)	8	(3)	8	8			\otimes	8	8	0		8	
	PΑ	VA	Z	MD	유	유	ĂD	MD	F	77	PΑ	٧×	РА	皇	오	오	Z	Z	DE	PA	PΑ	MD	<u>×</u>	Z	
	2015 Q4	2018 Q4	2015 Q1	2016 Q3	2015 Q4	2018 Q2	2015 Q4	2015 Q4	2015 Q1	2015 Q1	2017 Q4	2018 Q4	2016 Q1	2015 Q4	2014 Q4	2014 Q4	2015 Q3	2015 Q1	2014 Q2	2016 Q2	2016 Q2	2018 Q2	2016 Q4	2014 Q2	
	٠	%		**	Ø	<i>-</i>	*	Ž.	Ĵ.	بالخد	Å	D-	8	8			>	<i>≫</i>	<i>~</i>	₩			W.	6	

Z2-082	Z2-081	Z2-077	Z2-076	Z2-062	Z2-060	Z2-056	Z2-048	Z2-046	Z2-044	Z2-043	Z2-042	72-040	Z2-039	72-038	Z2-030	Z2-029	Z2-028	Z2-027	Z2-026	Z2-020	Z2-014	Z2-013	Z2-012
)82	81)77)76)62	060)56)48)46)44)43 3)42	- 6)39)38)30)29)28)27)26)20)14)13)12
04/29/2014 Cape May County 12kV	04/28/2014 Streator 34.5kV	04/22/2014 Worcester North 25kV	. @ 04/22/2014 Worcester South 25kV	04/02/2014 Gloucester 26kV	03/31/2014 Burches Hill-Brandywine 230kV	03/31/2014 Crossmans-Werner 34.5kV	03/26/2014 George Washington 138kV	03/14/2014 Susquehanna-Lackawanna 500kV	© 03/05/2014 Whitakers 34.5kV	@ 03/05/2014 Kelford 34.5kV	02/28/2014 Wurno-Clayor 138kV	02/27/2014 PF Hydro	02/27/2014 PF Hydro	02/27/2014 Ridgeley-Frostburg 138kV	02/26/2014 Double Toll Gate 34.5kV	02/25/2014 Stuart 4	02/21/2014 Highland-Sammis 345kV & Highlan d-Mansfield 345kV	02/20/2014 Pasquotank 34.5kV	02/14/2014 North Temple 230kV	02/07/2014 New Franklin 12.47kV	01/09/2014 St. Benedict-Patton	01/09/2014 Frostburg 138kV	12/31/2013 Weirwood-Eastville 69kV
2	13.3	6	6.	24.5 3	927	20	545	1050	12:	20	180	5.8 3.5	4.6	19.9	20	585 2 0.5	800	20 20	800	0.9	30. 0	200 139	20
0.3	13.3	3.99	3.99	w	116	0	20	900	8,4	^ 4	23.3	3.5	2.82	7.6	.7.6	20.5	800	 4	800	0	5.25	7	7.6
	13.3 🐔 🔘 🔘	6 6 0	6 6 0	0 0 0	33 🐉 . 🔘 . 🔘	0.5 \ \ \ \ \ \ \ \	20 🔷 ; 🚳 🚳	1050 🚱 📵 🔘	12 💠 🔘 🔘	20 🔷 🔘 📦	180 \$ 0		0 © 0	19.9 🕸 🔘 🔘	20 🔷 🔘 🔘	20.5 😨 🕲 🔘	800 (*)	20 🕄 🔘 🌑	800 % @	0.85 🐨 ⊗ ⊗	0 0 0	0 © 0 0	20 🔷 🔘 🔘
8		0	0	\otimes	•	(8)	\otimes	0	0	0	0	\otimes	8	0	8	8	0	0	0	(8)	8	8	8
0				0			0	0	0	0		0			9999634	0		0		23		0	0
⊗ ∠	F	MD	MD	⊗ ≥	MD	⊗ ≥	() W/	PΑ			٧A	⊗ ₩/	⊗ ¥	MD	⊗ VA ·	웃	9	○ NC	РΑ	⊗ 9	⊗ PA		∨ _A
2015 Q2	2014 Q4	2016 Q2	2016 Q2	2014 Q4	2018 Q2	2015 Q4	2018 Q2	2018 Q2	2015 Q4	2015 Q4	2017 Q4	2015 Q2	2015 Q2	2015 Q4	2015 Q1	2015 Q4	2019 Q2	2014 Q4	2018 Q2	2015 Q2	2015 Q1	2014 Q4	2016 Q4
Ö	٥	Å.	Ä	(3)	, A000	**	<i>*************************************</i>				Å	% >	*			**************************************	**		ॐ	ð	Å.	杰	

	Z2-116	Z2-115	Z2-114	Z2-113	Z2-112	Z2-109	Z2-108	Z2-107	Z2-106	Z2-104	Z2-103	Z2-102	72-099	Z2-097	Z2-090	Z2-089	72-088	72-087	Z2-085	Z2-083	\$0/5/2015
	04/30/2014 Twin Branch 12.47kV	© 04/30/2014 Deer Creek 12.47kV	© 04/30/2014 Olive 12.47kV	© 04/30/2014 Watervliet 12.47kV	04/30/2014 Waterford 345kV	04/30/2014 South River 230kV	04/30/2014 Meyersdale North 115kV	04/30/2014 East Carbondale-Lackawanna 69k	© 04/30/2014 Washington-Bell 25kV	.04/30/2014 Oxbow 25kV II	04/30/2014 North Meshoppen 34.5kV III	04/30/2014 Argonne-New Lisbon 34.5kV	04/30/2014 Boykins 34.5kV	© 04/30/2014 Church 25kV	© 04/30/2014 Blackhawk 12.5kV	04/30/2014 Sewaren 230kV	04/30/2014 Tarboro-Everetts 230kV	04/29/2014 Pontiac MidPoint-Brokaw 345kV	04/29/2014 Mahoning Valley Hydro 25kV	04/29/2014 Mickleton 230kV	www.pjm.com/planning/generation-interconnection/generation-queue-active.aspx
Page 1/1	2.6	2.5	ූ ල	4.6	1007	460	48	74.5	19.9	19.9	19.9	13	8.5	এ গ্	4.	568	. 80	200	7.5 7.5	1274	iing/generation-inter
	1.3	1.25	2.5	2.3	64.5	0	0	0	19.9	1.6		4.94	5.9	3.54	0	509	30.4	26	1.5	74	rconnection/g
	2.6	2.5	5	4.6	97	20	~~ <u>`</u>	10	19.9	1.6		ů	8.5	ហ	4	568	80	200	1.5	74	eneration
	1	6	(P	\Diamond		\Diamond	6					\Diamond		F	1		r	C)	8	-queue
	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	-active
	0	(1)	0	0	0	0			0	٠	(1)	0	0	0	0	0	0	0	0	0	.aspx
	8	\otimes	\otimes	8	⊗.	8	\otimes		8	\otimes	0	\otimes	\otimes	\circ	8	0	0		\otimes	0	
	\otimes	\otimes	\otimes	\otimes	0	0	0		5 × 10	5.3					2.72		0		0		
	8	8	8	8	8	0			(8)	8		(8)	8		8		0		(X)		
Vie	Z	Z	Z	M	웃	Z	РΑ	PΑ	PΑ	PΑ	PΑ	Z	٧A	MD	=	Z	7	=	PΑ	Z	
View : All	2016 Q4	2015 Q4	2016 Q4	2016 Q4	2015 Q2	2019 Q2	2015 Q4	2015 Q4	2016 Q3	2016 Q4	2015 Q2	2016 Q4	2016 Q4	2016 Q2	2014 Q4	2018 Q2	2015 Q4	2018 Q4	2014 Q4	2017 Q2	
				3 Mg		S					C)							and the same of th	(<u>()</u>		

10/5/2015

GENERATOR BEAGTIVATIONS [28 of September 11, 2015] Official Requested Table Add - Description Descript

		Trans Zbnr	Age (Years)	Official Owner Request	Requested Desclive/ion Date	Actual Descuration	PJM Retrability Status
Unii Warra 1 Warra 2	Capacity 41	PN	- 51 53		0/27/2002	9/26/2002 9/20/2002	No Relabity Issues So Relabity Issues So Relabity Issues
Hydron 3 G f	120	PS	. 36	10/16/2003	9/27/2002 19/16/2003	10/17/2003	No Relatifity feaves
Secreto 4	60	Pti.		11/18/2003	11/19/2003	11/20/2003	No Reliability is sues
Servato 5	136	. PN	_42	11/19/2003	11/19/2003	11/20/2008	No Rotabiliy Isayba
Sayrayes 4	114	. x	_49	11/1/2003	2/14/2004	2/19/2004	Refability issues identified and Resolved
			13)	, ,	1
Sayupsito 5	115			11/1/2000	2/14/2004	2/19/2001	Religibliky issues identified and Resolved
Dajawara 7 Dajawara 8	126 123	PE	-59	12/12/2003 12/12/2003	3/1/2004	3/5/2004 3/5/2004	No Refability indust
Burkeston 191-104	203	PS	10	1/8/2004	4/4/2004	1/4/2004.	No Religibility advers
Burlingion 105	. 62	PS	٠	1/0/2004.	41412004	47472004	No fin lability features
Wayne CI Shormen VCLP	56 46.6	PN AE	بدل	2/12/2004	. As soon es possible 3/15/2004		No Rejectity (taves
SERVICE TOTAL				2/2/2004	Currenity Morrosted -	<u> </u>	INO REPADINY PRIMES
Calumet 31		GE	36	10/12/2004	Contently	7/1/2004	No Reinbilly jabura
Catymet 33	- 42	CE	_25	10(12/2004	Melhosted - ASAP Currently	7/1/2004	No Refebility (Esses
Calsumol 35	sı	_c£	35	10/12/2001	Mothballed -	7/1/2004	No Relability laures
<u> </u>	58	CE) je	10/12/2004	Correctly Mothbezed - ASAP Currently	. 7/1/2004	No Rajabilly Issues
	6Z	L. CE	38		Currently Mothbelled - ASAP		
JoBg 1, 3Z		1		_10/12/2001	Currently Mathbelled +	PJM CHENON	No Selephry leave
Bloom 33	21	_ CE	22	10/12/2001	ASAP Currently	régource Disembly si	No Rafabiliy (givea
Bloom 34	39	· CE	بد	10/12/2004	Melhbelled - ASAP	PJMI crown.hy	No Reliability (saves
Coll v 1	554	CE	20		12/31/2004	#Helmes	No Ralability leture
×44.	384				3:d/41h Ouarler	1/1/2005	No Relability (stups
College I	554 502	- SE CE		502394 622304	12/31/2004	V152005	hio fieleddin 1930er
					Currently Mothballed -		
Golbes 4		O.E	25	6/2/2004	Currently McDhates	1/1/2005	No Reliability (sayets
Collina 5	530	CE	25	5/2/7004	ASAP Planned to calks	1/1/2005	No Ratabiliy Issues
Riggel Paper NUG (MGood Power LP)	27	. Jc	33	6/11/2004	dalayed until	(remor-	No Dallahillio te Pross
(Dat Tractor)	27	ME	15	9/29/2004	\$2153D0K		No Referilly 14 (1984)
	-	CE	Γ.		DONFACT IS		
Electric Arcellon 31			1	10(12/2004	comolete 12/31/04 - when contract is	. 1112005	No Reliability (Egypti efter 1/1/05.
Einclus America 32	S9.	CE	34	_10/12/2004	12/31/04 - when	3/1/2005	No Relability lesses after 1/1/05
Electric Junction 33	59	CE	_31	10/12/2014	contract is complete	1/1/2005	No Rejectiv lesues silier 1/1/05
Lores and D2	ىد	·ce		10/12/2004	Currently Mothbelled ASAP Currently	1/1/2000	No Refebility Isjusta
Lompaid 33	32	C.	. 36	10/12/2004	Molithalist .	Vitanns	No fichatelle la suna
		l. :			ASAP 12/31/04 - when contract is		.:
Salvocké 31	_26	CE	35.	10/12/2004	complete 12/31/04 - when contract is	1/1/2066	No Reliability Instate
Sabrooks.32	25	CE	35	10/12/2001	17/31/04 when	1/1/2/2015	No Solovilly is suns
Sabrooke 33	26	CE		10/12/2004	contract is	1/1/2005	No Resetitiv legues after 1/1/05
Sabrooks 34	13	_c.	و ا	10/12/2004	confract is complete	1/1/2/005	No Reliability (123283 after 1/1/05
Maduon & CT Greeford 31 Crawford 32	1D	- SE	1	10/13/2001 10/12/2001	12/31/2004 ASAP	1/1/2005 3/1/2005	The Controller is part and the control of the Controller is control of the Contro
Clayford 32 Centrales CTA	54 59	- CE	36 36 32	10/12/2004 10/12/2004 10/13/2004	ASAP ASAP 4/1/2005	3/10/03	Refighility issue identified and resolved
Kearny Z Kearny B	150 150	PS PS		9/9/7004	12/1/2004	6/1/2005 B/1/2005	Refeablity is one partitled and resolved Refeablity is one partitled and resolved
Howard M. Down						'	
CAreland) Usa 7 DSM (Hodinan LaRosia)	- :	îĉ		2/24/2005 8/1/2005	5/31/2005 10/1/2005	10/8/2005	No Refebility is sets. No Refebility is sets. RobbitRy issue identified and expected to be
Newsch Sections	52	PS	16	7/6/3005	10/5/2005	1011/2005	ratol-ed by 6/2007
Goneselle 1	115	_AEP	- 15	9/20/2003	12/31/2005	1 :	Reliability Issue (Neck start) Identified and resolved
Constitle 2 Gude Lundill 182	115 2.2	PEP	20	9/29/2005 8/12/2001	12/31/2003 3/25/2006 As 1000 as	1/1/2006 3/25/2016	Refublity leave (plack siari) kangilled and reactived. No Reliability leaves
Bayonte CY1	- 21	<u>PS</u>	_35	3/30/2008	As soon as possible As soon as		No Belobilir lesues
Bayonna GT2	21	PS	35	3/20/2006	As soon as		No Relability leades
Delevers Olesel Buzzed Pobli Feel (Bank 3	27	PEP	39	8/30/2006 2/26/2007			No Reliability Legista
Martine Greek 1 Martine Greek 2	140 140	PF.	55 - 51	3/19/7001 3/19/2001	W15/2007 : 	9/15/2007 0/15/2007	Religios is a superior in the
Martins Creek D1-D2	100	PPL Ož	40 55	9/1/2005	9/15/2007 9/1/2007	0/15/2007	Reliability tasue relack story) blengthed and resolved.
Waykegan 5 Howard M. Down (Mosters!) Unit 8		_AE	53	5/5/2009	5/7/2009		No Referring leaves No Referring leaves Refletring leaves intended and resolved
Indian Rhar 2 Howard M. Down	- 87	DPL	- 48	9(25/2007	\$/1/2010	5/1/2010	'
Dynorate frag.	. 17	AGĘ	12	5/28/2010	0/28/2010	678/2010	Reflebbly analysis complete - impacts identified - centralor has stanted to disactivate as recursised
INGENÇO Richmond		ром	عد	2/0/2010	001/2010		Reliability analysis comelsis - no substituidentitied
North Branch		DOM	. 18	5/11/2010	_1/5/2010	B21/7040	Reliability a nativale correlato - no knoacia Monillod
Hall Branch	ļ						Hadishillor such as a describit a house of Man Mari
Gersoch	100	DOM	10 50	6/20/2010 6/20/2010	9/5/2010 12/15/2010	19/13/2019 11/11/2019	
Bateville Lendill	3.8	:E3E0	3	11/24/2010	2/22/2011	12/22/2010	Refibility entypis complete - impacts blandled - gorgado nec operad to describes es recorded - Refibility entypis, complete - no impacts blandled - Refibility analysis, complete - no impacts blandled - Refibility analysis, complete - no impacts blandled - Refibility analysis, complete - no impacts blandled - Potential refibbility (assum identified - con on resolved by
YY II County 1	151	CE	35	6/4/2007	0/1/2010	12/30/2010	Parential reflecting assure identified a centre meschool by summer 2011 Parential reflecting to such identified a centre respond by terrorer 2011
Will County 2	148	DOM	55 39	6/4/2007 5/18/2011	9/1/2010 4/19/2011	1_ 3/16/2011	Reflet/filty analysis complete - no impedia identified
Changpaska 5	17.5	100M	30 41 41	1/19/2011 1/19/2011 1/19/2011	4/19/2011 -4/19/2011 -4/19/2011	3/15/2011	[Figlishing analysis complete and impacts the lifed
		MOD MOD	41	1/19/3011	4/18/2011 4/18/2011 7/28/2012	3/15/2011 3/15/2011	Reliability analysis complete - no impacts identified
Chesendake S Chesendake 10	18.9		1 . 10	· ·	51(2011	5/1/2011	Reliables snalvels complete : no impediationallied Reliability tasses identified and especial to be resolved by \$1,001.1
Chesendake IO Chesendake 7 Indian Shree 1	18.9		50	9775/2907		1	Reliability analysis complete - no impects identified.
Cheanoteka 7	18.9	DPL	50 29	4/20/2011	_7/19/2011	6/1/2014	Injection regular submitted to re-elect unit in 4th quarter 2015.
Chesestate 10 Chesestate 7 Indian Since 1 Brunol Island 18	15.9 15	puo	29	4/20/2011	Γ	6/1/2011	outring 2015. Antistiting snalysis complete - no impects klentified. Snarbconnection paramet submitted to senter trail in sin
Character 10 Character 7	15.9	puo puo		4/20/2011	7/19/2011 7/19/2011 NO1/2011	0,1/2011	copies 2015. Reflectiffy analysis complete - no impects identified. Suppromeellon request automated to restart unit in 4th operator 2015. Refetiffy intendis complete, it as intendict invests identified.
Character 10 Character 7 Indian Rins 1 Bound Island 18 Epoch Island 16	18.9 15 99	or ovo	96	4/20/2011	7/19/2011	631/2011 631/2011	osytholici (1935). Apitholity snahysis complete - no imperio identified, trajecom-color request attentined to restart trait in 4th outside Color of the color of
Chesseddha I Chesseddha 7 Indian Bhrs 1 Brunol island 1B Brysol island 1C Cropby 1 Eddysiols 1	18.8 15 99 15 15 114 279	OPC OUC PE PE	39 39 65	4/20/2011 1/2/2009 1/2/2009 5/2/2010	3/19/2011 B/31/2011	636/2011 626/2011 626/2011	conduct 2015. Reliability version complete into impacts identified, impromession regional attention of the restart test in significant program of the restart test in significant program of the restart test in significant program of the reliability of the restart in the restart the resta
Cheaneath I O Cheaneath I O Cheaneath I O Cheaneath I O Indian Bhrea I Brumel Island I B Brumel Island I I Greenby J Eddyssent I Cromby Onset	15.9 15 15 15 15 144 279 2,7	OPL OUG PE PE Alsi	39 39 65 49	4/20/2011 4/20/2011 1/2/2009 1/2/2009 5/2/2010 8/2/2011 1/2/2009	7/19/2011 8/31/2011 9/31/2011 5/31/2011	0/4/2011 6/34/2011 6/34/2011 5/31/2011 9/4/2011	coulded 2015. Relationity analysis complete - np impects identified, beginnerschipe reguest intentitied to present und in 49 coupler 2015. Outpect and the complete intentitied to present und in 49 coupler 2015. Outpect and the complete intentities the complete intentities intentities the complete intentities intentities. Outpect in the complete intentities complete intentities intentities and the complete intentities and the complete intentities and the complete intentities. Outpect in the complete intentities are sent the complete intentities and the complete intentities are complete intentities. Outpect in the complete intentities are complete intentities and the complete intentities are complete intentities.

GENERATOR DEACTIVATIONS¹ (se of September 11, 2016)

			E to as)	aptember 1			
L		Trans Zone	Age	Official Owner Augussi	Requested Descrivation Date	Actual Descuration	SIII Ballabilla Malas
Unit	Capushy	ZONE		REGUEE	OIK	. <u> </u>	PJM Reliability Status Reliability Analysis complate - Impedit identified -
	'						uppraces scheduled to be complained by 1619 2015. Thus generalor can be allowed to descrives as schooled on \$7172012 essuming all oppraces are
YY diow teleral 1	51	APS	63	2/0/2012	W1/2012	9/1/2/012	schoolyled on \$71/2012 seasoning all opgrades are all on track to be contributed as achebyted.
1 .5	}	.	} . '	. !	-		Reliabitiv Applysis complete - impeds identified -
							Reliability Analysis complete - impacts blantmed - upgrades acheduled to be completed by May 2013. Thus generally can be allowed to describels as
Willow letend 2		APS	سن	2/8/2012	.9/1/2012	816012	schedujed on R/1/2012 assuming all upgredes are sill on trick to be completed as achieved.
					1		Reliability Analysis complete - impacts kisnillied -
		١.					Religibility Analysis complete - impacts itentified - upgrades scheduled to be completed by June 1914. Supplying a postore - that to be bard to send a unit.
		l	İ				October 1, 2012, pending snalysts of outages required to implement required system upgradus.
·	1	'			M1/2012		realizary manyles combetes implicate transition organizes scheduled to be completed by Asia 2014. Evaluating options: Unit to be kept in service unit October 1, 2012, pending analysis of october per regulard to Implement required system upgrades. Unit depolitated on Dol. 1, 2012, Polivalial Roberts of page 1/2/18 Must 1986 et 3 in interpolitaction prefect.
illes 1	109	ATSL	54	2/21/2012	N I/Z01Z	10/1/2012	21-034
İ	1	[!		Religion Analysis complete - Imagets identified - upprades scheduled to be completed by June 2014.
{		l	1	}	}		Evaluating options, Unit to be kept in service until
		006	,	2/29/2012	6/1/2012		registed to implement regularly system upgrades. Unit deachivited on Cct. 5, 2012, Priordel movem of CIHE in inferconnection project y 2-0-12.
Streng 4	JZ5			2742012	9/1/20/2	19/1/2012	Rollability Analysis complete - no impacts identified.
Polonies River 1-5	- 102	PEP	52	8/30/7811	10/1/2012	10/1/2012	Links deadlineled on Oct. 1, 2012.
SMART Peper	25	DECK	80	5/14/2012	6/10/2012	[0.79/2012	
	} -	ļ	1	١.	[Reliability Analysis complete - Impacts identified - upgradus scheduled to be completed by Ame 2014. Generator has descriptind as planned on December 31.
Conesylle 3	195	AEP	18	3/22/2012	12/31/2012	1231/2012	2012
Schivita 1	188	PECO	_54	10/3/1/2015	2/1/2013	1/1/2013	Reitserry analysis complete - no impacts identited Uot descripted to tffri3.
Schwyke Dassi	<u>L</u> .	Peco	1	10/31/2012	2/1/2013	1/1/2013	Reliability analysis complete - no impacts identified. Unit described on 17773
	, 1		,				Reliability Amerysia Complete, Wo Impecia atenditud.
Hutchings 4	62	Payton	51	6/20/2012	6/1/2013	9/1/2013	Unit designated on 5(1/2011
Indenco Peteraburo Plant	2.8	, DOM.	20	1/16/2010	3/01/2013	\$31/2013	Reliability #144/90s complete - no impacts lidentified. Unit description 5/31/12.
[!		ļ.	Publishing Armigels congrigon - property Manuflyst - properties and
	([· ;					According procedures arguested to the Inspires by Silvy 2015 by about garmentum to deathfree as acrosphiles. On May 16, 1913 FARS whenting programs of dispersioning rather with an information days that the
<u>.</u>				2/20/2012	4/18/2015		Publishing Academic Conspices is prepared Silversified is proposed and incoming preceditive in agreed of the bit price by Step 1992 to be provinciated by Societies as a conspiciol, Colledge 19, 1992 to the shadowed symposium fragishes what profiles with an explosion despreadure, which are still provinced implicationally offices with an explosion despreadure, which are still provinced fragishes are provided to the provinced and shadowed Academic Park Microsoft See Shadow Shadow See Academic and Collegeist See Section 1994 Microsoft See Shadow Shadow See Academic and Collegeist Section 1994 Microsoft See Shadow Shadow See Academic and See Shadow Shadow See See See See See See See See See Se
Tiun 1.	-"	WONED		\$/15/2013	W1/2013	9/1/2013	HAMPHY OF THE LOCAL PROPERTY OF THE PARTY.
				١.	ĺ		Refeabling Program commency a project is blooking if, upge before and query way procedules in project for a law it place, by place \$700 to those who was a property of the program of the program of the controlled any spikering and projecting program of profession of program of program of the projecting program of the program of program of the program oversible or projecting types described program oversible or projecting of the design of the program of projecting of the program of the program of the program of projecting of the projecting of the program of the program of projecting of the projecting of the program of the program of projecting of the program of the
•		١,					geometrical de productional au polyagoliste. Car blog 19, 2013 ASSS automated an aphiliated despressor for the selfs are affective franchisation (and at \$10.00) \$2. New related by and total companies ASS because
Tilve 2	1	MOTES	50	2/20/2012 0/15/2013	9/1/2015	\$1/2013	Oranization and arrantee marks he explained by the description of Oranization are the test with most (1) that then then and description are scheduled as at "70013, 134 (see Accident test \$175.13)
<u> </u>			:		<i>.</i> *		l . i
] :] '				Ì		Deficility seasons were place - supposition of the control of the
ļ		.i.		2/29/2012	4/15/2015		minuted programmy descripting training the adjustment process of the contract
Trive 3		MelEd		3/10/2013	Ø1/2013	9:1/2013	Committee that it is a grant of the state of
							P.Dr. odg blanded on 1979 13 Day sell help pagage growning an ATDIT of any bath discomministered planting and DDIT. P.D. Attaching the first raid of fine powers in size of the open ding poils in Julia 1971. "Homeon, don't be sell wise a standing hadroning. In this bath the Private and Count from models. 2 of his non-related facilities and the product opening. Because or introduct facilities and the product opening. Because or introduction
1	,						
1		i]] .		and inbut the Persons and Course from models. Fifth has completed Relating analysis and Spything temporals. Britings as mishaday
Piney Creek NUG Knoogra Co. IPP	31	Pentins PPI	20 23	6/25/2013 7/1/2013	4/12/2013 8/30/2013	4/52/2053 0/36/2013	
Physy Greek INIA Kopasia Co. IPP	31	Peroties PPL	20 23	6/25/2013 7(1/2013	4/12/2013 9/30/2013	1/12/2013 0/30/2013	and in the first term, removed, eight the last in a statement produced in the common and the com
Piney Creek NRIG Koppers Co. JPP	31	Peroties PPL	20 23	6/25/2013 7/1/2013	4/12/2013 9/39/2013	4/52/2053 0/30/2013	National posteriors as only the world of Princepts. Callabelly analysis corporate. No Impacts Manifest.
Piger Creek INTO Korogre Co, IPP	31	Peroties PPL	30 23	6/25/2013 7/1/2013	4/12/2013 9/30/2013	4/12/2053 0/30/2013	Newtoning posteriors on 1-19 fectored of Professional Gallabellty artifacts company. Its Impacts Manufact. Reliability Artifacts company - respects 66-rolled - synthesis scheduled to be abtoleted by May 3, 2012.
Phay Great RRIO. Kopsets Co., IPP	31	Per Cito PPL	20 23	3/1/20/3 9/28/2013	4/12/2013 9/20/2013	4/12/2053 0/30/2013	International professor as 1-1/2 movement of the terrimonation. Rall piddity architekt correcting. The Impact's Manufilled. Reliability Architekt correcting. The Impact's Manufilled. Reliability Architekt correcting. The Impact's Manufilled. International Confessor of the Impact of the Impac
	31	PPL	30	2/1/2012 4/2/2012	6/30/2013 6/3/2012 4/1/2015) B/1/2012	Transcence protects as a 17% movement with the extension of the control of the co
Prev Greek M/O Korones Co. IPP Wajier G. Backled 2	31	Pencies PPI	30 33	2/1/2012	6/30/2013	· ·	Transcence protects on a 1978 movement with the expension of the contract of t
		PPL	73	2/1/2012 4/2/2012	6/30/2013 6/3/2012 4/1/2015	5/1/2012 4/1/2015	Name are provided as a Let 9 mount of all temporary and temporary and a let 10 mount of all temporary and a let 10 mount of all temporary and a let 10 mount of a let 10 mount
		PPL	73	2/1/2012 4/2/2012	6/30/2013 6/3/2012 4/1/2015	5/1/2012 4/1/2015	Transparents protection as 1/12 florocerist del trimmerties. Galledell's archivals complete - Imprecis (Amullinia,
Walter G. Backlood 2		PPL D£OK	73	2/1/2012 4/2/2012 8/2//2013	\$197012 4117012 4117015 5117012 4117015	5/1/2012 4/1/2015 JA(01/2012	Transactional protection and 1918 Minimized Minimized. Ballishelitz are should be consisted, John Timonel Minimized. Ballishelitz are should be consisted, John Timonel Minimized. Ballishelitz Application of the Consisted of Minimized. The Constitution of the Consisted of Minimized
		PPL	73	2/1/2012 4/2/2012 8/2/2013	6/36/2013 5/4/2012 4/1/2016 1/4/2013	5/1/2012 4/1/2015 JA(01/2012	Transcensing proteins as 1/12 (monetal subtrivenestics, Ballidellit are through a consistent of the monetal Manufacts. Ratiosith's enhance complete - Monetal Manufacts. Ratiosith's Analysis complete - Monetal Sept 1, 2012, or 1, 201
Walter G. Backlood 2	94	PPL D£OK	73	2/1/2012 4/2/2012 8/2//2013	\$197012 4117012 4117015 5117012 4117015	5/1/2012 4/1/2015 JA(01/2012	International protection and Intell Memoral and Intelligence and Intellige
Walter G. Backlood 2	94	PPL D£OK	73	2/1/2012 4/2/2012 8/2//2013	\$197012 4117012 4117015 5117012 4117015	5/1/2012 4/1/2015 JA(01/2012	Transcriberty protects on a 1978 grower's destination. Ballidelity architects on a 1978 grower's destination. Ballidelity architects conceived - Immedia Manufacia. Protection of the conceived - Immedia Manufacia. Protection of the conceived - Immedia Manufacia. Protection of the conceived of the Protection of the Conceived
Walter G. Backlood 2	94	PPL D£OK	73	2/1/2012 4/2/2012 8/2//2013	\$197012 4117012 4117015 5117012 4117015	5/1/2012 4/1/2015 JA(01/2012	International protection and Intell Memoral and Intelligence and Intellige
Waller C. Decklord 2	94	DEDK		2/17012 427012 8/277013 8/277013 2/17012 477212 5/277013	6/19/2013 6/19/2012 4/19/015 4/19/015 4/19/015 4/19/015	5/1/2012 4/1/2015 18/2012/012 5/1/2012 4/1/2015	International protection as 1913 movement of technologies. Balleditin architecture of the control of the contr
Waller C. Decklord 2	94	DEDK		2/17012 427012 8/277013 8/277013 2/17012 477212 5/277013	6/19/2013 6/19/2012 4/19/015 4/19/015 4/19/015 4/19/015	5/1/2012 4/1/2015 18/2012/012 5/1/2012 4/1/2015	International protection as 1913 movement of technologies. Balleditin architecture of the control of the contr
Walter G. Becklosed 2	\$4 126	OFFOR	51	2/17012 42/2012 8/27/2013 2/17012 42/2013 5/27/2013	9/9/2013 9/9/2013 4/1/2015 4/1/2015 4/1/2015 1/1/2/12013 10/9/2013	8472013 4172015 40321/2013 51472013 4172015 11447/2013	Transcriptor protection on 1973 money and technologies. Ballishilly Analysis complete - Impacts Marcilles. Britishilly Analysis complete - Impacts Marcilles. Britishilly Analysis complete - Impacts Marcilles. Protection of the Impacts of the
Walter G. Becklosed 2	94	OSUK		2/17012 427012 8/277013 8/277013 2/17012 477212 5/277013	6/19/2013 6/19/2012 4/19/015 4/19/015 4/19/015 4/19/015	5/1/2012 4/1/2015 18/2012/012 5/1/2012 4/1/2015	Name and protection as 1/19 (movement and technologies). Reliability are shroll corrected. John Immedia Marcilles. Reliability Analysis corrected. John Immedia Marcilles. Reliability Analysis corrected and process general and control of the con
Walter G. Becklosed 2	\$4 126	OFFOR	51	2/17012 42/2012 8/27/2013 2/17012 42/2013 5/27/2013	9/9/2013 9/9/2013 4/1/2015 4/1/2015 4/1/2015 1/1/2/12013 10/9/2013	8472013 4172015 40321/2013 51472013 4172015 11447/2013	Name accessed protections as a large growner and techniques. Balladelitz and entire contents. John Immedia Marilletia. Balladelitz and protection of the process of protection of the protecti
Walter G. Becklosed 2	\$4 126	OSUK	51	2/17012 42/2012 8/27/2013 2/17012 42/2013 5/27/2013	9/9/2013 9/9/2013 4/1/2015 4/1/2015 4/1/2015 1/1/2/12013 10/9/2013	8472013 4172015 40321/2013 51472013 4172015 11447/2013	Name accessed protections as a large growner and techniques. Balladelitz and entire contents. John Immedia Marilletia. Balladelitz and protection of the process of protection of the protecti
Walter G. Becklosed 2	\$4 126	OSUK	51	2/1/2012 42/2012 8/27/2013 8/27/2013 2/1/2012 4/27/2013 7/9/2013	#17013 #17013 #17015 #17015 #17015 #17015 #17015 #17015	5/1/2012 4/1/2015 (6/201/2013 5/1/2013 4/1/2015 10/21/2013	Name accessed protections as a large agreement with reference to the control of t
Walter G. Berkerd J. Walter G. Berkerd J. Halfold's Ferry 1	94 126 530	OFOK.	51	2/17012 42/2012 8/27/2013 2/17012 42/2013 5/27/2013	9/9/2013 9/9/2013 4/1/2015 4/1/2015 4/1/2015 1/1/2/12013 10/9/2013	5/1/2012 4/1/2015 (6/201/2013 5/1/2013 4/1/2015 10/21/2013	Name accessed protections as a large growner and techniques. Balladelitz and entire contents. John Immedia Marilletia. Balladelitz and protection of the process of protection of the protecti
Walter G. Berkerd J. Walter G. Berkerd J. Halfold's Ferry 1	94 126 530	OFOK.	51	2/1/2012 42/2012 8/27/2013 8/27/2013 2/1/2012 4/27/2013 7/9/2013	#17013 #17013 #17015 #17015 #17015 #17015 #17015 #17015	5/1/2012 4/1/2015 (6/201/2013 5/1/2013 4/1/2015 10/21/2013	Name and protection as 1972 growers and technologies. Bellistellitz enforcements. John Immoresh Marillet S., Bellistellitz enforcements. John Immoresh Marillet S., Bellistellitz enforcements. John Immoresh Marillet S., Bellistellitz enforcements and produce of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the produced of protection. John Immoresh Marillet S., 1971, 20
Walter G. Berkerd J. Walter G. Berkerd J. Halfold's Ferry 1	94 126 530	OFOK.	51	2/17017 47/2017 57/2013 3/10017 3/10017 4/10013 1/10013	#17013 #17013 #17015 #17015 #17015 #17015 #17015 #17015	5/1/2012 4/1/2015 (6/201/2013 5/1/2013 4/1/2015 10/21/2013	Treatment protection as 1/12 growers and technologies. Bellistellit are referred to consiste a financial Marialities. Bellistellit are referred to consiste a financial Marialities. Bratis Str. A selection consister a financial Marialities. Bratis Str. A selection consister a financial Str. (2012). Con April 2, 2012 Chies a coloribide a legislated refers to 1. Part Indicates the financial financial control of the financial str. (2012). Part Indicates the financial financial control of the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial str. (2012). Part Indicates the financial control of the financial control of the financial control of the financial control of the financial control of the financial control of the financial control of the financial co
Waller G. Becklord J. Waller G. Becklord J. Hallodd a Ferry 1.	94 126 530	OSCISS.	58 58 43	2/1/2017 6/2/2017 8/2/2013 2/1/2013 6/2/2013 1/6/2013 1/6/2013	\$1/2013 \$1/2012 \$1/2015 \$1/2013 \$1/2013 \$1/2013 \$1/2013 \$1/2013 \$1/2013	5/17013 417015 16321/2013 4172013 4172013 1637/2013 1637/2013	Name and process of the control of t
Walter G. Berkerd J. Walter G. Berkerd J. Halfold's Ferry 1	94 126 530	OFOK.	51	2/17017 47/2017 57/2013 3/10017 3/10017 4/10013 1/10013	#17013 #17013 #17015 #17015 #17015 #17015 #17015 #17015	5/17013 417015 16321/2013 4172013 4172013 1637/2013 1637/2013	International protection as a 1913 movement of technologies. International protection as a 1913 movement of technologies. International Michigan School (1914) and the second of the sec
Waller C. Becklord 2 Walter C. Becklord 3 Hallodd a Perry 1	94 126 530	OSCISS.	58 58 43	2/1/2017 6/2/2017 8/2/2013 2/1/2013 6/2/2013 1/6/2013 1/6/2013	\$1/2013 \$1/2012 \$1/2015 \$1/2013 \$1/2013 \$1/2013 \$1/2013 \$1/2013 \$1/2013	5/17013 417015 16321/2013 4172013 4172013 1637/2013 1637/2013	Name accessed protections as a large growth and extractive control of the control
Waller C. Becklord 2 Walter C. Becklord 3 Hallodd a Perry 1	94 126 530	OSCISS.	58 58 43	2/1/2017 6/2/2017 8/2/2013 2/1/2013 6/2/2013 1/6/2013 1/6/2013	\$1/2013 \$1/2012 \$1/2015 \$1/2013 \$1/2013 \$1/2013 \$1/2013 \$1/2013 \$1/2013	5/17013 417015 16321/2013 4172013 4172013 1637/2013 1637/2013	International protection and Intelligence of American International Protection and Intelligence of American International Intelligence of American
Wester C. Berkers 3 Wester C. Berkers 3 Heister's Ferry 1 Heister's Ferry 2	530 530	OSCIN.	55 57 43	2/17017 42/2017 52/2013 2/17013 2/17013 2/17013 2/17013 2/17013	#/7013 #/7013 #/7015 #/7015 #/7015 #/7015 #/7015 #/7015 #/7013	5/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013 4/17013	International protections on 1912 moment and reference in the International Activation of the International International International International International International International International International In
Waller C. Becklord 2 Walter C. Becklord 3 Halled C. Ferry 1 Halled C. Ferry 1	94 126 530	OSCISS.	58 58 43	2/1/2017 6/2/2017 8/2/2013 2/1/2013 6/2/2013 1/6/2013 1/6/2013	\$1/2013 \$1/2012 \$1/2015 \$1/2013 \$1/2013 \$1/2013 \$1/2013 \$1/2013 \$1/2013	5/17013 417015 16321/2013 4172013 4172013 1637/2013 1637/2013	International professions and print general and extendent in Marketin and American A
Wester C. Berkers 3 Wester C. Berkers 3 Heister's Ferry 1 Heister's Ferry 2	530 530	OSCINS.	55 57 43	2/17017 472013 272013 2/17013 2/17013 2/17013 2/17013 2/17013 2/17013 2/17013	#/7013 #/7013 #/7015 #/7015 #/7015 #/7015 #/7015 #/7015 #/7013	5/17013 4/17013 4/17013 4/17013 4/17013 10:3/1013 10:3/1013 10:3/2013 10:3/2013	International protections on 1912 moment and reference in the International Activation of the International International International International International International International International International In
Weather & Berklord 2 Walter & Berklord 2 Halfield & Ferry 1 Halfield & Ferry 3 Machel 2 Leachel 2	530 530 530	OSCINS.	53 - 52 - 43 - 43 - 63	2/17017 472013 272013 2/17013 2/17013 2/17013 2/17013 2/17013 2/17013 2/17013	#17013 #17013 #17015 #17015 #17015 #17015 #17015 #17015 #17013	5/17013 4/17013 4/17013 4/17013 4/17013 10:3/1013 10:3/1013 10:3/2013 10:3/2013	International professions and International Confession International Professions and International Confession International Inte
Waller G. Reckord 2 Waller G. Reckord 3 Hallold a Ferry 1 Hallold a Ferry 3 Michael 2 Jesichel 2	530 530 530 520	OSCINS AP	12 12 13 14 14 15	2/1/2012 6/2/2013 2/2/2013 2/2/2013 1/2/2013 1/2/2013 1/2/2013 1/2/2013	6/30/2013 6/1/2013 4/1/2013 4/1/2013 4/1/2013 4/1/2013 10/2/2013 10/2/2013 10/2/2013 10/2/2013 10/2/2013	5/1/2013 4/1/2013 4/1/2013 5/1/2013 5/1/2013 10/1/2013 10/1/2013 10/1/2013 10/1/2013	International professions and International Confession International Professions and International Confession International Inte
Weather & Brackord 2 Walter & Brackord 2 Haddelf & Farry 1 Haddelf & Farry 1 Machel & J. Machel & J. Machel & J. Machel & March & Machel & M	530 530 530	OSCINS.	53 - 52 - 43 - 43 - 63	2/1/2017 6/2021 2/2021 2/2021 6/2021 7/20213 7/20213 7/20213 7/20213	#17013 #17013 #17015 #17015 #17015 #17015 #17015 #17015 #17013	5/17013 4/17013 4/17013 4/17013 4/17013 10:3/1013 10:3/1013 10:3/2013 10:3/2013	International professions and International Confession International Professions and International Confession International Inte
Mather C. Berkhord 3 Halloff a Ferry 1 Halloff a Ferry 2 Mathel 2 Mathel 2 Mathel 2	530 530 530 520	DECK AE	12 12 13 14 14 14 14 14 14	2/1/2012 6/2/2013 2/2/2013 2/2/2013 1/2/2013 1/2/2013 1/2/2013 1/2/2013	6/30/2013 6/1/2013 4/1/2013 4/1/2013 4/1/2013 4/1/2013 10/2/2013 10/2/2013 10/2/2013 10/2/2013 10/2/2013	5/1/2013 4/1/2013 4/1/2013 4/1/2013 4/1/2013 10/1/2013 10/1/2013 10/1/2013 10/1/2013	International protection and Intelligence of American Ame
Waller C. Becklord 2 Waller C. Becklord 3 Hallod's Ferry 1 Hallod's Ferry 1 Machael Z. Machael Z. Machael Z. Machael J. 530 530 530 530 530	DECK AE	12 12 13 14 14 14 14 14 14	2/1/2012 6/2/2013 2/2/2013 2/2/2013 1/2/2013 1/2/2013 1/2/2013 1/2/2013 1/2/2013	6792013 6772012 4772012 4772013 4772013 11072013 10722013 10722013 12722013 12722013	5/1/2013 4/1/2013 4/1/2013 4/1/2013 4/1/2013 10/1/2013 10/1/2013 10/1/2013 10/1/2013	Name and an experience of the company of the compan	
Waller C. Becklord 2 Waller C. Becklord 3 Hallod's Ferry 1 Hallod's Ferry 1 Machael Z. Machael Z. Machael Z. Machael J. 530 530 530 530 530	DECK AE	12 12 13 14 14 14 14 14 14	2/1/2012 6/2/2013 2/2/2013 2/2/2013 1/2/2013 1/2/2013 1/2/2013 1/2/2013 1/2/2013	6792013 6772012 4772012 4772013 4772013 11072013 10722013 10722013 12722013 12722013	5/1/2013 4/1/2013 4/1/2013 4/1/2013 4/1/2013 10/1/2013 10/1/2013 10/1/2013 10/1/2013	Name accessed protections as a large growner and techniques as a large growner and techniques as a large growner and techniques as a large growner and participated growner and participated growner and participated growner and participated growner	
Waller G. Recklord J. Waller G. Becklord J. Halloff L. Ferry 1. Halloff L. Ferry 2. Michael Z. Michael Z. Michael J. Mi	530 530 530 530 530	DECK AE	12 12 13 14 14 14 14 14 14	2/1/2012 6/2/2013 2/2/2013 2/2/2013 1/2/2013 1/2/2013 1/2/2013 1/2/2013 1/2/2013	6792013 6772012 4772012 4772013 4772013 11072013 10722013 10722013 12722013 12722013	5/1/2013 4/1/2013 5/1/2013 5/1/2013 5/1/2013 10/5/2013 10/5/2013 10/5/2013 10/5/2013 10/5/2013 10/5/2013	International protection as a large growth and international protections as a large growth and international protections as a large growth and international protections are also as a large growth and international protection and international protections are also as a large growth and international protection and international protection and international protections are also as a large growth and international protections are also as all protections are also as a large growth and an area and as a large growth and an area and an area and an area and an area

GENERATOR DEACTIVATIONS¹ (se of September 11, 2016)

			## of S	optember 1 Official	1, 2015) Requested	Antusi	
1011	Capacky	Тевла Дола	Age (Yeasy)	Owner Request	Descrivation Sale	Descripation Date	P.M. Refinibility Status
31. England MnK.1.	129	A.F.		.2/27/2013	5/1/2014	5/1/2014	P.365 Reliability States Reliability analysis complete. No reliability impacts— with request to immuter CRs to Y1-00s. Unit descripted \$1/2014.
O STATE OF THE STA		٠.					Referbito Analysis consists. No imperio blanding
Yarren County Landill	1.9	JCPL	,	10/11/2012	1/9/2013	1/1/2010	Also requested to re-use (apachy dents for interconnection protest VZ-018, New solar facility to sendor and re-used partial calls risble.
Sherakis 6	110			10/31/2017	1/9/2013 6/1/2014	N1/2014	Religios Atlantis comostis. No knoeds Marking.
	. }						Reliability Analysis complete: Impects Ide/White and no
							Reliability Analysis complete: Impects identified and no expected to be completed Bill June 2019. Upgrades identified are abreedy identified besetine upprades with a June 2019 expected on sported data. Transmission
. \							bune 2014. In addition, gather is affected by the
TO 9 redector	. 184	PSEG	40	9/10/2012	8/1/2014	N1/2014	conversion of the intercontrol sub-so 230 kM which is a required brantine upgrade and scheduled in by schoolsted by June 2014, Mult dentificated.
							"
			. 1				Reliability Analysis complete - Impects identified - logsedes addeduced to be completed by May 2015. On Sept. 4, 2015 PUM resident an insented decidentifier maline implesting the Destination units would now be
ļ				١ ١			
	78			4/5/2012 W4/2013	6/31/2015 5/31/2014	&/31/2015	analysis complete. One impact identified and expected to be completed before June 1, 2014. Like
Zastrwater I.				WASAIN.	33,729(3	5/3 <u>1/2</u> 014	sistic Devices on S/3 [/2014
							Reliability Analysis complete - Impacts Identified - upgrades achieduted to be completed by king 2015. On
			"	١.			Sept 4, 2013 FUN received an updated deadthration notice indicating the Dentwater units would now be
				4/5/2012	5/31/2015	5/31/2015	descrimings on May 24, 2014. Updated reducting analysis complete. One knowled identified and expected to be completed before Juno 1, 2014. Upd
Description 5		AE	\$7	SV4(2013.	, \$21/2014	6/31/2011	description on \$1117014
· · · · · · · · · · · · · · · · · · ·			1			-	Reliability Analysia complete - impects (dentified -
ï		٠.					upgrades and operating procedures especied to be in place by May 2015 to allow gorterators to describe as expenditure. On Name 45, 2013 MRG or shoulded an
٠ . ١			1				achieologi, Oh Ngy 19, 2015 had shi called an shifeful denother that a half shi a filled and denother that a 6 5 1/2014, have repaiding enables toxing the property bending and shigher and shife ships and shife ships and ships and enables toxing the ships and ships and ships and an analysis toxing the ships and ships and an analysis toxing the ships and an an analysis toxing the ships and an analysis toxing the ships and an analysis toxing the ships and an an analysis toxing the ships and an an analysis toxing the ships and an analysis toxing the ships and an an analysis toxing the ships and an an analysis toxing the ships and an analysis toxing the ships and an analysis toxing the ships and an an analysis toxing the ships and an an an analysis toxing the ships and an analysis toxing the ships and an analysis toxing the ships and an an analysis toxing the ships and an an
	- 0			2/20/2012	10/2015 . 1	1/7/2018	ensiyela izvrejerin, jirpocia lünpülişdi ani angradırı expeciesi iç be congisted by nem desicilmillen dale Daro 1, 2014, Palliend 1 cursidoring ihe re-use e
Portigned 1	150	Marti	. 83	- 6/15/2013	6/1/2014	(71/2014	CIRs. this designated on \$172014.
1							Reliability Analysis complets - Impects identified -
					•		upgrades and operating produtives arpected to be in place by May 2016 to allow phonesters to describes as adheduted. On Mary 15, 7013 YPRG supposited on
							specified designation insign with the encourse denotivation date of \$172014. Now reliability
	į			2/20/2012	u/12915	1/7/2015	expected to be completed by new describition date them. 1.76441. Portland 2 considering the region of
Postlend 2		. Метра		5/15/2013	6/1/2014	6/1/2014	CIRto, Unit describerated on IEEE014. Reliability analysis complete. Impects identified.
	i						Upgrades and interior operating measures eroocied to be consisted in 2nd overter 2015. In addition recounts
]]]	to re-use CRR for project 21,000. On 4/14/2014 Starbury automitted on undefed dear Drellon notice with a year specification delet of July 18, 2014. New
	!	ŀ	1	٠.			reliability problems complete. Impacts stentifies,
				10/17/2013	4/13/2016	4/13/2015	2015. Retartin operating menerate have been developed list can be utilized during the period iron
Sunbucy3	91	_ 667	62	#117/2013 #115/2014	. 8/1/2015 . //16/2014	#1/2015 	Surbury cury depotypise on May 15, 2014.
			۱ ۱		}	i	Retrebitily engines comblets, impacts identified Uppredos and interim operating measures expected to be completed in 2nd quarter 2015. In addition requests
							to se use CPIs for project Z1.090. On 4/14/2014 ** Sunbury submitted an updefed droptivation cofton.
]	. !			with a new denotivation than of July 18, 2014. New reflecting audysta complete. Impacts bookland, Dispression expected to be completed by June 1.
	!						2015, Interior appening revisioned have been developed that can be utilized during the partial from
Svojbura 1		. 595	84	11/7/2013 4(14/2014	6/1/2015 7/16/2014	6/1/2013 7/10/2614	July 2014 until appraises see completed. Thus Subject can describelle on July 15, 1914
		ŀ]. ,		l I	•	RollabBly shallysis complete, impacts identified. Upgrades and interim operating measures scheduled to be completed by Antiquarier 2016. In addition requests
			Į I	,	ļ		be completed by 2nd queries 2016, in addition requests to re-use CINs, for project 21-290. On 4/14/2014 Similary submitted an updated describation modes
							with a new description data of Ady 19, 2014. Naw reaching unalysis complete. Impacts blorilled, Upgrades expected to be completed by Ama 1,
							Upgradus expected to be completed by June 1, 2015, Interior operating materials have been developed that can be utilized during the phriod to
Súnbury Z		. Pin	54	11/7/2013	8/1/2018 2/30/2014	6/1/2015 7/10/2014	July 2014 until interest on the constitute of the Strike o
		Γ.					Raifebray soulvals complete, impacts Mendifed,
					•		Upgrades and interim operating measures aspected to be completed in 2nd district 2015, in addition requests to re-use CRI, for project 21,000. On 4/14/2014
* •		ļ			-		Sundary submitted on updated desotherion notice with a new description date of July 16, 2014. New reliability sources, contricts. Impects identified.
			1		}		Newworks asserted to be employed by AIRC 1.
Supbury A	128	PPL	50	11/7/2013	6/1/2015 7/18/2011	6/1/2015 7/18/2014	2015. Interim operating measures have been download that can be utilized define the period for July 2014 unit upgrades are completed. Thus surface can described and July 2014 unit upgrades.
×*************************************			<u> </u>				Fielightity Analysis complete - britecta trigottand -
		İ			ł		ingredes scheduled to be completed by June 2014. O
		"	} '	2/1/2012	4/1/2016	4/1/2015	notion from Duka instanting that Rentjerd & would be described in false than 11/20/2014. Updated Rollstilly Analysis complete. He impacts the titled
Weller C Secklord 6	234	DECK		00/28/2014	11/26/2014.	30/01/2014	Britisha America monololo e impecia idensida -
		ļ			(,		suppredes achievated to be completed by June 2014. Of
				2/1/2012	4/1/2015	4/1/2015	notice from Duko indicating that Recitard 6 would temperated as later than 1726/2014. Updated
Walter C Backlord 6	-114	peox	42	2/1/2012 06/20/2014	. 11/25/2014	4/1/2010 19/01/2014	Refubility Amalysis complete, No impacts fdentKee that descriveted on 10/1/2011. Refubility analysis complete. No impacts islantified. Unit can descrive to all any line. Unit descrive od on
Wingsbaco Landii		Come	<u> </u>	9/30/2014	12/29/2016	11/1/201	Deliability Analysis complete, Impacts Macillad
Chaganeaka 1		_004	50	10/16/2011	12/31/2014.	12/23/2014	Refeability Analysis complete, Impacts Ideathed. Upprefee expected to be completed by June 2015. Let \$994(heled on 12/23/2015). Fieldstility Analysis complete, Projects Ideather.
Chesponeke Z	111	. DOM	50	11/15/2011	12/31/2014	12/23/701	Licensian presented to be contribled by June 2018. Ut
		-	Ţ				
	ĺ	١	1		1	}	Reliability Analysis combells: Propositio Standards. Opposition sprojected by the completed by James 2015. Or 101 1912 garangetor submitted on updated describedion received includingly the describing of size to \$25,01144. Reliability analysis exhibition. Principles by Searching transfer supposition and Reliability in submitted transfer supposition and Reliability is submitted James 2015. In addition a new refitability is submitted to the complete of the complete of the complete of the complete
		1					beautine upgradue are still needed to be completed by June 2015. In addition a new refit billity issue state identified and a committee to a 200 like in the
	-	{				}	identified and a previously identified baseine upgrade interneed to be economisted and completed by time 2015. It is excepted that the Chickpowke 2 paintaining unit will deactivate on December 31, 2014. Unit
Ches speake 3	157	001	5	10/11/2012		12/23/201	
] .	`					Reliabity Analysis combins, impacts identified Upgrades expected to be completed by June 2016. Or 18911/12 generalor automitted an updated deacthriston.
<u>'</u>						1	107 1712 generator astemitied on updated descileration request changing the deactivation date to 1273 ff14. Railebility analysis complete. Previously identified behavior updrages are still needed to be completed by
							behavior upgrades are at it headed to be completed by June 2015, in addition a new restrictly fisce year throught and a presentiny identified bearing upgrade and need to be accelerated and completed by June
	[ľ		11/15/2011	12/31/2015		2015. It is expected their the Childrenks of generating unit will describe in December 21, 2014. Unit
Characesta 4	207	.: 004	449			12/23/201	Galabilla and all property transfer and
-			1 -	١	1.	1 .	opprate expected to be completed by and of \$114. Describe measures will be utilized in integer period.
] [1	ŀ	1.			Link expected to precitively be scheduled. Unit
Walter C Backlard (77)	1	DECH	تست	9/26/2014	12/26/2014	12/31/20	Unit expedied to describe the scheduled. Unit directive and 1/21/2015. Relativity sneights complete, wheet identified and uportide expected to be completed by and of 2015. Operating measures will be sufficied in trianym period.

GENERATOR DEACTIVATIONS¹ (as of September 11, 2015)

			8 10 44)	eptember 1			
		Teams	Age	Difficiel Owner	Adquested Descitration	Astyal Descrivetion	
Unit	Capacity	20mm	(Years)	Request	Orie	O et e	PJM Reliability Status Resident preside concelle - to broadly kierelied.
Sporn 5	440	AFE.		10/1/2019	12/3//2010	2/13/2012	Risbooy praints compile - to impair is townied. All received appropriation than PLC to deaching unit. AEP informers P.M. on 272-2013. Light designated. Consorty rights in the Technique 3 in descript a bart of
Hurtock J	15	_ugi_	40	1/16/2004	\$11/2010	6:1/2010	Copposition paths benefit and a total as a consistency of the confidence of the company of the c
Siale Und 3:		Confed	65	8/26/2011		3/25/2012	to argue the follows, Properties of -max of CPRs to Interprete of the total of 17.050
State time 4	_110	conta	49	M25/2011	4/1/2012	3/25/2017	Religible foreigne bompete for Arek 1, 2017 angelvegen dete - no impects dentified, 1/10/10176-see at Ciffe in Character author mobile 11/10/10
Viking Engley NUC	16	PPs_	- 21	70/2011	N1/2012	3/31/2012	no impocin develope (1920/1009/2004) unit of unit of information profits (1920/2004) (1920/2004) (Statified Rollstop Arekrid (1920/2004) (1920/2004) (Statified (Statified) Arekrid (1920/2004) (19
Welles C Becklord 1	- 94	DECK	. 69	31/150/3	28,830,3	S1/2013	Schools on the complete banks 1, 2012
Buzzard Point East	_112	PEFL	39	2/25/2007	5/31/2012		Reliability is successful and appealed to be received by ISO 170 17.
Barks 1, 2, 4-8 Buzzard Point Wast Bucks 1-8	128	PEF	39	2/28/2007	631/2012	Enteres	Rollston is sure blanding and subsched to be resolved by ST 17012.
DIRA PO		-			- STREETS		
Eddysking 2	_309	PE		155,515000	: 50102011	563512011	Carlottin market arment - Halelday (area h kingilad) - Carlotta deglia
		l		2/29/2012			Rehibitry controls complete - increcis to Mindled - suggested as exhaulted in the completed by J.Ne 2014, Urit, described on
NS(a) 2.	105	ATSL	68	James	<u>6/1/2012</u>	- 0/1/201Z	
	i	ļ:		<u></u>			Reflecting Analysis compage - terracial topolitical - upgradus scheduled by the compaged by June 2014. Unit describerant on Arter 1, 2012. Potentiary a-use of Calle by Mar connection (Exched VI)-027.
Ekama 1	93	000	- 59	· 2/29/2012	8/1/2012	6/1/2012	Broines VI-062. Histolitay Analysia complete - Imprecia Idan ⁴⁵ ed - opprades
	٠.	i	Í.	l	i [.]	! .	Rislebiley Analysis complete - Impacts (durallied - upprades scheduled to be completed by June 2014). Unit describes on Ann 1, 2012. Publishers useful Citis in Priestonnecture.
Elterne 2	- 93	DUO	48	2/29/2012	M1/2012	6/1/2012	20 Kd 10 402
	i	ļ] .		!		R stability Analysis compage - impacts identified - upgrades scheduled to be completed by Arts 2014. Unit describested on June 1, 2017. Polarestyp-true of CREs to interconsection
Etrema 3	103	-ouo-	57	2/29/2012	NU2012_	57/2012	Printer 13 442. Kenney 10 descripted and page 19 rights re-seed on new
Keamy 10	155	PSEO.	38	4/22/2009	6/1/2012	5:1/2012	interpretation stated
Kuren (1	128	PBEG	- 40	1/22/2009		QU/2012	Keamy 11 (6)-chains and capacity rights re-read on new Visitonnessor project
Henning 15	215	PEP	38	2/28/2007_	_501/2012	7/11/2012	Serving 13 descriptions required to be a constitute.
Berning 15	276	PEP	_35	2/25/2007	5/31/2012 12/31/2014	7/17/2012	Bearing 16 seachward - 150-ked train-1002 tokes come ind.
Crawdood 6	319	1	50	.3/6/2012	12/31/2014 (00 later (hen) 12/31/2012		Reliability Assembly Company, the Impacts identified.
Field Street 19	325	ConEd		3/0/2012	(no lete(then)	1.	(Letebilly America Complyte, No Impacts Infertitled.
Grandord 7	712	ComEd	L		12/3/2014 (no leter than)	B/20thness	Refebility America Cognosia. No bitomete secondario
	1			Γ			Religibility America Company — He limpacts separated, He lightly America company — no impacts see description Sept., 2012. Previously Marched serialities appropriated as.
Vinsland 10	- 23	_AE_		_6/13/201 <u>1</u>	91/2012	2/1/2012	January Dunker 2012)
		1			i		Religion against comobia.
		1	ļ	 		l	
	ŀ	ĺ				1	Evolution on the individuation in the control of th
Amustrono 1	122	<u>_~_</u>	[62	1/26/2012	9/1/201z	9/1/2012	ronfoo - FE Control of Gracification Study Rends and Regular Magazine
' . ' . '	ŀ			1	!		Recipied a control a conspicat.
	ĺ		1		[ĺ	Michele Rie Hilling and empolish to bit resolved by June.
]	İ	'	ļ		
		ļ .	١.			İ	Obstadas, and esperator descharibes schedules Luchauses, Lieffurd descharige se action ford. San garang. FE Gatherier Doughesten Stage Results and
Managera 3	115	_ N	- 5/2	713613012	36753013	9/1/2013	Repaired Voormier.
		i	l	!			Reliability and other complete.
							Reliablic must all returned. Invests the physicand amounted is to purched by these. 2016. Install the parties of the physican area to the parties.
	l						generaline, and community departmentation achieved. Conference. Live and department as expected to the conference of th
	, '		}		1	}	one line - FE Generative Open Brailion Study Results, and Resulted Unionides. Programmilion protocol Study
Hay Shore 2	138	-ATBL	53	1/25/3012	9/1/2012	9/1/2012	Regarded Unorprises Prince Company from persons 41: Q10 menous in 10-10-10 complete for (CRS) from Reg. Second 12, 113 and 14
i .		ļ		. '		}	Italiakan anaysia semelala Imilatia kanabaland assected in the mask of he sime
	ļ: ₁			!			Provided regression and expected to be reasoned by Alexander 2016. Curities references at the restallity analysis, statuted.
	ļ	1			·	١.	SOMETHER SOLD STREET
v - '	}	1	١. '	}		1	politica. LE Constitut Constitution basis Ray da des. Regulad Linguidas. Literary de designation des. 1301 comenta do como como facilistic Cital deser Par.
BacShore 3	112	His	18	1129/2012	9117012	11/1/2012	Distriction of the state of the Control of the State of S
		٠.,					
	٠,٠	ł	ļ			ļ	Residentiv penebula complete. Practice biological and engaginal to be preparable for form. 2015.
		1 -	ļ	l		l	
		Į	l		ļ		importing, and perceive constitution according continues. United discriming as according. See continues. Constitution Constitution State Herizing and
		١٠	1	ļ .			Received Dependent Excessive section project 21.
Day Shore 4	- 215	ISTA	-12	1/26/2012	<u>P/1/2012</u>	g!1/2012	Calliforn sectors covered
	j.			Ì	· ·	ĺ	imageta identiting and many said to be reported by Area 2016. Further refrequent of the many title area between the other
	ĺ	ļ.					1900 Poble, and properties dear Emilian actionals.
Basilata d			_56	1/26/2012	9/1/2012	pritonen	confirms. Day will dream be relieved a discourse confirmed a Constitution Deposition State Constitution and Research Linear Constitution and Constitution Linear Constitution
Espilate 1	240	ATSI	*			<u>s/1/2012</u>	Rosertes Userviole. Reliablish analysis complete. Installational and expected to be resolved by time. 2016.
]	ì) ") .		Ì	
	ļ	1	1		ļ	}	
EasifeAn 5	597	_ATSI_		1/26/2012	B/1/2012.	0/1/2012	Rentifed Unormies.
· · ·						i	Little pulls and the control of the transport of the tran
·	}	1)	}	ì	i	<u>4010 </u> Further refinement of the montality analysis. Penning
	}		1	ļ:			popurties, and appearant simpleston schedule. Combons. Unit off describing the administration and companies. See properties.
Riffeld Smith 3	. 28	. AP	61	1/26/2012	g/1/2012	0/1/2012	
		Ì]	[hippeds Manified and expected to be resolved by Area
	ļ	1	1		\		turbes refreemen of the manifelt areas is insuled to provide another street in the str
R Paul Smith 4	67	AP	_43	1/25/2012	9(1/2012	9/1/2012	southern United the Employed State Original State of the Competer of the C
H PIUS SITHIN 4		1~		, Drainne	SELVAD 12	38/1/2012	Helouton University
	1		ļ .		Ì		Reitabliky Analysis complete - impacie identified -
ļ	ļ	ļ		Į.	ļ .	Į	upgrades achieoled in be completed by May 2013. Thus generator can be allowed to describe us achieoled on \$21/2012 assuming all upgrades are
Albertis S	73	APS.	.59	2/0/2012	9/1/2012		acheduled on \$1/2012 essuming all upgredes are still on track to be completed \$9 schoolsed.
	Į.	(,,	l	(Į.	(*	Remarking Angers committee bearing at 185-4
]]]	1].)	Religibility Analysis complete - imposts to milled - upgrades scheduled to be completed by May 2013.
Number 3		APS	55	2/8/2012	9(1/2012	647781	This generalor can be abound to descript he scheduled on 0/1/2012 securing all upgrades are 11/16 on 1/2012 to be completed as scheduled.
1300185.1		1 22.5	T-*	- NAME OF THE PARTY OF	- NAME	T SPECEL	•
	1		1				Rekept by Analysis complete - impacts identified - upgrades schedused to be contributed by May 2013,
l	1] :-	1.			1	Thus generator can be allowed to descrivate as actnocked on D11/2012 assumed all upgrades are
Aftelopii.)		APS.	57	2052012	9/1/2012	9/1/201	2 AUT on linksk to be completed at Achedyled.
)	j	1	1).	1	1	Rekability Analysis complete - impacts identified - upgradus achequist to be completed by May 2013.
l	ł		1 .		J .	1	upgrades scheduled to be completed by May 2013. Thus generator can be allowed to deschists as scheduled on \$/1/2012 assuming all upgrades are
Phonyse 5	_ : 35	NP3		200013	9/13012	2417201	1 till to the to be compared as stratement.
1	1		ĺ	" -		1	Reliability Analysis complete - Impacts identified - upgrades scheduled to be completed by May 2013. Thus generator can be allowed to descrivate as
<u></u>	1	1.	1			1	scheduled on 9/1/2012 assuming of oppraduction
Rheurile 6	86	1 423	.1 60	2/1/2012	9/1/2012	E 9/1/2017	21 still on track to be completed as acheovied.

GENERATOR DEACTIVATIONS¹ (84 of September 11, 2015)

		(84 01 8	eptember 1			
		Trans Zons	Aga [Years)	Official Owner Request	Augussied Dessilvation Date	Actual Deactivetion Date	A Lar A. Parallin. Chilin.
Unit	Copetily	CONTI		- ARGUERI	O PIE		PJM Reliebility Stajus Reliebility analysis complete, impacts identified and
. •		- 1	-	4/5/2012	5/31/2015		supering to be resolved by May 2015. 'On Jenuary 20, 2015 gifn owner informed PUM that unit will despituals on May 1, 2015 due to NJ emitronmental
Middle Energy Conter 1	19	^E	42	1/20/2015	V102015	5/1/2015	rules. Unit description on \$1/17015. Repairly analysis compile. Impacts identified and spected to be received by May 2015. On January 28, 2015 gan owner informed P.Ril that unit will:
]	. 1	- 1				expected to be recoved by May 2015. On Jenuary 26, 2015 gen owner informed P.M that unit will deachyste on May 1, 2015 due to NJ environmental
Middle Energy Center 2	20	AS.	42	4/5/2012 1/26/2015	. M31/2018 - S/1/2015		nder 1805 describered on \$212045
				.			Reliabity sharytis controls is impacts identified and aspectate to be resolved by May 2015. On January 25, 2015 gen owner informed P.Fel that unit sell.
Middle Energy Center 3	35			4/5/2012 1/26/2015	5/31/2018 6/1/2015		28, 2015 gen owner intorned P.M that unit will deachwise on May 1, 2015 due to NJ environmental meas, UNK deactivated on 5/1/2015.
PERSONAL PROPERTY.	- 30			14440,4_		2 82013	Reliability Analysis complete - Impacts identified
							upgrades echeduled to be completed by May 2015. On January 26, 2015 gan owner informed PJM that unit will deacthrate on May 1, 2016 due to NJ
Missouri Aye CT B	20		42	4/5/2017 1/26/2015	5/31/2016 5/1/2015	3/1/2013	und will describe to May 1, 2016 due to NU environmental rules. Unit described on 5/1/2016.
							Reliability Analysis complete - Impacts Identified -
			i	4/5/2012	3/31/2015		upgrades achieved to be completed by May 2016. On Jacoury 28, 2015 gen owner informed PJH that
Mintouri Ave CT C	20	6	- 42	1/26/2015	6/1/2015	6/1/2015	unit will descrive to may 1, 2015 due to NU - environmental rules. Unit describeted on 6/1/2015.
			- 1				Reliability Analysis complete - Impects identified -
•		. [. i	.4/5/2012	5/31/2/315		upgrades scheduled to be completed by May 2015, On January 28, 2016 gan owner informed PJM that unit wis describeds on Way 1, 2015 due to HJ
Missouri Ave CT D	20	VE	2	1/26/2015	5/1/2015	5/1/2015	emeroroomia cues. Unii deacinysted on 3/1/2015.
Hulchines i	63	_Duxion	63	_5/3/2012 5/3/2012	6/1/2016	G/1/2015 G/1/2015	Unit descrivered on \$/1/2016. Rehability Analysis Complete. No Impacts identified.
Hulchinus 2	50	Drde	63		britzu15		Rabinaty Analysis Complete, No Impacts Identified, Jung deschination on Sirvicia. No Impacts Identified, Rabinatily Analysis Complete, No Impacts Identified, Intil describing on Sci (2015). Rabinatily analysis complete, Impacts Identified and especial to be resolved by June 1, 2015. Until describation of I/IZCII.
Hutchious 3	59	Dayson	AZ.	t/11/2010 .	_ 6/1/2015	6/15/015	deschraited on 6/1/2015.
Hutchinas 5	58	Daylon	50	3/11/2013	B/1/2015	6/1/2015	Rollshilly energies complete. Impacts lebellised and expected to be resolved by June 1, 2015. Uoli descipated on 6/1/2015. Religibly energies complete. Impacts identified and
			,				ampeded to be respired by June 1, 2015. Unit
Hutchinus 6	57	DINGS	59	1/11/2013	8/3/2015	6/1/2015	depolygled on 8/1/2015.
]				6/1/2013	i -	Reliability Analysis complete - immedia identified, however intends resolved with the intendencial of projects T41 and T42 which are in-earston. Unit
Kaarny 9	21	PSEQ.	43	12010 12/1/	5/1/3015	64472014	Reliability Analysis Complete : Impacis Monitari
							and expected to be resolved in three - four years, Working with affected TO to breaks auggrede
Buroun 3	21	PSEG	4	12/1/2011	6/1/2015	6(1/2015	achedula. Unit descrivated 6/1/2015
		1					and suptitied to be resolved to three - four years. Working with affected TO to finalize upgrade
Burilosion 6	21	PSEQ	-"	_12/1/2011.	M1/2015	W1/2015	Schedule. Unit descivated 6/1/2015
	·						and expédied to be resolved in three - four years. Working with effector TO to finalize upgrade.
Nalional Pask I	21	.25E@	42		6/1/2015	. 6/1/2015	schedule. Unit descityated 6/1/2015 Retire by Analysis Complete. Infracts intended:
			٠.				and expetied to be resolved in three - lour years, * . Working With effected 7D to finalize upgrade
Mercar 3	115	PSEQ.	41	12/1/2011	- 6/1/201E	B/I/2015	schedule, Unit descrivered 6/1/2015 Reitability Analysis Compario, Impacis Manifest
							and expected to be ≀eached in three - lost years. Working with effected TO to Brieflag populate.
Sewaren 6	1)1	PSEQ	15	12/1/2011	6/1/2015	0.V7015	Reliability adalytis convolute. No Imparts with
100		-					Capacky intercorrection rights re-used in intercorrection projectie) 7107, XI-004, and for YI- 019, Unit deactivated on \$517015.
Eseck 12 (#121)	46	<u>⊅86</u> /2		10203012	200000	ensore	019, Unit described on \$115515.
	1						Robabity snalysts complete. No impacts with Capacity interconnection rights re-used in Interconnection project(s) T107, X3-904, and for Y2-
Eusex 12 (#122)	-40	. Pago.	-11	11/20/2012	50,020,5	9/1/2015	Butte bit y engine is consiste. No topped with
	1	ì	}	ľ		ነ	Capacity interconnection rights re-used in interconnection project(s) 7107, X3-004, and for Y2- 018, Unit describered on \$1/2015.
Essex 12 (#123)	10	PSEQ	-11	11/20/2012	5/31/2015	4/1/2015	Bulletithi mashala sametais. Na laurusta mith
		١.					Capecity Interconnection rights ra-used in interconnection project(s) (107,303-064, and for Y2-
Esaex 12 (#124)	48	PSEQ		11/20/2012	\$f31/2015	0/1/2913	010, Unit descirated on \$117015. Renability energysts complete, impacts identified and
Buildesion 11 #111	148	PSEQ	49	.:1(11/2013.	6/1/2015	6:1/2013	superclad to be resolved by June 1, 2015. Unit descripted on 6/1/2015.
							Reliability energies complete. Impacts identified and
Burboston 11 #112	16	PSEQ	.40	W1W2013_	6/1/2015	5/1/2015	opported to be resolved by June 1, 2015. Unit deschassed on M1/2015. Reliability analysis complete. Impacts identified and
Burbosion 11 ' #113	. 46	PSEQ	40	1/11/2013	6/1/2015	D/1/2015	Reliability analysis compares impects interested and expected to be resolved by June 1, 2015. Until disactivated on M1/2015. Reliability enalysis complete. Impacts Stantified and expected to be resolved by June 1, 2015. Until Advantaged by M1/2015.
	,		-			:	Reliability analysis complete. Impacts Identified and expected to be resolved by June 1, 2015, Unit
Budheron 11 Fi14	- 40	PSEQ	. 40	1/11/2013	6/1/2015	IV1/2015	Reliability enginess complete, impacts identified and
Edion 1 711	42	PREG	· 41	1/11/2013	6/1/2015	8/1/2015	expected to be resolved by June 1, 2015. Unit describered on 6/1/2015. Reliability analysis complete, impacts identified and
160ron 1 312	12	PSEG	١,	1/11/2012	8/1/2015	ยำเรอาธ	
		Ι.	Ī		i		deachive on \$17,015. Reliability analysis complete, impacts identified and expected to be resolved by June 1, 2015, Unit
Edison 1 F13	. 42	ESEQ		1/11/2010	6/1/2015	W1/2015	expected to be resolved by June 1, 2015, Unit describered on \$117015, Reliability effects correlate, Impacts identified and
Edison J \$14	42	PSEG	L.	1/1/2013	. N/1/2015	6/1/2015	expected to be resolved by June 1, 2015. Unit deschaled on M152015. Reliablely enalysis complete. Impacts identified and
Edison 2 1921	12	PREG	41	_1/11/2010.	N/1/2015	6/1/2016	Invested to be resolved by June 1, 2015. Unit
							descrive ted on St \$2015. Releability analysis complete, Impacts identified and expected to be resolved by June 1, 2015. UNIL
Edison 2 #22	12	PREG	11	_W19/2013	_6(10015	D/172015	description on M1/2015.
Edison 2 #23	12	PAEQ	11	_1/11/2013	B/1/2015	W122015	expected to be resolved by June 1, 2015. Unit descitypisti on 5/1/2015. Religibility energies complete. Impacts identified and
Edition 2 124	· ' (2	PSEQ	- 11	. 1/11/2013	6/1/2013	6/1/2018	arguetted to be resolved by June 1, 2015. Unit
	· "					ļ.	Seatthe(ed on 6/1/2015. Reliability analysis complete. Impacts stantified and expected to be resolved by June 1, 2015. Unit
Edison 3831 .	42	PSEQ	53	1/11/2013	6/1/2015	N/I/2015	Reliability enalysis complain. Impacts identified and expected to be resolved by June 1, 2015. Unit identified on MIZO15.
Edison 3 #32	12	PSEQ	11	1/11/2013	6/1/2015	0/1/2015	appected to be revolved by June 1, 2015. Unit described on 6/16/015. Resulptity enalysis compiles. Impacts stonshed and aspected to be resolved by June 1, 2015. Unit
Edison 3 #33	12	Leseg	41	1/11/2013	6/1/2015	6/1/2015	expected to be resolved by June 1, 2015. Limit descrivated on 6/1/2015.
	— "						descripted on 6/1/2015. Related By Analysis complete. Impacts Identified and expected to be resolved by June 1, 2015. Unit described on 6/1/2015. Related by analysis complete. Impacts Identified and
Edison 3 #34	1 12	PSEG	-11	_1/11/2013	6/1/2015	5/1/2015	
Essex 10 . #101	42	Paga	_4	1/11/2013	NW2015	EV 1020 II	expected to be resolved by And 1, 2015. Unit deschalet on \$1/2015. Referribly analysis convolute, impacts transferd and
Essex 10 #102		PSEQ	- 0	1/11/2013	N/1/2015	9/1/2015	expected to be resolved by June 1, 2015, Unit
7.00		1		i			desciveled by 6/1/2015. Reliability analysis complete. Impacts identified and expected to be resolved by June 1, 2016. Unit
Essax 10 #103	42	PSEG	1	1/11/2013	6/1/2015	0/1/2013	Delah IV statusis portrials (mostly klantifed and
Essb 10 #104	1 4	PSES	-4	1/11/2013	\$1/3016	(3/1/201)	
Essex 11 - 2511		PSEQ		1/11/2013	6/1/2015	6/1/201	expected to be resolved by June 1, 2015. Unit .
		T-					Reliability analysis complete. Impacts identified and
E889X11 #112	- 55	PSES	نب	1/11/2013	5/1/2015	5(1/201)	Signotivitied on 6/1/2015. Rollsbilling enalysis complete. Impacts (donlined and supertied to be resolved by June 1, 2016. Unit
	45	PSES		1/11/2013	6/1/2933	5/1/201	superized to be resolved by June 1, 2015. Unit 5 description on 6/1/2015. Reliability analysis complete. Impacts identified and
Estax 11 - 0113		1	٠.	1/11/2013	8/1/2015	6/1/201	
					GE 184V) D	W14201	Refubility Analysis complete - impacts Maniford -
Essec 11 1113		PSES	Т	T	İ		upperades echequied to be completed by June 2016
	23	Γ.	5		B/1/2015	5/1/291	Retaining Analysis complete impacts Manifest a
Emec 11 #114) NEI	Ι.	3/22/2012	8/1/2015 8/1/2015	6/1/201 6/1/201	Retability Analysis complais - impacts identified - properties acheduled to be complained by June 2016.
Expecti Fild Ginch River 3 Glenian 5	23	AE!	50	3/22/2012	5/1/2015	E/1/201	5) Unit dejactivates on the IVOID. Reliability Analysis compaise - impacts identified - appeades acheduled to be completed by June 2016. 5 Unit deptilization on 6/1/2015. Reliability Analysis complete - impacts identified - appeaded by June 2016.
Essex 11 #114 Glinch River 3	23	AE!	- s	3/22/7012 3/22/7012			5) Unit objectivelets on the IV(015). Reliability Amelysis complaise - impacts identified - upgeades scheduled to be complaised by June 2015. 5 Unit depthylated on 61/1015. Reliability Amelysis complete - impacts identified - upgeades scheduled to be complained by June 2015.

GENERATOR DEACTIVATIONS¹

				OR DEACT											
11011	Caracii.	T/ana Zona	Age (Years)	Official Owner Request	Requested Dazelivelion Date	Actual Descrive tion Date	P.Int Suitebillio Stano								
in in the second	Capaçily	4974	eeta)	Annihadi	Dele	Osle	P tel suggesting status. Reliability snatysis compalie. Impact identified and opposed a percent of your status of 2018.								
Weller G Restlord O13	47	DEOK	12	0/26/2014	12/25/2014	12/31/2011	Coording measures will be utilized in transmit period. Unit expected to deactivitie as scheduled. Pulphylin, controls councilly, broad provided and								
Walter C Backlard GT4	42	DEOK	42	9/26/2014	12/26/2014	12/36/2014	upprede expected to be completed by and of 2016.								
Kinster Landta	: 14	PSEG	28	9/16/2014	12/31/2014.	12/31/2014	Um supposted to description a schooling. Ratistry enables complete, the impacts bounding. Unit supposts bounding. Ratistry Amelysis complete. Impacts bounding. Ratistry Amelysis complete. Impacts bounding.								
	, ,			120013	estants .		ASAP, Puni strekating andecis of inequalities describelion. No impacts identified with instruction								
Cadar 1	4	- AE		1/20/2018	4/20/2016	1/28/2015	SONGINAROS VINI SONCUMINO OS 1/25/70 (3-								
ļ			• .	· ·	.		Reflebility grafyers complete, Impects bigatified and expected to be resolved by June 2018. Further relatement of the reflebility analysis, required								
							Further rg brament of the peliability analysis, hecolood loopedes, and generator deschasion solepchie continues. Unit will continue to operate as upgrades to varientission system are constructed - as smalled \$8.								
Ashiabula 5	244	ATSI	53	1/26/2012	9/1/2012	4/11/2015	June 1, 2015. Sed posting - FE Generalor Description Study Results and Regulary Upgrades. Until Sectioned on 4/11/2015.								
			<u></u>												
		ĺ					Reliability analysis complete. Impects liber/Med and expedied to be resolved by June Table								
	١.			ŀ	į		2016, Purcher reflection of the relicibility analysis, required upgrades, and generator describilities echedule								
				Ì			Purmer inhamitient of the injudently analysis, including Ungoriedae, And Queenstand openitions exhaulting Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Annex 1, 2015. See position of the Commission of the Commission Duby Plassable and Recognical Upgraduae, J.P.M. Gelemmand, Part Essables 1 "All no Longo the supporting for reliability reasons (EMIN) since of tricgolds. See 2016/2014 "TAMO And Essables 1" Analysis of the Commission of the Commission of the Analysis of the Commission of the Commission of the Commission of the Analysis of the Commission of the Commission of the Analysis of the Commission of the Commission of the Analysis of the Commission of the Analysis of the Commission of the Analysis of the Commission of the Analysis of Analysis		Į,		:				Part Eastlate 1 will no longer be required for reliability ressors (RMR) after 0/15/2014. See 2/15/2014 TEAC
):		Ì	******)·	Energy Prot Editiate 1 will continue to operate part the								
Eastleks I	132	ATSI	58	1/24/2012	9/1/2012 4/15/2016	4/0/2015	September 15, 2014 description data, und April 15,								
· .	1)	Ì]		Reliability analysis complete.								
		ĺ		((Reliability analysis complete, impacts identified and expected to be resolved by June 2016.								
					ĺ		2018. Fulfilir caling/math of the mightality scalepits, tequired upgrades, and patienter depolaration schedule continues. Until will continue to operate or upgrades to temperature system are constructed, as lambied fill								
	:	ļ		ĺ			iraneniyasian ayalon are construction; as kendid St. Atha 1, 2016. See jog log - FE Generalor Descharison, Study Revalla And Truppand Mayarden. 2 All Geleronias of Revalla And Study Revalla And Truppand Mayarden. 2 All Geleronias Stat Esufata 2 will no bargar be englated for inhibiting reasons (IMAR) of the Official See 2 (1820)41 TEAC Meeting (Residuality Analysis emiredels dated 2/12/14).								
						,	Itel Eastleke 2 will no longer be required for reliability reasons (RMAR) star 9/15/2014. See 2/15/2014 TEAC Mosting (Resability Analysis transdels dated 2/12/14).								
ļ]	[,	81372013		Energy that Est lists 2 will continue to operate past the September 15, 2014 described on date, will hard 18.								
Spallake 7	132	AZRI	54	1/26/2017	4/15/2018	58/2015	1015. So a mail to basis. Und description on 4/0/2015.								
				[Rollensky analysia complete								
				1			Roll-bijky analysta sprespiote Impacts identified and expected to be resolved by June 2018. Eurifier refinement of the reliability snelysta, required								
		}			ļ		uppredex, and generator its activation schedule								
							communa, Lori via condesse to operate as upprache to premarishe system de constituted a satinguled \$1 June 1, 2015. See posting - FE Constitute Danctivetion Skely Results and Required Uppraches, Public Seterminad \$41 East Set & 3 will no konger be required for initiability.								
		1]	ļ	' '	If the Earders 3 will no longue the required for milebility reasons (RIAA) share 3/15/20/4. See 3/16/20/4 TEAC- Meeting (Restability Australia materials dated 3/12/14). On August 22, 2014 P.M. received a notice form First								
		i.			9/1/2012 4/15/2015										
Epullaka 3.	<u>نۋا</u> ا	L. ATSI	<u>.</u> 47	. t/26/2012 :	4/(5/2015	4/10/2015	2015, so a magical balile. Unit sear Division on 4/10/7015.								
- '						i	Avilability analysis complets, impects intentitied and expected to be resulted by June 2018.								
		· '					r-printer colongment of the reliability scelents, specified upphedes, and generator deacthwhen schedule confines to countries as speciated in								
			ļ.			. "	kentmission system are constructed a sultimeted till Juhe 1, 2015. See posting - FE Generalor Calcilletion. Such Rendle and Rendered November - Sitt determined								
}		,]		: :	that Lake Shore 18 will no longer be required for a selection of PARTIES.								
[1		, i	TEAC Meeting (Reliebility Analysis malerials disled) 2/12/14). On August 22, 2014 PJM received a notice from First Energy that Lake Shore 18 will concrue to								
Lake Shore 18	245	AISI		1/25/2012	0/1/2012 4/15/2015	-W13/Z015	inpm First Energy that Lates Shore 18 will congrue to operate past the September 16, 2014 description date, until April 15, 2015, on a market balds. Unit deactivated on ALINZO15.								
WA County 3	251	Comed	32	8/22/2013	4/15/2016	4/15/2015	Reliability analysis complete. No longests identified, Unit descripted on 4/15/15.								
			, ,				Reliability analysis complete. Impacts identified and expected to be resolved by May 2015. Unit.								
Office CT_C1	- 23	KCP	-12	1/32/2013	8/1/2015	5/1/2015	descrivated 5/1/2015. Reflability analysis complete, impacts identified and opported to be resolved by May 2015. Unit								
GENERAL C.L. CZ	26	co.	42	1/22/2013	5/1/2016	- Selegous	Reflected to be resolved by May 2015. Unit desclinates of 1/2015. Reflecting analysis complete, impacts identified and supected to be resolved by May 2015. Unit								
Giberi CT C3	26	ICPL	42	1/2/22013	5/1/2015	6/1/2015	depolitre and 6/1/2015								
GROWLET CI.	25	ICPL	12	1/22/2013	5/1/2016	£10015	Reliability analysis complete, impacts identified and expected to be restrived by May 2015. Until descriptions of 1/2015.								
	. 1					٠.	Refebility Analysis complete - impects identified -								
Otro Groder 57 *		JCPL	40	2/29/2017	5/1/2015	Espina.	upgrades and operating procedures expected to be an place by May 2015 to allow generators to								
Glan Gardner CT 1	20	************************************	1º 	-02W2017	311/2/13	- ×1/2016	descivere as esheduled. User descivered of 172015. Rotability Analysis complete - impacts Montifled -								
Glan Gardner CT 2	20	JGPL.	12	2/20/2013	3/17/015	Selenter	upprades and operating procedures expected to be in piece by May 2015 to above generators to describe as solvedured. Unit describe led 5/1/2015.								
Glen Gerdour ST 2	-	-	" [*]	ALTERNIA		- F14V13	Registriffy Analysis complete - Investis Marsified -								
Gran Gardner CT J		JCPL	- 40	2/28/2012	5/1/2015		uppiedes and operating procedures expected to be in piece by May 2015 to allow generators to conclusive as achorbled. Life described \$172015.								
	-						Regabliky Analysis complete - Strongs Standfed -								
Gen Gerdner CT 4	20	JCP1	10	2/29/2012		S:1/2015	upgradus and operating procedures especial to be in pieco by May 2016 to allow generators to specifically as a checking the light description of \$112015.								
)	}	' '	Reliability Applyals complete - Imports Manifest -								
Dign Gardon CLS.		M.E.	_10	_2/29/2012	511201S	5/1/2015	upgrades and operating procedures expected to be in place by May 2015 to allow generators to describe as approximated. Not straction to 5/1/2015.								
] [ŀ.,.	}]		Relability Analysis complete - impacts identified - upgrades and operating procedures expected to be in piece by May 2016 to allow generators to								
Gran Gardner C1 5	70	LICE	- 40	2/29/2012	5/1/2015	5/1/2015	descivate as achedyled. Unit deactivated 6/1/2015.								
			ĺ	·	1		Religibility Analysis complete - impacts identified - upgradus and operating procedures expected to be in place by May 2016 to allow generators to								
Glen Cardner CT 7	20	J.C.P.L	40	2/39/2012	5/9/2015	5/1/2015	descivels as scheduled. Unit descibated 5/1/2015.								
			ļ		1 .		Religibility Analysis complete - impacts identified - upgrades and operating procedures expected to be in place by May 2015 to allow constitutes to								
Olen Cardiner CT.S.	20	L-CPL	40	2/28/2012	5/1/2015	5/1/2015	opprove and operating procedures exposed to be in place by May 2015 to allow generators to the designate as actuabiled. Unit identification 5/1/2015. Reliability analysis compiles. Impacts identified and								
VVAINAL GT. CI	51	Ke.	- 10	1/22/2013	\$/1/2015	5/1/2015	expediatio be resolved by May 2015. Unit								
yyarner CT_C2	53	,cp.	10	1/22/2013	5/1/2015	S11/2015	Rollability enalysis complete, impacts identified and expected to be ratiohed by alley 2015. Unit description of 17215.								
Weiner CY : Co	53	ке	10	1/32/2013	5/1/2015	\$1/2015	Reliability analysis complete, impacts identified and appealed to be resolved by May 2015. Unit deschalled 5/1/2015. Reliability analysis complete, impacts identified and								
WHIRE CI.C4	63	JCPL	40	1/22/2013	6/1/2015		Reliability enalysis complete, impacts identified and onpocied to be resolved by May 2015. Unit deactors led 5/1/2015.								
							Returning Analysis complete - impacts lossified -								
 .			1	4/3/2012	5/21/2013	ļ ,	On January 26, 2015 gen owner Mormed PJM that Unit will describe on May 1, 2015 due to NJ								
Cader 2	22	AE		1/26/2015	5/1/2015	\$47.7015	nowmomental nees. Unit descripated on 6/1/2015.								

GENERATOR DEACTIVATIONS¹ (as of September 11, 2015)

			(ne of 8	laptember 1			
		Trans	Apr	Ontale Owner	Descilvation	Actual Ongaliyation	
<u>Unit</u>	Capacity	Zone	(Years)	Request	Oale	Onte	PJM Reliability Status
Kentings 3	200	AEE	63	3/22/2012	6/1/2015	arr/zois	Reliability Analysis complete - impects identified - upgrades scheduled to be completed by June 2015. Unit described on \$1/2015. Reliability Analysis complete - impects identified -
Name of the last o		/-			W INVIOL		Reflebility Analysis complete - Impacts identified - upgrades scheduled to be completed by June 2015.
Kentrha River 1	200	ARP	. 58	3/22/2012	6/1/2015	6/1/2015	uppresent schedules to be completed by sure 2015. Unit deathy Analysis complete - impacts identified - uppresent scheduled to be completed by June 2015.
Kenesha Rhe(2	200	AEP	58	3/22/2012	6/1/2015	6/1/2015	upgrades scheduled to be completed by Ame 2015. Unit descriveted on 6/1/2015.
							Updrafes scheduled to be completed by June 2015. Mrt deadthyleid on M (1/2015. Babbaithy Analysis complete - impacts stansited - upgrades achedided to be formplated by Aurie 2018. Unit deachthyleid on M (1/2015. Bathaithy Analysis complete - impacts islandied - upgrades achedided to be completed by June 2015. Init deachthyleid on M (1/2015. Bathaithy Analysis complete - impacts islandied - upgrades achedided to be completed by June 2015. Init deachthyleid on M (1/2015.)
Musilinaum River I	.190	ARP	50	3/22/2012	6/1/2015	G/1/2015	Unit descrivered on \$1/2015. Reflective Analysis complete - Impacts issuafied -
Musikingumi River 2	190	AEP	57	3/22/2012	6/1/2016	6/1/2015	upgrades scheduled to be completed by June 2015, Unit description 5/1/2015.
	205	١					ung need acrossed to be conjected by June 2015. Helati ity Analysis complete - Impacts Identified - uppredies acrossoped to be completed by June 2015 Link depathed on BV 12015. Reliability Analysis complete - impacts identified -
Muskhoum Rher 1	203	AFE	-54	3/22/2012	6/1/2015	- CINSOIS	Unit deschreted on N 1/2015. Reliability Analysis complete - expects Manifest -
Muzkingum River.4	205	, AEP	53	3/22/2012	643/2015	6/1/2015	upgrades scheduled to be completed by June 2015 Unit denotivated on M 1/2015 Reliability Analysis complete - impacts identified -
Picway.5	os es		56	3/22/2012	R/1/2016	6/1/2015	upprodes acheduled to be completed by June 2015 Linit deached on 8/2/015
		Ī.	1				upgrades acheduled to be completed by June 2015 Unit disactivated on 8/1/2015. Reliability Analysis complete - impacts bisnifited - upgrades acheduled to be completed by June 2015 to the completed by June 2015 to
500/0.1	145	AER	62	. 3/22/2012	6/1/2016.	o uzots	Reliability Analysis dotropics - Impedia identified -
9 por 2	145	AEP	81	3/22/2012	b/1/2015		uppredes scheduled to be completed by June 2015 Unit describeled on 6/1/2016.
F							Unit deptheled on \$1/2015. Reliability Analysis complete - impacts identified - oppmales scheduled to be completed by June 2015. The deptheled on \$1/2015.
S200 T J .	115	_AEP	50	3/22/2012.	6/1/2016	. 6/1/2015	Constitution of the last of th
Section	145	· AFP	60	3/22/2012	. : N1/2015	0(1/2015	upgrades scheduled to be completed by June 2015 Unit deacthrated on 6/1/2015. Reflet/By Analysis complete - Impacts Identified -
	145		. ا	3/22/2012	6/1/2015	. 6/1/2016	represent entitles to complete - transcal identified - upgrades acheduled to be completed by June 2015
Tenner Circle 1		ACP.	. "	3/2/2/2012	- 9CH ZO15	WHZU1E	Reflect By Analysis complete - Impacts identified -
Tanyler Creek 2	146	AEP	59	3/22/2012	6/1/2016	6/1/2015	Retief My Analysis compile a tropects identified upgrades behavior to be compiled by June 2016 Unit disapplysis of m 6/1/2015. Retief My Analysis compiler a tropects identified upprades scheduled to 6/1/2015. Retief My Analysis compiler a tropect identified upprades scheduled to 6/1/2016. Retief My Analysis compiler a tropect identified a tropect identified to 6/1/2016. Retief My Analysis compiler a tropect identified a tropect identified and formation and
Tanger Clask J	198	AEP	57	3/22/2012	6/1/2015	6/1/2015	upgrades achedyled to be completed by Aria 2015. Uhit descrivated on 6/1/2015.
Taggas Strang					4 / 44 /		Reliability analysis complete. One impact identified
Aug Kingum River 5	900	١		10/11/2013		5/1/2013	Reliability analysis complete. One impact identified Opprase expected to be completed in 2nd quarter 2015. Unit can describe as planned. Unit Parcitical on 8/1/2013.
MUSEUM RIVERS		. AEP	13	10/11/2013	PURGIS	8/1/2013	Refieldity analysis complete. One known kleatfield
: '	ļ						Upgrade expected to be completed in 2nd quarter 2015. Unit can descrive as planned. Unit -
Yarriers Creek 4	500	AEP	10	10/11/2013	6/1/2015	5/1/2015	000CIN4100 00 O U2016
	ĺ			-			Retabliky analysis complete. Impact identified and upprade expected to be completed 2nd quarter
		ĺ.					upprade expected to be complified 2nd quester 2016. Operating measures will be utilized in interim period. Unit expected to deacthrate as echedulari.
Ho sandy 2	800	NEP	11	_1/21/2014	N1/2016	6/1/2015	Unit descriptied on M1/2015.
Lexe Shore EMO	ا. ا	ATSI	48	1/5/2016	4/16/2016	4/15/2015	Reliability analysis complete. No impacts identified. Note: until to 4 MW of energy and 0 MW capacity. Unit descovated on 4/15/2015.
						4/16/2015	Reflective analysis complete. No impacts identified. Unit description on 4/16/2015.
Cole 1	23	EXPG	Sp	3/27/2014	4/15/2015	5/16/2013	one description of 4/15/2015. Rollstifty analysis complete. No impacts identified. Unit describesed on 4/18/2016.
Quit,3	. 23	EXPC	.50	3/37/2014	1/15/2015	4/15/2015	
.:		İ					Reliability enalysis complete. Impacts identified an upgrades expected to be completed by 2nd quarter of 2017, Interim operating measures will be utilized
Mani Fori 6	163	DECK	54	12/19/2014	M1/2015	0/1/2015	of 2017. Interior operating measures will be utilized in interior period. Unit describated on \$1172015.
		'.					
							unorades expected to be completed by 2nd quarter of 2016. Yemporery operating measures will be
Lake Kioomea	115	DOM	26	2/2/2016	5/3//2015	6/19/2015	Reliability analysis complete. Impacts identified and represent supersed to be completed by 2nd quarter of 2016. Yempower operating measures will be utilized in inform period. Unit expected to descrivat as scheduled. Unit described on 5/19/2015.
	1)	ì '				an accessory of the second sec
		Ι΄.		Ì	ľ	İ	In place by May 2015 to allow generators to
	١.]:		f	ŀ		the re-use of CIRs. Shewrife and in update notice that unit will continue to operate unit engreedments.
Shewrite	122	Pagens.	57	. 2/29/2012.	4/16/2015	£/12/2015	May 31, 2015 to burn down existing cost ols. Unit deathrated on \$12/2015.
30.0							Reliability Analysis complete - Impacts identified
		i		٠ .	!	:*	Paradistry Analysis complete - Impacts identified - upprades and operating procedures expected to les in pilote by May 2015 to although operations to descitate as scheduled, Shawelle 2 considering the areas of CRE. Shawelle as ent in spotate notice that will continue to operate until appropriately.
							the re-use of CIRE, Shawdte sent in update notice
Shawalla 2	125	PenElec	.56	2/29/2012	4/18/2015	0/14/2015	described of Charles
							Selection and the server is a selection of the selection
	l] i			in place by May 2015 to allow generators to
•	¨			[-		!	the re-use of CIRs. Shawate sent in update notice
essubile 1	174	Panties	١,,	2/29/2012	4/16/2016	6/7/2016	May 31, 2015 to burn down existing coal pile. Unit describeted on 67/2015.
Shawrife 3	"			2.00.4014	11174018		Callaboration of the same below the case be saided
			a:				mand my charges companie a espacio servinere uppredes nel openitari groccione a appellodi lo lo in places hy delay 2015 lo silow generatora to descributa se schooldred. Spended a considering Dia re-ves of CIRA. Simelfille tenti in operate notice had sont sel consideratio to operate until approximately May 31, 2015 to born down stating coappia. Unal describación on 90020015.
•	[. ·						the re-use of CIRs. Showlife tent in update notice
es audio 4	,,,	Pentiks.		2729/2012	4/15/2015	- Alabore	May 31, 2015 to burn down existing coal pile. Und
Shew/Alla 1		- PUCKE		ALEGICAL S			
	[Reliability analysis complete, impedie blentified, Upgrades und inferim operating measures appeded to be completed in 2nd questre 2017. On 64704. AES Beaver Valley submitted an updated diseativation notice for W12015. New reliability analysis complete, impacts identified, Upgrade for solid field in the basic arcondit literature.
							AES Beaver Verley submitted as updated
							analysis complete. Impacts identified. Upgrade
				11/14/2013	6/1/2017	-	anelysis complote. Impacts identified. Upgrade Identified (exalling baseline upgrade) that needs to be accelerated. Interim Operating measure Identified. Unit dee deacthrate as schooled on 9(1)(2015, Junit deacthrate on 5(1)(2015.
AES degrer Valley	30,913		25	MI/2015	9/1/2015	8r1/2015	9/1/2015, Link deactivated on 9/1/2015.
TOTAL DESCRIPTION	24,313						

NOTE (1): This Set includes retirements addressed as part of the PJM retirement process started in 2003. The Set does not include generators retired prior to 2005.

1991

Table 10. Supply and disposition of electricity, 1990 through 2013

Ohlo

magendour

sols

datesty

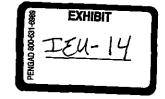
2011

2012

2003														l									
Generation																							
Electric utilibles	86,763,825	75,183,893	\$5,006,349	95,198,096	93,919,609	98,396,809 100,	100,536,445 98,	98,159,139 102	102,750,838 142,	142,305,499 139,00	339,086,083 139,904,106		174 144,358.	306 140,912,1	135,484,174 144,358,306 140,912,140 146,448,159 141,248,874 142,900,353 137,860,132 129,020,582	141,248,874	142,900,353	137,860,132	129,020,582	133,735,428	133,735,428 136,296,552 132,693,706 126,509,819	21 902,869,51	6,509,879
independent power producers	46,925,305	52,432,142		49,722,340	40,775,148	53,646,205 53,	53,365,757 55,	55,635,704 52	52,817,248 4,	4,699,059 6,14	6,123,736 6,421,090	000 5,242,390	390 3,156,854	0 159	•	۰	4,880	4,762	2,950	6,544	6,613	8,813	8,813
Combined heat and power, electric	538,679	529,558		651,983	472,428		350,043	121,877	327,753	315,134 32	381,549 302,029	(029 267,985	985 274,511	511 117,106	261,251 30	44,111	48,770	19,979	1,304,994	26,093	32,738	29,462	32,016
Electric power sector generation subtotal	136,227,809	128,145,593	134,452,052	142,572,419 135,187,185 252,340,663 1	35,187,185	7,340,663 154,	154,252,246 154,	154,115,720 155	155,295,839 147,	147,323,692 145,59	145,591,418 344,627,226	,226 240,994,549	549 147,789,570		141,029,246 146,603,354	141,292,985	142,954,004	11	130,328,526	133,768,065	136,336,104 13	21, 28,957,581	126,550,659
Combined heat and power, commercial	185,303	282,651		٥	0	Đ		0	149	9	6,045	19,765	617,1	719 3,436	36 50,934	53,273	45,842		55,964	64,222	74,800	566,89	87,069
Combined heat and power, industrial	870,578	1,317,487		1,025,918	909,040		903,300	1,117,355	1,080,335 1,	1,022,053 1.04	1,040,665 434,145	-	-3	892 1,297,749	49 1,285,771	1,464,988	1,437,369	1,425,403	1,379,118	1,405,004	1,248,823	1,230,522	1,342,799
Industrial and commercial generation subtotal	1,056,380	1,600,138	1,133,753	1,025,918	903,040	1,071,588	903,300 1,	1,117,355 1	1,080,483 3,	1,022,233 1,04	1,046 710 441,624	,624 1,267,261	261 1,270,611	611 1,301,185	1,336,704	1,518,262	1,463,211	1,459,030	1,435,062	1,469,126	1,323,622	1,307,517	1,429,865
Total net generation	137,284,189	129,745,731	135,585,304	143,598,337 15	136,090,225 15	153,412,251 155,	,281 515,245 155,	155,434,075 156	156,976,323 143,	345,905 146,6	×	÷	10 149,060,	N 142,330,4	149,060,211 142,330,431 147,940,058	142,811,247	144,437,215 159,343,903	139,343,903	131,753,609	182,752,251	137,661,726		127,960,527
Total International Imports	: 0	•	•		3,977	٥	361,043	\$44,370	48,507	2,628	2,067	911	•	۰	0	•	۰	۰	•	•	٥		•
Total supply	127,284,189	129,745,731	135,585,804	143,598,337 136,094,197	16,094,197 13	153,412,251 155,	155,516,593 156,	156,278,445 157	157,025,130 143,	343,733 146,6.	145,445.73 146,640,155 147,046,600 144,251,100 145,040,031 147,940,035 142,811,247 144,457,215 159,444,605 131,746,605 135,746,606 145,277,100 137,641,775 134,014,499 127,840,527	960 142,251,1	tip 149,060,	281 142,530,4	11 147,940,058	142,811,247	144,437,215	139,343,903	131,763,609	135,237,291	37,661,726 11	4,036,499 12	7,980,527
Disposition																							
Rerall sales										,								٠	٠				
Full pervice providers	56,930,034	71,872,778	55,397,902	105,176,986 1	33,195,256 14	17,463,715 148,	928,135 140,	258,856 133	133,460,651 126,	11,721 77,705,321	27,113,763 132,970,645	545 144,433,041		uso 164,270,6	161,003,446 164,270,662 159,793,176 158,508,094 158,587,317 158,625,446 154,376,709 148,570,665 145,016,444 145,659,320 142,465,472	158,506,094	158,587,337	158,625,546	154,376,709	148,570,665	45,016,464 14	5,658,320 14	2,465,472
Energy-daily providers	53,153,633	80,473,134	66,348,400	48,313,521	12,552,526	48,813,621 12,932,626 11,756,860 12,842,642 13,169,988	842,642 13,	169,955 21	76,713,632 27.	27, EE1, 805 24.94	24,540,157 20,436,453	6,453 11,359,673	78E,101,4 E78	161	168		٥	۰		٥	•	۰.	0
Facility direct retail sales	173,422	160,952	**	152,811	148,911	168,232	•	٥	٥	131,832 13	130,318 189,329	329		٥	۰	•	۰	۰	•	•	۰	٥	٥
Total electric industry retail sales	150,307,087	152,456,864	154,746,310	154,145,418 146,295,793 159,388,807	16,285,793 1.		161,770,827 153,	153,428,844 160	160,176,303 154,	154,221,114 152,189,235	89,235 153,596,427		14 165,194,	157 164,270,8	155,797,714 165,194,857 164,270,830 159,793,176 158,506,094	158,508,094	158,587,337	24,625,546	158,587,337 158,625,546 154,376,709 148,570,665	149,570,665	145,015,464 145,658,320 142,485,472	5,658,320 14	2,465,472
Sincian	3,529,545	366,436,	266,695,1	095'925'5	570,75	223,224	*******	256,076	3,254,365	West and the	000'096's \$150'096's	100'9EN'T. (0C)	265 A 1,614,592		1,276,335 1,435,236	15/6252	5'x36'X'	1,444,722	E32,852,5	1,455,428	1,313,622	1,307,513	1,429,869
Total International exports		•	٥	a	•	•	55,197	225,034	396,514	67,940	13,740	1,902	۰,	0		۰	•	-	۰.	0	•	•	•
Estimated losses	8,186,233	8,393,134	5,693,717	9,523,543 9,312,887	9,312,887	30,155,872 30	10,238,876 9,	9,948,153 10	10,705,501 11	11,300,706 11,1	11,124,971 11,521,211	126,283,921	921 12,849,396	395 12,887,396	96 11,362,526	11,951,025	12,309,817	12,107,132			11,464,099	11,154,344	10,816,092
Nat Interstate trade	-24,581,566	-34,957,108	-30,972,564	-22,566,386	21,505,163	02- 195'079'61	1217,486 -14	7 100 299	1,895,152 -24	972 - 126,828,	-22,586,286 -21,205,15 -19,470,567 -20,217,486 -14,662,304 -21,895,152 -24,858,312 -13,610,665 -13,901,099	0000 -30,160,840	540 -36,142,111	111 42,367,776	76 -30,541,752	-34,842,360	-33,699,352	19,100,400	41,379,087	-32,152,196	25,527,168	-25,106,323	-31,620,437
Total disportion	137,224,189	129,745,731	135,585,804	143,598,337 1	16,094,197 1.	53,412,251 155	S16,593 156	278 445 15	7,025,130 149	346,733 146,6	40,185 147,068	,960 142,261.	\$10 169,050,	281 142,330,4	142,261,810 149,060,281 242,330,431 147,940,058 142,811,247 144,437,215 139,343,903 131,763,609	142,811,247	344,437,215	139,343,903	131,763,609	115,217,291	137,661,726 134,036,499 127,980,527	14,016,499 12	7,960,527
Net trade index [retio]	6.0	0.8	970	6'0	3	6.9	6.9	6.0	60	679	0.9 0.9	0.9	0.8	0.8	3.6	25	8	8.0	60	80	80	20	3

Eaching Direct Ratual Sales are electricity takes from non utility power producers which reported electricity sales to a retail customer.

Net Interstate Trade * Total Supply - (Total Sector Industry Retail Sales + Direct Use + Total International Suport



FUTURE DEACTIVATIONS (as of September 11, 2015)

···	T		$\overline{}$	Official	Requested	Projected	}
11-24	Capacity	Trans Zone	(Years)	Owner Request	Deactivation Date	Deactivation	PJM Reliability Status ¹
Unit	Capacity	Zone	(Tears)	Request	Date	Date	For Renability Status
	\ \	İ	1	{	ļ	}	
				1		12/31/2014	service until March 31, 2016 to support transmission outages in
Yorktown 1	159	DOM	54	11/15/2011	12/31/2014	3/31/2016	area to install needed upgrades.
				į			
							Reliability analysis complete. No new reliability impacts identified. Previously identified baseline upgrades are still needed. Unit will
						12/31/2014	stay in service until March 31, 2016 to support transmission
Yorktown 2	165	Dom	53	10/11/2012	12/31/2014	3/31/2016	outages in area to instail needed upgrades.
	1 {			- {			No reliability impacts - with request to transfer CIRs to Y1-001. On 01/15/2015 PUM received an undated dentifyation notice from 6L.
BL England Diesel(s)				1/7/2013	10/1/2015		England stating dieset units deactivation data moved out till likey 31
{IC1, IC2, IC3, IC4}	. 8	AE	51	01/15/2015	05/31/2016	05/31/2016	2016 Still will re-use diesel ÇIRs for Y1 001.
							Reliability analysis complete. No issues identified. On 4/17/2014 Riverside submitted an updated deactivation notice with a new
	1 1			ŀ			deactivation date of 6/1/2015. New reliability analysis complete.
))	'))	11/30/2013	6/1/2016		No issues identified. Gen owner will keep unit operating until
Riverside 4	76	BGE	62	4/17/2014	6/1/2015	6/1/2016	6/1/2016.
							Reliability analysis complete, Impacts identified, Upgrades
	1 1			· \		{	expected to be completed in 2nd quarter of 2017. On 5/2/2014 PJM received an updated deactivation notice with a new
			1	.		1	deactivation date of 5/31/2018. New reliability analysis complete.
						İ	Upgrades identified and will not be completed until June 2020.
						1	Interim measures have been identified for 2018 - 2020 time
				11/29/2013	5/31/2017	5/31/2017	period and unit can deactivate as requested on 5/31/2018. On 4/30/2015 PJM received an updated deactivation notice with a
				5/2/2014	5/31/2018		new deactivation date of 5/31/2019. New reliability analysis
Dickerson 1	182	PEPCO	54	4/30/2015	5/31/2019	5/31/2019	underway.
· ··]						Reliability analysis complete. Impacts identified. Upgrades
)		} }	ļ		}	expected to be completed in 2nd quarter of 2017. On 5/2/2014
							PJM received an updated deactivation notice with a new deactivation date of 5/31/2018. New reliability analysis complete.
							Upgrades identified and will not be completed until June 2020.
							Interim measures have been identified for 2018 - 2020 time
				44/00/0043	C#4/2017	E 134 1304 3	period and unit can deactivate as requested on 5/31/2018. On
			1 1	11/29/2013 5/2/2014	5/31/2017 5/31/2018	1	4/30/2015 PJM received an updated deactivation notice with a new deactivation date of 5/31/2019. New reliability analysis
Dickerson 2	182:	PEPCO	53	4/30/2015	5/31/2019	1	underway.
.,	7					,	Reliability analysis complete, Impacts identified, Upgrades
						}	expected to be completed in 2nd quarter of 2017. On 5/2/2014
						•	PJM received an updated deactivation notice with a new deactivation date of 5/31/2018. New reliability analysis complete.
							Upgrades identified and will not be completed until June 2020.
							Interim measures have been identified for 2018 - 2020 time
				11/29/2013	5/31/2017	6/31/2017	period and unit can deactivate as requested on 5/31/2018. On 4/30/2015 PJM received an updated deactivation notice with a
				5/2/2014	5/31/2018	1	new deactivation date of 5/31/2019. New reliability analysis
Dickerson 3	182	PEPCO	51	4/30/2015	5/31/2019	1	underway.
						1	Reliability analysis complete. Impacts identified. Upgrades
						1	expected to be completed in 2nd quarter of 2017. On 5/2/2014
	İ						PJM received an updated deactivation notice with a new deactivation date of 5/31/2018. New reliability analysis complete.
						i	Upgrades identified and will not be completed until June 2020.
						!	Interim measures have been identified for 2018 - 2020 time
				11/05/0615	E104 (2047	F 104 10047	period and unit can deactivate as requested on 5/31/2018. On
			ľ	11/29/2013 5/2/2014	5/31/2017 5/31/2018		4/30/2015 PJM received an updated deactivation notice with a new deactivation date of 5/31/2019. New reliability analysis
Chalk Point 1	337	PEPCO	49	4/30/2015	5/31/2019	1	underway.
	1				_ 		Reliability analysis complete. Impacts identified. Upgrades
]	1	ŀ					expected to be completed in 2nd quarter of 2017. On 5/2/2014 PJM received an updated deactivation notice with a new
							deactivation date of 5/31/2018. New reliability analysis complete.
1							Upgrades identified and will not be completed until June 2020.
		ļ		İ			Interim measures have been identified for 2018 - 2020 time period and unit can deactivate as requested on 5/31/2018. On
				11/29/2013	5/31/2017	5/31/2017	4/30/2015 PJM received an updated deactivation notice with a
		ŀ		5/2/2014	5/31/2018	5/31/2018	new deactivation date of 5/31/2019. New reliability analysis
Chalk Point 2	341	PEPCO		4/30/2015	5/31/2019		underway. Reliability analysis complete, No impacts identified.
McKee 1 McKee 2	17	DPL DPL		2/19/2014 2/19/2014	5/31/2017 5/31/2017		Reliability analysis complete. No impacts identified. Reliability analysis complete. No impacts identified.
		1	T			1	Reliability analysis complete. No impacts identified. Dale U3
				0/07/00/1	4/40/0045	£14.010.01	requested, and was granted, a compliance extension from
Dale 3	74	EKPC	56	3/27/2014	4/1 <u>6/2015</u>	4/16/2016	Kentucky. Unit will now deactivate on 4/16/16. Reliability analysis complete. No impacts identified. Date U4
]	1]	1	}			requested, and was granted, a compliance extension from
	73	EKPC	53	3/27/2014	4/16/2015	1/46/2016	Kentucky. Unit will now deactivate on 4/16/16.

				Official	Requested	Projected	
		Trans	Age	Owner	Deactivation	Deactivation	İ
Unit	Capacity	Zone	(Years)	Request	Date	Date	PJM Reliability Status ¹
			Ī				Reliability analysis complete. Impact identified. Upgrade
Bayonne Cogen Plant	i i			[expected to take approximately 4 years to complete. Generator
(CC)	163	PSEG	12	11/17/2014	11/1/2018	11/1/2018	can deactivate as scheduled on November 1, 2018.
							Reliability analysis complete, No impacts identified. On
	Į Į	,		Į.	ļ		6/19/2015 FE submitted an updated deactivation notice with a
	1 1			ľ			new deactivation date of September 18, 2015. Updated analysis
	[[had impacts identified. TO estimates one year to complete
				12/1/2014	5/31/2016	5/31/2016	required upgrades. Interim measures identified and generator
Burger EMD	7	ATSI	42	6/19/2015	9/18/2015	9/18/2015	can deactivate as scheduled on 9/18/2015.
-							Reliability Analysis underway. PSEG contemplating re-use of
Sewaren 1	103	PSEG	66	4/8/2015	11/1/2017	11/1/2017	Capacity Rights for a new generation project.
				· [-		Reliability Analysis underway, PSEG contemplating re-use of
Sewaren 2	118	PSEG	66	4/8/2015	11/1/2017	11/1 <u>/2</u> 017	Capacity Rights for a new generation project.
	-					, .	Reliability Analysis underway. PSEG contemplating re-use of
Sewaren 3	106	PSEG	66	4/8/2015	11/1/2017	11/1/2017	Capacity Rights for a new generation project.
							Reliability Analysis underway. PSEG contemplating re-use of
Sewaren 4	124	PSEG	66	4/8/2015	11/1/2017		Capacity Rights for a new generation project.
							Reliability analysis complete. One impact identified, existing
MH50 Marcus Hook Co-	1 1			-	1		baseline upgrade, expected to be completed by 2019. Unit
gen	50	PECO		5/8/2015	5/13/2019	5/13/2019	expected to deactivate as scheduled.
Wagner 2	135	BGE	56	6/16/2015	6/1/2020	6/1/2020	Reliability analysis complete, No impacts identified.
Arnold (Green				- 1			10 MW energy. Reliability analysis underway. Re-use
Mountain) Wind Farm	0.7	PenElec	15	8/7/2015	11/5/2015	11/5/2015	interconnection for Z1-066.
TOTAL:	2619.7						

Note (1): PJM Reliability Status column also contains links to additional information for requests with reliability issues posted to the PJM website.



Michael J. Settineri Direct Dial (614) 464-5462 Direct Fax (614) 719-5146 Emall misettineri@vorys.com

Vorys, Sater, Seymour and Pease LLP Legal Counsel RECEIVED-DOCKETING DIT

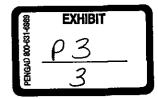
2015 OCT -5 PM 5: 07

PUCO

1909 K Street NW, Suite 900 Washington, D.C. 20006-1152 (2)

202.467.8800 | www.vorys.com

Founded 1909



October 5, 2015

Ms. Barcy F. McNeal, Secretary Public Utilities Commission of Ohio 180 E. Broad St., 11th Floor Columbus, OH 43215-3793

Re:

Case No. 15-1716-EL-BGN

Pre-Application Notification Letter

Dear Ms. McNeal:

Pursuant to Rule 4906-5-08(A) of the Ohio Administrative Code, South Field Energy LLC files this Pre-Application Notification Letter with the Ohio Power Siting Board regarding its proposed South Field Energy electric generation facility.

The South Field Energy electric generation facility will be a natural gas powered 1,100 megawatt combined-cycle electric generating facility located in Yellow Creek Township, Columbiana County, Ohio, approximately 3 miles northwest of the Village of Wellsville, with access from Hibbetts Mill Road via State Route 45. The facility has a footprint of approximately 20 acres and will be located within 150 acres of privately owned land, which is adjacent to a roughly 20 acre site available for construction staging and laydown.

The purpose of the proposed project is to generate electricity for delivery and sale to the interstate transmission grid. The proposed project will utilize two of General Electric's highly flexible and efficient gas turbines, with each turbine having a heat recovery steam generator (HRSG) and a steam turbine generator. Each turbine will have dual fuel capabilities, meaning they are operable with both natural gas and, in times of shortages, ultra-low sulfur diesel.

The public informational meeting will be held from 6:00 PM to 8:00 PM on Tuesday, October 20, 2015 at Wellsville High School, located at 1 Bengal Blvd., Wellsville, OH 43968.

This is to certify that the images appearing are an accurate and complete reproduction of a case file document deliveration the regular course of business.

Technician Date Processed 601 0 5 2819



Ms. Barcy F. McNeal October 5, 2015 Page 2

The following is a list of the currently anticipated waivers from the Board's rules that South Field Energy LLC will be seeking for the electric generating facility:

- 1. Rule 4906-13-03(A) and (B), request a waiver of an extensive site selection study; the applicant will provide discussion of its site selection process and the key attributes met by selecting the site and
- 2. Rule 4906-13-04(D)(2), request a waiver from filing PJM system impact studies along with the application.

Thank you for your cooperation in this matter.

Very truly yours,

Michael J. Settineri

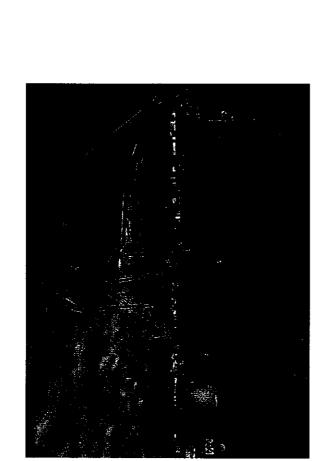
Vorys, Sater, Seymour and Pease LLP

52 East Gay Street

Columbus, Ohio 43215

Attorneys for South Field Energy LLC





April 11, 2015 - Pouring Steam Turbine Foundation

0.00

July 23, 2015

Via Electronic Filing

Ms. Barcy McNeal Administration/Docketing Ohio Power Siting Board 180 East Broad Street, 11th Floor Columbus, Ohio 43215-3793

> BRICKER & ECKLER LLP 100 South Third Street Columbus, OH 42216-4291 MAIN: 614.227.2300 FAX: 614.227.2390

COLUMBUS I CLEVELAND CINCINNATI-DAYTON MARIETTA

Bricker & Eckler

Columbus, Ohio 43215-3793

Re: Oregon Clean Energy, LLC,
OPSB Case No. 15-853-EL-BGA

www.bricker.com info@bricker.com Dear Ms. McNeal:

Saly W. Btoomfeld Partner 614.227.2388 sbkomfeld@bicker.com The attached photographs are being provided to inform the Staff and the Ohio Power Siting Board of the progress that is being made on the construction of Oregon Clean Energy, LLC's ("OCE") certificated generation plant.

If you have any questions please call at the number listed above.

Sincerely, Jally IV Broomfines

Sally W. Bloomfield

Attachment

Cc: Chris Cunningham (w/Attachment) Grant Zeto (w/Attachment)

9206773v1

June 19, 2015 -- Steam Turbine Pedestal - Preparing to pour turbine operating floor

Photo from the top of the turbine pedestal looking at the foundations for the Combustions Turbines and Hear Recovery Steam Generators (HRSG). The BP refinery is in the background.

9206773v1

9206773v1

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

7/23/2015 10:53:29 AM

٤

Case No(s). 15-0853-EL-BGA, 12-2959-EL-BGN

Summary: Correspondence Update on construction progress electronically filed by Teresa Orahood on behalf of Sally Bloomfield





Vorys, Sater, Seymour and Pease LLP Legal Counsel 52 East Gay Street P.O. Box 1008 Columbus, Ohio 43216-1008

614.464.6400 | www.vorys.com

Founded 1909

Michael J. Settineri Direct Dial (614) 464-5462 Direct Fax (614) 719-5146 Email mjsettineri@vorys.com

September 30, 2015

Mr. James O'Dell Ohio Power Siting Board 180 East Broad Street, 6th Floor Columbus, Ohio 43215-3793

Re:

Commencement of Construction for Phase II of 345 kV Interconnection

Correspondence regarding ODOT Permit

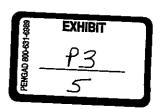
Case No.: 14-0591-EL-BLN

Dear Mr. O'Dell:

As you are aware, Carroll County Energy LLC ("CCE") recently held a preconstruction conference related to Phase II of the transmission line that will interconnect the CCE generation facility with the existing American Electric Power Canton Central — Tidd 345 kV transmission line. Please be advised that CCE anticipates commencing construction on Phase II of the transmission line on Thursday October 1, 2015.

Also, for your records, please find enclosed a permit from the Ohio Department of Transportation allowing for work within the State Highway Right of Way. This permit was necessary to allow for the installation of a temporary field drive to support the Phase II construction.

By copy to Ms. Barcy McNeal, a copy of this correspondence will be filed on the docket in the above-referenced proceedings.



Please call me or Amy Frazier, Associate General Counsel and Manager, Environmental Permitting, Advanced Power Services (NA) Inc. at 617-456-2209 if you have any questions regarding this correspondence.

Very truly yours,

Michael J. Settineri

MJS/vssp Enclosure

cc: Ms. Barcy McNeal

Attachment 1



OHIO DEPARTMENT OF TRANSPORTATION

DISTRICT 11 • 2201 REISER AVE. • NEW PHILADELPHIA, OHIO 44663 • (330) 339-6633
JOHN R. KASICH, GOVERNOR • JERRY WRAY, DIRECTOR • LLOYD MACADAM, P.E., P.S., DISTRICT DEPUTY DIRECTOR

September 24, 2015

Rusty Vance Kenny Construction Company 2107 Farmbury Drive Reynoldsburg, OH 43068

Re:

Permit # 11-2015-0644 --- CAR-9-16.64±

Dear Mr. Vance:

Enclosed herewith is the approved permit to perform work within the State Highway Right of Way. Please read it carefully and comply with all the provisions. Any and all costs involved with this project and its maintenance shall be borne by the applicant or his successors in title.

The Federal Highway Administration and the State of Ohio will be saved harmless from any claims arising as a result of granting this permit. This permit is granted and enforced under Article 5515.01 of the Ohio Revised Code and will be revoked any time work is found to be non-compliant with the conditions contained in this permit.

The Ohio Department of Transportation's Highway Manager for the county in which this work is to be performed has been notified that this permit has been granted. Prior to starting any work in the State's right of way, please contact Vince Carter, Carroll County Manager, Ohio Department of Transportation, Carrollton, OH Phone 330-627-4660 (or by e-mail) D11.Permits.CarrollCounty@dot.state.oh.us.

Failure to do so will result in the revocation of this permit.

Respectfully.

Lloyd MacAdam, P.E., P.S. District 11 Deputy Director

LM/clm Enclosures

c:

Carroll Co. File

I:\common\PERMITS\2015\Carroll\11-2015-0644CoverLetter.docx

MR 509

Permit No. 11-2015-0644

State of Ohio Department of Transportation Permit

Office Use Only

County or
Jurisdiction <u>CAR</u>
Rte 2 Log Pt 16.68
AccCat _____

Name Kenny Construction Company c/o Rusty Vance
Address 2107 Fambury Drive Reynoldsburg, OH 43068

Phone (614) 530-7422 is hereby granted a permit under Section 5515.0! and 5515.02 of Ohio Revised Code, and permission to perform work necessary in the manner described and at the location indicated in the following or as attached to this permit.

Install a temporary field drive on the West side of State Route 9 in Carroll County. The drive is located approximately 1.1 miles South of State Route 171 and State Route 9 intersection. The drive opening shall be constructed as per ODOT standard roadway drawing BP-4.1. The aprox profile and pavement build up shall be constructed as per ODOT L&D Manual, volume 1, section 803.2 and section 803.2 and Figure 401-2E. All work shall comply with State and Federal guidelines and in no way should the work adversely affect the travelling public. The field drive shall be removed and restored to its original or better condition when work is complete. Flaggers to be used when sight is an issue. "See Additional Permit Requirements".

- [2] This permit shall be in the possession of employees on site at all times who are in charge of the work and shall be shown, upon request, to any employee of the Department of Transportation.
- [3] No work authorized by this permit shall begin until the permittee has contacted and received instructions from Vince Carter. Carroll County Manager
 (Authorized ODOT Employee)

NOTE: Any work performed by the permittee may be stopped if the above requirements are not met.

- [4] To the extent applicable, this permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to this permit, and if the work is not completed by 6/23/2016
- [5] All work requiring persons or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Uniform Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.
- [6] The permittee accepts the conditions, terms, and requirements printed, written on, or attached to this permit and understands that failure to comply fully with those conditions, terms, and requirements or any change in the use of this permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to an including removal of the installation, if applicable, at the permittee's expense.

[7] Performance Bond Required? Yes \[\] No \[\]		•
Surety Company		
Effective Date 09/8/2015 Expiration Date 06/23/2016 Amount \$	-	
		N. A. 1.
Permittee: N/A	Director:	July Wray LUM
Date:	Date:	Juny Way/LVM 9/28/15
		1120[13

(See Other Side)

Rev 10/15/10

Page 1 of 3

General Provisions Applicable to All Permits

(Sections 5515.01 and 5515.02 of O.R.C.)

- [1] This permit is not a substitute for satisfying the rights or obligations of any other party who may have an interest in the underlying fee interest.
- [2] The granting of this permit does not convey to the permittee or to the property served any rights, title, or interest in state highway rights of way or in the design or operation of the state highway; or in any way abridge the right of the Director of the Department of Transportation in his jurisdiction over state highways. If, in the process of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any of the fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof or the permitee and be made as directed by the Director of Transportation. Such changes in the state highway design or operation, necessary for improved safety and operation or for the benefit of the traveling public, shall not require a permit modification since the permit confers no private rights to the permittee over the control of t he state highway.
- [3] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design, and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit.
- [4] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct such work and the permittee shall relimburse the Department for the costs.
- [5] The permittee shall indemnify and hold harmless the State of Ohio, Department of Transportation, its officers, representatives and assigns, from any and all loss, liability, damages, litigation costs, and claims for injury or death to any person, property, or business caused by or resulting from any act, omission, event, consequence, or occurrence, negligent or otherwise of the permittee, his employees, or assigns as a result of the issuance of this permit.
- [6] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's action and its causes, and given an opportunity to correct the problem.
- [7] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed.
- [8] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Failure to comply will be cause for revocation or suspension of the permit. Any closure of lanes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.
- [9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage.
- [10] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. MR 678 certifying that the permittee has complied with the terms of the permit.
- [11] Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the highway so as to interfere with the travel over the road.
- [12] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Administrative Code promulgated and enforced by the Public Utilities Commission of Ohio.
- [13] The permittee shall comply with the Air Pollution requirements of Rule 3745-17-08 of the Ohio Administrative Code promulgated and enforced by the Ohio Environmental Protection Agency.
- [14] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and his/her successors in interest. No change in ownership of the underlying property or of the facility owned by permittee shall in any way alter the permittee's obligations under this permit.

- [15] The permittee(s) for herself/himself/themselves/itself, her/his/their/its personal representatives, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:
 - (1) No person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the above described property.
 - (2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.
 - (3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the U.S. DOT Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.
 - (4) In the event that this instrument grants a lease, license, or permit and any of the above nondiscrimination covenants is breached, then the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, license or permit and to re-enter and repossess the above-described property and hold the same as if said lease, license or permit had never been made or issued.
 - (5) In the event that this instrument grants a fee or easement interest and any of the above nondiscrimination covenants is breached, the State of Ohio, Department of Transportation, shall have the unfettered right to re-enter the above described property, and said property will thereupon revert to and vest in and become the absolute property of the State of Ohio and its successors and assigns for the use and benefit of the Department of Transportation.
 - (6) In the event that this instrument grants a lease, fee or easement interest, all of the foregoing nondiscrimination covenants shall be and are covenants running with the land.

Permit No. 11-2015-0644

Additional Permit Requirements

This permit is valid only within the limits of right-of-way of this state route. Permits for that portion of your facilities located along county or township right-of-way must be obtained from the appropriate authorities. A copy of your permit is to be on-site at all times while working.

All work to be performed at no cost to the State or Federal Highway Administration.

As per the email dated 9/22/15 Kenny Construction and the Carroll Energy project manager has agreed that the TCE should be constructed before the lane widening project is complete. Kenny Construction agreed to coordinate with the Carroll County Energy EPC Contractor(responsible for the road widening) to ensure that the road widening will take precedence and that construction and use of the TCE will be scheduled such that it will not interfere with the road widening, or access to the Carroll County Energy project site.

The Permittee is responsible for maintaining the integrity of the Edge of Pavement at all times during and after work is complete. If there is any damage to this State Route it will be the permittees responsibility to repair.

- F-01 To assure the proper installation, the Ohio Department of Transportation County Manager or his representative must be notified a minimum of 24 hours prior to any work being started and must be present to approve grades, location and material used.
- F-02 All work on State Right of Way to be performed in a manner satisfactory to the Ohio Department of Transportation.
- F-03 There is to be NO parking of equipment, service vehicles, erecting of lights, or placing of advertising devices within the state highway right-of-way. Similarly, no equipment, service vehicles, devices or structures are permitted to overhang the state highway.
- F-04 Permittee to furnish all labor, material and equipment necessary to complete and maintain the project.
- F-05 Any mud or debris that accumulates on the highway as a result of this project (i.e., from tire tracks, equipment, etc.) is to be removed immediately at the Permittee's expense.
- F-06 The Permittee is responsible for complying with any/all applicable state and/or federal environmental laws including, but not limited to, obtaining any necessary Section 404 & 401 waterway permits prior to performing any work within the state right-of-way.
- F-07 All work requiring men or vehicles on the pavement or shoulders shall comply fully with the Ohio Manual of Uniform Traffic Control Devices (see highlighted link below) for Construction and Maintenance Operations and Item 614 (Maintaining Traffic) in the State of Ohio Department of Transportation Construction and Material Specifications Manual. Failure to comply with this requirement will be just cause for immediate suspension of this permit until such time the proper traffic control is in place.
 - http://www.dot.state.oh.us/Divisions/Engineering/Roadway/DesignStandards/traffic/OhioMUTCD/Pages/OMUTCD2012 current default.aspx
- F-08 The use of the pavement, land or berm for depositing any excavated materials will not be permitted.
- F-09 If required, a valley gutter across driveways will be constructed to conform with existing drainage conditions. Construction of the drive must not interfere with the existing roadside drainage.
- F-10 Drive approaches will slope down and away from the through pavement edge at a minimum of 1.6% as per Location and Design Manual Vol. 1, Section 400, Figure 401-2E. The profile of the driveway must be a minimum of

- 1" per foot down and away from the pavement edge to the ditch line. No surface water will be allowed to drain onto the highway pavement.
- F-11 The type and thickness of the driveway surface shall be a minimum of 8" of aggregate. Driveway composition will meet the existing full depth pavement (normally the white line) and be in accordance with the Location & Design Manual, refer to Section 805.2.
- F-12 A 3:1 slope is to be maintained from the edge of the driveway to the flow line of the ditch.
- F-13 The Permittee is held responsible for all public and private utility coordination and relocation required in the performance of the work.
- F-14 All public and private property, including highway fence, that is disturbed by the contractor will be repaired to a condition equal to or better than the original condition, including sidewalks and driveways.
- F-15 All areas where the vegetation has been injured, disturbed or destroyed by this installation will be fertilized, seeded and mulched. All restoration work is to be completed within 30 days after completing work.
- F-16 The permittee shall take any and all appropriate measures to limit soil erosion during and after construction authorized herein. As such, he shall be fully accountable to the Ohio EPA, the Soil Conservation Service and other appropriate agencies for any violation or disregard of the applicable governing standards and regulations related to the protection and conservation of soils that are affected by this permitted work.
- F-17 The Permittee agrees that the State of Ohio, Department of Transportation, and Federal Highway Administration shall be saved harmless from any and all claims or damages, public or private, arising from or growing out of the issuance of this permit.
- F-18 Work is not to be performed during inclement weather conditions (i.e., ice, snow, fog, heavy rain storms, etc.). Additionally, work is not to start until one (1) hour after sunrise and is to cease one (1) hour before sunset.
- F-19 NOTICE: Failure to notify the Ohio Department of Transportation County Manager or his representative a minimum of 24 hours prior to any work being started and again upon completion of the project will void this permit.

Failure to comply with these terms will result in the revocation of the permit and subsequent removal of the driveway.

IF, WITHIN SEVEN (7) DAYS OF COMPLETION OF WORK AND INSPECTION OF THE PROJECT BY AN O.D.O.T. REPRESENTATIVE, THE PERMIT REQUIREMENTS HAVE NOT BEEN FULFILLED BY THE PERMITTEE, O.D.O.T. MAY REMOVE THE DRIVEWAY AND/OR DRAINAGE PIPE AT THE PROPERTY OWNER'S EXPENSE AND NO FUTURE PERMITS FOR THIS TYPE OF WORK WILL BE ISSUED TO YOU.

THE FUTURE MAINTENANCE OF ANY WORK PERMITTED HEREIN SHALL BE THE RESPONSIBILITY AND AT THE EXPENSE OF THE PERMITTEE.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

9/30/2015 8:05:57 PM

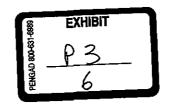
in

Case No(s). 14-0591-EL-BLN

Summary: Correspondence Regarding Phase II Construction electronically filed by Mr. Michael J. Settineri on behalf of Carroll County Energy LLC



Vorys, Sater, Seymour and Pease LLP Legal Counsel



52 East Gay Street P.O. Box 1008 Columbus, Ohio 43216-1008

RECEIVED-DOCKETING DIV 614,464,6400 | www.vorys.com

2015 AUG 17 PM 3: 44

Founded 1909

PUCO

Michael J. Settineri Direct Dial (614) 464-5462 Direct Fax (614) 719-5146 Email mjsettineri@vorys.com

August 17, 2015

Mr. James O'Dell Ohio Power Siting Board 180 East Broad Street, 6th Floor Columbus, Ohio 43215-3793

Re:

Letter of Notification of Compliance for the Carroll County Energy LLC

& Preconstruction Conference for Phase I of Natural Gas Pipeline

Case No.: 13-2425-GA-BNR

Dear Mr. O'Dell:

As you are aware, Carroll County Energy LLC ("CCE") is currently constructing a natural gas powered combined cycle electric generating facility (the "Facility"). To supply the Facility with natural gas, CCE will construct a natural gas pipeline (the "Pipeline"), as certificated in Case No. 13-2425-GA-BNR. As indicated in prior correspondence, CCE will construct the Pipeline in two (2) phases ("Phase I" and "Phase II," respectively). Phase I encompasses the portion of the Pipeline east of Ohio State Route 9 over land currently disturbed for construction of the Facility, and consists of the installation of a section of the Pipeline along the main access road into the Facility. CCE anticipates commencing construction on Phase I of the Pipeline on August 17, 2015, upon submittal of this correspondence.

On Friday, August 14, 2015, CCE conducted the Phase I preconstruction conference for the Pipeline with the Board's Staff in attendance. The conference included a presentation of the schedule of construction activities and related permit requirements. CCE will hold a second preconstruction conference at a later date for the Phase II work and will provide notice to Staff.

With regard to the Pipeline, the Board's February 3, 2014 Staff Report of Investigation issued in Case No. 13-2425-GA-BNR (the "Staff Report") established certain conditions that are to be met. Condition 1 to the Staff Report provides in part that:

The Applicant shall obtain and comply with all applicable permits and authorizations as required by federal and state entities for any activities where such permit or authorization is required. Copies of such permits and

where such permit or authorization is required. Copies of such permits and

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.

Technician Date Processed AUG 1 7 2015



Mr. James O'Dell August 17, 2015 Page 2

authorizations, including all supporting documentation shall be provided to Staff.

Please note, CCE previously submitted (i) both the NPDES Construction Site Stormwater General Permit and Stormwater Pollution Prevention Plan on March 17, 2015 in the Facility proceeding, Case No. 13-1752-EL-BGN; (ii) the Ohio Environmental Protection Agency Division of Surface Water approval of the Notice of Intent Form for General Permit Authorization to Discharge Hydrostatic Test Water on August 11, 2015 in the Pipeline proceeding, Case No.: 13-2425-GA-BNR; (iii) the United States Fish and Wildlife Service endangered species review on March 17, 2015 in the Facility proceeding, Case No. 13-1752-EL-BGN; (iv) the Driveway Permit on March 17, 2015 in the Facility proceeding, Case No. 13-1752-EL-BGN; and (v) the Nationwide Permit #39 for Ohio and 401 Water Quality certification on March 17, 2015 in the Facility proceeding, Case No. 13-1752-EL-BGN.

By copy to Ms. Barcy McNeal, a copy of this correspondence will be filed on the docket in the above-referenced proceeding.

Please call me or Amy Frazier, Associate General Counsel and Manager, Environmental Permitting, Advanced Power Services (NA) Inc. at 617-456-2209 if you have any questions regarding this correspondence.

Michael I Sattingri

MJS/vssp

cc: Ms. Barcy McNeal



Smart American Energy

Construction

Carroll County Energy LLC is pleased to announce the start of construction of its 700-megawatt natural gas fired electric generation facility to be constructed approximately 2.5 miles north of Carrollton on the east side of State Route 9 (Kensington Rd.).

Carroll County Energy has chosen Bechtel Power, Corp, a world class construction contractor, to build the facility. Bechtel brings expertise gained from its experience at the forefront of the power industry for more than 60 years, including extensive work in natural gas fired power generation projects. Construction is expected to begin shortly and continue through December 2017. At the peak of construction activity, up to 700 workers will be employed at the site.

The major phases of the approximately 32 month construction period are discussed below.

Earthwork (April 2015 - September 2015) - Activities to include mobilization, site preparations, earthwork and fencing.

Underground Utilities (August 2015 - December 2015) - Installation of underground utilities on site, including gas and water pipelines.

Offsite Utility Interconnections (October 2015 – October 2016) - Construction of interconnections into the electrical transmission system, the interstate gas pipeline system and the Village of Carrollton Water Treatment Plant.

Foundations (December 2015 - July 2016) - Pouring of foundations for major equipment including Combustion Turbines, Steam Turbine, Air Cooled Condenser, Heat Recovery Steam Generators and Switchyard.

Equipment Installation (May 2016 - August 2017) - Installation of major equipment including Combustion Turbines, Steam Turbine, Air Cooled Condenser, Heat Recovery Steam Generators and Switchyard.

Startup & Commissioning (December 2016 - December 2017) - Testing of all major systems and interconnections. After completion of testing, start of commercial operations.

Complaints

We are very aware that a construction project of this magnitude may create some disturbances or inconveniences for local residents due to construction activities. Therefore Carroll County Energy wants to make sure our neighbors can get in contact with us to resolve any complaints in a timely manner.

You can use the below phone number or email address to contact Carroll County Energy about any construction related issues.

Complaint Resolution Hotline: 330-681-0408

Complaint Resolution Email: inquiries@carrollcountyenergy.com

Carroll County Energy is genuinely grateful for the support of the Carroll County community during the development process of this major project. As we embark on construction, we desire to continue our role as a responsible member of the Carroll County community to earn your continued support. Therefore, please do not hesitate to reach out to us to communicate any concerns or issues that arise.

© 2015 Carroll County Energy

Terms & Conditions | Legal Information

Carroll County Energy is a subsidiary of Advanced Power, a leading energy development company based in Boston, Massachusetts. Advanced Power's management has developed more than 9,400 megawatts of power generation projects worldwide.