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Via E-file

October 18, 2016

Public Utilities Commission of Ohio PUCO Docketing 180 E. Broad Street, 10th Floor Columbus, Ohio 43215

In re: Case No. 10-2929-EL-UNC

Case No. 11-346-EL-SSO Case No. 11-348-EL-SSO Case No. 11-349-EL-AAM Case No. 11-350-EL-AAM Case No. 14-1186-EL-RDR

Dear Sir/Madam:

Please find attached the DIRECT TESTIMONY AND EXHIBITS OF LANE KOLLEN on behalf of the OHIO ENERGY GROUP and the OFFICE OF THE OHIO CONSUMERS' COUNSEL for filing in the above-referenced matters.

Copies have been served on all parties on the attached certificate of service. Please place this document of file.

Respectfully yours,

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OFFICE OF THE OHIO CONSUMERS' COUNSEL

MLKkew Encl.

Cc: Certificate of Service

BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Commission Review of Capacity Charges of Ohio Power Company and Columbus Southern Power Company) Case No. 10-2929-EL-UNC)
In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to Section 4928.143, Revised Code, in the Form of an Electric Security Plan)) Case No. 11-346-EL-SSO) Case No. 11-348-EL-SSO))
In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company for Approval of Certain Accounting Authority) Case No. 11-349-EL-AAM Case No. 11-350-EL-AAM)
In the Matter of the Application of Ohio Power Company to Adopt a Final Implementation Plan for the Retail Stability Rider)) Case No. 14-1186-EL-RDR)

DIRECT TESTIMONY

AND EXHIBITS

OF

LANE KOLLEN

ON BEHALF OF THE OHIO ENERGY GROUP AND THE OFFICE OF THE OHIO CONSUMERS' COUNSEL

J. KENNEDY AND ASSOCIATES, INC. ROSWELL, GEORGIA

October 18, 2016

TABLE OF CONTENTS

I.	QUA	ALIFICATIONS AND SUMMARY
	A.	Qualifications1
	B.	Purpose of Testimony
	C.	Summary of Relevant Cases and Ohio Supreme Court Remand Directives4
	D.	Summary of Testimony7
II.		E COMMISSION SHOULD REJECT THE COMPANY'S PROPOSAL TO ROACTIVELY INCREASE THE STATE COMPENSATION MECHANISM
	A.	The Company's Proposal Constitutes Impermissible Retroactive Ratemaking8
	B.	The Company's Proposal Extends Well Beyond The Court's Remand Directive To Substantively Address the Inputs to the Energy Credit10
	C.	The Company's Proposed Change in Methodology for: 1) Projecting Market Revenues From A Fundamentals Forecast To The Use Of Financial Futures; and 2) For Projecting Fuel And Production Costs From A Fundamental Analysis To The Use Of 2011 Average Production Costs, Goes Beyond the Scope of the Court's Remand Directive11
	D.	The Record Supports the Inputs Relied on by the Commission23
	E.	The Record Demonstrates that the Commission Was Balanced in Its Approach and Adopted Numerous Inputs and Assumptions that Increased the Capacity Cost30
III.		R DEFERRALS SHOULD BE REDUCED BY \$351.638 MILLION FOR THE LAWFUL COLLECTION OF "NON-DEFERRAL" RSR REVENUES
IV.	SHO	E RSR COLLECTIONS SINCE THE FIRST BILLING CYCLE IN JUNE 2016 DULD BE REFUNDED TO CUSTOMERS ALONG WITH CARRYING ARGES
	Α.	RSR Deferrals Were Fully Collected By Late Last Year or January 201634
	В.	The Company Will Receive A Windfall of \$70 Million Or More Even If The Commission Does Not Retroactively Increase The State Compensation Mechanism35
V.		EET THRESHOLD IS A REASONABLE AND NECESSARY COMPONENT OF E ESP II AND DOES NOT VIOLATE THE STATUTORY FRAMEWORK
	A.	A SEET Threshold Is An Important Component of The ESP II And Is Necessary to Achieve Multiple Policy Objectives
	B.	The Commission Can Achieve These Policy Objectives By Using The Safe Harbor Returns Or A 12.0% Return In The Pending SEET Proceedings

BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

) Case No. 10-2929-EL-UNC)
)) Case No. 11-346-EL-SSO) Case No. 11-348-EL-SSO))
) Case No. 11-349-EL-AAM) Case No. 11-350-EL-AAM)
) Case No. 14-1186-EL-RDR)
Y OF LANE KOLLEN
ONS AND SUMMARY
s address.
ss address is J. Kennedy and Associates, Inc.
onial Park Drive, Suite 305, Roswell,

1 Q. Please state your occupation and employer.

A. I am a utility rate and planning consultant holding the position of Vice President
 and Principal with the firm of Kennedy and Associates.

- Q. Please describe your education and professional experience.
- A. I earned a Bachelor of Business Administration in Accounting degree and a

 Master of Business Administration degree from the University of Toledo. I also

 earned a Master of Arts degree from Luther Rice University. I am a Certified

 Public Accountant, with an Ohio practice license, a Certified Management

 Accountant, and a Chartered Global Management Accountant. In addition, I am a

 member of several professional organizations.

I have been an active participant in the utility industry for more than thirty years, as a consultant in the industry since 1983 and as an employee of The Toledo Edison Company from 1976 to 1983. I have testified as an expert witness on planning, ratemaking, accounting, finance, and tax issues in proceedings before regulatory commissions and courts at the federal and state levels on more than two hundred occasions, including several proceedings involving Ohio Power Company ("AEP Ohio" or the "Company") before the Public Utilities Commission of Ohio ("Commission").

¹ My qualifications and regulatory appearances are further detailed in my Exhibit___(LK-1).

Q. On whose behalf are you testifying?

I am testifying on behalf of The Ohio Energy Group ("OEG"), a group of large industrial customers served by AEP Ohio, and the Office of the Ohio Consumers'

Counsel ("OCC"). The members of OEG who take service from the Company are: AK Steel Corporation, Alcoa Inc., Amsted Rail Company, Inc., Ford Motor Company, GE Aviation, Linde, Inc., Grief, Inc., POET Biorefining, Praxair Inc.,

TimkenSteel Corporation and Worthington Industries.

8 B. Purpose of Testimony

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to address the Ohio Supreme Court's ("Court") remand orders and to respond to the Company's testimony and proposals addressing the remand directives.² More specifically, I respond to the Court's directive to "substantively address" the inputs used to calculate the energy credit in the calculation of the \$188.88/MW-day capacity cost in Case No. 10-2929-EL-UNC ("Capacity Charge Case"). I also address the Company's proposal to change the methodology for: 1) projecting market revenues from a fundamentals forecast to the use of financial futures; and 2) for projecting fuel and production costs from a fundamental analysis to the use of 2011 average fuel costs. Such changes would increase the capacity cost from \$188.88/MW-day to \$288.83/MW-

² 2016-Ohio-1607 and 2016-Ohio-1608.

day and retroactively increase the Retail Stability Rider ("RSR") deferral balance by \$468.891 million, plus another \$26.317 million in carrying charges.

A.

In addition, I respond to the Court's directive to quantify the reduction in RSR deferrals, including the related carrying costs, that are due to customers as the result of the Court's determination that the additional RSR revenues authorized in Case No. Case No. 11-346-EL-SSO ("ESP II Case") were unlawful.

Further, I address the termination of the RSR and the refunds that are required based on the Court's decisions.

Finally, I respond to the Court's remand directing the Commission to explain its decision to impose a 12.0% earnings threshold for the annual significantly excessive earnings test ("SEET") set forth in R.C. 4928.143(F).

C. Summary of Relevant Cases and Ohio Supreme Court Remand Directives

Q. Please describe the cases that are relevant to the determination of the capacity cost calculation and the RSR deferrals and revenues.

There are two cases that are relevant to these issues. The first is the Capacity Charge Case and the second is the ESP II Case. In the Capacity Charge Case, the Commission adopted a cost-based State Compensation Mechanism ("SCM") and set a capacity cost of \$188.88/MW-day. The Commission calculated the \$188.88/MW-day using actual historical fixed costs offset by an energy credit based on projected market revenues net of projected variable generating expenses. The Commission authorized the Company to defer the difference between its

actual capacity cost of \$188.88/MW-day and the capacity price set by PJM's Reliability Pricing Model ("RPM"), the amount it was authorized to collect from CRES providers. In the ESP II Case, the Commission authorized the Company to collect additional RSR revenues (referred to by the Court as "non-deferral RSR revenues") and authorized the Company to begin recovering a portion of the capacity charge deferrals during the ESP II term.

In the Capacity Charge Case and on appeal to the Court, AEP Ohio disagreed with certain input assumptions that were used by the PUCO Staff – and effectively adopted by the Commission - to calculate the projected market revenues and projected variable generating expenses used to develop the energy credit. On appeal, the Court did not rule on the validity of the Company's arguments regarding the specific input assumptions. Rather, it remanded the case, directing the Commission to substantively address the Company's arguments. The relevant portions are as follows.

{¶ 55} We find that the commission erred in two respects. First, the commission's order contains no record citations relevant to the pertinent issue, despite a claim that it reviewed all of the testimony. The commission did cite evidence on rehearing, but only for the purpose of showing that the staff's witnesses "sufficiently described [EVA's] methodology," and not for the purpose of directly addressing or refuting AEP's challenges to the inputs. Id. at 35.

{¶ 56} Second, the commission's analysis completely misses the mark. The dispute here is not one involving competing methodologies, as the commission found. Rather, the dispute is over how the staff and EVA applied their preferred methodology to calculate the energy credit. And because AEP's objection here was to the inputs and not the choice of methodologies, the commission's reference to the fact that "Staff argues the Company's energy credit is far too low," Capacity Order at 36, is not helpful. While the staff did indeed argue against AEP's proposed energy credit, AEP was not asking the commission to pick its preferred energy

credit over the staff's in the context of this argument. Rather, AEP was challenging the accuracy of the staff's calculation of the energy credit by arguing that it was overstated as a result of faulty inputs. Even the commission, arguing in defense of the order, seems to concede that the order falls short, when it uses 11 pages of its third merit brief to "individually address each of [AEP's] claims."

{¶ 57} In sum, the commission's error is clear and prejudicial (if the energy credit is overstated, it results in an understated capacity charge). Accordingly, we reverse this part of the order and direct the commission on remand to substantively address AEP's input arguments.

In the appeal of ESP II, the Court found that the additional "non-deferral RSR revenues" were unlawful "transition revenues." The Court directed the Commission to quantify the non-deferral RSR revenues and then to reduce the RSR deferral balance by that unlawful amount as follows.

{¶ 40} Because AEP is entitled to recover only its actual capacity costs, we order the commission to adjust the balance of its deferred capacity costs to eliminate the overcompensation of capacity revenue recovered through the nondeferral part of the RSR during the ESP. However, because of the method employed by the commission to calculate the RSR, we are unable to determine exactly how much of the revenue recovered through the nondeferral part of the RSR is allocable to CRES capacity revenues. We therefore remand this matter to the commission to determine that amount and offset the balance of deferred capacity costs by the amount determined.

In the appeal of ESP II, the Court also found that the Commission failed to explain its decision to impose a SEET threshold of 12.0% and that it did not respond to the Company's claims that this threshold of 12.0% departed from the statutory process for determining the SEET threshold.

D. Summary of Testimony

3 Q. Please summarize your testimony.

4 A. I recommend that the Commission reject the Company's proposal to retroactively increase the State Compensation Mechanism.

I recommend that the Commission substantively address the inputs to the energy credit as directed in the remand, and affirm the inputs based on the record and other data publicly available at the time the Commission made its decision.

I recommend that the Commission reject the Company's attempt to expand the scope of the remand by changing: 1) the methodology for the projected market prices by using forward prices in lieu of the fundamentals approach adopted by the Commission; and 2) the methodology for projecting fuel and production costs from a fundamental analysis to the use of 2011 average production costs.

I recommend that the Commission find that \$351.638 million is the required reduction in the RSR deferrals consisting of the reduction for unlawful rates of \$326.940 million and the related carrying charges of \$24.698 million.

I recommend that the Commission direct the Company to immediately terminate the RSR charges and refund all excessive collections since the first billing cycle in June 2016 plus carrying costs through the date of final refund and true-up. The RSR deferrals were fully recovered by the end of last year or in January of this year, assuming that there is no retroactive increase in the State

Compensation Mechanism. The corrected RSR deferrals are \$105.424 million as of May 31, 2015.

Finally, I recommend that the Commission explain and affirm the concept of a SEET threshold in response to the Court's remand. If the Commission adopts the Company's proposal in this remand proceeding to increase the capacity cost and increase the RSR, it will result in after-tax returns on equity of 15.41% in 2014 and 12.22% in 2015.

II. THE COMMISSION SHOULD REJECT THE COMPANY'S PROPOSAL TO RETROACTIVELY INCREASE THE STATE COMPENSATION MECHANISM

12 A. <u>The Company's Proposal Constitutes Impermissible Retroactive Ratemaking</u>

A.

Q. Does the Company's proposal to increase the State Compensation Mechanism constitute impermissible retroactive ratemaking?

Yes. Regardless of the merits of the inputs, the Company's proposal to increase the capacity cost for a prior period constitutes impermissible retroactive ratemaking. In my experience, both state and federal ratemaking is prospective and the lawful rate can only be changed prospectively. The SCM is authorized under federal law and was approved under state law. The RSR was approved under state law. The lawful capacity rate in effect from August 2012 through May 2015 was \$188.88/MW-day and cannot now be changed for that prior

period. Nowhere in its Order did the Court authorize the Commission to retroactively change the SCM.

A.

4 Q. Has the prohibition against retroactive ratemaking recently been applied in favor of the Company?

Yes. Because of the prohibition against retroactive ratemaking, AEP Ohio's customers have repeatedly been forced to absorb substantial costs that were later found to be unlawful by the Court. The prohibition against retroactive ratemaking precluded a refund of \$63 million to customers stemming from AEP Ohio's first ESP case.³ And the prohibition against retroactive ratemaking foreclosed customers from receiving a refund of \$368 million in unsubstantiated provider-of-last-resort charges collected by the Company.⁴ In my opinion, the law should be applied consistently. Because the prohibition against retroactive ratemaking has been used to deny customers refunds of \$63 million and \$368 million, that same doctrine should be applied to deny the utility a retroactive rate increase of \$468.891 million (plus \$26.317 million in interest).

³ In re: Application of Columbus S. Power Co., 128 Ohio St. 3d 512 (2011).

⁴ In re: Application of Columbus S. Power Co., 138 Ohio St. 3d 448 (2014).

1 2	В.	The Company's Proposal Extends Well Beyond The Court's Remand Directive To Substantively Address the Inputs to the Energy Credit
3		
4	Q.	Did the remand vacate or direct the Commission to recalculate the capacity
5		cost or change the methodology used for the projected market prices,
6		revenues, or generating expenses?
7	A.	No. The remand only directed the Commission to substantively address the
8		Company's arguments regarding the inputs into the calculation of the energy
9		credit portion of the SCM. The remand did not direct the Commission to change
10		any of the inputs, change any methodology, recalculate the capacity cost, or
11		retroactively change the rate or the RSR deferrals.
12		
13	Q.	If the Commission goes beyond the scope of the Court's remand and
14		recalculates the capacity cost, is there any requirement that it be
15		retroactively adopted as the capacity rate in lieu of the \$188.88/MW-day rate
16		that was in effect from August 2012 through May 2015?
17	A.	No. The Commission should view the \$188.88/MW-day as the only lawful
18		capacity charge in the prior period, not the starting point for proposed increases.

1 2 3 4 5	C.	The Company's Proposed Change in Methodology for: 1) Projecting Market Revenues From A Fundamentals Forecast To The Use Of Financial Futures: and 2) For Projecting Fuel And Production Costs From A Fundamental Analysis To The Use Of 2011 Average Production Costs, Goes Beyond the Scope of the Court's Remand Directive.
6		
7	Q.	Did the Commission adopt the Staff's methodology for projecting the market
8		revenues used in the energy credit?
9	A.	Yes. The Commission found the Company and Staff "offered two quite different
10		approaches in their attempt to forecast market prices for energy" and stated the
11		following.
12 13 14 15 16 17 18 19 20 21 22 23 24 25		Upon review of all of the testimony, the Commission finds that it is clear that the dispute between AEP-Ohio and Staff amounts to a fundamental difference in methodology in everything from the calculation of gross energy margins to accounting for operation of the pool agreement. AEP-Ohio claims that Staffs inputs to the AURORAxmp model result in an overstated energy credit, while Staff argues that the Company's energy credit is far too low. Essentially, AEP-Ohio and Staff have simply offered two quite different approaches in their attempt to forecast market prices for energy. The Commission concludes that AEP-Ohio has not shown that the process used by Staff was erroneous or unreasonable. We further find that the approach put forth by EVA is a proper means of determining the energy credit and produces an energy credit that will ensure that AEP-Ohio does not over recover its capacity costs. ⁵
26	Q.	Did the Court remand for reconsideration the methodology used by the Staff
27		and adopted by the Commission?
28	A.	No. The Court clearly limited the remand directive to substantively address the
29		inputs, stating that the Company agreed that the methodology was not at issue.
30		

⁵ *Id*., 36.

Q. What were the most important differences between the Staff's methodology versus the Company's methodology for projecting market prices and production costs?

A.

There were two important differences. First, EVA developed its fuel costs and production costs results based on fundamental analyses. EVA developed its production cost results using the AURORAxmp simulation methodology. In contrast, the Company's relied on 2011 average fuel production costs (in \$/MWH) for its coal units and failed to re-dispatch the units based on its alternative assumptions. For coal units that operated, it derived the operating cost of the units by simply multiplying the same generation results that EVA produced by its 2011 average fuel production costs. In other words, over the entire 2012 to 2015 period, the Company used historical data without relying on changes in fuel costs that would be expected to occur over the projected period or changes in the dispatch of the units and the market prices that would be expected to occur.

Second, unlike the Staff, which developed market prices using the AURORAxmp dynamic simulation, the Company used a static projection of forward market prices. The Company's use of financial futures to project market prices is much different than EVA's use of a fundamentals analysis.

The Company seeks to change the methodology for projecting market prices and the methodology for projecting fuel and production costs. The Company's proposed changes in methodology would create a complete mismatch between the inputs and assumptions for market revenues and the energy costs ostensibly incurred to supply energy to generate those market revenues.

This	fundamental	re-litigation	of the	State	Compensation	Mechanism i	S
not what the	Court orders	d					

A.

Q. Please describe the Staff's methodology to project the market revenues used in the energy credit.

The Staff retained Energy Ventures Analysis, Inc. ("EVA") to assist in the projection of market revenues and the variable production costs ("energy costs") of AEP's generating units. Mr. Ryan T. Harter, an energy analyst with EVA, provided Direct Testimony in the Capacity Charge case. He described EVA's use of AURORAxmp, a model used to simulate the entire Eastern Interconnect, to forecast market prices using a fundamental analysis approach. AURORAxmp is widely used throughout the utility industry. In addition, Ms. Emily Medine provided Direct Testimony regarding the inputs and results of AURORAxmp and the projected market revenues and energy costs developed using that methodology.

Mr. Harter testified that AURORAxmp "simulates a power market by sorting all available generation assets by marginal cost and dispatching the most economic assets until the zonal load is met." He explained that to "feed this model, EVA maintains a proprietary set of high granularity forecasts for its FUELCAST clients. FUELCAST includes delivered fuel prices by generating

unit, a complete regulatory outlook, a specialized load forecast, and several other key market insights."

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Q. Do you agree with the Commission that the Staff's modeling approach was a reasonable methodology to quantify the energy credit?

Yes. The Staff's modeling dynamically simulated the hourly operation of all of the loads and resources in PJM to derive the projected market prices used in the energy credit determination. AURORAxmp and other hourly models are industry standard tools that simulate the operation of the PJM and other markets as well as the operation and economic dispatch of generating units as load varies over the course of the day and over the week. Operating constraints are typically incorporated, including must run requirements, start-up costs, operating reserves, ramp rates, etc. A simulation tool such as AURORAxmp is dynamic in that it allows resources throughout the entire PJM System to satisfy load requirements economically subject to transmission constraints. A transmission constrained economic dispatch means that if a cheaper resource exists on the eastern side of the system, for example, and no operating or transmission constraints exist between this resource and load on the western side of the system, then the eastern resource would dispatch incrementally before resources on the western side of the system.

⁶ Harter Direct Testimony at 6-7.

- Q. Please describe the Company's methodology to project the market revenues
 used in the energy credit.
- 3 A. The Company opposed any energy credit in the calculation of the capacity cost.
- 4 Nevertheless, if the Commission did apply an energy credit, then the Company
- 5 argued that the Commission should ignore Staff's dynamic fundamental modeling
- 6 methodology and instead rely on the Company's static approach using forward
- 7 prices.

8

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Q. In what way was the Company's modeling approach static?

- 10 A. The Company developed a different set of market price, fuel, and heat rate inputs
- and assumptions, yet it performed no dispatch, hourly or otherwise, to determine
- the incremental operation of its generating units. It failed to consider all real-
- world factors that affect unit dispatch on a dynamic and comprehensive basis,
- such as market clearing prices, other variable costs, or the incremental costs of
- other units. Instead of a dynamic dispatch, the Company performed a single test
- that led to AEP's coal units either operating exactly as Staff's AURORAxmp
- model determined or being turned off completely.

18

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Q. Does such a static approach result in realistic results?

- 20 A. No. It is unrealistic to assume that the Company's proposed changes in market
- 21 prices, fuel costs, and heat rates would not result in changes in dispatch and
- generation compared to the changes that would have occurred if these changes in
- 23 input had been reflected in a dynamic simulation. In fact, this static approach

resulted in unusual results, including the shutdown of some units over the entirety of the study period from June 2012 to May 2015, which makes little sense.

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4 Q. Why was the Commission's reliance on EVA's projected fuel costs 5 reasonable?

A. EVA based its fuel cost assumptions on a fundamental analysis using projected data drawn from its FUELCAST and COALCAST services. Ms. Medine explained during the hearing on May 9, 2012 that FUELCAST is a multi-client subscriber service that has been in existence for about 20 years, and provides information to clients concerning electricity, coal, natural gas, oil, and emissions. She also explained that COALCAST is a subscriber service provided to EVA's coal clients.⁷ It appears from a review of the EVA website that it has actually been publishing coal forecasts for as long as 30 years.⁸ Furthermore, EVA explains that a key attribute of both its COALCAST and FUELCAST Reports is "that it represents an integrated review of the fossil fuels and the competition among them in the energy markets." It seems reasonable that when the Commission issued its decision in this case in July 2012 that it considered EVA to be well respected in the industry, determined that the EVA fundamental fuel forecasts were reasonable for use in the AURORAxmp simulation to develop the energy credit, and that it was critical to match projected market prices with

⁷ See May 9, 2012 Hearing Transcript Volume X at 2156.

⁸ FUELCAST: http://evainc.com/publications/fuelcast/;

COALCAST: http://evainc.com/publications/coal-reports/coalcast/

⁹ *Id*.

projected fuel costs, both developed using fundamental analyses and forecast for the same time period that the SCM would be in effect.

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- Q. Mr. Allen criticizes EVA's coal cost forecast as too low, most notably for the Gavin units. Is there other evidence that the Staff's coal cost forecasts were reasonable?
- 7 A. Yes, besides the fact that the Company did not calculate the energy credit based 8 on a fundamentals forecast while EVA did, a review of historical data prior to 9 2012 confirms that the fundamentals forecast was reasonable. A review of the 10 Gavin fuel costs over the ten year period prior to the start of the ESP II term indicates that the Gavin fuel costs averaged \$14.60/MWH, 10 which is within the 11 fundamentals forecast (\$13/MWH to \$15/MWH) that EVA used for Gavin. 11 12 13 Although I do not suggest that the Commission should have relied on this historic 14 data to develop the energy credit in lieu of the EVA fundamentals forecast, the 15 historic fuel costs provide additional evidence that the EVA forecast was 16 reasonable.

¹⁰ I have attached ten years of historical Gavin fuel costs obtained from SNL Energy Service pursuant to an OEG subscription as my Exhibit___(LK-2). SNL Energy compiles this data from public filings, including FERC Form 1s. I averaged the amounts reported on the line "Fuel (\$/MWH)" under the Reported Plant Performance Costs heading for the 10-year period between 2002 and 2011.

¹¹ William Allen Rebuttal Testimony, May 11, 2012, Case No. 10-2929-EL-UNC et al at 5, line 1.

Q.	In his October 4, 2016 Direct Testimony, Mr. Allen concluded that on the											
	basis of actual fuel costs results, which were not available when the											
	Commission made its decision to rely on the EVA approach, his 2011 historical											
	fuel costs "were a more appropriate input to use in the analysis of an energy											
	credit than Ms. Medine's fuel costs." Do you agree with Mr. Allen?											

No. Such an after the fact comparison is improper and irrelevant because it relies on hindsight using information that was not available to the Commission when it developed the energy credit using projected market prices, projected fuel costs, and projected heat rates.

It is unlikely that any forecast will be 100% accurate when compared to actual results. However, forecasts must be used when projections are required and actual results are not available. The fact that Staff's coal forecast did not match Mr. Allen's 2011 actual data does not mean that the forecast was not reasonable at the time and that the Commission should alter its earlier decision and now accept the Company's forecast. If the Commission were to do that, then it would be setting a bad precedent and inviting endless litigation. Indeed, any decision made on the basis of a forecast would likely be appealed once actual data becomes available because of the inherent inaccuracy of forecasts.

A.

Q. Has the Commission previously found projections of market prices using a fundamental analysis to be reasonable?

¹² William Allen Direct Testimony, October 4, 2016, Case No. 10-2929-EL-UNC *et al* at 15, line 4.

Yes. In Case Nos. 14-1693-EL-RDR and 14-1694-EL-AAM, the Commission adopted the Company's projections of market prices developed using fundamental analysis and rejected alternative projections presented by other parties that relied on forwards prices in order to quantify the projected benefits of the Company's proposed purchased power agreement ("PPA") Rider. The Commission favorably cited the Company's arguments in support of the use of fundamental analysis and the rejection of forwards prices in its Order as follows.

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A.

AEP Ohio also points out that the use of forwards prices by OCC and other intervenors to project the PPA rider's impact is flawed in a number of ways. In particular, AEP Ohio argues that forwards prices are not a forecast of future spot market prices and do not have any connection to what future spot market prices might actually be; the market for electric energy forwards is illiquid, except in the short term, and, therefore, cannot provide a sound basis for a long-term forecast; forwards prices do not account for long-term factors such as the impact of the CPP on energy prices in the future; and forwards prices are not available for the latter part of the PPA term. In response to criticism that AEP Ohio used outdated data for its own PPA rider projections, the Company emphasizes that, contrary to certain parties' claims, the 2015 fundamentals forecast was not finalized, released, and available for use when the amended application was filed and that it was, therefore, reasonable for the Company to proceed with the amended application based on the 2013 fundamentals forecast, which Company witness Bletzacker testified is within a band of credibility. Further, AEP Ohio asserts that the load projections used in the 2013 fundamentals forecast are reliable and properly account for factors like the CPP and energy efficiency measures, contrary to arguments raised by certain intervenors. (Co. Reply Br. at 65-72.)¹³

¹³ Opinion and Order in Case Nos. 14-1693-EL-RDR and 14-1694-EL-AAM, at 55.

In its decision to approve the PPA rider, the Commission provided a detailed explanation for its decision to use the Company's fundamental analysis and reject the forwards prices approach proposed by other parties as follows.

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The Commission finds, however, that OCC's PPA rider projection is fundamentally flawed for a number of reasons. OCC witness Wilson's projection, which is derived from AEP Ohio's five percent lower load case, uses Company witness Pearce's analysis in terms of the expected costs of the PPA units, but incorporates forwards electric energy prices in place of the Company's hourly energy prices, thus modifying the projected revenues. Mr. Wilson's criticism of Dr. Pearce's analysis, therefore, is essentially based on his belief that forwards contracts are a preferable means of estimating future energy prices. Forwards prices, however, are not a forecast of future spot market prices and they should not be relied upon as a basis for long-term forecasts of energy prices. Further, unlike AEP Ohio's fundamentals forecast, the futures prices used by Mr. Wilson do not account for factors such as the impact of future carbon emission regulations, which is another reason that they are not an accurate predictor of future energy prices. Finally, there is a lack of futures market liquidity, other than in the immediate near term, as the record clearly reflects. Over the roughly eight-year term of the PPA, there are simply too few forwards contracts that can be used to form a reliable projection of the PPA rider's impact. As AEP Ohio emphasizes, Mr. Wilson appears to acknowledge this fact. For months beyond October 2020, for which there were no AEP-Dayton Hub Day Ahead forwards prices, Mr. Wilson used the monthly forwards prices for the period of November 2019 through October 2020 as proxies for the period of November 2020 through December 2024. We do not find it reasonable to rely on an analysis that merely recycles the monthly futures prices for November 2019 through October 2020 across the final four years, approximately, of the PPA.

Accordingly, based upon the evidence in the record, the Commission finds that AEP Ohio's PPA rider analysis is reliable and should be used to determine an estimate of the rider's net impact. In particular, we find that AEP Ohio's weather normalized case, which was used by the signatory parties as the basis for recommending the PPA rider's annualized initial \$4 million credit for 2016, is a reasonable and conservative projection. We, therefore, conclude that the PPA rider is reasonably estimated to provide a net credit of \$37 million over the current ESP term, or \$214 million over

2		2). 14
4	Q.	Did the Commission also adopt the fundamental analysis developed by
5		FirstEnergy in support of its proposed Economic Stability Program ("ESP")
6		rider?
7	A.	Yes. In Case No. 14-1297, the Commission adopted FirstEnergy's fundamental
8		analysis for the purpose of quantifying the projected benefits to customers from
9		the ESP. In its Order, the Commission described the Company's projection of
10		market prices using fundamental analysis and why it adopted the Company's
11		projections and quantifications as follows:
12 13 14 15 16 17 18		The Companies then compared these confirmed costs with the projected revenues based on the energy, capacity, and carbon price forecasts of FirstEnergy witness Rose. (Co. Ex. 33 at 4-5; Tr. Vol. XIII at 2761-68, 2787-89, 2885-89.) FirstEnergy contends that the forecasts and cost data were reasonable to rely upon, and the amount by which projected market prices consistently exceeded projected variable costs enabled the EDU Team to independently corroborate the revenue projections FES provided to the Companies (Tr. Vol. XIII at 2773- 2774).
20		***
21 22		FirstEnergy argues that its forecasts remain reliable, despite short-term changes in the energy and capacity markets. ¹⁶
23		***
24 25 26 27 28		FirstEnergy argues that market fundamentals also demonstrate the reliability of FirstEnergy witness Rose's projections, noting that the modeling utilized by FirstEnergy witness Rose also evaluated key supply and demand parameters, including the decrease in recent drilling activities for natural gas (Co. Ex. 151 at 31-42). As such, FirstEnergy alleges the

¹⁴ *Id.*, 79-80.
¹⁵ Opinion and Order in Case No. 14-1297-EL-SSO, at 49-50.
¹⁶ *Id.*, 50.

intervenors were very short-sighted in their contention.¹⁷ 1 2 3 In fact, FirstEnergy alleges that the intervenors' various arguments 4 regarding the analyses utilized by FirstEnergy witnesses Rose and 5 Lisowski only demonstrates their lack of understanding of the methodology and industry practices used in such analyses. 18 6 7 8 We note at the outset that projections and forecasts are predictions. They 9 are predictions of future conditions and are based upon what is happening 10 now and multiple additional assumptions. Considering the nature of the 11 proposed Rider RRS as a potential hedge or insurance on electricity rates, 12 in making its determination the Commission must choose from the most 13 reliable of these projections and forecasts to make a determination of whether the Stipulations, as a package, benefit ratepayers.¹⁹ 14 15 16 In fact, the EIA uses ICF public projections of energy prices, as well as 17 projections by other notable firms such as Energy Ventures Analysis benchmarks for comparisons of EIA projections (Co. Ex. 60 at CP-6 18 19 through 7, Table CP4, CP-9 through 10, Table CP-5).²⁰ 20 *** 21 22 Despite the various criticisms of the projections prepared by FirstEnergy 23 witness Rose and the modeling prepared by FirstEnergy witness Lisowski. 24 we are not persuaded by arguments against giving weight to the 25 projections and models. Although we are mindful of the fact that 26 FirstEnergy has the burden of proof in this proceeding, no other party has 27 presented a full projection of energy prices and the net revenues under 28 Rider RRS. Even OCC witness Wilson derives much of his projection 29 from the numbers prepared by Mr. Rose and Mr. Lisowski. Further, Mr. 30 Rose observes that one of the EIA cases used by Mr. Wilson, the 31 Reference case, projects natural gas prices which are comparable to, but 32 slightly lower than, the natural gas prices projected by Mr. Rose (Co. Ex. 151 at 41-42).²¹ 33 34 35 Accordingly, based upon the evidence in the record, the Commission finds

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that this projection by FirstEnergy witness Rose (Rose projection) is

¹⁷ *Id*.

¹⁸ *Id.*, 51.

¹⁹ *Id.*, 80.

²⁰ *Id*.

²¹ *Id.*, 81.

reliable,	and	we will	include	the	Rose	projection	in	our	determina	ition	of
an estim	ate of	f the net	revenue	s un	der R	ider RRS.2	2				

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4 Q. Why are the Commission's Orders in these other Company and FirstEnergy proceedings relevant in this proceeding?

A. They are relevant because the Commission strongly endorsed the projections of market prices based on the fundamental analyses prepared by the Company and FirstEnergy, finding the fundamental analyses superior to forward prices. In this case, the Company asserts that forward prices are superior to fundamental analysis, an obvious contradiction to its position in the PPA rider proceedings and an obvious contradiction to the Commission's prior Orders on this very issue.

D. The Record Supports the Inputs Relied on by the Commission

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Q. Have you identified record evidence that was available to the Commission in support of the contested issues that it can cite in response to the remand?

A. In addition to the record evidence cited by Mr. Allen in his Direct Testimony in this remand proceeding and the prefiled testimony of the Staff witnesses, I reviewed the transcripts of the live testimony of Ms. Medine during cross-examination by the Company in the Capacity Charge Case. identified excerpts from this live testimony that provide record evidence that substantiates the PUCO's findings. The evidence supports Staff's selection of

²² *Id.*, 81-82.

various inputs and assumptions used in the AURORAxmp simulation of market prices and fuel costs, including heat rates, fuel costs, dispatch, and the calculation of off-system sales margins from shopping and non-shopping customers.²³

A.

Q. In the Capacity Charge Case, Ms. Medine testified at hearing regarding the reasonableness of EVA's inputs used in AURORAxmp to calculate the energy costs used in the energy credit, including fuel costs, heat rates, and allocation of off-system sales. Have you identified the portions of the transcript that respond to AEP's complaints regarding market prices and fuel costs?

Yes. In response to questions regarding calibration and benchmarking, Ms. Medine testified that AURORAxmp incorporated data used for other studies and was refined and run many times prior to running it for the purpose of projecting market prices and revenues and energy costs, including fuel costs, in this case. Ms. Medine testified that the model was maintained in a "hot," or continuously ready state, with the latest inputs and assumptions so as not to bias any particular study through selective changes in the data.²⁴

Ms. Medine testified that the market prices resulting from the fundamental analysis were compared to other projections of market prices and that the AURORAxmp simulation produced a "justifiable LMP." Ms. Medine explained

²⁴ See May 9, 2012 Hearing Transcript Volume X at 2163-2164.

²³ I have replicated these excerpts and attached them as my Exhibit___(LK-3).

in	detail	why	the	AURORAxmp	fundamental	analysis	produced	a	better
pro	jection	of ma	ırket	prices than forwa	ard prices. ²⁵				

Ms. Medine agreed that the inputs and assumptions affect market prices, energy costs, and margins. She testified that "you can change some factors that would make the number higher, some factors that would make the number lower. That was what came out of the model realm with the set of assumptions that were in there." ²⁶

Ms. Medine repeatedly maintained that the heat rates used in AURORAxmp were appropriate, as demonstrated in the following exchange with the Company's counsel.

- A. . . . I basically said that what's presented here are the average annual heat rates. And again, there's some discretion of how they're calculated. The point on a dispatch is when you operate your plant, what is your heat rate? And we don't have segment data that specifically deals with that question. And so what we're saying is since the purpose of the model is the dispatch, that's where it's critical to get that proper number.
- Q. I agree it's critical, but the ones you're using are optimal heat rates that are simply not experienced in the real world, are they?
- A. Again, as I said, I think that that's not the case. I think that when the plants are operating full out, the heat rates are closest to the optimal numbers. And remember, most of the generation from AEP Ohio is coming from the large coal plants with high capacity factors.²⁷

²⁵ *Id.*, 2165.

²⁶ *Id.*, 2170.

²⁷ *Id.*, 2240-2242.

2 3	can make a significant difference in the actual cost of the unit and margins experience?
4	A. No.
5	Q. Why not?
6 7	A. Remember, everything is calculated using these heat rates. So the MLR is calculated excuse me, the ML I get confused, LMP is
8 9	calculated using these heat rates so those numbers flow through the entire model. So if you have a higher heat rate, you're going to have
10 11	higher costs and higher LMP. So if you were to change that, it doesn't get just changed in isolation.
12 13	Q. Right. But if using inaccurate heat rate, it produces inaccurate results of all those things, doesn't it?
14 15	A. Well, again, we don't think so. One thing we think the accuracy is enhanced in terms of the dispatch. Secondly, as I was saying, that
16	number flows through the entire calculations. So if I were to just
17	change AEP's to average historical, or even worse, historical, whatever
18	number you would want, it would change - it wouldn't be accurate
19	because the other systems aren't done in the same manner. So you
20	need to be consistent if you're going to calculate an LMP for the area.
21	So I hear what you're saying, I do think there's somepotentially some
22 23	issues, but I'm saying it's not the magnitude you're suggesting because those heat rates flow through the entire calculation. ²⁸
24	Finally, Ms. Medine addressed the Company's complaints regarding the
25	fuel cost at the Gavin, Kammer, and Conesville 4 plants in the following
26	exchange at hearing in the Capacity Charge Case.
27 28 29 30	Q. Yeah. Now, I want to I'll take a risk here, I'm going to ask you an open-ended question. The Gavin unit shows the actual cost average of \$20.34 and then your projection uses \$13.14. Big difference.
31 32	A. Right.
33	Q. Big unit runs a lot, right?

²⁸ *Id.*, 2243

- A. (Witness nods head.)
- Q. Can you explain that?
- A. Sure. I can't explain everything because I don't know everything that was part of this, but a large part of the differences are due to some nonrecurring event and this is where I need to be a little careful since they're not all public. But with my -- I can cite the redacted version but basically there were additional payments made to a supplier in 2009 that some of which carried over to 2010 that were a one-time event. But they were very significant. And beginning in 2010 there was a very significant undershipment of coal which also would be a material change in the fuel costs and those were -- I believe some of those events carried over into 2011. But clearly at Kammer, as you may remember, in second half of 2007/the first half of 2008, coal prices tripled and some purchases were made for periods of one, two, three years, at the very high prices that are now expired subsequent to this period. So that's one of the reasons why the anomalous prices at Gavin, Kammer. At Conesville 4 -- where to start. At Conesville 4 there's an -- I'm trying to be careful so if I stray, let me know. There's some costs related to the preparation which was idled in January of 2012 that would have significantly affected the fuel costs at Conesville certainly in 2011 and possibly back to 2010. In addition in 2010 there was issues related to -
- Q. I only asked you about Gavin. So I appreciate especially since you're -- as I understand your answer, all the information you gave was confidential you obtained during the audit you're using that here to explain your testimony?
- A. No. So on the Conesville obviously public information –
- Q. I just asked you about Gavin.
- A. On Gavin I believe that the discussion is not redacted in the audit report. What's redacted is the name of the supplier and the amount of the payment.
- Q. And you already gave your answer for Gavin.
- A. Right.
- Q. So is it your testimony then that you believe if those events were normalized, you believe the \$13 rate for Gavin fuel cost is accurate historically and going forward?

A. Well, it's certainly aggressive. So the -- but I think the presumption was a softening coal market with a very attractive supply situation. ²⁹

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Q. Mr. Allen cites forward prices that existed on April 12, 2012 for deliveries in June through December 2012 and on the December 31 just prior to the calendar years for deliveries in January 2013 through May 2015 as evidence that the results of the AURORAxmp simulation fundamental analysis were too low. Please respond.

9 A. First and most importantly, after the fact comparisons of this nature, i.e., 10 11

"Monday morning quarterbacking," are irrelevant and should be ignored. None of these forward prices were available at the time of the Commission's decision. except for the April 12, 2012 forward prices. This is another example of the Company attempting to use hindsight in trying to convince the Commission to abandon the methodology it adopted in 2012 prior to when the energy credit went into effect. At the time, the Commission was required to use its judgment in the selection of the methodology and the forecast results that it relied on in the Capacity Charge Case. Now the Company wants the Commission to forget about that and it change its prior decision based on results that were not known at the time the decision had to be made. This would be inappropriate and inconsistent with the Court's remand.

21 Second, this is nothing more than an attempt by the Company to validate a 22 change in methodology to use forward prices, despite the fact that the

²⁹ Id., 2287

Commission rejected that methodology and specifically adopted Staff's fundamental analysis methodology in the Capacity Charge Case.

Third, forward prices reflect projected market prices on a single date. These forward prices change from day to day and intraday. As I previously noted, this is a fact used by the Company and FirstEnergy to argue against the use of forward prices and cited by the Commission in support of its decision to use fundamental analyses in other proceedings.

Fourth, the Commission already determined in the Company's PPA Rider proceeding and the FirstEnergy ESP proceeding that the fundamental analysis methodology is superior to the forward prices methodology. And it was a position strongly advocated by the Company in its PPA Rider proceeding.

O.

A.

Mr. Allen argues that the fuel costs for certain coal-fired generating units were too low, and gas-fired units were too high. If that is correct, then what effect might changes to those forecasts have had on market prices and revenues that would have been developed using the AURORAxmp simulation fundamental analysis methodology?

It is pure speculation as to what the results would have been had the Company performed a revised AURORAxmp simulation back in 2012 based on its preferred inputs and methodologies. It is even greater speculation as to whether the Commission would have changed the energy costs and/or market revenues given that the inputs, assumptions, and methodologies that it relied on were

internally consistent and its determination that Staff's results were more reasonable than the Company's.

3 E. The Record Demonstrates that the Commission Was Balanced in Its 4 Approach and Adopted Numerous Inputs and Assumptions that Increased 5 the Capacity Cost

A.

Q. Is there additional evidence that the \$188.88/MW-day was reasonable?

Yes. The Commission made numerous decisions to increase the capacity cost from the Staff recommendation that counterbalance the Company's claims the Commission adopted other inputs and assumptions that unduly reduced the capacity cost through increases in the energy credit. First, the Commission increased the capacity cost from the Staff recommendation to include \$20.11/MW-day in "energy" costs that it determined had not been elsewhere included in the calculation of the energy credit, i.e., the energy credit was effectively overstated by \$20.11/MW-day, all else equal.³⁰

Second, the Commission, in its discretion, specifically modified the Staff's proposed capacity cost to substantially increase the return on equity to 11.15% compared to the Staff recommendation to use a 10.0% return on equity and the related income taxes for Columbus and Southern Power Company and a 10.3% return on equity and the related income taxes for Ohio Power Company. This increase added another \$10.09/MW-day to the capacity cost compared to the

³⁰ Order and Opinion in Capacity Charge Case at 27.

Staff's proposed capacity cost.³¹ The Commission did so despite its determination in the ESP II Case that a return on equity of 7.0% was within the zone of reasonableness.³² If the Commission had used a 7.0% return on equity, then the \$188.88/MW-day would have been \$147.01/MW-day, a reduction of \$41.87/MW-day, and nearly identical to the \$145.79 that OEG recommended.

Third, the Commission assumed that the AEP Interconnection Agreement would not be terminated on December 31, 2013 in the calculation of the offsystem sales margins, even though all parties to the Agreement already had provided notice of termination to each other and AEP already had filed the termination notice with the Federal Energy Regulatory Commission ("FERC"). This assumption increased the capacity cost by \$4.10/MW-day by reducing the energy credit in 2014 and 2015.³³

Q. Why is that important?

A. It demonstrates that the Commission carefully considered all AEP claims and addressed them either directly or indirectly in the calculation of the capacity cost and its determination that the \$188.88/MW-day was reasonable "after review of all of the testimony."

It also demonstrates that the Commission's calculation of the capacity cost was balanced. While the Commission adopted inputs and assumptions that

³¹ *Id.*, 32.

³² *Id.*, 26.

³³ The calculation of this amount is shown on my Exhibit___(LK-4).

increased the energy credit compared to the Company's preferred inputs, assumptions, and methodologies, it found the result was reasonable when it balanced these against other inputs, assumptions, and methodologies that either increased the fixed cost component or reduced the energy credit directly. If the Commission is inclined to revise any inputs and revise the capacity cost, then it should compare the effects of these revisions to the concessions it granted on other inputs and determine if the concessions equal or outweigh the revisions on balance in the determination of whether the resulting capacity cost is reasonable.

III. RSR DEFERRALS SHOULD BE REDUCED BY \$351.638 MILLION FOR THE UNLAWFUL COLLECTION OF "NON-DEFERRAL" RSR REVENUES

- Q. Please describe the Company's quantification of the RSR deferrals based on its proposed increase in the capacity cost.
- A. Mr. Allen quantified the RSR deferrals, including carrying charges, at \$600.632 million as of May 31, 2015.³⁴ This quantification assumes that the Commission goes beyond the Court's remand and unlawfully and retroactively increases the capacity cost to \$288.83/MW-day and allows the Company to defer the increase over the \$188.88/MW-day cost authorized through May 31, 2015. The Company

³⁴ Exhibit WAA-REM4 attached to William Allen's Direct Testimony in this remand proceeding.

1		continues to collect approximately \$15 million to \$16 million monthly in RSR
2		charges.
3		
4	Q.	How did the Company quantify the carrying charges on the RSR deferrals?
5	A.	The Company quantified the carrying charges on the "net" RSR deferrals
6		resulting from the increase due to its proposed capacity cost of \$288.83/MW-day
7		and the reduction in the "non-deferral" portion of the RSR revenues. ³⁵
8		
9	Q.	Did the Company separately quantify the reduction in the carrying charges
10		related to the "non-deferral portion" of the RSR revenues in response to the
11		Court's remand?
12	A.	No. Although the Company separately quantified the reduction in the "non-
13		deferral" portion of RSR revenues, it did not separately quantify the related
14		carrying charges.
15		
16	Q.	Have you separately quantified the reduction in the carrying charges related
17		to the "non-deferral portion" of the RSR revenues?
18	A.	Yes. I disaggregated the carrying charges into those related to the "non-deferral

portion of the RSR revenues and the carrying charges related to the capacity cost.

³⁵ The proposed carrying charges are shown monthly and in total on Exhibit WAA-REM4. In addition, the Company provided the calculation of the carrying charges shown on Mr. Allen's exhibit in an Excel workpaper entitled "Capacity Deferral and Carrying Costs."

1		The carrying charge on the "non-deferral portion" of the RSR revenues is \$24.698
2		million.
3		The carrying charge on the proposed capacity cost of \$288.83/MW-day is
4		\$76.048 million. This is an increase of \$26.317 million compared to the \$49.731
5		million in carrying charges based on a capacity cost of \$188.88/MW-day. The
6		final carrying charge on the capacity cost will depend on the Commission's
7		determination on the inputs and calculation of the capacity cost and energy credit
8		in this proceeding.
9		
10	Q.	What is the total reduction in the RSR deferrals due to the Court's decision
11		on the "non-deferral portion" of the RSR revenues in response to the Court's
12		remand directing the Commission to quantify this amount?
13	A.	The total reduction in the RSR deferrals is \$351.638 million as of May 31, 2015,
14		comprised of \$326.940 million in unlawful revenues plus \$24.698 million in
15		related carrying charges. Mr. Allen and I are in agreement on this quantification.
16		
17 18 19		IV. THE RSR COLLECTIONS SINCE THE FIRST BILLING CYCLE IN JUNE 2016 SHOULD BE REFUNDED TO CUSTOMERS ALONG WITH CARRYING CHARGES.
20	Α.	RSR Deferrals Were Fully Collected By Late Last Year or January 2016
21		
22	Q.	In contrast to the Company's proposal to collect from customers deferrals of
23		\$600.632 million at May 31 2015 how much should customers? rates be

2		proposal to retroactively increase the capacity cost and RSR deferrals?
3	A.	The RSR deferrals would be \$105.424 million at May 31, 2015 if the Commission
4		rejects the Company's proposal. Using Mr. Allen's Exhibit WAA-REM4 as a
5		template, the incurred capacity costs at \$188.88/MW-day would be \$886.084
6		million instead of the \$1,354.975 million shown on that exhibit, a reduction of
7		\$468.891 million. The CRES capacity payments, deferral portion of RSR
8		revenues, and non-deferral portion of RSR revenues will not change. The
9		carrying charges would be \$25.033 million instead of the \$51.350 million shown
10		on that exhibit, a reduction of \$26.317 million. ³⁶

reduced if the Commission (correctly) rejects the Company's unlawful

11 B. The Company Will Receive A Windfall of \$70 Million Or More Even If The

12 Commission Does Not Retroactively Increase The State Compensation

13 Mechanism

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15 Q. If the Commission rejects the Company's proposal to retroactively increase 16 the capacity cost and RSR deferrals, does that mean the Company has 17 already collected more than the entirety of the RSR deferrals?

18 A. Yes. The Company collects approximately \$15 million in RSR revenues per 19 month. That means the Company collected the entirety of the RSR deferrals plus 20 additional carrying charges either late last year or in January this year. I estimate

³⁶ I calculated the carrying charges as the net of the \$49.731 million in carrying charges related to the RSR deferrals due to the \$188.88/MW-day capacity cost less \$24.698 million due to the reduction from the "non-deferral portion" of the RSR revenues.

1		that the Company will have collected approximately \$70 million more than the
2		correct balance of RSR deferrals at May 31, 2015 by the refund effective date of
3		June 1, 2016 in this remand proceeding.
4		
5	Q.	What is your recommendation?
6	A.	I recommend that the Commission direct the Company to immediately terminate
7		the RSR charges and refund the excessive collections plus carrying charges on un-
8		refunded amounts from the first billing cycle in June 2016 through the date of the
9		final refund and true-up. The Company has been collecting the RSR subject to
10		refund since the first billing cycle in June 2016 pursuant to the Commission's
11		Entry in this remand proceeding dated May 18, 2016.
12		
13 14 15		V. A SEET THRESHOLD IS A REASONABLE AND NECESSARY COMPONENT OF THE ESP II AND DOES NOT VIOLATE THE STATUTORY FRAMEWORK
16 17	A.	A SEET Threshold Is An Important Component of The ESP II And Is Necessary to Achieve Multiple Policy Objectives
18		
19	Q.	The Court directed the Commission to explain why it imposed a SEET
20		threshold. Please explain why a threshold is reasonable.
21	A.	The SEET threshold is an important component of the ESP II, a comprehensive
22		rate plan that was designed to achieve multiple policy objectives, including the
23		development of a competitive market and establishment of just and reasonable

1 rates. The Commission cited these statutory policy objectives in its Order as 2 follows. 3 4 5 6 7 8 9 10 11 (SB 221). 12. 13 14 inter alia, to: 15 16 (1) 17 18 19 (2) 20 service. 21 22 (3) 23 24 (4) 25 26 27 28 29 (5)30 31 32 33

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42 43 Chapter 4928 of the Revised Code provides an integrated system of regulation in which specific provisions were designed to advance state policies of ensuring access to adequate, reliable, and reasonably priced electric service in the context of significant economic and environmental challenges. In reviewing AEP-Ohio's application, the Commission is cognizant of the challenges facing Ohioans and the electric industry and will be guided by the policies of the state as established by the General

Assembly in Section 4928.02, Revised Code, amended by Senate Bill 221

Section 4928.02, Revised Code, states that it is the policy of the state,

- Ensure the availability to consumers of adequate, reliable, safe, efficient, nondiscriminatory, and reasonably priced retail electric service.
- Ensure the availability of unbundled and comparable retail electric
- Ensure diversity of electric supplies and suppliers.
- Encourage innovation and market access for cost-effective supplyand demand-side retail electric service including, but not limited to, demand-side management (DSM), time-differentiated pricing, and implementation of advanced metering infrastructure (AMI).
- Encourage cost-effective and efficient access to information regarding the operation of the transmission and distribution systems in order to promote both effective customer choice and the development of performance standards and targets for service quality.
- (6) Ensure effective retail competition by avoiding anticompetitive subsidies.
- Ensure retail consumers protection against unreasonable sales practices, market deficiencies, and market power.
- Provide a means of giving incentives to technologies that can adapt to potential environmental mandates.
- (9) Encourage implementation of distributed generation across

1 2 3 4 5	customer classes by reviewing and updating rules governing issues such as interconnection standby charges, and net metering. (10) Protect at-risk populations including, but not limited to, when considering the implementation of any new advanced energy or renewable
6 7	energy resource.
8	To achieve these policy objectives, the ESP II included revisions to the
9	SCM, including a change from RPM to the cost-based capacity charge,
10	establishment of competitive energy and capacity auctions for non-shopping
11	customers, a freeze in base generation rates, modification and adoption of various
12	riders, including the establishment of the Generation Resource Rider and the
13	RSR, collection of additional "non-deferral" RSR revenues, and establishment of
14	a SEET threshold during the ESP II term. The Commission's decisions involved
15	balancing the multitude of ESP II components to achieve these objectives. For
16	example, the Commission stated the following:
17 18 19 20 21 22 23 24 25	While we understand that the nonbypassable components of the RSR will result in additional costs to customers, we believe any costs associated with the RSR are mitigated by the effect of stabilizing non-fuel generation rates, as well as the guarantee that, in less than three years, AEP-Ohio will establish its pricing based on energy and capacity auctions, which this Commission again maintains is extremely beneficial by providing customers with an opportunity to pay less for retail electric service than they may be paying today. ³⁷
26	In addition, the Commission sought to balance the Company's financial
27	needs with the effects on customer rates, stating:
28 29	We believe this balance is in the best interests of both customers and AEP-Ohio. For customers, this keeps the RSR costs stable at \$3.50/MWh and

³⁷ ESP II Order at 31-32.

\$4/MWh, and with \$1.00 of the RSR being devoted towards paying back AEP-Ohio's deferrals, customers will avoid paying high deferral charges for years into the future. In addition, our modifications to the RSR will provide customers with a stable rate that will not change during the term of the ESP due to the elimination of the decoupling components of the RSR. Further, as result of the Capacity Case, customers may be able to lower their bill impacts by taking advantage of CRES provider offers allowing customers to realize savings that may not have otherwise occurred without the development of a competitive retail market. In addition, this mechanism is mutually beneficial for AEP-Ohio because the RSR will ensure AEP-Ohio has sufficient funds to maintain its operations efficiently and revise its corporate structure, as opposed to a deferral only mechanism.³⁸

The Commission further explained that the SEET was necessary to achieve a balance between the Company's financial needs and the effects on customer rates, stating:

In addition, in light of the fact that the Commission has established a revenue target to be reached through the RSR in this proceeding, the Commission finds that it is also appropriate to establish a significantly excessive earnings test (SEET) threshold to ensure that the Company does not reap disproportionate benefits from the ESP. The evidence in the record demonstrates that a 12 percent ROE would be at the high end of a reasonable range for return on equity (OEG Ex. 101 at 4-6; Kroger 101 at 10; Ormet Ex. 107 at 8-30; Wal-Mart Ex. 101 at 8-9, FES Ex. 102 at 79-80), and even AEP-Ohio witness Allen agreed that a ROE of 10.5 percent is appropriate. Accordingly, for purposes of this ESP, the Commission will establish a SEET threshold for AEP-Ohio of 12 percent.³⁹

³⁸ *Id.*, 37.

³⁹ *Id*.

1 2	В.	The Commission Can Achieve These Policy Objectives By Using The Safe Harbor Returns Or A 12.0% Return In The Pending SEET Proceedings
3		
4	Q.	Does the statutory scheme for the SEET specify the methodology that the
5		Commission must apply to determine the return threshold?
6	A.	No. The statutory scheme provides a framework for application of the SEET, but
7		does not specify the methodology to determine the SEET threshold. Within the
8		statutory scheme, the Commission has discretion over the methodology to
9		determine the SEET threshold in any SEET proceeding.
10		
11	Q.	Instead of affirming a specific 12.0% SEET threshold in this remand
11 12	Q.	Instead of affirming a specific 12.0% SEET threshold in this remand proceeding, could the Commission achieve its stated objectives by relying on
	Q.	
12	Q. A.	proceeding, could the Commission achieve its stated objectives by relying on
12 13		proceeding, could the Commission achieve its stated objectives by relying on the calculations for the threshold in the annual SEET review proceedings?
12 13 14		proceeding, could the Commission achieve its stated objectives by relying on the calculations for the threshold in the annual SEET review proceedings? Yes. The Commission could achieve its stated objective "to ensure that the
12 13 14 15		proceeding, could the Commission achieve its stated objectives by relying on the calculations for the threshold in the annual SEET review proceedings? Yes. The Commission could achieve its stated objective "to ensure that the Company does not reap disproportionate benefits from the ESP" by relying on the
12 13 14 15		proceeding, could the Commission achieve its stated objectives by relying on the calculations for the threshold in the annual SEET review proceedings? Yes. The Commission could achieve its stated objective "to ensure that the Company does not reap disproportionate benefits from the ESP" by relying on the calculations for the SEET threshold in the pending 2014 and 2015 annual review
112 113 114 115 116		proceeding, could the Commission achieve its stated objectives by relying on the calculations for the threshold in the annual SEET review proceedings? Yes. The Commission could achieve its stated objective "to ensure that the Company does not reap disproportionate benefits from the ESP" by relying on the calculations for the SEET threshold in the pending 2014 and 2015 annual review proceedings.

1	In the 2014 proceeding, the Company calculated a return based on
2	comparable earnings of 10.05%, 40 resulting in a safe harbor return of 12.05%. In
3	the 2015 proceeding, the Company calculated a return based on comparable
4	earnings of 9.74%, 41 resulting in a safe harbor return of 11.74%.

5

6 Q. What is your recommendation, on behalf of OEG, in the pending SEET proceedings?

A. In the pending 2014 and 2015 SEET proceedings, I recommend the use of the safe
harbor returns of 12.05% in 2014 and 11.74% in 2015 for this purpose.⁴² The
OCC recommends 12.0% for this purpose.⁴³

11

- 12 Q. If the Commission goes beyond the scope of the Court's remand and
 13 unlawfully adopts the Company's proposal to retroactively increase the
 14 capacity cost and the RSR deferrals, what will be the effect on the earned
 15 returns for SEET purposes in 2014 and 2015?
- A. The Company's earned returns for SEET purposes will be 15.41% in 2014 and 12.22% in 2015, according to the record in the pending SEET proceedings. 44 On the other hand, the Company's earned returns for SEET purposes will be 10.10%

⁴⁰ William Allen Direct Testimony in Case No. 15-1022-EL-UNC at 5-6.

William Allen Direct Testimony in Case No. 16-1105-EL-UNC at 5.

⁴² Lane Kollen Direct Testimony in Case Nos. 15-1022-EL-UNC and 16-1105-EL-UNC at 11.

⁴³ Daniel Duann Direct Testimony in Case Nos. 15-1022-EL-UNC and 16-1105-EL-UNC at 4.

⁴⁴ Kollen Supplemental Direct Testimony in Case Nos. 15-1022-EL-UNC and 16-1105-EL-UNC at 4.

- in 2014 and 12.04% in 2015 if the Commission does not adopt the Company's
- 2 proposal to retroactively increase the capacity cost and the RSR deferrals.⁴⁵

3

- 4 Q. Does this complete your testimony?
- 5 A. Yes.

⁴⁵ *Id*.

BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Commission Review of Capacity Charges of Ohio Power Company and Columbus Southern Power Company) Case No. 10-2929-EL-UNC
In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to Section 4928.143, Revised Code, in the Form of an Electric Security Plan)) Case No. 11-346-EL-SSO) Case No. 11-348-EL-SSO)
In the Matter of the Application of Columbus Southern Power Company and Ohio Power Company for Approval of Certain Accounting Authority) Case No. 11-349-EL-AAM) Case No. 11-350-EL-AAM)
In the Matter of the Application of Ohio Power Company to Adopt a Final Implementation Plan for the Retail Stability Rider) (Case No. 14-1186-EL-RDR)

EXHIBITS

OF

LANE KOLLEN

ON BEHALF OF THE
THE OHIO ENERGY GROUP AND
THE OFFICE OF THE OHIO CONSUMERS' COUNSEL

J. KENNEDY AND ASSOCIATES, INC. ROSWELL, GEORGIA

October 18, 2016

EXHIBIT ____ (LK-1)

RESUME OF LANE KOLLEN, VICE PRESIDENT

EDUCATION

University of Toledo, BBA Accounting

University of Toledo, MBA

Luther Rice University, MA

PROFESSIONAL CERTIFICATIONS

Certified Public Accountant (CPA)

Certified Management Accountant (CMA)

PROFESSIONAL AFFILIATIONS

American Institute of Certified Public Accountants

Georgia Society of Certified Public Accountants

Institute of Management Accountants

Mr. Kollen has more than thirty years of utility industry experience in the financial, rate, tax, and planning areas. He specializes in revenue requirements analyses, taxes, evaluation of rate and financial impacts of traditional and nontraditional ratemaking, utility mergers/acquisition and diversification. Mr. Kollen has expertise in proprietary and nonproprietary software systems used by utilities for budgeting, rate case support and strategic and financial planning.

EXPERIENCE

1986 to

Present:

J. Kennedy and Associates, Inc.: Vice President and Principal. Responsible for utility stranded cost analysis, revenue requirements analysis, cash flow projections and solvency, financial and cash effects of traditional and nontraditional ratemaking, and research, speaking and writing on the effects of tax law changes. Testimony before Connecticut, Florida, Georgia, Indiana, Louisiana, Kentucky, Maine, Maryland, Minnesota, New York, North Carolina, Ohio, Pennsylvania, Tennessee, Texas, West Virginia and Wisconsin state regulatory commissions and the Federal Energy Regulatory Commission.

1983 to 1986:

Energy Management Associates: Lead Consultant.

Consulting in the areas of strategic and financial planning, traditional and nontraditional ratemaking, rate case support and testimony, diversification and generation expansion planning. Directed consulting and software development projects utilizing PROSCREEN II and ACUMEN proprietary software products. Utilized ACUMEN detailed corporate simulation system, PROSCREEN II strategic planning system and other custom developed software to support utility rate case filings including test year revenue requirements, rate base, operating income and pro-forma adjustments. Also utilized these software products for revenue simulation, budget preparation and cost-of-service analyses.

1976 to

1983:

The Toledo Edison Company: Planning Supervisor.

Responsible for financial planning activities including generation expansion planning, capital and expense budgeting, evaluation of tax law changes, rate case strategy and support and computerized financial modeling using proprietary and nonproprietary software products. Directed the modeling and evaluation of planning alternatives including:

Rate phase-ins.
Construction project cancellations and write-offs.
Construction project delays.
Capacity swaps.
Financing alternatives.
Competitive pricing for off-system sales.
Sale/leasebacks.

CLIENTS SERVED

Industrial Companies and Groups

Air Products and Chemicals, Inc.

Airco Industrial Gases Alcan Aluminum

Armco Advanced Materials Co.

Armco Steel Bethlehem Steel

CF&I Steel, L.P.

Climax Molybdenum Company

Connecticut Industrial Energy Consumers

ELCON

Enron Gas Pipeline Company

Florida Industrial Power Users Group

Gallatin Steel

General Electric Company

GPU Industrial Intervenors

Indiana Industrial Group

Industrial Consumers for

Fair Utility Rates - Indiana

Industrial Energy Consumers - Ohio

Kentucky Industrial Utility Customers, Inc.

Kimberly-Clark Company

Lehigh Valley Power Committee

Maryland Industrial Group

Multiple Intervenors (New York)

National Southwire

North Carolina Industrial

Energy Consumers

Occidental Chemical Corporation

Ohio Energy Group

Ohio Industrial Energy Consumers

Ohio Manufacturers Association

Philadelphia Area Industrial Energy

Users Group

PSI Industrial Group

Smith Cogeneration

Taconite Intervenors (Minnesota)

West Penn Power Industrial Intervenors

West Virginia Energy Users Group

Westvaco Corporation

Regulatory Commissions and **Government Agencies**

Cities in Texas-New Mexico Power Company's Service Territory Cities in AEP Texas Central Company's Service Territory

Cities in AEP Texas North Company's Service Territory

Georgia Public Service Commission Staff

Kentucky Attorney General's Office, Division of Consumer Protection

Louisiana Public Service Commission Staff

Maine Office of Public Advocate

New York State Energy Office

Office of Public Utility Counsel (Texas)

RESUME OF LANE KOLLEN, VICE PRESIDENT

Utilities

Allegheny Power System
Atlantic City Electric Company
Carolina Power & Light Company
Cleveland Electric Illuminating Company
Delmarva Power & Light Company
Duquesne Light Company
General Public Utilities
Georgia Power Company
Middle South Services
Nevada Power Company
Niagara Mohawk Power Corporation

Otter Tail Power Company
Pacific Gas & Electric Company
Public Service Electric & Gas
Public Service of Oklahoma
Rochester Gas and Electric
Savannah Electric & Power Company
Seminole Electric Cooperative
Southern California Edison
Talquin Electric Cooperative
Tampa Electric
Texas Utilities
Toledo Edison Company

Date	Case	Jurisdict.	Party	Utility	Subject
10/86	U-17282 Interim	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Cash revenue requirements financial solvency.
11/86	U-17282 Interim Rebuttal	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Cash revenue requirements financial solvency.
12/86	9613	KY	Attorney General Div. of Consumer Protection	Big Rivers Electric Corp.	Revenue requirements accounting adjustments financial workout plan.
1/87	U-17282 Interim	LA 19th Judicial District Ct.	Louisiana Public Service Commission Staff	Gulf States Utilities	Cash revenue requirements, financial solvency.
3/87	General Order 236	WV	West Virginia Energy Users' Group	Monongahela Power Co.	Tax Reform Act of 1986.
4/87	U-17282 Prudence	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Prudence of River Bend 1, economic analyses, cancellation studies.
4/87	M-100 Sub 113	NC	North Carolina Industrial Energy Consumers	Duke Power Co.	Tax Reform Act of 1986.
5/87	86-524-E-SC	WV	West Virginia Energy Users' Group	Monongahela Power Co.	Revenue requirements, Tax Reform Act of 1986.
5/87	U-17282 Case In Chief	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, River Bend 1 phase-in plan, financial solvency.
7/87	U-17282 Case In Chief Surrebuttal	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, River Bend 1 phase-in plan, financial solvency.
7/87	U-17282 Prudence Surrebuttal	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Prudence of River Bend 1, economic analyses, cancellation studies.
7/87	86-524 E-SC Rebuttal	WV	West Virginia Energy Users' Group	Monongahela Power Co.	Revenue requirements, Tax Reform Act of 1986.
8/87	9885	KY	Attorney General Div. of Consumer Protection	Big Rivers Electric Corp.	Financial workout plan.
8/87	E-015/GR-87-223	MN	Taconite Intervenors	Minnesota Power & Light Co.	Revenue requirements, O&M expense, Tax Reform Act of 1986.
10/87	870220-EI	FL	Occidental Chemical Corp.	Florida Power Corp.	Revenue requirements, O&M expense, Tax Reform Act of 1986.
11/87	87-07-01	СТ	Connecticut Industrial Energy Consumers	Connecticut Light & Power Co.	Tax Reform Act of 1986.
1/88	U-17282	LA 19th Judicial District Ct.	Louisiana Public Service Commission	Gulf States Utilities	Revenue requirements, River Bend 1 phase-in plan, rate of return.
2/88	9934	KY	Kentucky Industrial Utility Customers	Louisville Gas & Electric Co.	Economics of Trimble County, completion.
2/88	10064	KY	Kentucky Industrial Utility Customers	Louisville Gas & Electric Co.	Revenue requirements, O&M expense, capital structure, excess deferred income taxes.

Date	Case	Jurisdict.	Party	Utility	Subject
5/88	10217	KY	Alcan Aluminum National Southwire	Big Rivers Electric Corp.	Financial workout plan.
5/88	M-87017-1C001	PA	GPU Industrial Intervenors	Metropolitan Edison Co.	Nonutility generator deferred cost recovery.
5/88	M-87017-2C005	PA	GPU Industrial Intervenors	Pennsylvania Electric Co.	Nonutility generator deferred cost recovery.
6/88	U-17282	LA 19th Judicial District Ct.	Louisiana Public Service Commission	Gulf States Utilities	Prudence of River Bend 1 economic analyses, cancellation studies, financial modeling.
7/88	M-87017-1C001 Rebuttal	PA	GPU Industrial Intervenors	Metropolitan Edison Co.	Nonutility generator deferred cost recovery, SFAS No. 92.
7/88	M-87017-2C005 Rebuttal	PA	GPU Industrial Intervenors	Pennsylvania Electric Co.	Nonutility generator deferred cost recovery, SFAS No. 92.
9/88	88-05-25	СТ	Connecticut Industrial Energy Consumers	Connecticut Light & Power Co.	Excess deferred taxes, O&M expenses.
9/88	10064 Rehearing	KY	Kentucky Industrial Utility Customers	Louisville Gas & Electric Co.	Premature retirements, interest expense.
10/88	88-170-EL-AIR	ОН	Ohio Industrial Energy Consumers	Cleveland Electric Illuminating Co.	Revenue requirements, phase-in, excess deferred taxes, O&M expenses, financial considerations, working capital.
10/88	88-171-EL-AIR	ОН	Ohio Industrial Energy Consumers	Toledo Edison Co.	Revenue requirements, phase-in, excess deferred taxes, O&M expenses, financial considerations, working capital.
10/88	8800-355-EI	FL	Florida Industrial Power Users' Group	Florida Power & Light Co.	Tax Reform Act of 1986, tax expenses, O&M expenses, pension expense (SFAS No. 87).
10/88	3780-U	GA	Georgia Public Service Commission Staff	Atlanta Gas Light Co.	Pension expense (SFAS No. 87).
11/88	U-17282 Remand	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Rate base exclusion plan (SFAS No. 71).
12/88	U-17970	LA	Louisiana Public Service Commission Staff	AT&T Communications of South Central States	Pension expense (SFAS No. 87).
12/88	U-17949 Rebuttal	LA	Louisiana Public Service Commission Staff	South Central Bell	Compensated absences (SFAS No. 43), pension expense (SFAS No. 87), Part 32, income tax normalization.
2/89	U-17282 Phase II	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, phase-in of River Bend 1, recovery of canceled plant.
6/89	881602-EU 890326-EU	FL	Talquin Electric Cooperative	Talquin/City of Tallahassee	Economic analyses, incremental cost-of-service, average customer rates.
7/89	U-17970	LA	Louisiana Public Service Commission Staff	AT&T Communications of South Central States	Pension expense (SFAS No. 87), compensated absences (SFAS No. 43), Part 32.
8/89	8555	TX	Occidental Chemical Corp.	Houston Lighting & Power Co.	Cancellation cost recovery, tax expense, revenue requirements.

Date	Case	Jurisdict.	Party	Utility	Subject
8/89	3840-U	GA	Georgia Public Service Commission Staff	Georgia Power Co.	Promotional practices, advertising, economic development.
9/89	U-17282 Phase II Detailed	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, detailed investigation.
10/89	8880	TX	Enron Gas Pipeline	Texas-New Mexico Power Co.	Deferred accounting treatment, sale/leaseback
10/89	8928	TX	Enron Gas Pipeline	Texas-New Mexico Power Co.	Revenue requirements, imputed capital structure, cash working capital.
10/89	R-891364	PA	Philadelphia Area Industrial Energy Users Group	Philadelphia Electric Co.	Revenue requirements.
11/89 12/89	R-891364 Surrebuttal (2 Filings)	PA	Philadelphia Area Industrial Energy Users Group	Philadelphia Electric Co.	Revenue requirements, sale/leaseback.
1/90	U-17282 Phase II Detailed Rebuttal	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, detailed investigation.
1/90	U-17282 Phase III	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Phase-in of River Bend 1, deregulated asset plan.
3/90	890319-EI	FL	Florida Industrial Power Users Group	Florida Power & Light Co.	O&M expenses, Tax Reform Act of 1986.
4/90	890319-El Rebuttal	FL	Florida Industrial Power Users Group	Florida Power & Light Co.	O&M expenses, Tax Reform Act of 1986.
4/90	U-17 28 2	LA 19th Judicial District Ct.	Louisiana Public Service Commission	Gulf States Utilities	Fuel clause, gain on sale of utility assets.
9/90	90-158	KY	Kentucky Industrial Utility Customers	Louisville Gas & Electric Co.	Revenue requirements, post-test year additions, forecasted test year.
12/90	U-17282 Phase IV	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements.
3/91	29327, et. al.	NY	Multiple Intervenors	Niagara Mohawk Power Corp.	Incentive regulation.
5/91	9945	TX	Office of Public Utility Counsel of Texas	El Paso Electric Co.	Financial modeling, economic analyses, prudence of Palo Verde 3.
9/91	P-910511 P-910512	PA	Allegheny Ludlum Corp., Armco Advanced Materials Co., The West Penn Power Industrial Users' Group	West Penn Power Co.	Recovery of CAAA costs, least cost financing.
9/91	91-231-E-NC	W	West Virginia Energy Users Group	Monongahela Power Co.	Recovery of CAAA costs, least cost financing.
11/91	U-17282	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Asset impairment, deregulated asset plan, revenue requirements.

Date	Case	Jurisdict.	Party	Utility	Subject
12/91	91-410-EL-AIR	ОН	Air Products and Chemicals, Inc., Armco Steel Co., General Electric Co., Industrial Energy Consumers	Cincinnati Gas & Electric Co.	Revenue requirements, phase-in plan.
12/91	PUC Docket 10200	TX	Office of Public Utility Counsel of Texas	Texas-New Mexico Power Co.	Financial integrity, strategic planning, declined business affiliations.
5/92	910890-EI	FL	Occidental Chemical Corp.	Florida Power Corp.	Revenue requirements, O&M expense, pension expense, OPEB expense, fossil dismantling, nuclear decommissioning.
8/92	R-00922314	PA	GPU Industrial Intervenors	Metropolitan Edison Co.	Incentive regulation, performance rewards, purchased power risk, OPEB expense.
9/92	92-043	KY	Kentucky Industrial Utility Consumers	Generic Proceeding	OPEB expense.
9/92	920324-EI	FL	Florida Industrial Power Users' Group	Tampa Electric Co.	OPEB expense.
9/92	39348	IN	Indiana Industrial Group	Generic Proceeding	OPEB expense.
9/92	910840-PU	FL	Florida Industrial Power Users' Group	Generic Proceeding	OPEB expense.
9/92	39314	IN	Industrial Consumers for Fair Utility Rates	Indiana Michigan Power Co.	OPEB expense.
11/92	U-19904	LA	Louisiana Public Service Commission Staff	Gulf States Utilities /Entergy Corp.	Merger.
11/92	8649	MD	Westvaco Corp., Eastalco Aluminum Co.	Potomac Edison Co.	OPEB expense.
11/92	92-1715-AU-COI	ОН	Ohio Manufacturers Association	Generic Proceeding	OPEB expense.
12/92	R-00922378	PA	Armco Advanced Materials Co., The WPP Industrial Intervenors	West Penn Power Co.	Incentive regulation, performance rewards, purchased power risk, OPEB expense.
12/92	U-19949	LA	Louisiana Public Service Commission Staff	South Central Bell	Affiliate transactions, cost allocations, merger.
12/92	R-00922479	PA	Philadelphia Area Industrial Energy Users' Group	Philadelphia Electric Co.	OPEB expense.
1/93	8487	MD	Maryland Industrial Group	Baltimore Gas & Electric Co., Bethlehem Steel Corp.	OPEB expense, deferred fuel, CWIP in rate base.
1/93	39498	IN	PSI Industrial Group	PSI Energy, Inc.	Refunds due to over-collection of taxes on Marble Hill cancellation.
3/93	92-11-11	СТ	Connecticut Industrial Energy Consumers	Connecticut Light & Power Co	OPEB expense.
3/93	U-19904 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities /Entergy Corp.	Merger.

Date	Case	Jurisdict.	Party	Utility	Subject
3/93	93-01-EL-EFC	ОН	Ohio Industrial Energy Consumers	Ohio Power Co.	Affiliate transactions, fuel.
3/93	EC92-21000 ER92-806-000	FERC	Louisiana Public Service Commission Staff	Gulf States Utilities /Entergy Corp.	Merger.
4/93	92-1464-EL-AIR	ОН	Air Products Armco Steel Industrial Energy Consumers	Cincinnati Gas & Electric Co.	Revenue requirements, phase-in plan.
4/93	EC92-21000 ER92-806-000 (Rebuttal)	FERC	Louisiana Public Service Commission	Gulf States Utilities /Entergy Corp.	Merger.
9/93	93-113	KY	Kentucky Industrial Utility Customers	Kentucky Utilities	Fuel clause and coal contract refund.
9/93	92-490, 92-490A, 90-360-C	KY	Kentucky Industrial Utility Customers and Kentucky Attomey General	Big Rivers Electric Corp.	Disallowances and restitution for excessive fuel costs, illegal and improper payments, recovery of mine closure costs.
10/93	U-17735	LA	Louisiana Public Service Commission Staff	Cajun Electric Power Cooperative	Revenue requirements, debt restructuring agreement, River Bend cost recovery.
1/94	U-20647	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Audit and investigation into fuel clause costs.
4/94	U-20647 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Nuclear and fossil unit performance, fuel costs, fuel clause principles and guidelines.
4/94	U-20647 (Supplemental Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Audit and investigation into fuel clause costs.
5/94	U-20178	LA	Louisiana Public Service Commission Staff	Louisiana Power & Light Co.	Planning and quantification issues of least cost integrated resource plan.
9/94	U-19904 Initial Post-Merger Earnings Review	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	River Bend phase-in plan, deregulated asset plan, capital structure, other revenue requirement issues.
9/94	U-17735	LA ₂	Louisiana Public Service Commission Staff	Cajun Electric Power Cooperative	G&T cooperative ratemaking policies, exclusion of River Bend, other revenue requirement issues.
10/94	3905-U	GA	Georgia Public Service Commission Staff	Southern Bell Telephone Co.	Incentive rate plan, earnings review.
10/94	5258-U	GA	Georgia Public Service Commission Staff	Southern Bell Telephone Co.	Alternative regulation, cost allocation.
11/94	U-19904 Initial Post-Merger Earnings Review (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	River Bend phase-in plan, deregulated asset plan, capital structure, other revenue requirement issues.
11/94	U-17735 (Rebuttal)	LA	Louisiana Public Service Commission Staff	Cajun Electric Power Cooperative	G&T cooperative ratemaking policy, exclusion of River Bend, other revenue requirement issues.
4/95	R-00943271	PA	PP&L Industrial Customer Alliance	Pennsylvania Power & Light Co.	Revenue requirements. Fossil dismantling, nuclear decommissioning.

Date	Case	Jurisdict.	Party	Utility	Subject
6/95	3905-U Rebuttal	GA	Georgia Public Service Commission	Southern Bell Telephone Co.	Incentive regulation, affiliate transactions, revenue requirements, rate refund.
6/95	U-19904 (Direct)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Gas, coal, nuclear fuel costs, contract prudence, base/fuel realignment.
10/95	95-02614	TN	Tennessee Office of the Attorney General Consumer Advocate	BellSouth Telecommunications, Inc.	Affiliate transactions.
10/95	U-21485 (Direct)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Nuclear O&M, River Bend phase-in plan, base/fuel realignment, NOL and AltMin asset deferred taxes, other revenue requirement issues.
11/95	U-19904 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co. Division	Gas, coal, nuclear fuel costs, contract prudence, base/fuel realignment.
11/95 12/95	U-21485 (Supplemental Direct) U-21485 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Nuclear O&M, River Bend phase-in plan, base/fuel realignment, NOL and AltMin asset deferred taxes, other revenue requirement issues.
1/96	95-299-EL-AIR 95-300-EL-AIR	ОН	Industrial Energy Consumers	The Toledo Edison Co., The Cleveland Electric Illuminating Co.	Competition, asset write-offs and revaluation, O&M expense, other revenue requirement issues.
2/96	PUC Docket 14965	TX	Office of Public Utility Counsel	Central Power & Light	Nuclear decommissioning.
5/96	95-485-LCS	NM	City of Las Cruces	El Paso Electric Co.	Stranded cost recovery, municipalization.
7/96	8725	MD	The Maryland Industrial Group and Redland Genstar, Inc.	Baltimore Gas & Electric Co., Potomac Electric Power Co., and Constellation Energy Corp.	Merger savings, tracking mechanism, earnings sharing plan, revenue requirement issues.
9/96 11/96	U-22092 U-22092 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	River Bend phase-in plan, base/fuel realignment, NOL and AltMin asset deferred taxes, other revenue requirement issues, allocation of regulated/nonregulated costs.
10/96	96-327	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Environmental surcharge recoverable costs.
2/97	R-00973877	PA	Philadelphia Area Industrial Energy Users Group	PECO Energy Co.	Stranded cost recovery, regulatory assets and liabilities, intangible transition charge, revenue requirements.
3/97	96-489	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Co.	Environmental surcharge recoverable costs, system agreements, allowance inventory, jurisdictional allocation.
6/97	TO-97-397	МО	MCI Telecommunications Corp., Inc., MCImetro Access Transmission Services, Inc.	Southwestern Bell Telephone Co.	Price cap regulation, revenue requirements, rate of return.

Date	Case	Jurisdict.	Party	Utility	Subject
6/97	R-00973953	PA	Philadelphia Area Industrial Energy Users Group	PECO Energy Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning.
7/97	R-00973954	PA	PP&L Industrial Customer Alliance	Pennsylvania Power & Light Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning.
7/97	U-22092	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Depreciation rates and methodologies, River Bend phase-in plan.
8/97	97-300	КҮ	Kentucky Industrial Utility Customers, Inc.	Louisville Gas & Electric Co., Kentucky Utilities Co.	Merger policy, cost savings, surcredit sharing mechanism, revenue requirements, rate of return.
8/97	R-00973954 (Surrebuttal)	PA	PP&L Industrial Customer Alliance	Pennsylvania Power & Light Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning.
10/97	97-204	KY	Alcan Aluminum Corp. Southwire Co.	Big Rivers Electric Corp.	Restructuring, revenue requirements, reasonableness.
10/97	R-974008	PA	Metropolitan Edison Industrial Users Group	Metropolitan Edison Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning, revenue requirements.
10/97	R-974009	PA	Penelec Industrial Customer Alliance	Pennsylvania Electric Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning, revenue requirements.
11/97	97-204 (Rebuttal)	KY	Alcan Aluminum Corp. Southwire Co.	Big Rivers Electric Corp.	Restructuring, revenue requirements, reasonableness of rates, cost allocation.
11/97	U-22491	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, other revenue requirement issues.
11/97	R-00973953 (Surrebuttal)	PA	Philadelphia Area Industrial Energy Users Group	PECO Energy Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning.
11/97	R-973981	PA	West Penn Power Industrial Intervenors	West Penn Power Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, fossil decommissioning, revenue requirements, securitization.
11/97	R-974104	PA	Duquesne Industrial Intervenors	Duquesne Light Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning, revenue requirements, securitization.
12/97	R-973981 (Surrebuttal)	PA	West Penn Power Industrial Intervenors	West Penn Power Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, fossil decommissioning, revenue requirements.
12/97	R-974104 (Surrebuttal)	PA	Duquesne Industrial Intervenors	Duquesne Light Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning, revenue requirements, securitization.
1/98	U-22491 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, other revenue requirement issues.

Date	Case	Jurisdict.	Party	Utility	Subject
2/98	8774	MD	Westvaco	Potomac Edison Co.	Merger of Duquesne, AE, customer safeguards, savings sharing.
3/98	U-22092 (Allocated Stranded Cost Issues)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Restructuring, stranded costs, regulatory assets, securitization, regulatory mitigation.
3/98	8390-U	GA	Georgia Natural Gas Group, Georgia Textile Manufacturers Assoc.	Atlanta Gas Light Co.	Restructuring, unbundling, stranded costs, incentive regulation, revenue requirements.
3/98	U-22092 (Allocated Stranded Cost Issues) (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Restructuring, stranded costs, regulatory assets, securitization, regulatory mitigation.
3/98	U-22491 (Supplemental Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, other revenue requirement issues.
10/98	97-596	ME	Maine Office of the Public Advocate	Bangor Hydro- Electric Co.	Restructuring, unbundling, stranded costs, T&D revenue requirements.
10/98	9355-U	GA	Georgia Public Service Commission Adversary Staff	Georgia Power Co.	Affiliate transactions.
10/98	U-17735	LA	Louisiana Public Service Commission Staff	Cajun Electric Power Cooperative	G&T cooperative ratemaking policy, other revenue requirement issues.
11/98	U-23327	LA	Louisiana Public Service Commission Staff	SWEPCO, CSW and AEP	Merger policy, savings sharing mechanism, affiliate transaction conditions.
12/98	U-23358 (Direct)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, tax issues, and other revenue requirement issues.
12/98	98-577	ME	Maine Office of Public Advocate	Maine Public Service Co.	Restructuring, unbundling, stranded cost, T&D revenue requirements.
1/99	98-10-07	СТ	Connecticut Industrial Energy Consumers	United Illuminating Co.	Stranded costs, investment tax credits, accumulated deferred income taxes, excess deferred income taxes.
3/99	U-23358 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, tax issues, and other revenue requirement issues.
3/99	98-474	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co.	Revenue requirements, alternative forms of regulation.
3/99	98-426	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements, alternative forms of regulation.
3/99	99-082	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co.	Revenue requirements.
3/99	99-083	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements.

Date	Case	Jurisdict.	Party	Utility	Subject
4/99	U-23358 (Supplemental Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, tax issues, and other revenue requirement issues.
4/99	99-03-04	СТ	Connecticut Industrial Energy Consumers	United Illuminating Co.	Regulatory assets and liabilities, stranded costs, recovery mechanisms.
4/99	99-02-05	Ct	Connecticut Industrial Utility Customers	Connecticut Light and Power Co.	Regulatory assets and liabilities, stranded costs, recovery mechanisms.
5/99	98-426 99-082 (Additional Direct)	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co.	Revenue requirements.
5/99	98-474 99-083 (Additional Direct)	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements.
5/99	98-426 98-474 (Response to Amended Applications)	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co., Kentucky Utilities Co.	Alternative regulation.
6/99	97-596	ME	Maine Office of Public Advocate	Bangor Hydro- Electric Co.	Request for accounting order regarding electric industry restructuring costs.
6/99	U-23358	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Affiliate transactions, cost allocations.
7/99	99-03-35	СТ	Connecticut Industrial Energy Consumers	United Illuminating Co.	Stranded costs, regulatory assets, tax effects of asset divestiture.
7/99	U-23327	LA	Louisiana Public Service Commission Staff	Southwestern Electric Power Co., Central and South West Corp, American Electric Power Co.	Merger Settlement and Stipulation.
7/99	97-596 Surrebuttal	ME	Maine Office of Public Advocate	Bangor Hydro- Electric Co.	Restructuring, unbundling, stranded cost, T&D revenue requirements.
7/99	98-0452-E-GI	WV	West Virginia Energy Users Group	Monongahela Power, Potomac Edison, Appalachian Power, Wheeling Power	Regulatory assets and liabilities.
8/99	98-577 Surrebuttal	ME	Maine Office of Public Advocate	Maine Public Service Co.	Restructuring, unbundling, stranded costs, T&D revenue requirements.
8/99	98-426 99-082 Rebuttal	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co.	Revenue requirements.
8/99	98-474 98-083 Rebuttal	КҮ	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements.

Date	Case	Jurisdict.	Party	Utility	Subject
8/99	98-0452-E-GI Rebuttal	WV	West Virginia Energy Users Group	Monongahela Power, Potomac Edison, Appalachian Power, Wheeling Power	Regulatory assets and liabilities.
10/99	U-24182 Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, affiliate transactions, tax issues, and other revenue requirement issues.
11/99	PUC Docket 21527	TX	The Dallas-Fort Worth Hospital Council and Coalition of Independent Colleges and Universities	TXU Electric	Restructuring, stranded costs, taxes, securitization.
11/99	U-23358 Surrebuttal Affiliate Transactions Review	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Service company affiliate transaction costs.
01/00	U-24182 Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, affiliate transactions, tax issues, and other revenue requirement issues.
04/00	99-1212-EL-ETP 99-1213-EL-ATA 99-1214-EL-AAM	ОН	Greater Cleveland Growth Association	First Energy (Cleveland Electric Illuminating, Toledo Edison)	Historical review, stranded costs, regulatory assets, liabilities.
05/00	2000-107	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Co.	ECR surcharge roll-in to base rates.
05/00	U-24182 Supplemental Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Affiliate expense proforma adjustments.
05/00	A-110550F0147	PA	Philadelphia Area Industrial Energy Users Group	PECO Energy	Merger between PECO and Unicom.
05/00	99-1658-EL-ETP	ОН	AK Steel Corp.	Cincinnati Gas & Electric Co.	Regulatory transition costs, including regulatory assets and liabilities, SFAS 109, ADIT, EDIT, ITC.
07/00	PUC Docket 22344	TX	The Dallas-Fort Worth Hospital Council and The Coalition of Independent Colleges and Universities	Statewide Generic Proceeding	Escalation of O&M expenses for unbundled T&D revenue requirements in projected test year.
07/00	U-21453	LA	Louisiana Public Service Commission	SWEPCO	Stranded costs, regulatory assets and liabilities.
08/00	U-24064	LA	Louisiana Public Service Commission Staff	CLECO	Affiliate transaction pricing ratemaking principles, subsidization of nonregulated affiliates, ratemaking adjustments.
10/00	SOAH Docket 473-00-1015 PUC Docket 22350	TX	The Dallas-Fort Worth Hospital Council and The Coalition of Independent Colleges and Universities	TXU Electric Co.	Restructuring, T&D revenue requirements, mitigation, regulatory assets and liabilities.

Date	Case	Jurisdict.	Party	Utility	Subject
10/00	R-00974104 Affidavit	PA	Duquesne Industrial Intervenors	Duquesne Light Co.	Final accounting for stranded costs, including treatment of auction proceeds, taxes, capital costs, switchback costs, and excess pension funding.
11/00	P-00001837 R-00974008 P-00001838 R-00974009	PA	Metropolitan Edison Industrial Users Group Penelec Industrial Customer Alliance	Metropolitan Edison Co., Pennsylvania Electric Co.	Final accounting for stranded costs, including treatment of auction proceeds, taxes, regulatory assets and liabilities, transaction costs.
12/00	U-21453, U-20925, U-22092 (Subdocket C) Surrebuttal	LA	Louisiana Public Service Commission Staff	SWEPCO	Stranded costs, regulatory assets.
01/01	U-24993 Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, tax issues, and other revenue requirement issues.
01/01	U-21453, U-20925, U-22092 (Subdocket B) Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Industry restructuring, business separation plan, organization structure, hold harmless conditions, financing.
01/01	Case No. 2000-386	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas & Electric Co.	Recovery of environmental costs, surcharge mechanism.
01/01	Case No. 2000-439	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Recovery of environmental costs, surcharge mechanism.
02/01	A-110300F0095 A-110400F0040	PA	Met-Ed Industrial Users Group, Penelec Industrial Customer Alliance	GPU, Inc. FirstEnergy Corp.	Merger, savings, reliability.
03/01	P-00001860 P-00001861	PA	Met-Ed Industrial Users Group, Penelec Industrial Customer Alliance	Metropolitan Edison Co., Pennsylvania Electric Co.	Recovery of costs due to provider of last resort obligation.
04/01	U-21453, U-20925, U-22092 (Subdocket B) Settlement Term Sheet	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Business separation plan: settlement agreement on overall plan structure.
04/01	U-21453, U-20925, U-22092 (Subdocket B) Contested Issues	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Business separation plan: agreements, hold harmless conditions, separations methodology.
05/01	U-21453, U-20925, U-22092 (Subdocket B) Contested Issues Transmission and Distribution Rebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Business separation plan: agreements, hold harmless conditions, separations methodology.

Date	Case	Jurisdict.	Party	Utility	Subject
07/01	U-21453, U-20925, U-22092 (Subdocket B) Transmission and Distribution Term Sheet	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Business separation plan: settlement agreement on T&D issues, agreements necessary to implement T&D separations, hold harmless conditions, separations methodology.
10/01	14000-U	GA	Georgia Public Service Commission Adversary Staff	Georgia Power Company	Revenue requirements, Rate Plan, fuel clause recovery.
11/01	14311-U Direct Panel with Bolin Killings	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co	Revenue requirements, revenue forecast, O&M expense, depreciation, plant additions, cash working capital.
11/01	U-25687 Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, capital structure, allocation of regulated and nonregulated costs, River Bend uprate.
02/02	PUC Docket 25230	TX	The Dallas-Fort Worth Hospital Council and the Coalition of Independent Colleges and Universities	TXU Electric	Stipulation. Regulatory assets, securitization financing.
02/02	U-25687 Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, River Bend uprate.
03/02	14311-U Rebuttal Panel with Bolin Killings	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Revenue requirements, earnings sharing plan, service quality standards.
03/02	14311-U Rebuttal Panel with Michelle L. Thebert	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Revenue requirements, revenue forecast, O&M expense, depreciation, plant additions, cash working capital.
03/02	001148-EI	FL	South Florida Hospital and Healthcare Assoc.	Florida Power & Light Co.	Revenue requirements. Nuclear life extension, storm damage accruals and reserve, capital structure, O&M expense.
04/02	U-25687 (Suppl. Surrebuttal)	LA	Louisiana Public Service Commission	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, River Bend uprate.
04/02	U-21453, U-20925 U-22092 (Subdocket C)	LA	Louisiana Public Service Commission	SWEPCO	Business separation plan, T&D Term Sheet, separations methodologies, hold harmless conditions.
08/02	EL01-88-000	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	System Agreement, production cost equalization, tariffs.
08/02	U-25888	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc. and Entergy Louisiana, Inc.	System Agreement, production cost disparities, prudence.
09/02	2002-00224 2002-00225	KY	Kentucky Industrial Utilities Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric Co.	Line losses and fuel clause recovery associated with off-system sales.

Date	Case	Jurisdict.	Party	Utility	Subject
11/02	2002-00146 2002-00147	KY	Kentucky Industrial Utilities Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric Co.	Environmental compliance costs and surcharge recovery.
01/03	2002-00169	KY	Kentucky Industrial Utilities Customers, Inc.	Kentucky Power Co.	Environmental compliance costs and surcharge recovery.
04/03	2002-00429 2002-00430	KY	Kentucky Industrial Utilities Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric Co.	Extension of merger surcredit, flaws in Companies' studies.
04/03	U-26527	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, capital structure, post-test year adjustments.
06/03	EL01-88-000 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	System Agreement, production cost equalization, tariffs.
06/03	2003-00068	KY	Kentucky Industrial Utility Customers	Kentucky Utilities Co.	Environmental cost recovery, correction of base rate error.
11/03	ER03-753-000	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Unit power purchases and sale cost-based tariff pursuant to System Agreement.
11/03	ER03-583-000, ER03-583-001, ER03-583-002	FERC	Louisiana Public Service Commission	Entergy Services, Inc., the Entergy Operating	Unit power purchases and sale agreements, contractual provisions, projected costs, levelized rates, and formula rates.
	ER03-681-000, ER03-681-001			Companies, EWO Marketing, L.P, and Entergy Power, Inc.	
	ER03-682-000, ER03-682-001, ER03-682-002			3,	
	ER03-744-000, ER03-744-001 (Consolidated)				
12/03	U-26527 Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, capital structure, post-test year adjustments.
12/03	2003-0334 2003-0335	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric Co.	Earnings Sharing Mechanism.
12/03	U-27136	LA	Louisiana Public Service Commission Staff	Entergy Louisiana, Inc.	Purchased power contracts between affiliates, terms and conditions.
03/04	U-26527 Supplemental Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, capital structure, post-test year adjustments.
03/04	2003-00433	КҮ	Kentucky Industrial Utility Customers, Inc.	Louisville Gas & Electric Co.	Revenue requirements, depreciation rates, O&M expense, deferrals and amortization, earnings sharing mechanism, merger surcredit, VDT surcredit.

Date	Case	Jurisdict.	Party	Utility	Subject
03/04	2003-00434	КҮ	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements, depreciation rates, O&M expense, deferrals and amortization, earnings sharing mechanism, merger surcredit, VDT surcredit.
03/04	SOAH Docket 473-04-2459 PUC Docket 29206	TX	Cities Served by Texas- New Mexico Power Co.	Texas-New Mexico Power Co.	Stranded costs true-up, including valuation issues, ITC, ADIT, excess earnings.
05/04	04-169-EL-UNC	ОН	Ohio Energy Group, Inc.	Columbus Southern Power Co. & Ohio Power Co.	Rate stabilization plan, deferrals, T&D rate increases, earnings.
06/04	SOAH Docket 473-04-4555 PUC Docket 29526	TX	Houston Council for Health and Education	CenterPoint Energy Houston Electric	Stranded costs true-up, including valuation issues, ITC, EDIT, excess mitigation credits, capacity auction true-up revenues, interest.
08/04	SOAH Docket 473-04-4555 PUC Docket 29526 (Suppl Direct)	TX	Houston Council for Health and Education	CenterPoint Energy Houston Electric	Interest on stranded cost pursuant to Texas Supreme Court remand.
09/04	U-23327 Subdocket B	LA	Louisiana Public Service Commission Staff	SWEPCO	Fuel and purchased power expenses recoverable through fuel adjustment clause, trading activities, compliance with terms of various LPSC Orders.
10/04	U-23327 Subdocket A	LA	Louisiana Public Service Commission Staff	SWEPCO	Revenue requirements.
12/04	Case Nos. 2004-00321, 2004-00372	KY	Gallatin Steel Co.	East Kentucky Power Cooperative, Inc., Big Sandy Recc, et al.	Environmental cost recovery, qualified costs, TIER requirements, cost allocation.
01/05	30485	TX	Houston Council for Health and Education	CenterPoint Energy Houston Electric, LLC	Stranded cost true-up including regulatory Central Co. assets and liabilities, ITC, EDIT, capacity auction, proceeds, excess mitigation credits, retrospective and prospective ADIT.
02/05	18638-U	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Revenue requirements.
02/05	18638-U Panel with Tony Wackerly	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Comprehensive rate plan, pipeline replacement program surcharge, performance based rate plan.
02/05	18638-U Panel with Michelle Thebert	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Energy conservation, economic development, and tariff issues.
03/05	Case Nos. 2004-00426, 2004-00421	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric	Environmental cost recovery, Jobs Creation Act of 2004 and §199 deduction, excess common equity ratio, deferral and amortization of nonrecurring O&M expense.
06/05	2005-00068	КҮ	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Co.	Environmental cost recovery, Jobs Creation Act of 2004 and §199 deduction, margins on allowances used for AEP system sales.

Date	Case	Jurisdict.	Party	Utility	Subject
06/05	050045-EI	FL	South Florida Hospital and Heallthcare Assoc.	Florida Power & Light Co.	Storm damage expense and reserve, RTO costs, O&M expense projections, return on equity performance incentive, capital structure, selective second phase post-test year rate increase.
08/05	31056	TX	Alliance for Valley Healthcare	AEP Texas Central Co.	Stranded cost true-up including regulatory assets and liabilities, ITC, EDIT, capacity auction, proceeds, excess mitigation credits, retrospective and prospective ADIT.
09/05	20298-U	GA	Georgia Public Service Commission Adversary Staff	Atmos Energy Corp.	Revenue requirements, roll-in of surcharges, cost recovery through surcharge, reporting requirements.
09/05	20298-U Panel with Victoria Taylor	GA	Georgia Public Service Commission Adversary Staff	Atmos Energy Corp.	Affiliate transactions, cost allocations, capitalization, cost of debt.
10/05	04-42	DE	Delaware Public Service Commission Staff	Artesian Water Co.	Allocation of tax net operating losses between regulated and unregulated.
11/05	2005-00351 2005-00352	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric	Workforce Separation Program cost recovery and shared savings through VDT surcredit.
01/06	2005-00341	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Co.	System Sales Clause Rider, Environmental Cost Recovery Rider. Net Congestion Rider, Storm damage, vegetation management program, depreciation, off-system sales, maintenance normalization, pension and OPEB.
03/06	PUC Docket 31994	TX	Cities	Texas-New Mexico Power Co.	Stranded cost recovery through competition transition or change.
05/06	31994 Supplemental	TX	Cities	Texas-New Mexico Power Co.	Retrospective ADFIT, prospective ADFIT.
03/06	U-21453, U-20925, U-22092	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Jurisdictional separation plan.
03/06	NOPR Reg 104385-OR	IRS	Alliance for Valley Health Care and Houston Council for Health Education	AEP Texas Central Company and CenterPoint Energy Houston Electric	Proposed Regulations affecting flow-through to ratepayers of excess deferred income taxes and investment tax credits on generation plant that is sold or deregulated.
04/06	U-25116	LA	Louisiana Public Service Commission Staff	Entergy Louisiana, Inc.	2002-2004 Audit of Fuel Adjustment Clause Filings. Affiliate transactions.
07/06	R-00061366, Et. al.	PA	Met-Ed Ind. Users Group Pennsylvania Ind. Customer Alliance	Metropolitan Edison Co., Pennsylvania Electric Co.	Recovery of NUG-related stranded costs, government mandated program costs, storm damage costs.
07/06	U-23327	LA	Louisiana Public Service Commission Staff	Southwestern Electric Power Co.	Revenue requirements, formula rate plan, banking proposal.
08/06	U-21453, U-20925, U-22092 (Subdocket J)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Jurisdictional separation plan.

Date	Case	Jurisdict.	Party	Utility	Subject
11/06	05CVH03-3375 Franklin County Court Affidavit	OH	Various Taxing Authorities (Non-Utility Proceeding)	State of Ohio Department of Revenue	Accounting for nuclear fuel assemblies as manufactured equipment and capitalized plant.
12/06	U-23327 Subdocket A Reply Testimony	LA	Louisiana Public Service Commission Staff	Southwestern Electric Power Co.	Revenue requirements, formula rate plan, banking proposal.
03/07	U-29764	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc., Entergy Louisiana, LLC	Jurisdictional allocation of Entergy System Agreement equalization remedy receipts.
03/07	PUC Docket 33309	TX	Cities	AEP Texas Central Co.	Revenue requirements, including functionalization of transmission and distribution costs.
03/07	PUC Docket 33310	TX	Cities	AEP Texas North Co.	Revenue requirements, including functionalization of transmission and distribution costs.
03/07	2006-00472	KY	Kentucky Industrial Utility Customers, Inc.	East Kentucky Power Cooperative	Interim rate increase, RUS loan covenants, credit facility requirements, financial condition.
03/07	U-29157	LA	Louisiana Public Service Commission Staff	Cleco Power, LLC	Permanent (Phase II) storm damage cost recovery.
04/07	U-29764 Supplemental and Rebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc., Entergy Louisiana, LLC	Jurisdictional allocation of Entergy System Agreement equalization remedy receipts.
04/07	ER07-682-000 Affidavit	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Allocation of intangible and general plant and A&G expenses to production and state income tax effects on equalization remedy receipts.
04/07	ER07-684-000 Affidavit	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Fuel hedging costs and compliance with FERC USOA.
05/07	ER07-682-000 Affidavit	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Allocation of intangible and general plant and A&G expenses to production and account 924 effects on MSS-3 equalization remedy payments and receipts.
06/07	U-29764	LA	Louisiana Public Service Commission Staff	Entergy Louisiana, LLC, Entergy Gulf States, Inc.	Show cause for violating LPSC Order on fuel hedging costs.
07/07	2006-00472	KY	Kentucky Industrial Utility Customers, Inc.	East Kentucky Power Cooperative	Revenue requirements, post-test year adjustments, TIER, surcharge revenues and costs, financial need.
07/07	ER07-956-000 Affidavit	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Storm damage costs related to Hurricanes Katrina and Rita and effects of MSS-3 equalization payments and receipts.
10/07	05-UR-103 Direct	WI	Wisconsin Industrial Energy Group	Wisconsin Electric Power Company, Wisconsin Gas, LLC	Revenue requirements, carrying charges on CWIP, amortization and return on regulatory assets, working capital, incentive compensation, use of rate base in lieu of capitalization, quantification and use of Point Beach sale proceeds.

Date	Case	Jurisdict.	Party	Utility	Subject
10/07	05-UR-103 Surrebuttal	WI	Wisconsin Industrial Energy Group	Wisconsin Electric Power Company, Wisconsin Gas, LLC	Revenue requirements, carrying charges on CWIP, amortization and return on regulatory assets, working capital, incentive compensation, use of rate base in lieu of capitalization, quantification and use of Point Beach sale proceeds.
10/07	25060-U Direct	GA	Georgia Public Service Commission Public Interest Adversary Staff	Georgia Power Company	Affiliate costs, incentive compensation, consolidated income taxes, §199 deduction.
11/07	06-0033-E-CN Direct	WV	West Virginia Energy Users Group	Appalachian Power Company	IGCC surcharge during construction period and post-in-service date.
11/07	ER07-682-000 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Functionalization and allocation of intangible and general plant and A&G expenses.
01/08	ER07-682-000 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Functionalization and allocation of intangible and general plant and A&G expenses.
01/08	07-551-EL-AIR Direct	ОН	Ohio Energy Group, Inc.	Ohio Edison Company, Cleveland Electric Illuminating Company, Toledo Edison Company	Revenue requirements.
02/08	ER07-956-000 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Functionalization of expenses, storm damage expense and reserves, tax NOL carrybacks in accounts, ADIT, nuclear service lives and effects on depreciation and decommissioning.
03/08	ER07-956-000 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Functionalization of expenses, storm damage expense and reserves, tax NOL carrybacks in accounts, ADIT, nuclear service lives and effects on depreciation and decommissioning.
04/08	2007-00562, 2007-00563	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co., Louisville Gas and Electric Co.	Merger surcredit.
04/08	26837 Direct Bond, Johnson, Thebert, Kollen Panel	GA	Georgia Public Service Commission Staff	SCANA Energy Marketing, Inc.	Rule Nisi complaint.
05/08	26837 Rebuttal Bond, Johnson, Thebert, Kollen Panel	GA	Georgia Public Service Commission Staff	SCANA Energy Marketing, Inc.	Rule Nisi complaint.
05/08	26837 Suppl Rebuttal Bond, Johnson, Thebert, Kollen Panel	GA	Georgia Public Service Commission Staff	SCANA Energy Marketing, Inc.	Rule Nisi complaint.

Date	Case	Jurisdict.	Party	Utility	Subject
06/08	2008-00115	КҮ	Kentucky Industrial Utility Customers, Inc.	East Kentucky Power Cooperative, Inc.	Environmental surcharge recoveries, including costs recovered in existing rates, TIER.
07/08	27163 Direct	GA	Georgia Public Service Commission Public Interest Advocacy Staff	Atmos Energy Corp.	Revenue requirements, including projected test year rate base and expenses.
07/08	27163 Taylor, Kollen Panel	GA	Georgia Public Service Commission Public Interest Advocacy Staff	Atmos Energy Corp.	Affiliate transactions and division cost allocations, capital structure, cost of debt.
08/08	6680-CE-170 Direct	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Power and Light Company	Nelson Dewey 3 or Colombia 3 fixed financial parameters.
08/08	6680-UR-116 Direct	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Power and Light Company	CWIP in rate base, labor expenses, pension expense, financing, capital structure, decoupling.
08/08	6680-UR-116 Rebuttal	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Power and Light Company	Capital structure.
08/08	6690-UR-119 Direct	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Public Service Corp.	Prudence of Weston 3 outage, incentive compensation, Crane Creek Wind Farm incremental revenue requirement, capital structure.
09/08	6690-UR-119 Surrebuttal	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Public Service Corp.	Prudence of Weston 3 outage, Section 199 deduction.
09/08	08-935-EL-SSO, 08-918-EL-SSO	ОН	Ohio Energy Group, Inc.	First Energy	Standard service offer rates pursuant to electric security plan, significantly excessive earnings test.
10/08	08-917-EL-SSO	ОН	Ohio Energy Group, Inc.	AEP	Standard service offer rates pursuant to electric security plan, significantly excessive earnings test.
10/08	2007-00564, 2007-00565, 2008-00251 2008-00252	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co., Kentucky Utilities Company	Revenue forecast, affiliate costs, depreciation expenses, federal and state income tax expense, capitalization, cost of debt.
11/08	EL08-51	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Spindletop gas storage facilities, regulatory asset and bandwidth remedy.
11/08	35717	TX	Cities Served by Oncor Delivery Company	Oncor Delivery Company	Recovery of old meter costs, asset ADFIT, cash working capital, recovery of prior year restructuring costs, levelized recovery of storm damage costs, prospective storm damage accrual, consolidated tax savings adjustment.
12/08	27800	GA	Georgia Public Service Commission	Georgia Power Company	AFUDC versus CWIP in rate base, mirror CWIP, certification cost, use of short term debt and trust preferred financing, CWIP recovery, regulatory incentive.
01/09	ER08-1056	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Entergy System Agreement bandwidth remedy calculations, including depreciation expense, ADIT, capital structure.
01/09	ER08-1056 Supplemental Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Blytheville leased turbines; accumulated depreciation.

Date	Case	Jurisdict.	Party	Utility	Subject
02/09	EL08-51 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Spindletop gas storage facilities regulatory asset and bandwidth remedy.
02/09	2008-00409 Direct	KY	Kentucky Industrial Utility Customers, Inc.	East Kentucky Power Cooperative, Inc.	Revenue requirements.
03/09	ER08-1056 Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Entergy System Agreement bandwidth remedy calculations, including depreciation expense, ADIT, capital structure.
03/09	U-21453, U-20925 U-22092 (Sub J) Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States Louisiana, LLC	Violation of EGSI separation order, ETI and EGSL separation accounting, Spindletop regulatory asset.
04/09	Rebuttal				
04/09	2009-00040 Direct-Interim (Oral)	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Emergency interim rate increase; cash requirements.
04/09	PUC Docket 36530	TX	State Office of Administrative Hearings	Oncor Electric Delivery Company, LLC	Rate case expenses.
05/09	ER08-1056 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Entergy System Agreement bandwidth remedy calculations, including depreciation expense, ADIT, capital structure.
06/09	2009-00040 Direct- Permanent	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Revenue requirements, TIER, cash flow.
07/09	080677-EI	FL	South Florida Hospital and Healthcare Association	Florida Power & Light Company	Multiple test years, GBRA rider, forecast assumptions, revenue requirement, O&M expense, depreciation expense, Economic Stimulus Bill, capital structure.
08/09	U-21453, U- 20925, U-22092 (Subdocket J) Supplemental Rebuttal	LA	Louisiana Public Service Commission	Entergy Gulf States Louisiana, LLC	Violation of EGSI separation order, ETI and EGSL separation accounting, Spindletop regulatory asset.
08/09	8516 and 29950	GA	Georgia Public Service Commission Staff	Atlanta Gas Light Company	Modification of PRP surcharge to include infrastructure costs.
09/09	05-UR-104 Direct and Surrebuttal	WI	Wisconsin Industrial Energy Group	Wisconsin Electric Power Company	Revenue requirements, incentive compensation, depreciation, deferral mitigation, capital structure, cost of debt.
09/09	09AL-299E	СО	CF&l Steel, Rocky Mountain Steel Mills LP, Climax Molybdenum Company	Public Service Company of Colorado	Forecasted test year, historic test year, proforma adjustments for major plant additions, tax depreciation.
09/09	6680-UR-117 Direct and Surrebuttal	WI	Wisconsin Industrial Energy Group	Wisconsin Power and Light Company	Revenue requirements, CWIP in rate base, deferral mitigation, payroll, capacity shutdowns, regulatory assets, rate of return.

Date	Case	Jurisdict.	Party	Utility	Subject
10/09	09A-415E Answer	СО	Cripple Creek & Victor Gold Mining Company, et al.	Black Hills/CO Electric Utility Company	Cost prudence, cost sharing mechanism.
10/09	EL09-50 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Waterford 3 sale/leaseback accumulated deferred income taxes, Entergy System Agreement bandwidth remedy calculations.
10/09	2009-00329	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Company, Kentucky Utilities Company	Trimble County 2 depreciation rates.
12/09	PUE-2009-00030	VA	Old Dominion Committee for Fair Utility Rates	Appalachian Power Company	Return on equity incentive.
12/09	ER09-1224 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Hypothetical versus actual costs, out of period costs, Spindletop deferred capital costs, Waterford 3 sale/leaseback ADIT.
01/10	ER09-1224 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Hypothetical versus actual costs, out of period costs, Spindletop deferred capital costs, Waterford 3 sale/leaseback ADIT.
01/10	EL09-50 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Waterford 3 sale/leaseback accumulated deferred income taxes, Entergy System Agreement
	Supplemental Rebuttal				bandwidth remedy calculations.
02/10	ER09-1224 Final	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Hypothetical versus actual costs, out of period costs, Spindletop deferred capital costs, Waterford 3 sale/leaseback ADIT.
02/10	30442 Wackerly-Kollen Panel	GA	Georgia Public Service Commission Staff	Atmos Energy Corporation	Revenue requirement issues.
02/10	30442 McBride-Kollen Panel	GA	Georgia Public Service Commission Staff	Atmos Energy Corporation	Affiliate/division transactions, cost allocation, capital structure.
02/10	2009-00353	KY	Kentucky Industrial Utility Customers, Inc., Attorney General	Louisville Gas and Electric Company, Kentucky Utilities	Ratemaking recovery of wind power purchased power agreements.
00/40	0000 00545	107	•	Company	
03/10	2009-00545	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Ratemaking recovery of wind power purchased power agreement.
03/10	E015/GR-09-1151	MN	Large Power Interveners	Minnesota Power	Revenue requirement issues, cost overruns on environmental retrofit project.
03/10	EL10-55	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Operating Cos	Depreciation expense and effects on System Agreement tariffs.
04/10	2009-00459	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Revenue requirement issues.

Date	Case	Jurisdict.	Party	Utility	Subject
04/10	2009-00458, 2009-00459	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Company, Louisville Gas and Electric Company	Revenue requirement issues.
08/10	31647	GA	Georgia Public Service Commission Staff	Atlanta Gas Light Company	Revenue requirement and synergy savings issues.
08/10	31647 Wackerly-Kollen Panel	GA	Georgia Public Service Commission Staff	Atlanta Gas Light Company	Affiliate transaction and Customer First program issues.
08/10	2010-00204	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Company, Kentucky Utilities Company	PPL acquisition of E.ON U.S. (LG&E and KU) conditions, acquisition savings, sharing deferral mechanism.
09/10	38339 Direct and Cross-Rebuttal	TX	Gulf Coast Coalition of Cities	CenterPoint Energy Houston Electric	Revenue requirement issues, including consolidated tax savings adjustment, incentive compensation FIN 48; AMS surcharge including roll-in to base rates; rate case expenses.
09/10	EL10-55	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Operating Cos	Depreciation rates and expense input effects on System Agreement tariffs.
09/10	2010-00167	КҮ	Gallatin Steel	East Kentucky Power Cooperative, Inc.	Revenue requirements.
09/10	U-23327 Subdocket E Direct	LA	Louisiana Public Service Commission	SWEPCO	Fuel audit: S02 allowance expense, variable O&M expense, off-system sales margin sharing.
11/10	U-23327 Rebuttal	LA	Louisiana Public Service Commission	SWEPCO	Fuel audit: S02 allowance expense, variable O&M expense, off-system sales margin sharing.
09/10	U-31351	LA	Louisiana Public Service Commission Staff	SWEPCO and Valley Electric Membership Cooperative	Sale of Valley assets to SWEPCO and dissolution of Valley.
10/10	10-1261-EL-UNC	ОН	Ohio OCC, Ohio Manufacturers Association, Ohio Energy Group, Ohio Hospital Association, Appalachian Peace and Justice Network	Columbus Southern Power Company	Significantly excessive earnings test.
10/10	10-0713-E-PC	WV	West Virginia Energy Users Group	Monongahela Power Company, Potomac Edison Power Company	Merger of First Energy and Allegheny Energy.
10/10	U-23327 Subdocket F Direct	LA	Louisiana Public Service Commission Staff	SWEPCO	AFUDC adjustments in Formula Rate Plan.
11/10	EL10-55 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Operating Cos	Depreciation rates and expense input effects on System Agreement tariffs.

Date	Case	Jurisdict.	Party	Utility	Subject
12/10	ER10-1350 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc. Entergy Operating Cos	Waterford 3 lease amortization, ADIT, and fuel inventory effects on System Agreement tariffs.
01/11	ER10-1350 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Operating Cos	Waterford 3 lease amortization, ADIT, and fuel inventory effects on System Agreement tariffs.
03/11	ER10-2001 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy	EAI depreciation rates.
04/11	Cross-Answering		COMMISSION	Arkansas, Inc.	
04/11	U-23327 Subdocket E	LA	Louisiana Public Service Commission Staff	SWEPCO	Settlement, incl resolution of S02 allowance expense, var O&M expense, sharing of OSS margins.
04/11 05/11	38306 Direct Suppl Direct	TX	Cities Served by Texas- New Mexico Power Company	Texas-New Mexico Power Company	AMS deployment plan, AMS Surcharge, rate case expenses.
05/11	11-0274-E-GI	WV	West Virginia Energy Users Group	Appalachian Power Company, Wheeling Power Company	Deferral recovery phase-in, construction surcharge.
05/11	2011-00036	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Revenue requirements.
06/11	29849	GA	Georgia Public Service Commission Staff	Georgia Power Company	Accounting issues related to Vogtle risk-sharing mechanism.
07/11	ER11-2161 Direct and Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and Entergy Texas, Inc.	ETI depreciation rates; accounting issues.
07/11	PUE-2011-00027	VA	Virginia Committee for Fair Utility Rates	Virginia Electric and Power Company	Return on equity performance incentive.
07/11	11-346-EL-SSO 11-348-EL-SSO 11-349-EL-AAM 11-350-EL-AAM	ОН	Ohio Energy Group	AEP-OH	Equity Stabilization Incentive Plan; actual earned returns; ADIT offsets in riders.
08/11	U-23327 Subdocket F Rebuttal	LA	Louisiana Public Service Commission Staff	SWEPCO	Depreciation rates and service lives; AFUDC adjustments.
08/11	05-UR-105	WI	Wisconsin Industrial Energy Group	WE Energies, Inc.	Suspended amortization expenses; revenue requirements.
08/11	ER11-2161 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and Entergy Texas, Inc.	ETI depreciation rates; accounting issues.
09/11	PUC Docket 39504	TX	Gulf Coast Coalition of Cities	CenterPoint Energy Houston Electric	Investment tax credit, excess deferred income taxes; normalization.
09/11	2011-00161 2011-00162	KY	Kentucky Industrial Utility Consumers, Inc.	Louisville Gas & Electric Company, Kentucky Utilities Company	Environmental requirements and financing.

Date	Case	Jurisdict.	Party	Utility	Subject
10/11	11-4571-EL-UNC 11-4572-EL-UNC	ОН	Ohio Energy Group	Columbus Southern Power Company, Ohio Power Company	Significantly excessive earnings.
10/11	4220-UR-117 Direct	WI	Wisconsin Industrial Energy Group	Northern States Power-Wisconsin	Nuclear O&M, depreciation.
11/11	4220-UR-117 Surrebuttal	WI	Wisconsin Industrial Energy Group	Northern States Power-Wisconsin	Nuclear O&M, depreciation.
11/11	PUC Docket 39722	TX	Cities Served by AEP Texas Central Company	AEP Texas Central Company	Investment tax credit, excess deferred income taxes; normalization.
02/12	PUC Docket 40020	TX	Cities Served by Oncor	Lone Star Transmission, LLC	Temporary rates.
03/12	11AL-947E Answer	СО	Climax Molybdenum Company and CF&I Steel, L.P. d/b/a Evraz Rocky Mountain Steel	Public Service Company of Colorado	Revenue requirements, including historic test year, future test year, CACJA CWIP, contra-AFUDC.
03/12	2011-00401	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Big Sandy 2 environmental retrofits and environmental surcharge recovery.
4/12	2011-00036 Direct Rehearing	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Rate case expenses, depreciation rates and expense.
	Supplemental Direct Rehearing				
04/12	10-2929-EL-UNC	ОН	Ohio Energy Group	AEP Ohio Power	State compensation mechanism, CRES capacity charges, Equity Stabilization Mechanism
05/12	11-346-EL-SSO 11-348-EL-SSO	ОН	Ohio Energy Group	AEP Ohio Power	State compensation mechanism, Equity Stabilization Mechanism, Retail Stability Rider.
05/12	11-4393-EL-RDR	ОН	Ohio Energy Group	Duke Energy Ohio, Inc.	Incentives for over-compliance on EE/PDR mandates.
06/12	40020	TX	Cities Served by Oncor	Lone Star Transmission, LLC	Revenue requirements, including ADIT, bonus depreciation and NOL, working capital, self insurance, depreciation rates, federal income tax expense.
07/12	120015-EI	FL	South Florida Hospital and Healthcare Association	Florida Power & Light Company	Revenue requirements, including vegetation management, nuclear outage expense, cash working capital, CWIP in rate base.
07/12	2012-00063	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Environmental retrofits, including environmental surcharge recovery.
09/12	05-UR-106	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Electric Power Company	Section 1603 grants, new solar facility, payroll expenses, cost of debt.
10/12	2012-00221 2012-00222	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Company, Kentucky Utilities Company	Revenue requirements, including off-system sales, outage maintenance, storm damage, injuries and damages, depreciation rates and expense.

Date	Case	Jurisdict.	Party	Utility	Subject
10/12	120015-EI Direct	FL	South Florida Hospital and Healthcare Association	Florida Power & Light Company	Settlement issues.
11/12	120015-EI Rebuttal	FL	South Florida Hospital and Healthcare Association	Florida Power & Light Company	Settlement issues.
10/12	40604	TX	Steering Committee of Cities Served by Oncor	Cross Texas Transmission, LLC	Policy and procedural issues, revenue requirements, including AFUDC, ADIT – bonus depreciation & NOL, incentive compensation, staffing, self-insurance, net salvage, depreciation rates and expense, income tax expense.
11/12	40627 Direct	TX	City of Austin d/b/a Austin Energy	City of Austin d/b/a Austin Energy	Rate case expenses.
12/12	40443	TX	Cities Served by SWEPCO	Southwestern Electric Power Company	Revenue requirements, including depreciation rates and service lives, O&M expenses, consolidated tax savings, CWIP in rate base, Turk plant costs.
12/12	U-29764	LA	Louisiana Public Service Commission Staff	Entergy Gulf States Louisiana, LLC and Entergy Louisiana, LLC	Termination of purchased power contracts between EGSL and ETI, Spindletop regulatory asset.
01/13	ER12-1384 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Gulf States Louisiana, LLC and Entergy Louisiana, LLC	Little Gypsy 3 cancellation costs.
02/13	40627 Rebuttal	TX	City of Austin d/b/a Austin Energy	City of Austin d/b/a Austin Energy	Rate case expenses.
03/13	12-426-EL-SSO	ОН	The Ohio Energy Group	The Dayton Power and Light Company	Capacity charges under state compensation mechanism, Service Stability Rider, Switching Tracker.
04/13	12-2400-EL-UNC	ОН	The Ohio Energy Group	Duke Energy Ohio, Inc.	Capacity charges under state compensation mechanism, deferrals, rider to recover deferrals.
04/13	2012-00578	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Resource plan, including acquisition of interest in Mitchell plant.
05/13	2012-00535	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Revenue requirements, excess capacity, restructuring.
06/13	12-3254-EL-UNC	ОН	The Ohio Energy Group, Inc.,	Ohio Power Company	Energy auctions under CBP, including reserve prices.
			Office of the Ohio Consumers' Counsel		
07/13	2013-00144	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Biomass renewable energy purchase agreement.
07/13	2013-00221	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Agreements to provide Century Hawesville Smelter market access.
10/13	2013-00199	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Revenue requirements, excess capacity, restructuring.

Date	Case	Jurisdict.	Party	Utility	Subject
12/13	2013-00413	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Agreements to provide Century Sebree Smelter market access.
01/14	ER10-1350	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Waterford 3 lease accounting and treatment in annual bandwidth filings.
04/14	ER13-432 Direct	FERC	Louisiana Public Service Commission	Entergy Gulf States Louisiana, LLC and Entergy Louisiana, LLC	UP Settlement benefits and damages.
05/14	PUE-2013-00132	VA	HP Hood LLC	Shenandoah Valley Electric Cooperative	Market based rate; load control tariffs.
07/14	PUE-2014-00033	VA	Virginia Committee for Fair Utility Rates	Virginia Electric and Power Company	Fuel and purchased power hedge accounting, change in FAC Definitional Framework.
08/14	ER13-432 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Gulf States Louisiana, LLC and Entergy Louisiana, LLC	UP Settlement benefits and damages.
08/14	2014-00134	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Requirements power sales agreements with Nebraska entities.
09/14	E-015/CN-12- 1163 Direct	MN	Large Power Intervenors	Minnesota Power	Great Northern Transmission Line; cost cap; AFUDC v. current recovery; rider v. base recovery; class cost allocation.
10/14	2014-00225	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Allocation of fuel costs to off-system sales.
10/14	ER13-1508	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Entergy service agreements and tariffs for affiliate power purchases and sales; return on equity.
10/14	14-0702-E-42T 14-0701-E-D	WV	West Virginia Energy Users Group	First Energy- Monongahela Power, Potomac Edison	Consolidated tax savings; payroll; pension, OPEB, amortization; depreciation; environmental surcharge.
11/14	E-015/CN-12- 1163 Surrebuttal	MN	Large Power Intervenors	Minnesota Power	Great Northern Transmission Line; cost cap; AFUDC v. current recovery; rider v. base recovery; class allocation.
11/14	05-376-EL-UNC	OH	Ohio Energy Group	Ohio Power Company	Refund of IGCC CWIP financing cost recoveries.
11/14	14AL-0660E	со	Climax, CF&I Steel	Public Service Company of Colorado	Historic test year v. future test year, AFUDC v. current return; CACJA rider, transmission rider, equivalent availability rider; ADIT; depreciation; royalty income; amortization.
12/14	EL14-026	SD	Black Hills Industrial Intervenors	Black Hills Power Company	Revenue requirement issues, including depreciation expense and affiliate charges.
12/14	14-1152-E-42T	WV	West Virginia Energy Users Group	AEP-Appalachian Power Company	Income taxes, payroll, pension, OPEB, deferred costs and write offs, depreciation rates, environmental projects surcharge.
01/15	9400-YO-100 Direct	WI	Wisconsin Industrial Energy Group	Wisconsin Energy Corporation	WEC acquisition of Integrys Energy Group, Inc.

Date	Case	Jurisdict.	Party	Utility	Subject
01/15	14F-0336EG 14F-0404EG	CO	Development Recovery Company LLC	Public Service Company of Colorado	Line extension policies and refunds.
02/15	9400-YO-100 Rebuttal	WI	Wisconsin Industrial Energy Group	Wisconsin Energy Corporation	WEC acquisition of Integrys Energy Group, Inc.
03/15	2014-00396	KY	Kentucky Industrial Utility Customers, Inc.	AEP-Kentucky Power Company	Base, Big Sandy 2 retirement rider, environmental surcharge, and Big Sandy 1 operation rider revenue requirements, depreciation rates, financing, deferrals.
03/15	2014-00371 2014-00372	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Company and Louisville Gas and Electric Company	Revenue requirements, staffing and payroll, depreciation rates.
04/15	2014-00450	KY	Kentucky Industrial Utility Customers, Inc. and the Attorney General of the Commonwealth of Kentucky	AEP-Kentucky Power Company	Allocation of fuel costs between native load and off- system sales.
04/15	2014-00455	KY	Kentucky Industrial Utility Customers, Inc. and the Attorney General of the Commonwealth of Kentucky	Big Rivers Electric Corporation	Allocation of fuel costs between native load and off- system sales.
04/15	ER2014-0370	МО	Midwest Energy Consumers' Group	Kansas City Power & Light Company	Affiliate transactions, operation and maintenance expense, management audit.
05/15	PUE-2015-00022	VA	Virginia Committee for Fair Utility Rates	Virginia Electric and Power Company	Fuel and purchased power hedge accounting; change in FAC Definitional Framework.
05/15 09/15	EL10-65 Direct, Rebuttal Complaint	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Accounting for AFUDC Debt, related ADIT.
07/15	EL10-65 Direct and Answering Consolidated Bandwidth Dockets	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Waterford 3 sale/leaseback ADIT, Bandwidth Formula.
09/15	14-1693-EL-RDR	ОН	Public Utilities Commission of Ohio	Ohio Energy Group	PPA rider for charges or credits for physical hedges against market.
12/15	45188	TX	Cities Served by Oncor Electric Delivery Company	Oncor Electric Delivery Company	Hunt family acquisition of Oncor; transaction structure; income tax savings from real estate investment trust (REIT) structure; conditions.
12/15 01/16	6680-CE-176 Direct, Surrebuttal, Supplemental Rebuttal	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Power and Light Company	Need for capacity and economics of proposed Riverside Energy Center Expansion project; ratemaking conditions.

Date	Case	Jurisdict.	Party	Utility	Subject
03/16 0/16 04/16 05/16 06/16	EL01-88 Remand Direct Answering Cross-Answering Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Bandwidth Formula: Capital structure, fuel inventory, Waterford 3 sale/leaseback, Vidalia purchased power, ADIT, Blythesville, Spindletop, River Bend AFUDC, property insurance reserve, nuclear depreciation expense.
03/16	15-1673-E-T	WV	West Virginia Energy Users Group	Appalachian Power Company	Terms and conditions of utility service for commercial and industrial customers, including security deposits.
04/16	39971 Panel Direct	GA	Georgia Public Service Commission Staff	Southern Company, AGL Resources, Georgia Power Company, Atlanta Gas Light Company	Southern Company acquisition of AGL Resources, risks, opportunities, quantification of savings, ratemaking implications, conditions, settlement.
04/16	2015-00343	КҮ	Office of the Attorney General	Atmos Energy Corporation	Revenue requirements, including NOL ADIT, affiliate transactions.
04/16	2016-00070	КҮ	Office of the Attorney General	Atmos Energy Corporation	R & D Rider.
05/16	16-G-0058 16-G-0059	NY	New York City	Keyspan Gas East Corp., Brooklyn Union Gas Company	Depreciation, including excess reserves, leak prone pipe.
06/16	160088-EI	FL	South Florida Hospital and Healthcare Association	Florida Power and Light Company	Fuel Adjustment Clause Incentive Mechanism re: economy sales and purchases, asset optimization.
07/16	160021-EI	FL	South Florida Hospital and Healthcare Association	Florida Power and Light Company	Revenue requirements, including capital recovery, depreciation, ADIT.
08/16	15-1022-EL-UNC 16-1105-EL-UNC	ОН	Ohio Energy Group	AEP Ohio Power Company	SEET earnings, effects of other pending proceedings.
9/16	2016-00162	KY	Office of the Attorney General	Columbia Gas Kentucky	Revenue requirements, O&M expense, depreciation, affiliate transactions.
09/16	E-22 Sub 519, 532, 533	NC	Nucor Steel	Dominion North Carolina Power Company	Revenue requirements, deferrals and amortizations.
09/16	15-1256-G-390P (Reopened) 16-0922-G-390P	WV	West Virginia Energy Users Group	Mountaineer Gas Company	Infrastructure rider, including NOL ADIT and other income tax normalization and calculation issues.

EXHIBIT ____ (LK-2)

SNL: Briefing Book: Plant Financials

SNL

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Plant Financials

	2002 Y	2003 Y	2004 Y	2005 Y		The Property and		-0-0		
Operational Statistics		2003 1	2004 1	ZUUD Y	2006 Y	2007 γ	2008 Y	2009 Y	2010 Y	2011
Operating Capacity (MW)	NA NA	N/A	I NA	B.C.				,	adaran sayang	27 (2)
Summer Peak Capacty (MW)	NA NA		de mari	NA NA	4	AND DESCRIPTION OF REPORTS AS A	-		-,-,-,	2,600,0
Winter Peak Capacity (MW)	. NA				3.0				100	2,600 0
Net Generation (MWh)	NA NA		,	NA NA	1				_,,	2,600,0
Capacity Factor (%)	NA.		1	NA NA		• • • •				18,184,347
Heat Rate	NA		1	NA		137				79.84 9.750
Reported Plant Production Costs									0,200	9,700
Fuel Expenses										
Fuel Expense	188 735 000	478 000 000	1405 - 44 000	ter a sea apara						
Fuel (\$/MWh)	10.81	110,309,033	105,144,865	204,637,371	195,220,629	234,034,698	373,547,806	431,658,144	387,478,015	368,567,061
Estimated Fuel Costs?	No	8,03	9,94	10.69 No	11,71	12,34 No	17,70	22,53	20.62	20,16
New Free Consenses & Martines and			I.				NO	, NO	No	No
Non-Fuel Operating & Maintanance Expense										
Op. Supervision & Engineering	1,455,661		-,	4,065,648	4,419,269	5,164,046	4,809,780	4,034,804	4,073,077	3,504,039
Total Steam/Hydrautic Expense	26,158,545			45,421,610	39,004,037	49,534,185	64,286,017			
Steam Transferred (Credit)	0	0	-	0	0	0	0	0	0	,,,,,,,,,
Electric Expenses	73,409	61,413		83,838	67,635	90,924	107,750	92,318	107,185	99,064
Misc. Power Expenses Rents	18,124,229			17,885,951		31,935,816	18,944,834	18,825,904	19,031,024	
Allowances	64,433,721			51,357,511		-,	63,760,493	68,497,077	0	2,093
	2,575,232	2,579,628	2,567,459	3,390,088	2,711,582	1,729,119	1,819,572	952,910	1,339,871	2,118,607
Total Non-Fuel Operating Expenses	112,818,797	120,391,113	123,574,413	122,184,648	123,625,847	140,918,781	153,728,446	151,241,927	85,941,909	
Supervision & Engineering	1,411,095	726,744	951,533	1,512,110	1,133,463	1,456,461	1,635,931	. 4 254 004	4 545 544	
Structures	758,775	1,732,187	1,034,035	1,522,882	2,317,626		2,589,394		1,240,514	1,071,722
Boiler/Reactor/Reservoirs & Dams	25,837,798							_,,	2,699,529	1,930,409
Electric Plant	3,743,961	3,299,227		2,494,126	4,456,386	4,110,734	28,843,194 3,084,212		,	37,372,652
Misc. Plant	600,600	944,437	681,770	1,186,780	1,355,636	1.089.051				4,999,880
Total Maintenance Expense	32,352,229			31,120,231			1,251,308		1,552,509	1,648,132
Maintenance Expense (5/MWh)	2.08	1.76	1,51	1,63	2.55	1.97	35,214,039 1.67	42,886,667 2.24		47,022,795 2 59
Non-Fuel O&M (\$/MMh)	9,24	8,48	8.15	8 01	9,97	9,40	6.95	45.40		
Estimated Non-Fuel O&M Cost?	No	No		No	No	No.	0.85 No	10.13 No	6.98 No	7,52 No
Production Costs and Ratios								-	-	
Total Production Costs (\$)	311 005 118	328 314 826	220 020 240	257 040 040	de4 800 040					
Total Production (\$/MMh)	19.85	18.29	49.00	45.756	361,382,018	412,316,470		625,786,738	518,899,547	503,391,219
Local Librariotes (Altitum i)		** : **	18.09	18,70	21 68	21.75	26.66	32 66	27.48	27.68
Variable Production Expense (\$)	184,942,737	196,136,747	204,811,873	227,738,915	220.374.393	260 581 409	400 039 RE2	457 DAE 775	414,834,218	
Fixed Production Expense (\$)	128,963,379	132,177,889	132,114,475	130,203,333	141,007,623	151,735,061	162,450,429	167,839,963	104,065,329	107,784,859
Variable Production Expense (S/MWh)	11.77	10.93	11.00	11,90	13.22	40.74				
Fixed Production Expense (\$/kW-yr)	48.83	50.84	50 81	50.08	53 82	13.74 57.48	18 96 61 53	23,90 63,58	21.97 39 42	21.76 41,45
SNL Modeled Production Costs										
Non-Fuel Non-Allowance Variable O&M Cost (\$)	. NA	NA.	* NA			**		e7.		
Allowance Costs (5)	NA NA	NA:		NA	NA	NA	NA:	79,757,136	80,528,961	84,176,624
Non-Fuel Variable O&M Cost (\$)	NA NA	NA.		NA	NA	NA	NA	952,910		2,118,607
Fuel Costs (5)	NA.	NA.	NA	NA	NA	NA	NA.	80,710,046	81,868,832	88,295,231
Variable OSM Costs (\$)	NA NA	NA NA	NA	NA	NA	NA	NA	403,848,611	342,087,394	349,009,963
Non-Fuel Varieble O&M Costs per MWh			NA	NA	NA	NA		484,558,657	423,958,226	435,305,194
Fuel Cost per MWh	NA,	NA:	NA	NA	NA	NA	NA	4.21	4,33	4.75
and over has meas	i na	NA NA	NA NA	NA	NA	, NA	NA	21.08	18.11	19.19
Fixed OBM Cod (\$)	NA.	NA	NA:	NA	NA	NA.		440 444 0	*	
Fixed O&M Cost per kW-Year	NA.	NA.	NA.	NA NA	NA NA	NA NA	NA NA	113,418,548 42.95	49,552,700 18.77	50,528,927 19.43
				1000	. 020 0200			- 11 / 101	Telephone Contract	14.40
Total Operating & Maintenance Expense (\$)	NA	NA	NA	NA.	NA	NA	NA	597,977,205	473,508,926	485,834,121
Total Operating & Maintenance Expense per MMh	NA NA	NA.	NA:	NA.	NA.	NA	NA	31,21	25 07	26.72

Note: SNL Energy reports generation and fuel consumption at the power plant and prime mover level, gathered from the Energy information Administration forms 923 and 906 (EIA 823/906). Data from these forms is provided in both a preliminary/monthly report and a final ennual report. The EIA does not provide a formal deadline for publication, Monthly reports are published 3 to 8 months after month-and, and annual data may not be published for 24 months from year-and.

Additional data is sourced from the Federal Energy Regulatory Commission Form 1 (FERC Form 1) and the Environmental Protection Agency's Continuous Emissions Monitoring Systems (CEMS). In the absence of current-year filings, SNL utilizes regression enalysis to generate cost estimates, inputs to the model are taken from the EIA 923, FERC Form 1 and CEMS.

In the case of pumped storage facilities, Nat Generation (MWh) represents the total generation before energy used for pumping.

EXHIBIT ____ (LK-3)

AEP Input Record Citations

Tr. Vol. X (May 9, 2012) (Medine Cross-Examination)

- 2116: "I have two objectives with this testimony, both of which are designed to provide a full record to the Commission in making their decision in this case."
- 2137:14-22: "...we're not results driven in our analysis. We try to represent what we believe to be the answer, so in this particular case when we were using Aurora, we don't change the inputs when we are working for an investments house, when we are working for a utility, when we are working for a Commission. The model represents our best knowledge at that moment and that's what we're using and it's not intended to be biased in any way."
- 2151: 9-10: "[Mr. Harter] did include the heat rates which were not on the list and were not customized."
- 2152:13-17: "each PJM, each dispatch are has its own load shape and so actually this is within an area we relied on that third-party assistance to help figure out the proper shapes of those curves and where to access that data."
- 2154:25-2155:5: "I didn't necessarily consider it to be an error. It was what we were --- it was our representation as to what we thought retirement dates were and, of course, you know, these two plants are very small and operate at margins so the net impact is relatively small."
- 2158:14-: "I believe 22, 23, 24 were correct and what consistent with what Mr. Harter testified to and I just wanted to make the record complete on all the inputs. So beginning on 26 is the discussion about heat rates and that goes on through 29."
- 2162:11-2163:6:
 - o "Q: Now, when you looked you looked at the results of the initial run and obviously the second run of the model...And were you surprised that Ohio Power ended up calculating a credit of more than \$200 a megawatt day for Ohio Power?
 - o A: No....Obviously Ohio Power has relatively cheap generation, and so I'm not surprised that they you know, that their units dispatch very well and that reflects, you know, on the size of the competitiveness of their units, so I wasn't surprised, A, about that amount, or B, surprised by the relatively smaller amount for CSP."

• 2163:13-2164:8:

- "Q. And is it your understanding that it's is it a best practice in the industry to run a model like this once and not – and not go back and do any calibration or benchmarking?
- O A. It depends on exactly what you're doing it for. The model may have been run once to calculate the initial data, but the model is being run dozens of times before it was run for this case. So I have worked on an engagement for the federal government using Aurora, and we must have run the model you know, we exercised the model quite a bit so let's put it that way. So saying it's only been run once is a misstate. We keep the model hot, so to speak, with our latest assumptions so ultimately it only needs to be run for that if there's no change in the assumptions and we agree that we were not going to pick and choose inputs to bias the results in any way, we were basically the model was hot, it was free to run it for this analysis, and so there wasn't a need to do multiple runs on the analysis."

- 2165:2-8: "Q. Did you check the model's market prices against actual market prices? A. I believe so. Q. And you believe that compares accurately and favorably? A. I believe that it produces a justifiable LMP, yes."
- 2165:9-2166:3:
 - o "Q. Did you check the modeled fuel costs against actual costs of plants?
 - A. It depends on the purpose. The fuel costs it's a forecast. It's not based upon trying to do backcasts, so to speak, so it's a forecast so it is based upon what our best guess is of knowing what fuel costs are going to be in the future.
 - Q. "So are you saying you don't think it's a best practice or appropriate to check the model with actual prices?
 - O A. We're starting with actual prices to use of the 923 data to the extent that's accurate. And then we add to that our understanding and we are actively involved in both buying and selling coal assistance for parties so we know what current market prices are. We do a very detailed analysis to determine future market prices both in supply and demand so, yes, I think it has a level of accuracy that we can support."

• 2166:4-23:

- O "Q. Why not use actual forward prices that are out there for this kind of a short term? A. Because forward prices, you know, are forward prices. They're not forecasts and so there is a relationship between a forecast and a forward price but a forward price is simply what you or I would agree to do today to buy power or coal or whatever two years from now. And we believe it's more accurate to use a fundamental forecast rather than a forward price curve for any kind -- anything but sort of the prompt period and if you do the analysis of the forward price curves, you know that forward price curves you know move on a dime. If the forward price today is \$50, you know, prompt year plus one will be 52, 54, and a month from now it will go to 60, 62, 64. They go up and down with the wind, with the weather, with everything. So we just don't believe that the prompt -- excuse me, that the forward price curve is the way to go."
- 2168:8-10: "I would rather use an analyst's judgment as to what's going to happen with future prices than rely solely on a forward price curve."
- 2169-9: "It was not a results-oriented analysis."
- 2170-6-11: "Obviously forecasting is a dangerous business and there are multiple factors, some of which you can predict, some of which you can't. So for example, could we have predicted that there was no winter this year? Probably not. Could we have predicted Fukushima? Probably not."
- 2170:18-25: "Q. And your forecast produces \$15 megawatt hour margins for AEP Ohio. A. It produces what produces it. It was not obviously -- you know, you can change some factors that would make the number higher, some factors that would make the number lower. That was what came out of the model realm with the set of assumptions that were in there."
- 2175:5-7: "Q. So you think AEP could experience margins greater than \$15 during this period? 7 A. Yes, yes."
- 2175:23-2176:
 - o "Q. Okay. So, now, you're here. Are you saying that the model reflects the real world, real operation of the pool?

O A. I'm saying this is a very good analytical tool coming up for actually trying to generate a power cost and coming up with a sense as to what the economics or the value of the energy credit would be. Is it going to be exactly right? Probably not. Almost assuredly not. But it's an attempt to try to find a number that is reasonable that makes sense. To ignore it -- the alternative being to ignore it or to develop, you know, sort of a proxy that doesn't make any sense is worse in my mind. It's better to have a number based upon as much good information as possible and, again, I have to assume that you have also done the calculation. There is an energy value there. To ignore it doesn't make sense to us."

• 2199:1-17:

- Q. I thought you said the MLR was only applied to the off-system sales and not to the nonshopping load.
- o A. I'm sorry, did I say MLR? MLR -- LMP, I apologize.
- O Q. Okay. So you're imputing a margin to nonshopping customers that doesn't actually exist, aren't you?
- A. To nonshopping? No, I think we are trying to calculate the gross margin and we have a methodology to calculate that which I think is extremely conservative based upon our understanding of what the rates are versus the LMP.
- o Q. Okay. But are nonshopping customers charged market-based rate?
- A. They are charged retail rates which are higher than the LMP so our analysis is conservative.

• 2203:3-16:

- O. Okay. And if they don't, if the tariff rates for nonshopping customers don't increase, then that fact alone would suggest that the margin you are contributing 100 percent toward retained margins is overstated, would it not?
- A. I think. I told you what the methodology was which I'll repeat, it's not based upon tariff rates. It's actually based upon the LMP, and the tariff rates from our investigation are significantly higher so this understates the energy credit. It doesn't overstate the energy credit and there's enough room between the two if there is a little bit of up or a little bit of down. I think it's more than covered.

• 2206:2-14:

- Q. Ms. Medine, can you -- can you explain to me what are the inputs to the model?
- o A. What are the inputs that EVA provides or what are all the inputs?
- o Q. What are the -- all of the inputs generally speaking?
- o A. You know, I couldn't possibly go through the entire list. Obviously it's an 87 dis -- 60 dispatch model so it includes power generation and it includes transmission information. It includes fuel cost, emission allowance price, it goes on and on, so there is an enormous amount of information that's included."

• 2209:7-24:

- Q. Okay. And help me understand what -- exactly what you've done to calibrate and benchmark the outputs and has that been relative to historical market performance or clearing prices.
- A. I can't speak to everything we've done, I can really only speak to the engagement, of course, I've used Aurora so it will be an incomplete answer but we have looked at -obviously we've looked at the results, whether they make sense. We've done for another

engagement, as I mentioned, we did multiple runs of the Aurora, and we did sensitivity analyses using alternative gas prices, alternative coal prices, alternative emission allowances, so we were able to spend a considerable amount of time looking at the results and assessing their -- assessing the -- assessing, you know, how accurate we felt they were, and we did make some changes as part of that."

2210:7-14:

- o Q. Okay. So did you calibrate the model with implied heat rates from actual experience?
- Our focus in that analysis -- no, no, we used the exact same heat rates. Basically, I know we used the same heat rates. What we varied were coal prices in that particular analysis that you asked me not to talk about, coal prices and gas prices and electricity rates.

221119-23:

- Q. But let me ask you a simple direct question here: Are the heat rates used in the model the off-the-shelf default heat rates that come with Aurora in the software?
- o A. Yes.

2238:16-22:

- Q. Now, in your model I think you indicated clearly in your testimony that you're not using historic realized heat rate or an average heat rate for a period, you're using the most efficient or the optimal heat rate throughout your Aurora model, correct?
- o A. Correct. Those are the default numbers.

• 2240:21-2242:9:

- O Q. Okay, well, that's a correlation, but the reality is that the default heat rates don't reflect an actual experience or an actual expected operational reality, do they?
- O A. I think the point is that when the unit is up and running, they are approaching the most efficient heat rate. It's the averaging in of the down period, so it's a question -- I think there are two questions: One is a question of how you dispatch, which as I testified I do feel fairly comfortable with that, and I assume the next set of questions is are those costs properly affected, which is where I assume you're going.
- Q. Well, I mean both are relevant, but again, what I'm asking you is that the heat rates you used don't match up with actual operational experience or even how we've already agreed power plants are operated.
- O A. I don't think I've agreed to either of those. So I basically said that what's presented here are the average annual heat rates. And again, there's some discretion of how they're calculated. The point on a dispatch is when you operate your plant, what is your heat rate? And we don't have segment data that specifically deals with that question. And so what we're saying is since the purpose of the model is the dispatch, that's where it's critical to get that proper number.
- O Q. I agree it's critical, but the ones you're using are optimal heat rates that are simply not experienced in the real world, are they?
- A. Again, as I said, I think that that's not the case. I think that when the plants are operating full out, the heat rates are closest to the optimal numbers. And remember, most of the generation from AEP Ohio is coming from the large coal plants with high capacity factors.
- o Q. Okay. Which -

- A. And that situation actually will change over time to even a greater extent because as the smaller plants are retired, you're going to be increasing your capacity factors on your higher users.
- O Q. And as gas pricily are lower, those plants are not run as often either, correct?
- A. No. No. Again, getting into the forecasting world, but the reality is at some point with the massive retirements of coal plants including the 4,600 megawatts that AEP announced, you're going to have a shrinking base of coal generation. And the remaining plants which are fully scrubbed and fully -- the full pollution controls will operate at an either capacity factor simply to meet load because we'll have lost so much generation.

• 2243:

- Q. Okay, well, do you agree that a relatively small heat rate difference can make a significant difference in the actual cost of the unit and margins experience?
- o A. No.
- o Q. Why not?
- A. Remember, everything is calculated using these heat rates. So the MLR is calculated -excuse me, the ML -- I get confused, LMP is calculated using these heat rates so those numbers flow through the entire model. So if you have a higher heat rate, you're going to have higher costs and higher LMP. So if you were to change that, it doesn't get just changed in isolation.
- Q. Right. But if using inaccurate heat rate, it produces inaccurate results of all those things, doesn't it?
- O A. Well, again, we don't think so. One thing we think the accuracy is enhanced in terms of the dispatch. Secondly, as I was saying, that number flows through the entire calculations. So if I were to just change AEP's to average historical, or even worse, historical, whatever number you would want, it would change it wouldn't be accurate because the other systems aren't done in the same manner. So you need to be consistent if you're going to calculate an LMP for the area. So I hear what you're saying, I do think there's some --potentially some issues, but I'm saying it's not the magnitude you're suggesting because those heat rates flow through the entire calculation.
- 2245:1-7: So heat rates are not inaccurate in my mind because they reflect the most efficient operation mode which we acknowledge is not every plant is not always operating at the most efficient but the big generators are. And that's where the bulk of your generation comes from. We can't simply just change -- the answer is yes, we have one.
- 2246:7-10: Using average heat rate versus the most efficient. I think again the point of the analysis is to try to capture the dispatch. And that's based on the most efficient.
- 2248:24:
 - O Q. Okay. So you would acknowledge and recognize that's the case that the capacity factors you've used are higher than the actual experience in recent years?
 - o A. Sure. Would you like me to explain why?
 - O. Sure. Why don't you.
 - A. I think as was discussed that our analysis assumed CSAPR which for you who don't know is the cross-states air pollution rule coming in effect 1/1/13 which dispatch for a number of utilities and improves gas for both gas plants and fully equipped coal-fired plants. So we're not surprised to see a higher utilization of those but you have included on this table some of the other units that are not controlled. Muskingum and Kammer you would actually see a

decline in the capacity factor. So I assume that you deliberately selected the plants that were either scrubbed or gas.

• 2268:20-:

- O. Now, let me ask you to switch topics. Talking about forward gas prices. What were your assumptions in modeling for forward gas prices?
- O A. So we do a fundamental analysis for gas like we do for coal which takes into account literally do a well-by-well kind of analysis, and I believe they were around \$4.

2273:5-23:

- O Q. And you reject the using the forward price curves because you believe your forecast is better, right?
- A. As a rule. And secondly, these numbers become annual numbers beginning in 2014. And
 obviously the monthly variations, hourly variations for that matter are very integral to
 forecasting both LMP as well as off-system sales.
- Q. But the monthly data is here for the period -- the entire period that's covered in this case, correct?
- o A. No.
- o Q. Why not?
- A. Because there's no -- because it's the monthly isn't annual average. All you've done is repeat the monthly numbers. So 36, 37 for every month of the period is not a monthly forecast. Or for price purposes. Annual number, that's just repeated every month.

• 2275:5-13:

- o Q. What is the vintage of your fuel forecast?
- o A. It would have been about three months.
- o Q. Three months ago?
- o A. Yes.
- o Q. So any changes that occurred since then are not reflected.
- o A. Correct, because we, as we mentioned, froze the inputs at that time.

• 2277:7-15:

- A. "EIA's average 2012 Henry Hub natural gas spot forecast is \$2.45 per million British thermal units, a decline of \$1.55 per MMBtu from the 2011 average spot price. EIA expects that Henry Hub spot prices will average \$3.17 per MMBtu in 2013."
- O. Is that 2013, is that consistent with your forward gas production?
- o A. No, I told you like EIA, we have revised ours down as well.

• 2278:10-23:

- o Q. So is the similar decline here something you would reflect in your current forecast?
- o A. We input new gas prices, yes.
- o Q. Since the time you did the modeling for this testimony?
- A. As I mentioned, we continue to update our numbers and so anytime we have a new forecast, it goes into forward so it's model ready. What's interesting about these is of course now we're seeing downward adjustments that are fairly significant. There were periods of time where we've seen upwards fairly significantly. So I'm not disputing. There are a lot of moving pieces in this analysis of which fuel prices is one.

• 2278:24-2279:3:

- O Q. But as we sit here today and look at the forward gas projections, the numbers you used in this modeling are, you would agree, are too high.
- o A. They're higher than we would currently have the model, correct.

• 2281:12-17:

 Q. Okay. Do you -- is it your understanding that there's congestion as between AEP Dayton Hub, the AEP zone -

- A. That congestion is handled in the zonal model. The issue is within the zone whether there's congestion.
- Q. Well, that was my question. So you're saying the model reflects the zonal congestion; is that what you said?
- A. No, I'm saying that between zones the zonal model will capture the congestion. It's within the zone if there's congestion where there will be less accuracy.
- o Q. So you may have said interzonal.
- o A. Intrazonal. The congestion within the zone is the issue. Not between the zones.
- O Q. Congestion within the zone is the issue that's not covered by the -
- o A. The zonal model.
- o Q. The zonal model?
- A. Correct. And our research showed that there was not a congestion issue within AEP zone which I confirmed with the PJM market monitor.

• 2287:12:

- Q. Yeah. Now, I want to -- I'll take a risk here, I'm going to ask you an open-ended question. The Gavin unit shows the actual cost average of \$20.34 and then your projection uses \$13.14. Big difference.
- o A. Right.
- o Q. Big unit runs a lot, right?
- o A. (Witness nods head.)
- o Q. Can you explain that?
- A. Sure. I can't explain everything because I don't know everything that was part of this, but a large part of the differences are due to some nonrecurring event and this is where I need to be a little careful since they're not all public. But with my -- I can cite the redacted version but basically there were additional payments made to a supplier in 2009 that some of which carried over to 2010 that were a one-time event. But they were very significant. And beginning in 2010 there was a very significant undershipment of coal which also would be a material change in the fuel costs and those were -- I believe some of those events carried over into 2011. But clearly at Kammer, as you may remember, in second half of 2007/the first half of 2008, coal prices tripled and some purchases were made for periods of one, two, three years, at the very high prices that are now expired subsequent to this period. So that's one of the reasons why the anomalous prices at Gavin, Kammer. At Conesville 4 -- where to start. At Conesville 4 there's an -- I'm trying to be careful so if I stray, let me know. There's some costs related to the preparation which was idled in January of 2012 that would have significantly affected the fuel costs at Conesville certainly in 2011 and possibly back to 2010. In addition in 2010 there was issues related to --
- Q. I only asked you about Gavin. So I appreciate especially since you're -- as I understand your answer, all the information you gave was confidential you obtained during the audit you're using that here to explain your testimony?
- o A. No. So on the Conesville obviously public information -
- o Q. I just asked you about Gavin.
- o A. On Gavin I believe that the discussion is not redacted in the audit report. What's redacted is the name of the supplier and the amount of the payment.
- o O. And you already gave your answer for Gavin. A. Right.
- Q. So is it your testimony then that you believe if those events were normalized, you believe the \$13 rate for Gavin fuel cost is accurate historically and going forward? A. Well, it's certainly aggressive. So the -- but I think the presumption was a softening coal market with a very attractive supply situation.

EXHIBIT ____ (LK-4)

Exhibit ESM-1

Energy and Ancillary Service Credits for CSP, OPCo and AEP Ohio Credits Provided by Year and as a Fixed Rate for the 6/1/2012-5/31/2015 Period

Energy Credits

CSP	Year	Total Generation (MWh)	Off System Sales (MWh)	Gross Margin (2012 \$)	MLRI	Retained Margin (2012 \$)	Energy Credit (\$/MWd) ²
June-Dec	2012	9,238,414	822,462	57,483,325	19%	50,921,910	\$57.67
	2013	19,051,169	3,609,324	121,142,148	19%	98,376,727	\$65.32
	2014	16,603,470	2,041,381	119,843,987	19%	105,812,482	\$70.26
Jan-May	2015	5,515,974	59,094	52,957,091	19%	52,411,263	\$84.12
	Total						\$68.07

OPCo	Year	Total Generation (MWh)	Off System Sales (MWh)	Gross Margin (2012 \$)	MLR ¹	Retained Margin ¹ (2012\$)	Energy Credit (\$/MWd) ²
June-Dec	2012	21,868,821	9,152,981	250,626,361	22%	170, 178, 962	\$161.14
}	2013	25,629,397	3,857,070	426,080,707	22%	385,838,009	\$214.20
ŀ	2014	25,654,769	3,970,787	432,393,371	22%	391,453,715	\$217.32
Jan-May	2015	11,281,816	2,296,000	188,181,389	22%	162,069,500	\$217.49
	Total						\$205.32

Merged	Year	Total Generation (MWh)	Off System Sales (MWh)	Gross Margin (2012 \$)	WILL	Retained Margin ¹ {2012 \$}	Energy Credit (\$/MWd) ²
June-Dec	2012	31,107,235	8,373,663	308, 109, 685	40%	254,734,719	\$131.37
	2013	44,680,567	5,987,661	547,222,855	40%	504,342,136	\$152.50
	2014	42,258,239	4,016,475	552,237,359	40%	521,922,064	\$157.81
Jan-May	2015	16,797,789	1,155,836	241,138,479	40%	231,196,780	\$168.98
	Total						\$152.41

AS Payments

	CSP_	OPCO	Merged
2011 AS Credits	\$10,037,014	\$12,004,155	\$22,041,169
CP-5 (MW)	4126	4935	9061
AS Credit	Ac. cc	tc cc	ĈC 55
\$/MWDay	\$6.66	\$6.66	\$6.66

1: The MLR is applied only to off system sales.

2: This calculation uses the 5 CP Demand numbers presented in KDP-5 and reprinted below.

	CSP	OPCO	Merged
CP-5 (MW)	4126	4935	9061

CERTIFICATE OF SERVICE

In accordance with Rule 4901-1-05, Ohio Administrative Code, the PUCO's e-filing system will electronically serve notice of the filing of this document on the parties referenced on the service list of the docket card who have electronically subscribed to this case. In addition, the undersigned certifies that a courtesy copy of the foregoing document is also being served (via electronic mail) on the 18th day of October, 2016 to the persons listed below.

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Summary: Testimony Direct Testimony/Exhibits of Lane Kollen on behalf of Ohio Energy Group and Office of the Ohio Consumers' Counsel electronically filed by Mr. Michael L. Kurtz on behalf of Ohio Energy Group and Office of Ohio Consumers' Counsel