

**BEFORE THE STATE OF NEW JERSEY**

**BOARD OF PUBLIC UTILITIES**

IN THE MATTER OF THE PETITION )  
OF PUBLIC SERVICE ELECTRIC AND )  
GAS COMPANY FOR APPROVAL OF )  
AN EXTENSION OF A SOLAR )  
GENERATION INVESTMENT )  
PROGRAM AND ASSOCIATED COST )  
RECOVERY MECHANISM AND FOR )  
CHANGES IN THE TARIFF FOR )  
ELECTRIC SERVICE, B.P.U. N.J. NO. )  
15 ELECTRIC PURSUANT TO N.J.S.A. )  
48:2-21, 48:21-21.1 AND N.J.S.A. 48:3- )  
98.1 )

**BPU DOCKET NO. EO12080721**

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**SURREBUTTAL TESTIMONY OF MATTHEW I. KAHAL  
ON BEHALF OF THE  
NEW JERSEY DIVISION OF RATE COUNSEL**

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### SCHEDULES

### APPENDIX A - QUALIFICATIONS

1 **I. QUALIFICATIONS**

2 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

3 A. My name is Matthew I. Kahal. I am employed as an independent consultant retained  
4 in this matter by the Division of Rate Counsel (Rate Counsel). My business address  
5 is 10480 Little Patuxent Parkway, Suite 300, Columbia, Maryland 21044.

6 Q. PLEASE STATE YOUR EDUCATIONAL BACKGROUND.

7 A. I hold B.A. and M.A. degrees in economics from the University of Maryland and  
8 have completed course work and examination requirements for the Ph.D. degree in  
9 economics. My areas of academic concentration included industrial organization,  
10 economic development and econometrics.

11 Q. WHAT IS YOUR PROFESSIONAL BACKGROUND?

12 A. I have been employed in the area of energy, utility and telecommunications  
13 consulting for the past 35 years working on a wide range of topics. Most of my work  
14 has focused on electric utility integrated planning, plant licensing, environmental  
15 issues, mergers and financial issues. I was a co-founder of Exeter Associates, and  
16 from 1981 to 2001 I was employed at Exeter Associates as a Senior Economist and  
17 Principal. During that time, I took the lead role at Exeter in performing cost of capital  
18 and financial studies. In recent years, the focus of much of my professional work has  
19 shifted to electric utility restructuring and competition.

20 Prior to entering consulting, I served on the Economics Department faculties  
21 at the University of Maryland (College Park) and Montgomery College teaching  
22 courses on economic principles, development economics and business.

23 A complete description of my professional background is provided in  
24 Appendix A.

1 Q. HAVE YOU PREVIOUSLY TESTIFIED AS AN EXPERT WITNESS  
2 BEFORE UTILITY REGULATORY COMMISSIONS?

3 A. Yes. I have testified before approximately two-dozen state and federal utility  
4 commissions, the U.S. Congress and federal court in more than 380 separate  
5 regulatory cases. My testimony has addressed a variety of subjects including fair rate  
6 of return, resource planning, financial assessments, load forecasting, competitive  
7 restructuring, rate design, purchased power contracts, merger economics and other  
8 regulatory policy issues. These cases have involved electric, gas, water and telephone  
9 utilities. A list of these cases may be found in Appendix A, with my statement of  
10 qualifications.

11 Q. WHAT PROFESSIONAL ACTIVITIES HAVE YOU ENGAGED IN SINCE  
12 LEAVING EXETER AS A PRINCIPAL IN 2001?

13 A. Since 2001, I have worked on a variety of consulting assignments pertaining to  
14 electric restructuring, purchase power contracts, environmental controls, cost of  
15 capital and other regulatory issues. Current and recent clients include the U.S.  
16 Department of Justice, U.S. Air Force, U.S. Department of Energy, the Federal  
17 Energy Regulatory Commission, Connecticut Attorney General, Pennsylvania Office  
18 of Consumer Advocate, New Jersey Division of Rate Counsel, Rhode Island Division  
19 of Public Utilities, Louisiana Public Service Commission, Arkansas Public Service  
20 Commission, the Maine Public Advocate, Maryland Department of Natural  
21 Resources and Energy Administration, and MCI.

22 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE NEW JERSEY  
23 BOARD OF PUBLIC UTILITIES?

24 A. Yes, I have done so on numerous occasions involving electric, gas and water utilities  
25 on a range of issues, including cost of capital, mergers and electric restructuring.

1 **II. OVERVIEW OF FINDINGS**

2 Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY AT  
3 THIS TIME?

4 A. I have been asked by the Division of Rate Counsel ("Rate Counsel") to respond to the  
5 Rebuttal Testimony of Public Service Electric & Gas Company ("PSE&G" or "the  
6 Company") witness Mr. Paul Moul on the appropriate cost of equity to use in the  
7 solar program cost recovery. Mr. Moul's rebuttal testimony takes issue with Rate  
8 Counsel witness Andrea Crane who recommended lowering the Company's proposed  
9 cost of equity of 10.3 percent to 9.75 percent. Mr. Moul supports the use of the  
10 higher figure of 10.3 percent.

11 I also respond briefly to the Rebuttal testimony of PSE&G witness Stephen  
12 Swetz on the inherent risks confronting PSE&G with its solar cost recovery tracker  
13 mechanism and the appropriate cost of debt. Mr. Swetz asserts that the proper rate of  
14 return to use at this time in the solar cost recovery mechanism is the 10.3 percent  
15 approved in the Company's most recent base rate case, BPU Docket No. GR0905042,  
16 which was concluded by a settlement agreement in early 2010.

17 Q. HAVE YOU PREVIOUSLY TESTIFIED IN THIS PROCEEDING?

18 A. No. However, I testified on behalf of Rate Counsel in the Company's most recent  
19 base rate case in BPU Docket No. GR0905042 on the subject of fair rate of return.  
20 That base rate case proceeding extended through the 2009/2010 time period, which  
21 was directly following the financial crises of late 2008/early 2009. Ultimately, as  
22 noted above, that case was resolved by a settlement agreement in early 2010.

23 Q. WHAT IS YOUR POSITION ON THE APPROPRIATE RATE OF  
24 RETURNS TO USE IN THIS CASE?

1 A. I disagree with Mr. Moul that PSE&G's cost of equity today is 10.3 percent or more.  
2 In fact, it is far below 10.3 percent. Ms. Crane's recommendation of 9.75 percent is  
3 entirely reasonable -- and in fact conservatively high -- given current market  
4 conditions. In addition, I do not agree with what I understand Mr. Swetz's position to  
5 be that a stale embedded cost of debt taken from the Company's 2009/2010 base rate  
6 case should be used. However, I do not object to the use of the updated 5.35 percent  
7 figure for the embedded cost of debt as of November 2012 that he presents in his  
8 rebuttal testimony if that calculation is accurate.

9 In my opinion it is entirely appropriate to use in the solar cost recovery  
10 mechanism a cost of equity benchmark of 9.75 percent, or even less, in conjunction  
11 with the Company's current embedded cost of long-term debt. Moreover, it is my  
12 understanding that 9.75 percent is the most recent Board-approved cost of equity  
13 established in an electric utility base rate case.<sup>1</sup>

14 The key questions for the Board to consider are the following:

- 15 (1) As a policy matter, in implementing a cost recovery tracker for a  
16 special program, such as a solar investment program, is it proper to  
17 recognize a decline in capital costs since the last full base rate case,  
18 assuming the decline can be clearly documented?
- 19 (2) As a factual matter, have market capital costs declined materially  
20 since the time of the Company's most recent base rate case in  
21 2009/2010?

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<sup>1</sup> I/M/O The Petition of Atlantic City Electric Company for Approval of Amendments to its Tariff to Provide for an Increase in Rates and Charges for Electric Service Pursuant to N.J.S.A. 48:2-21 and N.J.S.A. 48:2-21.1 and for Other Appropriate Relief, BPU Docket No. ER11080469 (Order Approving Stipulation, Oct. 23, 2012) at 4.

1                   (3) Setting aside trends over time, does the objective cost of capital  
2                   evidence support a cost of equity today for PSE&G of 9.75 percent  
3                   or less?

4                   (4) Does the cost recovery mechanism that the utility intends to employ  
5                   for cost recovery involve less risk, in an overall sense, than rate  
6                   recovery under "standard" rate base/rate of return regulation, which  
7                   is based on conventional base rate cases?

8    Q.           WHAT IS YOUR POSITION ON THE FIRST QUESTION CONCERNING  
9                   WHETHER A REDUCTION IN THE COST OF CAPITAL MERITS  
10                  RECOGNITION IN A TRACKER-TYPE COST RECOVERY  
11                  MECHANISM?

12   A.          I do believe that any such reduction, if documented, should be employed in the cost  
13                  recovery tracker in place of an out-of-date rate of return from the last base rate case.  
14                  This is precisely Rate Counsel witness Crane's recommendation. As I understand the  
15                  tracker, its purpose is to reimburse the utility exactly for the costs that it incurs  
16                  (including capital costs) in operating the Board-approved program. Quite simply,  
17                  charging ratepayers through the tracker mechanism for program-related capital costs  
18                  that exceed the actual capital costs would overcharge those customers and  
19                  overcompensate the utility shareholders. That is neither the purpose nor the intent of  
20                  the cost tracker.

21                  I was not able to find any substantive discussion in the Company's rebuttal  
22                  filing that would justify overcharging customers in the tracker mechanism and  
23                  ignoring the readily observable capital cost decline. This issue is discussed further in  
24                  Section IV of my Surrebuttal Testimony.

1 Q. YOUR DISCUSSION CONCERNING THE FIRST QUESTION IS BASED  
2 ON THE ASSUMPTION THAT THE COST OF CAPITAL SINCE THE  
3 COMPANY'S LAST BASE RATE CASE HAS DECLINED. IS THAT, IN  
4 FACT, THE CASE?

5 A. Yes, it is. Section III of my testimony documents the general decline in capital costs  
6 since the 2009/2010 base rate case and explains the reasons for this declining trend.  
7 For example, long-term interest rates since that time period have declined by at least a  
8 full percentage point or more. The Company's embedded cost of debt has declined  
9 materially, as acknowledged by the Company.

10 Q. ASIDE FROM MARKET TRENDS SINCE 2009/2010, IS THERE  
11 PERSUASIVE EVIDENCE THAT THE COST OF EQUITY FOR PSE&G  
12 IS AT OR BELOW THE 9.75 PERCENT THAT MS. CRANE  
13 RECOMMENDS?

14 A. Yes, I present such evidence in Section IV of my testimony. Mr. Moul attempts to  
15 show that PSE&G's current cost of capital is at or above the proposed 10.3 percent,  
16 presenting a collection of studies using the Discounted Cash Flow (DCF), Capital  
17 Asset Pricing Model (CAPM), Risk Premium (RP) and Comparable Earnings (CE)  
18 methods. However, he obtains such results only by including inappropriate adders  
19 that have nothing to do with the cost of capital methods or PSE&G's actual cost of  
20 equity. When Mr. Moul's DCF and CAPM studies are corrected, after removing the  
21 extraneous "adders" unrelated to the cost of equity, they produce cost of equity  
22 estimates below Ms. Crane's 9.75 percent recommendation. Such results comport  
23 with common sense, given that capital costs have declined sharply since the  
24 Company's 2009/2010 rate case when 10.3 percent was approved.



1 Q. WHAT RESULTS DID YOU OBTAIN WHEN CORRECTING MR.  
2 MOUL'S ANALYSES?

3 A. My correction to Mr. Moul's' DCF study produces a cost of equity estimate of 9.34 to  
4 9.61 percent, and my correction to his CAPM study produces a cost of equity of about  
5 8.5 percent. Technically, these estimates apply to the proxy group selected by Mr.  
6 Moul. However, the majority of these proxy companies have substantial relatively  
7 risky regulated and/or unregulated generation. Therefore, the proxy group cost of  
8 equity figures in my corrections to Mr. Moul's studies may somewhat overstate  
9 PSE&G's cost of equity.

10 I have not attempted to correct Mr. Moul's Risk Premium and Comparable  
11 Earnings studies. The Risk Premium approach he takes has no value at all in  
12 estimating the utility cost of equity, and his Comparable Earnings study does not even  
13 pretend to estimate PSE&G's cost of equity. Rather, it is nothing more than a  
14 compilation of accounting earnings which tells us nothing about the actual returns on  
15 invested capital that investors required.

16 Q. HAVE YOU CONDUCTED YOUR OWN INDEPENDENT COST OF  
17 EQUITY STUDY?

18 A. No, I have not. In the spirit of surrebuttal testimony, I am limiting my analysis to  
19 correcting Mr. Moul's own studies, relying almost entirely on data provided in his  
20 testimony. In other recent electric and gas utility cases, I have obtained midpoint  
21 DCF estimates within the range of about 9.0 to 9.5 percent, or well below Ms.  
22 Crane's recommendation.

23 Q. THE FOURTH QUESTION CONCERNS THE RISK ATTRIBUTES  
24 CONFRONTING PSE&G FROM ITS SOLAR INVESTMENTS UNDER

1 ITS PLANNED AND PROPOSED COST RECOVERY. PLEASE  
2 COMMENT.

3 A. Mr. Swetz provides some brief rebuttal testimony to Ms. Crane suggesting that  
4 PSE&G has a prudence obligation and exposure with respect to this and similar  
5 programs, and this creates risk. I agreed with Mr. Swetz that the Company has such  
6 an obligation, and in that sense cost recovery is not entirely risk free. But this  
7 argument misses the point. The issue is not whether PSE&G has *any* risk associated  
8 with these programs, but rather whether such risk is comparable to that under  
9 standard regulation, based on cost recovery in base rate cases. Base rate case  
10 recovery of costs is the context to the current 10.3 percent return on equity.  
11 Unquestionably, cost recovery is far more certain under the fully reconcilable cost  
12 recovery tracker proposed for the solar program. It is therefore appropriate for the  
13 Board to at least consider this fact in determining whether it is reasonable to use a  
14 9.75 percent return on equity, instead of the higher 10.3 percent, in the solar program  
15 tracker.

16 Q. MR. MOUL CITES TO COMMISSION AWARDS OF ROEs FOR 2012.  
17 DOES THIS SURVEY SUPPORT HIS RECOMMENDATION?

18 A. No. This survey shows that electric utility ROE awards in 2012 averaged about  
19 10.0 percent. However, Mr. Moul fails to mention that these awards, on average,  
20 were above 10.0 percent for vertically-integrated electrics and below 10.0 percent for  
21 the delivery service electrics. PSE&G, of course, is a delivery service utility. In  
22 addition, these awards are in standard base rate cases and would overstate the cost of  
23 equity used in a tracker.

1 Q. MR. MOUL ARGUES THAT THE 10.3 PERCENT ROE SHOULD NOT BE  
2 LOWERED BECAUSE CAPITAL COSTS IN THE FUTURE WILL BE  
3 HIGHER. DO YOU AGREE?

4 A. No, I do not. This is speculation on Mr. Moul's part and contrary to market evidence.  
5 It is true that capital markets are not static and do change over time -- in both  
6 directions. It is, however, absurd to argue that the Board should ignore the clear and  
7 indisputable market evidence that a sharp decline in capital costs has occurred since  
8 2009/2010. Based on Mr. Moul's logic, the ROE award could never change.  
9 Capital costs are very low at present due to market fundamentals, and there is  
10 no reason to expect that to change (including the Fed's accommodative policies) any  
11 time soon. I discuss these fundamental forces in Section III of my testimony.

1                                    **III. CAPITAL COST TRENDS IN RECENT YEARS**

2        Q.                    HAVE YOU EXAMINED GENERAL TRENDS IN CAPITAL COSTS IN  
3                    RECENT YEARS?

4        A.            Yes. I show the capital cost trends since 2002, through calendar year 2012, on page 1  
5                    of Schedule MIK-1. Pages 2, 3 and 4 of that Schedule show monthly data for  
6                    January 2007 through December 2012. The indicators provided include the  
7                    annualized inflation rate (as measured by the Consumer Price Index), 10-year  
8                    Treasury yields, 3-month Treasury bill yields and Moody's single A and triple B  
9                    yields on long-term utility bonds. While there is some fluctuation, these data series  
10                  show a general declining trend in capital costs. For example, in the very early part of  
11                  this 10-year period, utility bond yields averaged about 7 to 8 percent, with 10-year  
12                  Treasury yields of 4 to 5 percent. By 2011, single A utility bond yields had fallen to  
13                  an average of 5.1 percent, with 10-year Treasury yields declining to an average of  
14                  2.8 percent. Within the past year (i.e., calendar 2012), Treasury and utility long-term  
15                  bond rates have declined even further to near or below the lowest levels in many  
16                  decades.

17                    For the past three years, short-term Treasury rates have been close to zero,  
18                    with three-month Treasury bills averaging about 0.1 percent. These extraordinarily  
19                    low rates (which are also reflected in non-Treasury debt instruments) are the result of  
20                    an intentional policy of the Federal Reserve Board of Governors (the Fed) to make  
21                    liquidity available to the U.S. economy and to promote economic activity.<sup>2</sup> The Fed  
22                    has also sought to exert downward pressure on long-term interest rates through its  
23                    policy of "quantitative easing." Quantitative easing is a policy whereby the Fed

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<sup>2</sup> By law, the Fed has a "dual mandate" to pursue policies both to ensure price stability (i.e., low inflation) and to promote full employment.

1 engages on an ongoing basis in the purchase of financial assets (such as Treasury  
2 bonds or agency mortgage backed debt), both to support the market prices of financial  
3 assets and to increase the U.S. money supply. The intent of quantitative easing is to  
4 keep the cost of capital low (which increases the value of financial assets such as  
5 utility stocks) and make credit more abundant. Although that program ended this past  
6 summer, the Fed announced in September 2012 a continuation of its near zero short-  
7 term interest rate policy at least through 2015, and an indefinite continuation of  
8 quantitative easing. In its December 12, 2012 meeting, the Fed indicated that its low  
9 interest rate and accommodative policies would continue at least until a much lower  
10 U.S. unemployment rate is achieved (i.e., a target of 6.5 percent), an endeavor which  
11 is expected to take several years. As a result, interest rates have remained low and  
12 have trended down and, for at least an extended period of time, this very low short-  
13 and long-term interest rate and cost of capital environment is expected to continue.

14 Q. HAS THE FED ISSUED ANY MORE RECENT INFORMATION ON ITS  
15 POLICY INTENT?

16 A. Yes. The latest information on Fed policy is from its press release issued on  
17 January 30, 2013 following a meeting of the Federal Open Market Committee  
18 ("FOMC," the monetary policy decision-making forum for the Fed). That statement  
19 affirmed that for the foreseeable future its "highly accommodative" policy will  
20 continue until progress toward "maximum employment" is achieved. Specifically,  
21 the Fed will continue its near zero short-term interest rate policy and will foster lower  
22 long-term interest rates by asset purchases, namely \$85 billion per month of  
23 incremental purchases of mortgage backed securities and long-term Treasury bonds.  
24 The FOMC further stated that an accommodative monetary policy "will remain  
25 appropriate for a considerable time after the asset purchase program ends and the

1 economic recovery strengthens.” In addition, the FOMC observes that inflation  
2 trends have been running below its 2 percent per year target level and that “long-term  
3 inflation expectations remain stable.”

4 Q. ARE THERE FORCES CONTRIBUTING TO LOW INTEREST RATES  
5 OTHER THAN FED POLICY?

6 A. Yes. While the decline in short-term rates is largely attributable to Fed policy  
7 decisions, the behavior of long-term rates reflects more fundamental economic forces,  
8 along with the Fed’s asset purchase program. Factors that drive down long-term bond  
9 interest rates include the ongoing weakness of the U.S. and global macro economy,  
10 the inflation outlook and even international events. A weak economy (as we have at  
11 this time) exerts downward pressure on interest rates and capital costs generally  
12 because the demand for capital is low and inflationary pressures are lacking. While  
13 inflation measures can fluctuate from month to month, long-term inflation rate  
14 expectations presently remain quite low, as the FOMC recently noted. Europe’s  
15 Euro-zone continuing sovereign debt crisis likely contributes somewhat to lower U.S.  
16 interest rates, as U.S. securities are valued as a relative “safe haven” for global  
17 capital. This “safe haven” benefit for U.S. assets may have abated slightly in the last  
18 two or three months, but it could return if Euro-zone financial stability is not achieved  
19 and sustained.

20 Q. DO LOW LONG-TERM INTEREST RATES IMPLY A LOW COST OF  
21 EQUITY FOR UTILITIES?

22 A. In a very general sense and over time, that is normally the case, although the utility  
23 cost of equity and cost of debt need not move together precisely in lock step or  
24 necessarily in the short run. The economic forces mentioned above (and Fed policy)  
25 that lead to lower interest rates also tend to exert downward pressure on the utility

1 cost of equity. After all, many investors tend to view utility stocks and bonds as  
2 alternative investment vehicles for portfolio allocation purposes, and in that sense  
3 utility stocks and long-term bonds are related by market forces.

4 Q. ARE RELATIVE ECONOMIC WEAKNESS AND LOW INFLATION  
5 EXPECTED TO CONTINUE?

6 A. Yes, that appears to be the case. I have consulted the latest "consensus" forecasts  
7 published by *Blue Chip Economic Indicators* (Blue Chip), January 10, 2012 edition,  
8 which is a survey compilation of approximately 40 major forecast organizations. The  
9 "consensus" calls for real GDP growth of 2.0 percent in 2013 and 2.6 percent in 2014  
10 and inflation (GDP deflator) of 1.8 percent and 1.9 percent in 2013 and 2014,  
11 respectively. The October 2012 edition of Blue Chip also publishes a consensus  
12 10-year inflation forecast of 2.1 percent per year, almost no change from the near  
13 term. Thus, both the near- and long-term economic outlooks are for sluggish  
14 economic growth and low inflation, implying low market capital costs.

15 Q. HAS THE PATTERN BEEN SIMILAR FOR EQUITY MARKETS?

16 A. As one would expect, equity markets have exhibited more volatility than bond  
17 markets. Following the onset of the financial crisis about four years ago, stock  
18 market indices plunged, reaching a bottom in March 2009. Since then, stock prices  
19 recovered impressively and the major indices have largely recovered to pre-crisis  
20 levels. The market recovery continued through most of the first half of 2011, but it  
21 then began to deteriorate in late July 2011 with the debt ceiling crisis. The second  
22 half of 2011 was characterized by significant stock market losses, some recovery and  
23 high volatility. The federal debt ceiling debate issue and the subsequent Standard &  
24 Poors (S&P) downgrade of Treasury securities may have been initial triggering  
25 events for the equity market turmoil during August and September 2011. The larger

1 fundamental concerns of investors, based on reporting by the financial press, include  
2 the unraveling of the Euro-zone sovereign debt crisis (and its potential adverse impact  
3 on the European banking system) and the expectations by investors of the potential  
4 for further weakening in the U.S. economy (and to some extent, the global economy).  
5 In the fourth quarter of 2011, the stock market recovered, and for calendar 2011  
6 overall, the stock market was approximately flat or provided only very modest returns  
7 for investors. In general, 2012 was a positive year for the stock market, as has been  
8 the case in January 2013.

9 The effects of these economic events on U.S. utilities (such as PSE&G),  
10 however, are difficult to interpret. It would seem that the Euro-zone and global  
11 economic issues would have little to do directly with U.S. electric utilities. The stock  
12 market improvement over the past year may reflect increased investor interest in U.S.  
13 common equities, including utilities. At the same time, the continuing economic  
14 weakness tends to exert downward pressure on capital costs, interest rates and  
15 inflation. Thus, despite the turmoil in global financial markets, the U.S. provides a  
16 generally low capital cost environment for good quality utilities.

17 Q. HAVE YOU BEEN ABLE TO INCORPORATE THESE RECENT  
18 CHANGES IN FINANCIAL MARKETS INTO YOUR COST OF CAPITAL  
19 ANALYSIS IN THIS CASE?

20 A. Yes, to a large extent I have done so. As a general matter, utility stocks have been  
21 reasonably stable during 2012. Specifically, I present DCF evidence that relies on  
22 utility stock market data from the last half of 2012 as developed by Mr. Moul. Such  
23 market data directly incorporate the economic forces and monetary policy choices  
24 described above. The use of a recent six months of market data is reasonable for



1 assessing PSE&G's current cost of capital as it reflects recent market and economic  
2 trends.

3 Q. PLEASE RELATE THESE CAPITAL COST TRENDS TO THE 2010  
4 SETTLEMENT THAT ESTABLISHED THE AUTHORIZED ROE FOR  
5 PSE&G.

6 A. As noted earlier, PSE&G's last base rate case took place in 2009, with a settlement  
7 reached in 2010. Both the Company's and Rate Counsel's market and cost of capital  
8 data were from that time period. The information shown on Schedule MIK-1  
9 illustrates trends since that time period. During 2009/2010, long-term A-rated utility  
10 bonds were providing yields of about 6 percent, with 10-year Treasury bonds yielding  
11 about 3.0 to 3.5 percent. During the last half of 2012, Single A utility bond yields  
12 were in the 4 to 4.5 percent range with 10-year Treasury security yields in the 1.5 to  
13 2.0 percent range. These are very sharp reductions from 2009/2010 conditions and  
14 are at least indicative of a very sharp reduction in the cost of equity for credit worthy,  
15 stable utilities such as PSE&G.

1 **IV. MR. MOUL'S COST OF EQUITY ESTIMATES**

2 **A. Overview of Mr. Moul's Estimates**

3 Q. IN REBUTTING MS. CRANE, HOW DID MR. MOUL SUPPORT THE  
4 COMPANY'S REQUEST FOR A RETURN ON EQUITY OF  
5 10.3 PERCENT?

6 A. Mr. Moul did so primarily by conducting his own cost of equity (plus Comparable  
7 Earnings) studies, obtaining the following results:

DCF:	10.90%
Risk Premium:	11.66
CAPM:	9.39
Comparable Earnings:	<u>11.15</u>
Average:	10.78%
Average w/o Comparable Earnings:	10.65%

8  
9 The average of his three cost of equity studies is 10.65 percent, which is somewhat  
10 greater than the requested 10.3 percent, and the average is a slightly higher  
11 10.78 percent if the Comparable Earnings measure is included.

12 Mr. Moul's DCF and CAPM studies are based on a ten-company proxy group  
13 of electric utility companies that he selected. The majority of these companies are  
14 vertically integrated (six of the ten, as acknowledged by Mr. Moul), meaning their  
15 market cost of equity is also reflective of the risks of generation supply. Yet, Mr.  
16 Moul makes no downward risk adjustment for PSE&G, which is a low-risk delivery  
17 service utility.

18 Q. WHAT EXPLAINS MR. MOUL'S RELATIVELY HIGH COST OF  
19 EQUITY ESTIMATION RESULTS?

1 A. In the case of the DCF and CAPM studies, which are based on his ten-company proxy  
2 group, he includes two extraneous adders that have nothing to do with the PSE&G  
3 cost of equity. The first is his so-called "leverage adjustment," which he proposes in  
4 order to compensate investors for the fact that standard BPU ratemaking practice is to  
5 use a book value instead of market value capital structure. This adjustment is  
6 0.8 percent in his DCF study and 0.7 percent in his CAPM study. (Mr. Moul refers to  
7 it as the "Hamada" adjustment in the CAPM.) To be clear, Mr. Moul includes this  
8 adjustment because he believes PSE&G shareholders are entitled to additional  
9 compensation *over and above* the cost of equity due to the Board's book value  
10 ratemaking practice.

11 The second adder, 0.16 percent, is for PSE&G's flotation expense, i.e.,  
12 expenses incurred when PSE&G or its parent issues new common equity. I do not  
13 object to flotation expense recovery in principle, provided that such costs can be  
14 documented. That is, there must be some evidence that there are actual flotation  
15 expenses incurred or to be incurred by PSE&G that are in need of recovery. In the  
16 case of PSE&G and Mr. Moul's rebuttal testimony, there is no such evidence.

17 Q. IF THESE TWO IMPROPER ADJUSTMENTS ARE REMOVED, WHAT  
18 ARE MR. MOUL'S DCF AND CAPM RESULTS?

19 A. Using all of Mr. Moul's input data and assumptions, but removing these two  
20 improper adjustments, his studies would produce the following results:

21 DCF: 4.68% (dividend yield) + 5.25% (growth rate) = 9.93%

22  
23 CAPM: 3.00% + 0.69 (7.99) = 8.52%

24 This range of 8.5 to 9.9 percent clearly validates the reasonableness of Ms. Crane's  
25 9.75 percent even before accounting for the fact that (a) PSE&G is somewhat less  
26 risky than Mr. Moul's ten-company proxy group; and (b) the solar program cost

1 recovery mechanism is much lower in risk than conventional base rate case cost  
2 recovery.

3 Q. THE RISK PREMIUM STUDY PRODUCES A MUCH HIGHER  
4 11.66 PERCENT ESTIMATE. WHY IS THIS ESTIMATE SO HIGH?

5 A. Mr. Moul employs an extremely unusual risk premium method in his testimony,  
6 apparently abandoning the risk premium method he has used in past years. Using  
7 historical stocks versus bonds for selected years, he calculates a 7.0 percent risk  
8 premium relative to a current single A utility bond yield of 4.5 percent. Mr. Moul's  
9 previous risk premium methodology (employed up until now) estimated a utility risk  
10 premium value of 5.5 percent, or about 1.5 percent lower. While in my opinion even  
11 the 5.5 percent is excessive, had Mr. Moul stayed with his previous methodology, he  
12 would have obtained a risk premium cost of equity estimate of 10.0 percent  
13 (excluding an adjustment for flotation expense).

14 Q. IS MR. MOUL EMPLOYING AN ACCEPTED RISK PREMIUM  
15 METHOD?

16 A. No, he is not. Analysts frequently make use of historical market returns data series to  
17 estimate the equity risk premium (typically for the overall stock market and not for an  
18 individual firm or industry). But unlike Mr. Moul, they use the entire historical data  
19 series, not selected years. Mr. Moul's study method is unprecedented and bears no  
20 resemblance to other risk premium studies.

21 Q. WHAT WEIGHT SHOULD BE GIVEN TO MR. MOUL'S COMPARABLE  
22 EARNINGS STUDY?

23 A. None, since it has nothing to do with PSE&G's cost of equity. This study is nothing  
24 more than a compilation of accounting returns on equity, earned historically and  
25 projected for a group of unregulated companies. Accounting returns are unrelated to

1 prospective market returns which is what investors focus on in deciding whether to  
2 purchase a company's stock. It is therefore the market returns expectation measure  
3 (e.g., using the DCF model) that address the crucial "capital attraction standard" of a  
4 fair rate of return. For example, whether a company has achieved an accounting  
5 return on equity of 5, 10 or 15 percent for some time period, by itself, tells us nothing  
6 about that company's cost of equity.

7 **B. The DCF Estimate**

8 Q. SETTING ASIDE THE LEVERAGE AND FLOTATION ADDERS, IS THE  
9 UNADJUSTED 9.9 PERCENT DCF ESTIMATE REASONABLE?

10 A. While removing the two improper "adders" greatly improves the realism of Mr.  
11 Moul's DCF study, I believe that his 9.9 percent estimate is still too high. In  
12 particular, Mr. Moul's study assumes a long-run growth rate of 5.25 percent, but he  
13 does not fully explain the basis for this figure. (See Mr. Moul's rebuttal testimony,  
14 page 23.) He provides a lengthy discussion advocating the use of securities analyst  
15 projections of five-year earnings growth, but the 5.25 percent appears to be his  
16 judgment based on his informal perusal of this evidence.

17 While I agree with Mr. Moul that a proxy group growth rate of 5.25 percent  
18 falls within his range of evidence, it appears to be near the higher end of the range.  
19 For example, his Schedule 4 presents nine separate measures of projected growth, and  
20 eight of the nine measures are *lower* than 5.25 percent. More specifically, five of the  
21 nine measures are his preferred measure of securities analyst earnings growth rate  
22 estimates, and four of the five measures are below 5.25 percent. Thus, based on his  
23 own evidence (including his preferred measures), his DCF growth rate estimate is  
24 excessive.

25 Q. WHAT WOULD BE A MORE REALISTIC ESTIMATE?

1 A. Mr. Moul on Schedule 4 and in testimony cites to five separate sources of securities  
2 analyst earnings growth rates for his proxy companies that he believes should be  
3 employed:

Yahoo First Call:	4.48%
SNL:	5.01
Zacks:	4.40
Morningstar:	5.69
Value Line:	<u>5.20</u>

Average: 4.96%

4 Based on my experience, First Call, Zacks and Value Line are well-known sources of  
5 analyst earnings projections available to investors and used by witnesses in rate cases.  
6 SNL and Morningstar may be more recent entrants and are not as widely cited. The  
7 average of First Call, Zacks and Value Line is 4.69 percent.

8 A more reasonable DCF estimate would employ a growth rate range of 4.69 to  
9 4.96 percent, based on these published securities analyst projections. I have also  
10 accepted, for surrebuttal purposes, Mr. Moul's proxy growth dividend yield for the  
11 last six months of 2012 of 4.54 percent. (See Mr. Moul's Schedule 2.) This produces  
12 the following DCF proxy group results:

13 DCF cost of equity =  $D_0/P_0 (1.0 + 0.5g) + g$

14 Lower end: 4.54% (1.0235) + 4.69% = 9.34%

15 Upper end: 4.54% (1.0248) + 4.96% = 9.61%

16  
17  
18 A more reasonable DCF estimate for the proxy group, from Mr. Moul's own data set,  
19 would be 9.34 to 9.61 percent, which confirms the fact that Ms. Crane's 9.75 percent  
20 value is both reasonable and conservatively high.

21 This DCF range, of course, does not account for PSE&G's inherently lower  
22 risk than the proxy group or the very low risk nature of a solar tracker.

1    **C. The Flotation Expense Adder**

2    Q.           WHY DO YOU OPPOSE THE FLOTATION EXPENSE ADDER?

3    A.    Mr. Moul recommends including within the solar program cost recovery mechanisms  
4           a 0.16 percent return on equity adder to recover the flotation expense allegedly  
5           associated with operating these programs. But he has provided no evidence that such  
6           costs have been or will be incurred by PSE&G. To the contrary, all available  
7           evidence suggests there are no such costs to be recovered. The fact that other utilities  
8           may have in the past incurred or will incur these costs has nothing to do with  
9           appropriate cost recovery within the PSE&G solar program trackers.

10   Q.           WHAT IS YOUR EVIDENCE THAT SUCH COSTS HAVE NOT AND  
11           WILL NOT BE INCURRED BY PSE&G?

12   A.    Common stock issuances, if any, are undertaken by the publically-traded entity Public  
13           Service Enterprise Group (PSEG), not the PSE&G utility subsidiary. The response to  
14           RCR-ROR-6 states that PSEG has not had a public issuance of common stock within  
15           the past three years. RCR-ROR-7 requested information concerning prospective  
16           PSEG stock issuances, and the Company refused to provide the information. Thus,  
17           Company data responses provide no evidence of any flotation expense.

18           The Value Line Investment Survey provides both a historical data series on  
19           PSEG shares outstanding and projected increases over the next five years (until  
20           2017). The November 23, 2012 report on PSEG indicates that there has been no  
21           significant change in shares outstanding since 2005, or about the last eight years.  
22           Value Line further projects no change in PSEG shares outstanding between now and  
23           2017. This suggests no PSEG (and therefore PSE&G) flotation expense during 2005  
24           to 2017, or a 12-year period of time.

1           There is simply no factual basis for Mr. Moul's 0.16 percent flotation expense  
2           addor for use in the solar tracker mechanisms. These are phantom expenses.

3   **D. The Leverage Adjustment**

4   Q.           WHY DOES MR. MOUL INCLUDE HIS LEVERAGE ADDER IN HIS  
5           DCF AND CAPM STUDIES?

6   A.           His rebuttal testimony clearly states that the purpose of the leverage adjustment is to  
7           provide PSE&G shareholders with additional compensation because a book value  
8           rather than a market value capital structure is used for ratemaking. For example, at  
9           page 24, lines 14-15 he states, "if book values are used to compute the capital  
10          structure ratios, then an adjustment is required." This is a candid admission that the  
11          leverage adder is not part of the utility cost of equity, as measured by the standard  
12          DCF formula, but is included due to capital structure ratemaking practices.

13   Q.           IS THERE ANY BASIS FOR ASSERTING THAT THE COMBINATION  
14           OF THE STANDARD DCF COST OF EQUITY AND A BOOK VALUE  
15           CAPITAL STRUCTURE HAS FAILED TO ADEQUATELY  
16           COMPENSATE INVESTORS?

17   A.           No, such a criticism has no validity. This standard practice (a market cost of equity  
18           coupled with a book value capital structure) is the essence of cost-based ratemaking  
19           that fully meets the capital attraction standard and has been used successfully by the  
20           BPU (and other regulatory commissions) for decades. I am also not aware of PSE&G  
21           in past cases advocating an ROE adder above its cost of equity due to the Board's use  
22           of a book value capital structure.

23   Q.           IS CAPITAL STRUCTURE IN DISPUTE IN THIS CASE?

24   A.           No. Both the Company and Rate Counsel accept the use of a *book value* capital  
25           structure for rate setting.



1 Q. PLEASE EXPLAIN WHY THE LEVERAGE ADJUSTMENT IS NOT  
2 PART OF THE COST OF EQUITY AND IMPROPER?

3 A. As I explained, using Mr. Moul's own data and approach, the proxy group DCF  
4 estimate is about 9.3 to 9.6 percent, based on available market data. The DCF results  
5 automatically reflect all information and risks associated with the ten proxy  
6 companies, as perceived by investors. Investors are fully aware of the companies'  
7 use of debt leverage and that all regulators use book value capital structure for rate  
8 making. Hence, the 9.3 to 9.6 percent DCF estimate range therefore already fully  
9 accounts for the fact that utility regulators routinely set rates using book value capital  
10 structures for all ten proxy companies. It also fully accounts for these companies'  
11 actual use of debt leverage to finance operations.

12 While Mr. Moul does not directly claim that his leverage adder is part of the  
13 cost of equity, he does assert that investors either require or merit this additional  
14 compensation. He is wrong. Cost-based ratemaking adequately and fairly  
15 compensates investors. If that were not the case, the ten proxy companies could not  
16 attract capital (and they clearly do). Investor requirements for compensation are  
17 automatically captured in the standard DCF formula.

18 There is one other possibility to be considered. An adder conceivably could  
19 be justified if the PSE&G ratemaking capital structure is more leverage than the  
20 actual proxy group average capital structure. Mr. Moul's Schedule 5, however, puts  
21 that concern to rest. This shows an actual proxy group average capital structure of  
22 46 percent equity and 54 percent debt – somewhat more leverage than PSE&G's  
23 51 percent equity 49 percent debt capital structure. Thus, if debt leverage is a  
24 relevant risk factor, then the proxy group DCF study results would merit a downward,  
25 not an upward adjustment.

1 Q. IS THERE PROFESSIONAL REGULATORY ACCEPTANCE OF MR.  
2 MOUL'S LEVERAGE ADJUSTMENT?

3 A. Very little. I do not recall PSE&G cost of equity witnesses in past cases advocating  
4 this adder or making the argument that additional compensation is required due to the  
5 use of a book value capital structure. Mr. Moul cites to certain cases in Pennsylvania  
6 several years ago in which some form of leverage adder was included, but he could  
7 cite no cases since 2007 or in any other state. (Response to RCR-ROR-8 and 9.) I  
8 have participated in numerous other rate cases on the cost of equity issue in various  
9 other jurisdictions. In those cases, this type of adjustment is not supported by other  
10 cost of equity experts be they commission staff, consumer advocate or utility-  
11 sponsored (other than Mr. Moul). There is also no support for this adjustment in the  
12 professional literature on cost of capital or regulatory ratemaking.

13 Q. DOESN'T MR. MOUL CITE AS AUTHORITY FOR HIS ADJUSTMENT  
14 THE WORKS OF DOCTORS MODIGLIANI, MILLER AND HAMADA?

15 A. He purports to apply their formulas, but he does in a manner that is highly misleading  
16 and that has nothing to do with the underlying financial theory. Modigliani, Miller  
17 and Hamada have not advocated the inclusion of a rate of return "adder" to the actual  
18 DCF or CAPM cost of equity because state regulators employ book value capital  
19 structures for ratemaking. Rather, their formulas are relevant to a very different issue,  
20 i.e., if PSE&G is more leveraged than the ten proxy companies. But Mr. Moul's  
21 Schedule 5 demonstrates that this is not the case.

22 Q. SHOULD THE LEVERAGE ADDER BE REJECTED?

1 A. Yes. It has no place in either the DCF or CAPM studies, and the notion that  
2 conventional cost-based ratemaking fails to adequately compensate investors must be  
3 rejected as without foundation.<sup>3</sup>

4 E. **Risk Premium Study**

5 Q. WHAT IS YOUR OBJECTION TO MR. MOUL'S RISK PREMIUM  
6 STUDY?

7 A. As noted above, Mr. Moul has inexplicably changed his Risk Premium methodology  
8 in his rebuttal testimony in this case, as compared to his past testimony, which has  
9 resulted in the equity risk premium increasing from 5.5 percent to 7.0 percent, or a  
10 27 percent increase.

11 Q. WHAT ACCOUNTS FOR THE INCREASE?

12 A. A more conventional approach to estimating the risk premium, widely used in the  
13 professional literature, is to compare market returns on stocks and bonds over the  
14 historic period for which data are available. Mr. Moul previously used this approach.  
15 In this case, the first problem is that Mr. Moul employs only those years when long-  
16 term Treasury yields were "low," i.e., a subset of his historical data base. He justifies  
17 this selectivity arguing that the risk premium increases when market bond yields are  
18 low, although he provides no support for that assertion (other than his own risk  
19 premium data series).

20 The second problem with Mr. Moul's 7.0 percent risk premium estimate, even  
21 if valid, has nothing to do with PSE&G and its risk profile. It appears to be based  
22 entirely on the historical market returns on "large company stocks" (i.e.,  
23 predominantly non utilities) versus long-term corporate (not utility) bonds. Thus, the

---

<sup>3</sup> Please note that in the CAPM the leverage adjustment is used to increase the proxy group beta from 0.69 to 0.78, which increase the CAPM estimate by about 0.7. Since the corrected CAPM estimate is 8.5 percent, I do not address any further in my surrebuttal testimony. This should not be interpreted as my concurrence with other aspects of Mr. Moul's CAPM study.

1       7.0 percent risk premium and the resulting roughly 11.5 percent cost of equity at best  
2       is applicable to the overall stock market, not the ten company proxy group or  
3       PSE&G. It is important to note that in his CAPM study, Mr. Moul found an overall  
4       stock market required return (i.e., cost of equity) of 11.0 percent. In order for his  
5       Risk Premium study to be valid, one would be forced to believe that PSE&G has a  
6       higher cost of equity than the overall stock market. Clearly, such an illogical result  
7       cannot be correct.

8               Finally, inspection of Mr. Moul's Risk Premium data base reveals a serious  
9       problem. Mr. Moul begins with annual market returns observations obtained from  
10      Morningstar for the time period 1926-2011 – 86 total observations. (See his Schedule  
11      8, page 2 of 2.) He then extracts from that data base a subtotal of 43 years, or half of  
12      the years. However, of those 43 years in his subset, 40 of the 43 (or over 90 percent)  
13      are from the time period 1926 to 1965, with only three observations being years since  
14      1965 (i.e., nearly 50 years ago). In other words, what Mr. Moul has done is to take  
15      the Morningstar 1926 to 2011 time period and for practical periods segregate it into  
16      two subperiods (with three minor exceptions) – 1926 to 1965 and 1965 to 2011. He  
17      then bases *today's* PSE&G equity risk premium on the 1926 to 1965 market returns,  
18      largely ignoring all observations between 1966 and 2011, which is the last half  
19      century.

20             Mr. Moul's method of using the historical data base is unreasonable and lacks  
21      any credibility. In addition, the equity risk premium value of 7.0 percent is based  
22      largely on non-utility market data. It is not surprising that it produces such illogical  
23      and overstated results.

1   **F. Comparable Earnings**

2   Q.           HOW DID MR. MOUL DEVELOP HIS COMPARABLE EARNINGS  
3               ESTIMATE OF 11.15 PERCENT?

4   A.   Mr. Moul assembled a large group of non-regulated companies and recorded their  
5       historical and projected earned return on equity. In other words, it is nothing more  
6       than a compilation of accounting returns.

7   Q.           IS COMPARABLE EARNINGS A COST OF EQUITY METHOD?

8   A.   No, and I do not read Mr. Moul's testimony as asserting otherwise. For this reason,  
9       the comparable earnings data set simply cannot address the capital attraction standard  
10      because it fails to measure the return that investors actually require, which is the  
11      prospective market return on capital that they invest today. For example, the simple  
12      fact that the achieved accounting return for a company is, say 18 percent, tells us  
13      nothing about what rate of return investors expect to earn from investing today in that  
14      stock. To state the obvious, the expected return depends on the price of the stock.

15  Q.           ARE THERE OTHER PROBLEMS WITH MR. MOUL'S COMPARABLE  
16               EARNINGS?

17  A.   Yes, there are numerous problems. As examples, the return on equity for unregulated  
18       companies can be distorted by equity accounting write downs, which inflate the  
19       reported accounting return on equity. This is typically not an issue for utilities. An  
20       additional concern is that some unregulated firms may possess and exercise market  
21       power. Utilities, of course, possess market power (as monopolies), but cost of service  
22       regulation prevents them from exercising it. Mr. Moul concedes that he has not  
23       investigated whether the accounting ROEs in his study have been increased due to the  
24       presence of market power. (Response to RCR-ROR-11.) Earnings that have been

1       affected by the possession and exercise of market power cannot be referenced as a  
2       legitimate benchmark for setting the utility fair rate of return.

3               Mr. Moul's Comparable Earnings study is of no use either in determining  
4       PSE&G's current cost of equity or establishing a fair return on equity for the solar  
5       programs.

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1 intentionally allowing the utility to charge customers for more than the program  
2 actually costs. Intentionally overcharging ratepayers is particularly objectionable  
3 given that the tracker mechanism is structured to provide dollar-for-dollar recovery.

4 The need to update the cost of debt in the tracker seems particularly obvious  
5 since there is really no dispute over the current embedded cost rate, i.e., 5.35 percent.  
6 PSE&G's cost of equity, while more controversial, clearly has declined since 2009  
7 and is well below 10.3 percent, as my testimony demonstrates. Mr. Crane's  
8 9.75 percent is more than fair for use in the solar program trackers.

9 Q. HAVE PSE&G WITNESSES BEEN ABLE TO SUPPORT THEIR  
10 ASSERTIONS THAT THE SOLAR INVESTMENTS ARE SUBJECT TO  
11 THE SAME OR SIMILAR RISK AS PSE&G AS A WHOLE?

12 A. No. Mr. Moul is dismissive of the entire issue arguing that the "Solar Programs are  
13 not dissimilar in risk from the overall PSE&G utility business."<sup>4</sup> He has absolutely  
14 no basis for such an assertion, and it clearly is not true, as discussed by Rate Counsel  
15 witness Crane. The only risk that Mr. Swetz could point to is that the PSE&G solar  
16 programs are exposed to prudence disallowances. The reality is that PSE&G has  
17 never experienced a prudence disallowance associated with any of its energy  
18 efficiency or renewable energy programs. (Response to RCR-ROR-17.)

19 The salient point is not that such trackers are risk free, but rather that it is  
20 indisputable that they are lower in risk than conventional utility cost recovery.  
21 Contrary to Mr. Moul's concern, Rate Counsel is not seeking to quantify and impose  
22 a specific rate of return reduction for this lower risk, although doing so would not be

---

<sup>4</sup> In the response to RCR-ROR-2, Mr. Moul argues for ignoring the issue because there is no readily available method of quantifying the lowered risk.



1 unreasonable. Rather this low-risk cost recovery helps to provide a further  
2 compelling argument for updating to recognize declining capital costs.

3 Ultimately, PSE&G in this docket is proposing single issue ratemaking. In  
4 this context, it is one sided and unfair to its customers to disregard the clearly  
5 documented cost of capital savings.

6 Q. MR. MOUL ARGUES THAT TODAY'S ULTRA-LOW CAPITAL COSTS  
7 EVENTUALLY WILL INCREASE AND FOR THAT REASON THE  
8 10.3 PERCENT ROE SHOULD BE RETAINED. PLEASE COMMENT.

9 A. This argument is both inaccurate and unpersuasive. It is inaccurate because the  
10 Company's response to RCR-A-51 states that rate of return will be periodically  
11 updated over time when the Company completes base rate cases. PSE&G, of course,  
12 to a large extent controls the timing of when future base rate cases will take place. It  
13 is therefore the Company's own position that rate of return can be revisited at times  
14 of its choosing.

15 The argument is also unpersuasive because Mr. Moul provides no market  
16 evidence that capital markets will soon reverse and that PSE&G's cost of equity will  
17 move sharply upwards. The fundamental conditions that have given rise to today's  
18 very low capital costs are expected to persist for some extended period of time. Mr.  
19 Moul has no basis for claiming that "markets today are wrong" and that current low-  
20 cost capital market conditions must be disregarded as ephemeral.

21 Q. MR. MOUL EXPRESSES CONCERN THAT AT A LOWER RATE OF  
22 RETURN PSE&G WILL LACK INCENTIVE TO INVEST IN  
23 RENEWABLE RESOURCES. IS HE CORRECT?

24 A. Mr. Moul is correct that if the authorized return on equity were to be set at a  
25 sufficiently low level, for example, well below the Company's current cost of equity,

1 doing so could distort investment incentives. This possibility, however, is not the  
2 case here because the 9.75 percent recommended by Ms. Crane clearly is not below  
3 PSE&G's cost of equity, particularly in the context of the solar tracker mechanism.  
4 On the other hand, retaining the 10.3 percent requested by the Company exceeds its  
5 cost of equity thereby creating a perverse incentive to overinvest.

6 Q. MR. MOUL AT PAGE 10 OF HIS REBUTTAL TESTIMONY CITES  
7 CERTAIN 2012 RETURN ON EQUITY AWARDS IN OTHER STATES TO  
8 VALIDATE THE REASONABLENESS OF THE REQUESTED  
9 10.3 PERCENT. IS THIS INFORMATION PERSUASIVE?

10 A. No, it is not. Mr. Moul cites the Regulatory Research Associates (RRA) survey of  
11 state regulator ROE awards for electric utilities in 2012, which he attaches to his  
12 testimony as Exhibit PRM-2. He is indeed correct that there have been some rate of  
13 return on equity awards at or above 10.3 percent. RRA notes that the average award  
14 for electric utilities in 2012, excluding some special case awards in Virginia,<sup>5</sup> was  
15 10.01 percent. This average result is roughly midway between the requested  
16 10.3 percent and Ms. Crane's 9.75 percent.

17 The problem is that the 10.01 percent 2012 ROE average is a combination of  
18 state commission ROE awards for vertically-integrated electric utilities and delivery  
19 service electric utilities. It is obviously the latter that is relevant to PSE&G. Using  
20 Mr. Moul's Exhibit PRM-2, I have extracted the 2012 ROE awards for delivery  
21 service electric utilities.

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<sup>5</sup> RRA discusses the average award in 2012 excluding the Virginia results because those very high returns are associated with generation plant surcharges where a ROE bonus was mandated by statute.

Company	State	Date	Award
Comm. Edison	Illinois	5/29	10.05%
Orange & Rockland	New York	6/15	9.40
Delmarva Power	Maryland	7/20	9.81
PEPCO	Maryland	7/20	9.31
Ameren	Illinois	9/19	10.05
PEPCO	D.C.	2/26	9.50
Lone Star Transmission	Texas	10/12	9.60
Atlantic City	New Jersey	10/23	9.75
Delmarva Power	Delaware	11/29	9.75
Ameren	Illinois	12/5	9.71
PPL Electric	Pennsylvania	12/5	10.40
Comm. Edison	Illinois	12/19	9.71
Narragansett	Rhode Island	12/20	9.50
<b>Average</b>			<b>9.74%</b>

There is only one delivery service ROE award materially above 10 percent, the PPL Electric decision cited by Mr. Moul (which, as he notes, includes a management performance bonus). Nearly all others are at or below 10 percent, with the average ROE award being 9.74 percent. I believe that Mr. Moul's RRA survey for 2012 (Exhibit PRM-2) helps to validate the reasonableness of Ms. Crane's recommendation.

Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

A. Yes, it does.

**BEFORE THE STATE OF NEW JERSEY  
BOARD OF PUBLIC UTILITIES**

**IN THE MATTER OF THE PETITION )  
OF PUBLIC SERVICE ELECTRIC AND )  
GAS COMPANY FOR APPROVAL OF )  
AN EXTENSION OF A SOLAR )  
GENERATION INVESTMENT )  
PROGRAM AND ASSOCIATED COST )  
RECOVERY MECHANISM AND FOR )  
CHANGES IN THE TARIFF FOR )  
ELECTRIC SERVICE, B.P.U. N.J. NO. )  
15 ELECTRIC PURSUANT TO N.J.S.A. )  
48:2-21, 48:21-21.1 AND N.J.S.A. 48:3- )  
98.1 )**

**BPU DOCKET NO. EO12080721**

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**SCHEDULES ACCOMPANYING THE  
SURREBUTTAL TESTIMONY OF MATTHEW I. KAHAL  
ON BEHALF OF THE  
NEW JERSEY DIVISION OF RATE COUNSEL**

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**FILED: March 1, 2013**

**PUBLIC SERVICE ELECTRIC AND GAS COMPANY**

Trends in Capital Costs

	<u>Annualized Inflation (CPI)</u>	<u>10-Year Treasury Yield</u>	<u>3-Month Treasury Yield</u>	<u>Single A Utility Yield</u>	<u>Baa Utility Yield</u>
2002	1.6%	4.6%	1.6%	7.4%	8.0%
2003	1.9	4.1	1.0	6.6	6.8
2004	2.7	4.3	1.4	6.2	6.4
2005	3.4	4.3	3.0	5.6	5.9
2006	2.5	4.8	4.8	6.1	6.3
2007	2.8	4.6	4.5	6.1	6.3
2008	3.8	3.4	1.6	6.5	7.2
2009	(0.4)	3.2	0.2	6.0	7.1
2010	1.6	3.2	0.1	5.5	6.0
2011	3.1	2.8	0.0	5.0	5.6
2012	2.1	1.8	0.1	4.1	4.9

**PUBLIC SERVICE ELECTRIC AND GAS COMPANY**

**U.S. Historic Trends in Capital Costs  
(Continued)**

	<u>Annualized Inflation (CPI)</u>	<u>10-Year Treasury Yield</u>	<u>3-Month Treasury Yield</u>	<u>Single A Utility Yield</u>	<u>Baa Utility Yield</u>
<u>2007</u>					
January	2.1%	4.8%	5.1%	6.0%	6.2%
February	2.4	4.7	5.2	5.9	6.1
March	2.8	4.6	5.1	5.9	6.1
April	2.6	4.7	5.0	6.0	6.2
May	2.7	4.8	5.0	6.0	6.2
June	2.7	5.1	5.0	6.3	6.5
July	2.4	5.0	5.0	6.3	6.5
August	2.0	4.7	4.3	6.2	6.5
September	2.8	4.5	4.0	6.2	6.5
October	3.5	4.5	4.0	6.1	6.4
November	4.3	4.2	3.4	6.0	6.3
December	4.1	4.1	3.1	6.2	6.5
<u>2008</u>					
January	4.3%	3.7%	2.8%	6.0%	6.4
February	4.0	3.7	2.2	6.2	6.6
March	4.0	3.5	1.3	6.2	6.7
April	3.9	3.7	1.3	6.3	6.8
May	4.2	3.9	1.8	6.3	6.8
June	5.0	4.1	1.9	6.4	6.9
July	5.6	4.0	1.7	6.4	7.0
August	5.4	3.9	1.8	6.4	7.0
September	4.9	3.7	1.2	6.5	7.2
October	3.7	3.8	0.7	7.6	8.6
November	1.1	3.5	0.2	7.6	9.0
December	0.1	2.4	0.0	6.5	8.1



**PUBLIC SERVICE ELECTRIC AND GAS COMPANY**

U.S. Historic Trends in Capital Costs  
(Continued)

	<u>Annualized Inflation (CPI)</u>	<u>10-Year Treasury Yield</u>	<u>3-Month Treasury Yield</u>	<u>Single A Utility Yield</u>	<u>Baa Utility Yield</u>
<u>2009</u>					
January	0.0%	2.5%	0.1%	6.4%	7.9%
February	0.2	2.9	0.3	6.3	7.7
March	(0.4)	2.8	0.2	6.4	8.0
April	(0.7)	2.9	0.2	6.5	8.0
May	(1.3)	2.9	0.2	6.5	7.8
June	(1.4)	3.7	0.2	6.2	7.3
July	(2.1)	3.6	0.2	6.0	6.9
August	(1.5)	3.6	0.2	5.7	6.4
September	(1.3)	3.4	0.1	5.5	6.1
October	(0.2)	3.4	0.1	5.6	6.1
November	1.8	3.4	0.1	5.6	6.2
December	2.5	3.6	0.1	5.8	6.3
<u>2010</u>					
January	2.6%	3.7%	0.1%	5.8%	6.2%
February	2.1	3.7	0.1	5.9	6.3
March	2.3	3.7	0.2	5.8	6.2
April	2.2	3.9	0.2	5.8	6.2
May	2.0	3.4	0.2	5.5	6.0
June	1.1	3.2	0.1	5.5	6.0
July	1.2	3.0	0.2	5.3	6.0
August	1.1	2.7	0.2	5.0	5.6
September	1.1	2.7	0.2	5.0	5.5
October	1.2	2.5	0.1	5.1	5.6
November	1.1	2.8	0.1	5.4	5.9
December	1.2	3.3	0.1	5.6	6.0

**PUBLIC SERVICE ELECTRIC AND GAS COMPANY**

U.S. Historic Trends in Capital Costs  
(Continued)

	<u>Annualized Inflation (CPI)</u>	<u>10-Year Treasury Yield</u>	<u>3-Month Treasury Yield</u>	<u>Single A Utility Yield</u>	<u>Baa Utility Yield</u>
<u>2011</u>					
January	1.6%	3.4%	0.1%	5.6%	6.1%
February	2.1	3.6	0.1	5.7	6.1
March	2.7	3.4	0.1	5.6	6.0
April	2.2	3.5	0.1	5.6	6.0
May	3.6	3.2	0.0	5.3	5.7
June	3.6	3.0	0.0	5.3	5.7
July	3.6	3.0	0.0	5.3	5.7
August	3.8	2.3	0.0	4.7	5.2
September	3.9	2.0	0.0	4.5	5.1
October	3.5	2.2	0.0	4.5	5.2
November	3.0	2.0	0.0	4.3	4.9
December	3.0	2.0	0.0	4.3	5.1
<u>2012</u>					
January	2.9	2.0	0.0	4.3	5.1
February	2.9	2.0	0.0	4.4	5.0
March	2.7	2.2	0.1	4.5	5.1
April	2.3	2.1	0.1	4.4	5.1
May	1.7	1.8	0.1	4.2	5.0
June	1.7	1.6	0.1	4.1	4.9
July	1.4	1.5	0.1	3.9	4.9
August	1.7	1.7	0.1	4.0	4.9
September	2.0	1.7	0.1	4.0	4.8
October	2.2	1.8	0.1	3.9	4.5
November	1.8	1.7	0.1	3.8	4.4
December	1.7	1.7	0.1	4.0	4.6
<u>2013</u>					
January	1.6	1.9	0.1	4.2	4.7

Source: *Economic Report of the President, Mergent's Bond Record,*  
*Federal Reserve Statistical Release (H.15), Consumer Price Index Summary (BLS)*



**APPENDIX A**

**QUALIFICATIONS OF  
MATTHEW I. KAHAL**

## **MATTHEW I. KAHAL**

Since 2001, Mr. Kahal has worked as an independent consulting economist, specializing in energy economics, public utility regulation and utility financial studies. Over the past three decades, his work has encompassed electric utility integrated resource planning (IRP), power plant licensing, environmental compliance and utility financial issues. In the financial area he has conducted numerous cost of capital studies and addressed other financial issues for electric, gas, telephone and water utilities. Mr. Kahal's work in recent years has shifted to electric utility restructuring, mergers and various aspects of regulation.

Mr. Kahal has provided expert testimony on more than 350 occasions before state and federal regulatory commissions and the U.S. Congress. His testimony has covered need for power, integrated resource planning, cost of capital, purchased power practices and contracts, merger economics, industry restructuring and various other regulatory and public policy issues.

### **Education:**

B.A. (Economics) - University of Maryland, 1971.

M.A. (Economics) - University of Maryland, 1974.

Ph.D. candidacy - University of Maryland, completed all course work  
and qualifying examinations.

### **Previous Employment:**

1981-2001 - Exeter Associates, Inc. (founding Principal, Vice President and President).

1980-1981 - Member of the Economic Evaluation Directorate, The Aerospace Corporation, Washington, D.C. office.

1977-1980 - Economist, Washington, D.C. consulting firm.

1972-1977 - Research/Teaching Assistant and Instructor, Department of Economics, University of Maryland (College Park). Lecturer in Business and Economics, Montgomery College.

### **Professional Work Experience:**

Mr. Kahal has more than thirty years experience managing and conducting consulting assignments relating to public utility economics and regulation. In 1981, he and five colleagues founded the firm of Exeter Associates, Inc. and for the next 20 years he served as a Principal and corporate officer in the firm. During that time, he supervised multi-million dollar support contracts with the State of Maryland and directed the technical work conducted both by Exeter professional staff and

numerous subcontractors. Additionally, Mr. Kahal took the lead role at Exeter in consulting to the firm's other governmental and private clients in the areas of financial analysis, utility mergers, electric restructuring and utility purchase power contracts.

At the Aerospace Corporation, Mr. Kahal served as an economic consultant to the Strategic Petroleum Reserve (SPR). In that capacity he participated in a detailed financial assessment of the SPR, and developed an econometric forecasting model of U.S. petroleum industry inventories. That study has been used to determine the extent to which private sector petroleum stocks can be expected to protect the U.S. from the impacts of oil import interruptions.

Before entering consulting, Mr. Kahal held faculty positions with the Department of Economics at the University of Maryland and with Montgomery College teaching courses on economic principles, business and economic development.

#### **Publications and Consulting Reports:**

Projected Electric Power Demands of the Baltimore Gas and Electric Company, Maryland Power Plant Siting Program, 1979.

Projected Electric Power Demands of the Allegheny Power System, Maryland Power Plant Siting Program, January 1980.

An Econometric Forecast of Electric Energy and Peak Demand on the Delmarva Peninsula, Maryland Power Plant Siting Program, March 1980 (with Ralph E. Miller).

A Benefit/Cost Methodology of the Marginal Cost Pricing of Tennessee Valley Authority Electricity, prepared for the Board of Directors of the Tennessee Valley Authority, April 1980.

An Evaluation of the Delmarva Power and Light Company Generating Capacity Profile and Expansion Plan, (Interim Report), prepared for the Delaware Office of the Public Advocate, July 1980, (with Sharon L. Mason).

Rhode Island-DOE Electric Utilities Demonstration Project. Third Interim Report on Preliminary Analysis of the Experimental Results, prepared for the Economic Regulatory Administration, U.S. Department of Energy, July 1980.

Petroleum Inventories and the Strategic Petroleum Reserve, The Aerospace Corporation, prepared for the Strategic Petroleum Reserve Office, U.S. Department of Energy, December 1980.

Alternatives to Central Station Coal and Nuclear Power Generation, prepared for Argonne National Laboratory and the Office of Utility Systems, U.S. Department of Energy, August 1981.

"An Econometric Methodology for Forecasting Power Demands," Conducting Need-for-Power Review for Nuclear Power Plants (D.A. Nash, ed.), U.S. Nuclear Regulatory Commission, NUREG-0942, December 1982.

State Regulatory Attitudes Toward Fuel Expense Issues, prepared for the Electric Power Research Institute, July 1983, (with Dale E. Swan).

"Problems in the Use of Econometric Methods in Load Forecasting," Adjusting to Regulatory, Pricing and Marketing Realities (Harry Trebing, ed.), Institute of Public Utilities, Michigan State University, 1983.

Proceedings of the Maryland Conference on Electric Load Forecasting, (editor and contributing author), Maryland Power Plant Siting Program, PPES-83-4, October 1983.

"The Impacts of Utility-Sponsored Weatherization Programs: The Case of Maryland Utilities," (with others), in Government and Energy Policy (Richard L. Itteilag, ed.), 1983.

Power Plant Cumulative Environmental Impact Report, contributing author, (Paul E. Miller, ed.) Maryland Department of Natural Resources, January 1984.

Projected Electric Power Demands for the Potomac Electric Power Company, three volumes with Steven L. Estomin), prepared for the Maryland Power Plant Siting Program, March 1984.

"An Assessment of the State-of-the-Art of Gas Utility Load Forecasting," (with Thomas Bacon, Jr. and Steven L. Estomin), published in the Proceedings of the Fourth NARUC Biennial Regulatory Information Conference, 1984.

"Nuclear Power and Investor Perceptions of Risk," (with Ralph E. Miller), published in The Energy Industries in Transition: 1985-2000 (John P. Weyant and Dorothy Sheffield, eds.), 1984.

The Financial Impact of Potential Department of Energy Rate Recommendations on the Commonwealth Edison Company, prepared for the U.S. Department of Energy, October 1984.

"Discussion Comments," published in Impact of Deregulation and Market Forces on Public Utilities: The Future of Regulation (Harry Trebing, ed.), Institute of Public Utilities, Michigan State University, 1985.

An Econometric Forecast of the Electric Power Loads of Baltimore Gas and Electric Company, two volumes (with others), prepared for the Maryland Power Plant Siting Program, 1985.

A Survey and Evaluation of Demand Forecast Methods in the Gas Utility Industry, prepared for the Public Utilities Commission of Ohio, Forecasting Division, November 1985, (with Terence Manuel).

A Review and Evaluation of the Load Forecasts of Houston Lighting & Power Company and Central Power & Light Company -- Past and Present, prepared for the Texas Public Utility Commission, December 1985, (with Marvin H. Kahn).

Power Plant Cumulative Environmental Impact Report for Maryland, principal author of three of the eight chapters in the report (Paul E. Miller, ed.), PPSP-CEIR-5, March 1986.

"Potential Emissions Reduction from Conservation, Load Management, and Alternative Power," published in Acid Deposition in Maryland: A Report to the Governor and General Assembly, Maryland Power Plant Research Program, AD-87-1, January 1987.

Determination of Retrofit Costs at the Oyster Creek Nuclear Generating Station, March 1988, prepared for Versar, Inc., New Jersey Department of Environmental Protection.

Excess Deferred Taxes and the Telephone Utility Industry, April 1988, prepared on behalf of the National Association of State Utility Consumer Advocates.

Toward a Proposed Federal Policy for Independent Power Producers, comments prepared on behalf of the Indiana Consumer Counselor, FERC Docket EL87-67-000, November 1987.

Review and Discussion of Regulations Governing Bidding Programs, prepared for the Pennsylvania Office of Consumer Advocate, June 1988.

A Review of the Proposed Revisions to the FERC Administrative Rules on Avoided Costs and Related Issues, prepared for the Pennsylvania Office of Consumer Advocate, April 1988.

Review and Comments on the FERC NOPR Concerning Independent Power Producers, prepared for the Pennsylvania Office of Consumer Advocate, June 1988.

The Costs to Maryland Utilities and Ratepayers of an Acid Rain Control Strategy -- An Updated Analysis, prepared for the Maryland Power Plant Research Program, October 1987, AD-88-4.

"Comments," in New Regulatory and Management Strategies in a Changing Market Environment (Harry M. Trebing and Patrick C. Mann, editors), Proceedings of the Institute of Public Utilities Eighteenth Annual Conference, 1987.

Electric Power Resource Planning for the Potomac Electric Power Company, prepared for the Maryland Power Plant Research Program, July 1988.

Power Plant Cumulative Environmental Impact Report for Maryland (Thomas E. Magette, ed.) authored two chapters, November 1988, PPRP-CEIR-6.

Resource Planning and Competitive Bidding for Delmarva Power & Light Company, October 1990, prepared for the Maryland Department of Natural Resources (with M. Fullenbaum).

Electric Power Rate Increases and the Cleveland Area Economy, prepared for the Northeast Ohio Areawide Coordinating Agency, October 1988.

An Economic and Need for Power Evaluation of Baltimore Gas & Electric Company's Perryman Plant, May 1991, prepared for the Maryland Department of Natural Resources (with M. Fullenbaum).

The Cost of Equity Capital for the Bell Local Exchange Companies in a New Era of Regulation, October 1991, presented at the Atlantic Economic Society 32nd Conference, Washington, D.C.

A Need for Power Review of Delmarva Power & Light Company's Dorchester Unit 1 Power Plant, March 1993, prepared for the Maryland Department of National Resources (with M. Fullenbaum)

The AES Warrior Run Project: Impact on Western Maryland Economic Activity and Electric Rates, February 1993, prepared for the Maryland Power Plant Research Program (with Peter Hall).

An Economic Perspective on Competition and the Electric Utility Industry, November 1994. Prepared for the Electric Consumers' Alliance.

PEPCO's Clean Air Act Compliance Plan: Status Report, prepared for the Maryland Power Plant Research Plan, January 1995 (w/Diane Mountain, Environmental Resources Management, Inc.).

The FERC Open Access Rulemaking: A Review of the Issues, prepared for the Indiana Office of Utility Consumer Counselor and the Pennsylvania Office of Consumer Advocate, June 1995.

A Status Report on Electric Utility Restructuring: Issues for Maryland, prepared for the Maryland Power Plant Research Program, November 1995 (with Daphne Psacharopoulos).

Modeling the Financial Impacts on the Bell Regional Holding Companies from Changes in Access Rates, prepared for MCI Corporation, May 1996.

The CSEF Electric Deregulation Study: Economic Miracle or the Economists' Cold Fusion?, prepared for the Electric Consumers' Alliance, Indianapolis, Indiana, October 1996.

Reducing Rates for Interstate Access Service: Financial Impacts on the Bell Regional Holding Companies, prepared for MCI Corporation, May 1997.

The New Hampshire Retail Competition Pilot Program: A Preliminary Evaluation, July 1997, prepared for the Electric Consumers' Alliance (with Jerome D. Mierzwa).

Electric Restructuring and the Environment: Issue Identification for Maryland, March 1997, prepared for the Maryland Power Plant Research Program (with Environmental Resource Management, Inc.)

An Analysis of Electric Utility Embedded Power Supply Costs, prepared for Power-Gen International Conference, Dallas, Texas, December 1997.



Market Power Outlook for Generation Supply in Louisiana, December 2000, prepared for the Louisiana Public Service Commission (with others).

A Review of Issues Concerning Electric Power Capacity Markets, prepared for the Maryland Power Plant Research Program, December 2001 (with B. Hobbs and J. Inon).

The Economic Feasibility of Air Emissions Controls at the Brandon Shores and Morgantown Coal-fired Power Plants, February 2005, (prepared for the Chesapeake Bay Foundation).

The Economic Feasibility of Power Plant Retirements on the Entergy System, September 2005 with Phil Hayet (prepared for the Louisiana Public Service Commission).

Expert Report on Capital Structure, Equity and Debt Costs, prepared for the Edmonton Regional Water Customers Group, August 30, 2006.

Maryland's Options to Reduce and Stabilize Electric Power Prices Following Restructuring, with Steven L. Estomin, prepared for the Power Plant Research Program, Maryland Department of Natural Resources, September 2006.

Expert Report of Matthew I. Kahal, on behalf of the U. S. Department of Justice, August 2008, Civil Action No. IP-99-1693C-MIS.

#### **Conference and Workshop Presentations:**

Workshop on State Load Forecasting Programs, sponsored by the Nuclear Regulatory Commission and Oak Ridge National Laboratory, February 1982 (presentation on forecasting methodology).

Fourteenth Annual Conference of the Michigan State University Institute for Public Utilities, December 1982 (presentation on problems in forecasting).

Conference on Conservation and Load Management, sponsored by the Massachusetts Energy Facilities Siting Council, May 1983 (presentation on cost-benefit criteria).

Maryland Conference on Load Forecasting, sponsored by the Maryland Power Plant Siting Program and the Maryland Public Service Commission, June 1983 (presentation on overforecasting power demands).

The 5th Annual Meetings of the International Association of Energy Economists, June 1983 (presentation on evaluating weatherization programs).

The NARUC Advanced Regulatory Studies Program (presented lectures on capacity planning for electric utilities), February 1984.

The 16th Annual Conference of the Institute of Public Utilities, Michigan State University (discussant on phase-in and excess capacity), December 1984.

U.S. Department of Energy Utilities Conference, Las Vegas, Nevada (presentation of current and future regulatory issues), May 1985.

The 18th Annual Conference of the Institute of Public Utilities, Michigan State University, Williamsburg, Virginia, December 1986 (discussant on cogeneration).

The NRECA Conference on Load Forecasting, sponsored by the National Rural Electric Cooperative Association, New Orleans, Louisiana, December 1987 (presentation on load forecast accuracy).

The Second Rutgers/New Jersey Department of Commerce Annual Conference on Energy Policy in the Middle Atlantic States, Rutgers University, April 1988 (presentation on spot pricing of electricity).

The NASUCA 1988 Mid-Year Meeting, Annapolis, Maryland, June 1988, sponsored by the National Association of State Utility Consumer Advocates (presentation on the FERC electricity avoided cost NOPRs).

The Thirty Second Atlantic Economic Society Conference, Washington, D.C., October 1991 (presentation of a paper on cost of capital issues for the Bell Operating Companies).

The NASUCA 1993 Mid-Year Meeting, St. Louis, Missouri, sponsored by the National Association of State Utility Consumer Advocates, June 1993 (presentation on regulatory issues concerning electric utility mergers).

The NASUCA and NARUC annual meetings in New York City, November 1993 (presentations and panel discussions on the emerging FERC policies on transmission pricing).

The NASUCA annual meetings in Reno, Nevada, November 1994 (presentation concerning the FERC NOPR on stranded cost recovery).

U.S. Department of Energy Utilities/Energy Management Workshop, March 1995 (presentation concerning electric utility competition).

The 1995 NASUCA Mid-Year Meeting, Breckenridge, Colorado, June 1995, (presentation concerning the FERC rulemaking on electric transmission open access).

The 1996 NASUCA Mid-Year Meeting, Chicago, Illinois, June 1996 (presentation concerning electric utility merger issues).



Conference on "Restructuring the Electric Industry," sponsored by the National Consumers League and Electric Consumers Alliance, Washington, D.C., May 1997 (presentation on retail access pilot programs).

The 1997 Mid-Atlantic Conference of Regulatory Utilities Commissioners (MARUC), Hot Springs, Virginia, July 1997 (presentation concerning electric deregulation issues).

Power-Gen '97 International Conference, Dallas, Texas, December 1997 (presentation concerning utility embedded costs of generation supply).

Consumer Summit on Electric Competition, sponsored by the National Consumers League and Electric Consumers' Alliance, Washington, D.C., March 2001 (presentation concerning generation supply and reliability).

National Association of State Utility Consumer Advocates, Mid-Year Meetings, Austin, Texas, June 16-17, 2002 (presenter and panelist on RTO/Standard Market Design issues).

Louisiana State Bar Association, Public Utility Section, October 2, 2002. (Presentation on Performance-Based Ratemaking and panelist on RTO issues). Baton Rouge, Louisiana.

Virginia State Corporation Commission/Virginia State Bar, Twenty Second National Regulatory Conference, May 10, 2004. (Presentation on Electric Transmission System Planning.) Williamsburg, Virginia.

Expert Testimony  
of Matthew I. Kahal

<u>Docket Number</u>	<u>Utility</u>	<u>Jurisdiction</u>	<u>Client</u>	<u>Subject</u>
1. 27374 & 27375 October 1978	Long Island Lighting Company	New York Counties	Nassau & Suffolk	Economic Impacts of Proposed Rate Increase
2. 6807 January 1978	Generic	Maryland	MD Power Plant Siting Program	Load Forecasting
3. 78-676-EL-AIR February 1978	Ohio Power Company	Ohio	Ohio Consumers' Counsel	Test Year Sales and Revenues
4. 17667 May 1979	Alabama Power Company	Alabama	Attorney General	Test Year Sales, Revenues, Costs and Load Forecasts
5. None April 1980	Tennessee Valley Authority	TVA Board	League of Women Voters	Time-of-Use Pricing
6. R-80021082	West Penn Power Company	Pennsylvania	Office of Consumer Advocate	Load Forecasting, Marginal Cost pricing
7. 7259 (Phase I) October 1980	Potomac Edison Company	Maryland	MD Power Plant Siting Program	Load Forecasting
8. 7222 December 1980	Delmarva Power & Light Company	Maryland	MD Power Plant Siting Program	Need for Plant, Load Forecasting
9. 7441 June 1981	Potomac Electric Power Company	Maryland	Commission Staff	PURPA Standards
10. 7159 May 1980	Baltimore Gas & Electric	Maryland	Commission Staff	Time-of-Use Pricing
11. 81-044-E-42T	Monongahela Power	West Virginia	Commission Staff	Time-of-Use Rates
12. 7259 (Phase II) November 1981	Potomac Edison Company	Maryland	MD Power Plant Siting Program	Load Forecasting, Load Management
13. 1606 September 1981	Blackstone Valley Electric and Narragansett	Rhode Island	Division of Public Utilities	PURPA Standards
14. RID 1819 April 1982	Pennsylvania Bell	Pennsylvania	Office of Consumer Advocate	Rate of Return
15. 82-0152 July 1982	Illinois Power Company	Illinois	U.S. Department of Defense	Rate of Return, CWIP

Expert Testimony  
of Matthew I. Kahal

<u>Docket Number</u>	<u>Utility</u>	<u>Jurisdiction</u>	<u>Client</u>	<u>Subject</u>
16. 7559 September 1982	Potomac Edison Company	Maryland	Commission Staff	Cogeneration
17. 820150-EU September 1982	Gulf Power Company	Florida	Federal Executive Agencies	Rate of Return, CWP
18. 82-057-15 January 1983	Mountain Fuel Supply Company	Utah	Federal Executive Agencies	Rate of Return, Capital Structure
19. 5200 August 1983	Texas Electric Service Company	Texas	Federal Executive Agencies	Cost of Equity
20. 28069 August 1983	Oklahoma Natural Gas	Oklahoma	Federal Executive Agencies	Rate of Return, deferred taxes, capital structure, attrition
21. 83-0537 February 1984	Commonwealth Edison Company	Illinois	U.S. Department of Energy	Rate of Return, capital structure, financial capability
22. 84-035-01 June 1984	Utah Power & Light Company	Utah	Federal Executive Agencies	Rate of Return
23. U-1009-137 July 1984	Utah Power & Light Company	Idaho	U.S. Department of Energy	Rate of Return, financial condition
24. R-842590 August 1984	Philadelphia Electric Company	Pennsylvania	Office of Consumer Advocate	Rate of Return
25. 840086-EI August 1984	Gulf Power Company	Florida	Federal Executive Agencies	Rate of Return, CWP
26. 84-122-E August 1984	Carolina Power & Light Company	South Carolina	South Carolina Consumer Advocate	Rate of Return, CWP, load forecasting
27. CGC-83-G & CGC-84-G October 1984	Columbia Gas of Ohio	Ohio	Ohio Division of Energy	Load forecasting
28. R-842621 October 1984	Western Pennsylvania Water Company	Pennsylvania	Office of Consumer Advocate	Test year sales
29. R-842710 January 1985	ALLTEL Pennsylvania Inc.	Pennsylvania	Office of Consumer Advocate	Rate of Return
30. ER-504 February 1985	Allegheny Generating Company	FERC	Office of Consumer Advocate	Rate of Return

Expert Testimony  
of Matthew I. Kahal

<u>Docket Number</u>	<u>Utility</u>	<u>Jurisdiction</u>	<u>Client</u>	<u>Subject</u>
31. R-842632 March 1985	West Penn Power Company	Pennsylvania	Office of Consumer Advocate	Rate of Return, conservation, time-of-use rates
32. 83-0537 & 84-0555 April 1985	Commonwealth Edison Company	Illinois	U.S. Department of Energy	Rate of Return, incentive rates, rate base
33. Rulemaking Docket No. 11, May 1985	Generic	Delaware	Delaware Commission Staff	Interest rates on refunds
34. 29450 July 1985	Oklahoma Gas & Electric Company	Oklahoma	Oklahoma Attorney General	Rate of Return, CWIP in rate base
35. 1811 August 1985	Bristol County Water Company	Rhode Island	Division of Public Utilities	Rate of Return, capital Structure
36. R-850044 & R-850045 August 1985	Quaker State & Continental Telephone Companies	Pennsylvania	Office of Consumer Advocate	Rate of Return
37. R-850174 November 1985	Philadelphia Suburban Water Company	Pennsylvania	Office of Consumer Advocate	Rate of Return, financial conditions
38. U-1006-265 March 1986	Idaho Power Company	Idaho	U.S. Department of Energy	Power supply costs and models
39. EL-86-37 & EL-86-38 September 1986	Allegheny Generating Company	FERC	PA Office of Consumer Advocate	Rate of Return
40. R-850287 June 1986	National Fuel Gas Distribution Corp.	Pennsylvania	Office of Consumer Advocate	Rate of Return
41. 1849 August 1986	Blackstone Valley Electric	Rhode Island	Division of Public Utilities	Rate of Return, financial condition
42. 86-297-GA-AIR November 1986	East Ohio Gas Company	Ohio	Ohio Consumers' Counsel	Rate of Return
43. U-16945 December 1986	Louisiana Power & Light Company	Louisiana	Public Service Commission	Rate of Return, rate phase-in plan
44. Case No. 7972 February 1987	Potomac Electric Power Company	Maryland	Commission Staff	Generation capacity planning, purchased power contract
45. EL-86-58 & EL-86-59 March 1987	System Energy Resources and Middle South Services	FERC	Louisiana PSC	Rate of Return

Expert Testimony  
of Matthew I. Kahal

<u>Docket Number</u>	<u>Utility</u>	<u>Jurisdiction</u>	<u>Client</u>	<u>Subject</u>
46. ER-87-72-001 April 1987	Orange & Rockland	FERC	PA Office of Consumer Advocate	Rate of Return
47. U-16945 April 1987	Louisiana Power & Light Company	Louisiana	Commission Staff	Revenue requirement update phase-in plan
48. P-870196 May 1987	Pennsylvania Electric Company	Pennsylvania	Office of Consumer Advocate	Cogeneration contract
49. 86-2025-EL-AIR June 1987	Cleveland Electric Illuminating Company	Ohio	Ohio Consumers' Counsel	Rate of Return
50. 86-2026-EL-AIR June 1987	Toledo Edison Company	Ohio	Ohio Consumers' Counsel	Rate of Return
51. 87-4 June 1987	Delmarva Power & Light Company	Delaware	Commission Staff	Cogeneration/small power
52. 1872 July 1987	Newport Electric Company	Rhode Island	Commission Staff	Rate of Return
53. WO 8606654 July 1987	Atlantic City Sewerage Company	New Jersey	Resorts International	Financial condition
54. 7510 August 1987	West Texas Utilities Company	Texas	Federal Executive Agencies	Rate of Return, phase-in
55. 8063 Phase I October 1987	Potomac Electric Power Company	Maryland	Power Plant Research Program	Economics of power plant site selection
56. 00439 November 1987	Oklahoma Gas & Electric Company	Oklahoma	Smith Cogeneration	Cogeneration economics
57. RP-87-103 February 1988	Panhandle Eastern Pipe Line Company	FERC	Indiana Utility Consumer Counselor	Rate of Return
58. EC-88-2-000 February 1988	Utah Power & Light Co. PacifiCorp	FERC	Nucor Steel	Merger economics
59. 87-0427 February 1988	Commonwealth Edison Company	Illinois	Federal Executive Agencies	Financial projections
60. 870840 February 1988	Philadelphia Suburban Water Company	Pennsylvania	Office of Consumer Advocate	Rate of Return

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61. 870832 March 1988	Columbia Gas of Pennsylvania	Pennsylvania	Office of Consumer Advocate	Rate of Return
62. 8063 Phase II July 1988	Potomac Electric Power Company	Maryland	Power Plant Research Program	Power supply study
63. 8102 July 1988	Southern Maryland Electric Cooperative	Maryland	Power Plant Research Program	Power supply study
64. 10105 August 1988	South Central Bell Telephone Co.	Kentucky	Attorney General	Rate of Return, incentive regulation
65. 00345 August 1988	Oklahoma Gas & Electric Company	Oklahoma	Smith Cogeneration	Need for power
66. U-17906 September 1988	Louisiana Power & Light Company	Louisiana	Commission Staff	Rate of Return, nuclear power costs Industrial contracts
67. 88-170-EL-AIR October 1988	Cleveland Electric Illuminating Co.	Ohio	Northeast-Ohio Area-wide Coordinating Agency	Economic impact study
68. 1914 December 1988	Providence Gas Company	Rhode Island	Commission Staff	Rate of Return
69. U-12636 & U-17649 February 1989	Louisiana Power & Light Company	Louisiana	Commission Staff	Disposition of litigation proceeds
70. 00345 February 1989	Oklahoma Gas & Electric Company	Oklahoma	Smith Cogeneration	Load forecasting
71. RP88-209 March 1989	Natural Gas Pipeline of America	FERC	Indiana Utility Consumer Counselor	Rate of Return
72. 8425 March 1989	Houston Lighting & Power Company	Texas	U.S. Department of Energy	Rate of Return
73. EL89-30-000 April 1989	Central Illinois Public Service Company	FERC	Soyland Power Coop, Inc.	Rate of Return
74. R-891208 May 1989	Pennsylvania American Water Company	Pennsylvania	Office of Consumer Advocate	Rate of Return

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75. 89-0033 May 1989	Illinois Bell Telephone Company	Illinois	Citizens Utility Board	Rate of Return
76. 881167-EI May 1989	Gulf Power Company	Florida	Federal Executive Agencies	Rate of Return
77. R-891218 July 1989	National Fuel Gas Distribution Company	Pennsylvania	Office of Consumer Advocate	Sales forecasting
78. 8063, Phase III Sept. 1989	Potomac Electric Power Company	Maryland	Depart. Natural Resources	Emissions Controls
79. 37414-S2 October 1989	Public Service Company of Indiana	Indiana	Utility Consumer Counselor	Rate of Return, DSM, off-system sales, incentive regulation
80. October 1989	Generic	U.S. House of Reps. Comm. on Ways & Means	NA	Excess deferred income tax
81. 38728 November 1989	Indiana Michigan Power Company	Indiana	Utility Consumer Counselor	Rate of Return
82. RP89-49-000 December 1989	National Fuel Gas Supply Corporation	FERC	PA Office of Consumer Advocate	Rate of Return
83. R-891364 December 1989	Philadelphia Electric Company	Pennsylvania	PA Office of Consumer Advocate	Financial impacts (surrebuttal only)
84. RP89-160-000 January 1990	Trunkline Gas Company	FERC	Indiana Utility Consumer Counselor	Rate of Return
85. EL90-16-000 November 1990	System Energy Resources, Inc.	FERC	Louisiana Public Service Commission	Rate of Return
86. 89-624 March 1990	Bell Atlantic	FCC	PA Office of Consumer Advocate	Rate of Return
87. 8245 March 1990	Potomac Edison Company	Maryland	Depart. Natural Resources	Avoided Cost
88. 000586 March 1990	Public Service Company of Oklahoma	Oklahoma	Smith Cogeneration Mgmt.	Need for Power

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89. 38868 March 1990	Indianapolis Water Company	Indiana	Utility Consumer Counselor	Rate of Return
90. 1946 March 1990	Blackstone Valley Electric Company	Rhode Island	Division of Public Utilities	Rate of Return
91. 000776 April 1990	Oklahoma Gas & Electric Company	Oklahoma	Smith Cogeneration Mgmt.	Need for Power
92. 890366 May 1990, December 1990	Metropolitan Edison Company	Pennsylvania	Office of Consumer Advocate	Competitive Bidding Program Avoided Costs
93. EC-90-10-000 May 1990	Northeast Utilities	FERC	Maine PUC, et. al	Merger, Market Power, Transmission Access
94. ER-891109125 July 1990	Jersey Central Power & Light	New Jersey	Rate Counsel	Rate of Return
95. R-901670 July 1990	National Fuel Gas Distribution Corp.	Pennsylvania	Office of Consumer Advocate	Rate of Return Test year sales
96. 8201 October 1990	Deltmarva Power & Light Company	Maryland	Depart. Natural Resources	Competitive Bidding, Resource Planning
97. EL90-45-000 April 1991	Entergy Services, Inc.	FERC	Louisiana PSC	Rate of Return
98. GR90080786J January 1991	New Jersey Natural Gas	New Jersey	Rate Counsel	Rate of Return
99. 90-256 January 1991	South Central Bell Telephone Company	Kentucky	Attorney General	Rate of Return
100. U-17949A February 1991	South Central Bell Telephone Company	Louisiana	Louisiana PSC	Rate of Return
101. ER90091090J April 1991	Atlantic City Electric Company	New Jersey	Rate Counsel	Rate of Return
102. 8241, Phase I April 1991	Baltimore Gas & Electric Company	Maryland	Dept. of Natural Resources	Environmental controls



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103. 8241, Phase II May 1991	Baltimore Gas & Electric Company	Maryland	Dept. of Natural Resources	Need for Power, Resource Planning
104. 39128 May 1991	Indianapolis Water Company	Indiana	Utility Consumer Counselor	Rate of Return, rate base, financial planning
105. P-900485 May 1991	Duquesne Light Company	Pennsylvania	Office of Consumer Advocate	Purchased power contract and related ratemaking
106. G900240 P910502 May 1991	Metropolitan Edison Company Pennsylvania Electric Company	Pennsylvania	Office of Consumer Advocate	Purchased power contract and related ratemaking
107. GR901213915 May 1991	Elizabethtown Gas Company	New Jersey	Rate Counsel	Rate of Return
108. 91-5032 August 1991	Nevada Power Company	Nevada	U.S. Dept. of Energy	Rate of Return
109. EL90-48-000 November 1991	Entergy Services	FERC	Louisiana PSC	Capacity transfer
110. 000662 September 1991	Southwestern Bell Telephone	Oklahoma	Attorney General	Rate of Return
111. U-19236 October 1991	Arkansas Louisiana Gas Company	Louisiana	Louisiana PSC Staff	Rate of Return
112. U-19237 December 1991	Louisiana Gas Service Company	Louisiana	Louisiana PSC Staff	Rate of Return
113. ER91030356J October 1991	Rockland Electric Company	New Jersey	Rate Counsel	Rate of Return
114. GR91071243J February 1992	South Jersey Gas Company	New Jersey	Rate Counsel	Rate of Return
115. GR91081393J March 1992	New Jersey Natural Gas Company	New Jersey	Rate Counsel	Rate of Return
116. P-870235 et al. March 1992	Pennsylvania Electric Company	Pennsylvania	Office of Consumer Advocate	Cogeneration contracts

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117. 8413 March 1992	Potomac Electric Power Company	Maryland	Dept. of Natural Resources	IPP purchased power contracts
118. 39236 March 1992	Indianapolis Power & Light Company	Indiana	Utility Consumer Counselor	Least-cost planning Need for power
119. R-912164 April 1992	Equitable Gas Company	Pennsylvania	Office of Consumer Advocate	Rate of Return
120. ER-91111698J May 1992	Public Service Electric & Gas Company	New Jersey	Rate Counsel	Rate of Return
121. U-19631 June 1992	Trans Louisiana Gas Company	Louisiana	PSC Staff	Rate of Return
122. ER-91121820J July 1992	Jersey Central Power & Light Company	New Jersey	Rate Counsel	Rate of Return
123. R-00922314 August 1992	Metropolitan Edison Company	Pennsylvania	Office of Consumer Advocate	Rate of Return
124. 92-049-05 September 1992	US West Communications	Utah	Committee of Consumer Services	Rate of Return
125. 92PUE0037 September 1992	Commonwealth Gas Company	Virginia	Attorney General	Rate of Return
126. EC92-21-000 September 1992	Entergy Services, Inc.	FERC	Louisiana PSC	Merger Impacts (Affidavit)
127. ER92-341-000 December 1992	System Energy Resources	FERC	Louisiana PSC	Rate of Return
128. U-19904 November 1992	Louisiana Power & Light Company	Louisiana	Staff	Merger analysis, competition competition issues
129. 8473 November 1992	Baltimore Gas & Electric Company	Maryland	Dept. of Natural Resources	QF contract evaluation
130. IPC-E-92-25 January 1993	Idaho Power Company	Idaho	Federal Executive Agencies	Power Supply Clause

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131. E002/GR-92-1185 February 1993	Northern States Power Company	Minnesota	Attorney General	Rate of Return
132. 92-102, Phase II March 1992	Central Maine Power Company	Maine	Staff	QF contracts prudence and procurements practices
133. EC92-21-000 March 1993	Entergy Corporation	FERC	Louisiana PSC	Merger Issues
134. 8489 March 1993	Delmarva Power & Light Company	Maryland	Dept. of Natural Resources	Power Plant Certification
135. 11735 April 1993	Texas Electric Utilities Company	Texas	Federal Executives Agencies	Rate of Return
136. 2082 May 1993	Providence Gas Company	Rhode Island	Division of Public Utilities	Rate of Return
137. P-00930715 December 1993	Bell Telephone Company of Pennsylvania	Pennsylvania	Office of Consumer Advocate	Rate of Return, Financial Projections, Bell/TCI merger
138. R-00932670 February 1994	Pennsylvania-American Water Company	Pennsylvania	Office of Consumer Advocate	Rate of Return
139. 8583 February 1994	Conowingo Power Company	Maryland	Dept. of Natural Resources	Competitive Bidding for Power Supplies
140. E-015/GR-94-001 April 1994	Minnesota Power & Light Company	Minnesota	Attorney General	Rate of Return
141. CC Docket No. 94-1 May 1994	Generic Telephone	FCC	MCI Comm. Corp.	Rate of Return
142. 92-345, Phase II June 1994	Central Maine Power Company	Maine	Advocacy Staff	Price Cap Regulation Fuel Costs
143. 93-11065 April 1994	Nevada Power Company	Nevada	Federal Executive Agencies	Rate of Return
144. 94-0065 May 1994	Commonwealth Edison Company	Illinois	Federal Executive Agencies	Rate of Return
145. GR94010002J June 1994	South Jersey Gas Company	New Jersey	Rate Counsel	Rate of Return

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146. WR94030059 July 1994	New Jersey-American Water Company	New Jersey	Rate Counsel	Rate of Return
147. RP91-203-000 June 1994	Tennessee Gas Pipeline Company	FERC	Customer Group	Environmental Externalities (oral testimony only)
148. ER94-998-000 July 1994	Ocean State Power	FERC	Boston Edison Company	Rate of Return
149. R-00942986 July 1994	West Penn Power Company	Pennsylvania	Office of Consumer Advocate	Rate of Return, Emission Allowances
150. 94-121 August 1994	South Central Bell Telephone Company	Kentucky	Attorney General	Rate of Return
151. 35854-S2 November 1994	PSI Energy, Inc.	Indiana	Utility Consumer Counsel	Merger Savings and Allocations
152. IPC-E-94-5 November 1994	Idaho Power Company	Idaho	Federal Executive Agencies	Rate of Return
153. November 1994	Edmonton Water	Alberta, Canada	Regional Customer Group	Rate of Return (Rebuttal Only)
154. 90-256 December 1994	South Central Bell Telephone Company	Kentucky	Attorney General	Incentive Plan True-Ups
155. U-20925 February 1995	Louisiana Power & Light Company	Louisiana	PSC Staff	Rate of Return Industrial Contracts Trust Fund Earnings
156. R-00943231 February 1995	Pennsylvania-American Water Company	Pennsylvania	Consumer Advocate	Rate of Return
157. 8678 March 1995	Generic	Maryland	Dept. Natural Resources	Electric Competition Incentive Regulation (oral only)
158. R-000943271 April 1995	Pennsylvania Power & Light Company	Pennsylvania	Consumer Advocate	Rate of Return Nuclear decommissioning Capacity Issues
159. U-20925 May 1995	Louisiana Power & Light Company	Louisiana	Commission Staff	Class Cost of Service Issues

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160. 2290 June 1995	Narragansett Electric Company	Rhode Island	Division Staff	Rate of Return
161. U-17949E June 1995	South Central Bell Telephone Company	Louisiana	Commission Staff	Rate of Return
162. 2304 July 1995	Providence Water Supply Board	Rhode Island	Division Staff	Cost recovery of Capital Spending Program
163. ER95-625-000 et al. August 1995	PSI Energy, Inc.	FERC	Office of Utility Consumer Counselor	Rate of Return
164. P-00950915 et al. September 1995	Paxton Creek Cogeneration Assoc.	Pennsylvania	Office of Consumer Advocate	Cogeneration Contract Amendment
165. 8702 September 1995	Potomac Edison Company	Maryland	Dept. of Natural Resources	Allocation of DSM Costs (oral only)
166. ER95-533-001 September 1995	Ocean State Power	FERC	Boston Edison Co.	Cost of Equity
167. 40003 November 1995	PSI Energy, Inc.	Indiana	Utility Consumer Counselor	Rate of Return Retail wheeling
168. P-55, SUB 1013 January 1996	BellSouth	North Carolina	AT&T	Rate of Return
169. P-7, SUB 825 January 1996	Carolina Tel.	North Carolina	AT&T	Rate of Return
170. February 1996	Generic Telephone	FCC	MCI	Cost of capital
171. 95A-531EG April 1996	Public Service Company of Colorado	Colorado	Federal Executive Agencies	Merger issues
172. ER96-399-000 May 1996	Northern Indiana Public Service Company	FERC	Indiana Office of Utility Consumer Counselor	Cost of capital
173. 8716 June 1996	Delmarva Power & Light Company	Maryland	Dept. of Natural Resources	DSM programs
174. 8725 July 1996	BGE/PEPCO	Maryland	Md. Energy Admin.	Merger Issues

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175. U-20925 August 1996	Entergy Louisiana, Inc.	Louisiana	PSC Staff	Rate of Return Allocations Fuel Clause
176. EC96-10-000 September 1996	BGE/PEPCO	FERC	Md. Energy Admin.	Merger issues competition
177. EL95-53-000 November 1996	Entergy Services, Inc.	FERC	Louisiana PSC	Nuclear Decommissioning
178. WR96100768 March 1997	Consumers NJ Water Company	New Jersey	Ratepayer Advocate	Cost of Capital
179. WR96110818 April 1997	Middlesex Water Co.	New Jersey	Ratepayer Advocate	Cost of Capital
180. U-11366 April 1997	Ameritech Michigan	Michigan	MCI	Access charge reform/financial condition
181. 97-074 May 1997	BellSouth	Kentucky	MCI	Rate Rebalancing financial condition
182. 2540 June 1997	New England Power	Rhode Island	PUC Staff	Divestiture Plan
183. 96-336-TP-CSS June 1997	Ameritech Ohio	Ohio	MCI	Access Charge reform Economic impacts
184. WR97010052 July 1997	Maxim Sewerage Corp.	New Jersey	Ratepayer Advocate	Rate of Return
185. 97-300 August 1997	LG&E/KU	Kentucky	Attorney General	Merger Plan
186. Case No. 8738 August 1997	Generic (oral testimony only)	Maryland	Dept. of Natural Resources	Electric Restructuring Policy
187. Docket No. 2592 September 1997	Eastern Utilities	Rhode Island	PUC Staff	Generation Divestiture
188. Case No. 97-247 September 1997	Cincinnati Bell Telephone	Kentucky	MCI	Financial Condition

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189.	Docket No. U-20925 November 1997	Entergy Louisiana	Louisiana	PSC Staff	Rate of Return
190.	Docket No. D97.7.90 November 1997	Montana Power Co.	Montana	Montana Consumers Counsel	Stranded Cost
191.	Docket No. E097070459 November 1997	Jersey Central Power & Light Co.	New Jersey	Ratepayer Advocate	Stranded Cost
192.	Docket No. R-00974104 November 1997	Duquesne Light Co.	Pennsylvania	Office of Consumer Advocate	Stranded Cost
193.	Docket No. R-00973981 November 1997	West Penn Power Co.	Pennsylvania	Office of Consumer Advocate	Stranded Cost
194.	Docket No. A-1101150F0015 November 1997	Allegheny Power System DQE, Inc.	Pennsylvania	Office of Consumer Advocate	Merger Issues
195.	Docket No. WR97080615 January 1998	Consumers NJ Water Company	New Jersey	Ratepayer Advocate	Rate of Return
196.	Docket No. R-00974149 January 1998	Pennsylvania Power Company	Pennsylvania	Office of Consumer Advocate	Stranded Cost
197.	Case No. 8774 January 1998	Allegheny Power System DQE, Inc.	Maryland	Dept. of Natural Resources MD Energy Administration	Merger Issues
198.	Docket No. U-20925 (SC) March 1998	Entergy Louisiana, Inc.	Louisiana	Commission Staff	Restructuring, Stranded Costs, Market Prices
199.	Docket No. U-22092 (SC) March 1998	Entergy Gulf States, Inc.	Louisiana	Commission Staff	Restructuring, Stranded Costs, Market Prices
200.	Docket Nos. U-22092 (SC) and U-20925(SC) May 1998	Entergy Gulf States and Entergy Louisiana	Louisiana	Commission Staff	Standby Rates
201.	Docket No. WR98010015 May 1998	NJ American Water Co.	New Jersey	Ratepayer Advocate	Rate of Return
202.	Case No. 8794 December 1998	Baltimore Gas & Electric Co.	Maryland	MD Energy Admin./Dept. Of Natural Resources	Stranded Cost/ Transition Plan

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203. Case No. 8795 December 1998	Delmarva Power & Light Co.	Maryland	MD Energy Admin./Dept. Of Natural Resources	Stranded Cost/ Transition Plan
204. Case No. 8797 January 1998	Potomac Edison Co.	Maryland	MD Energy Admin./Dept. Of Natural Resources	Stranded Cost/ Transition Plan
205. Docket No. WR98090795 March 1999	Middlesex Water Co.	New Jersey	Ratepayer Advocate	Rate of Return
206. Docket No. 99-02-05 April 1999	Connecticut Light & Power	Connecticut	Attorney General	Stranded Costs
207. Docket No. 99-03-04 May 1999	United Illuminating Company	Connecticut	Attorney General	Stranded Costs
208. Docket No. U-20925 (FRP) June 1999	Entergy Louisiana, Inc.	Louisiana	Staff	Capital Structure
209. Docket No. EC-98-40-000, et al. May 1999	American Electric Power/ Central & Southwest	FERC	Arkansas PSC	Market Power Mitigation
210. Docket No. 99-03-35 July 1999	United Illuminating Company	Connecticut	Attorney General	Restructuring
211. Docket No. 99-03-36 July 1999	Connecticut Light & Power Co.	Connecticut	Attorney General	Restructuring
212. WR99040249 Oct. 1999	Environmental Disposal Corp.	New Jersey	Ratepayer Advocate	Rate of Return
213. 2930 Nov. 1999	NEES/EUA	Rhode Island	Division Staff	Merger/Cost of Capital
214. DE99-099 Nov. 1999	Public Service New Hampshire	New Hampshire	Consumer Advocate	Cost of Capital Issues
215. 00-01-11 Feb. 2000	Con Ed/NU	Connecticut	Attorney General	Merger Issues
216. Case No. 8821 May 2000	Reliant/ODEC	Maryland	Dept. of Natural Resources	Need for Power/Plant Operations



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217. Case No. 8738 July 2000	Generic	Maryland	Dept. of Natural Resources	DSM Funding
218. Case No. U-23356 June 2000	Entergy Louisiana, Inc.	Louisiana	PSC Staff	Fuel Prudence Issues Purchased Power
219. Case No. 21453, et al July 2000	SWEPSCO	Louisiana	PSC Staff	Stranded Costs
220. Case No. 20925 (B) July 2000	Entergy Louisiana	Louisiana	PSC Staff	Purchase Power Contracts
221. Case No. 24889 August 2000	Entergy Louisiana	Louisiana	PSC Staff	Purchase Power Contracts
222. Case No. 21453, et al February 2001	CLECO	Louisiana	PSC Staff	Stranded Costs
223. P-00001860 and P-0000181 March 2001	GPU Companies	Pennsylvania	Office of Consumer Advocate	Rate of Return
224. CVOL-0505662-S March 2001	ConEd/NU	Connecticut Superior Court	Attorney General	Merger (Affidavit)
225. U-20925 (SC) March 2001	Entergy Louisiana	Louisiana	PSC Staff	Stranded Costs
226. U-22092 (SC) March 2001	Entergy Gulf States	Louisiana	PSC Staff	Stranded Costs
227. U-25533 May 2001	Entergy Louisiana/ Gulf States	Louisiana Interruptible Service	PSC Staff	Purchase Power
228. P-00011872 May 2001	Pike County Pike	Pennsylvania	Office of Consumer Advocate	Rate of Return
229. 8893 July 2001	Baltimore Gas & Electric Co.	Maryland	MD Energy Administration	Corporate Restructuring
230. 8890 September 2001	Potomac Electric/Connectivity	Maryland	MD Energy Administration	Merger Issues

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231. U-25533 August 2001	Entergy Louisiana / Gulf States	Louisiana	Staff	Purchase Power Contracts
232. U-25965 November 2001	Generic	Louisiana	Staff	RTO Issues
233. 3401 March 2002	New England Gas Co.	Rhode Island	Division of Public Utilities	Rate of Return
234. 99-833-MJR April 2002	Illinois Power Co.	U.S. District Court	U.S. Department of Justice	New Source Review
235. U-25533 March 2002	Entergy Louisiana/ Gulf States	Louisiana	PSC Staff	Nuclear Upgrades Purchase Power
236. P-00011872 May 2002	Pike County Power & Light	Pennsylvania	Consumer Advocate	POLR Service Costs
237. U-26361, Phase I May 2002	Entergy Louisiana/ Gulf States	Louisiana	PSC Staff	Purchase Power Cost Allocations
238. R-00016849C001 et al. June 2002	Generic	Pennsylvania	Pennsylvania OCA	Rate of Return
239. U-26361, Phase II July 2002	Entergy Louisiana/ Entergy Gulf States	Louisiana	PSC Staff	Purchase Power Contracts
240. U-20925(B) August 2002	Entergy Louisiana	Louisiana	PSC Staff	Tax Issues
241. U-26531 October 2002	SWEPKO	Louisiana	PSC Staff	Purchase Power Contract
242. 8936 October 2002	Delmarva Power & Light	Maryland	Energy Administration Dept. Natural Resources	Standard Offer Service
243. U-25965 November 2002	SWEPKO/AEP	Louisiana	PSC Staff	RTO Cost/Benefit
244. 8908 Phase I November 2002	Generic	Maryland	Energy Administration Dept. Natural Resources	Standard Offer Service
245. 02S-315EG November 2002	Public Service Company of Colorado	Colorado	Fed. Executive Agencies	Rate of Return

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246. EL02-111-000 December 2002	PJM/MISO	FERC	MD PSC	Transmission Ratemaking
247. 02-0479 February 2003	Commonwealth Edison	Illinois	Dept. of Energy	POLR Service
248. PL03-1-000 March 2003	Generic	FERC	NASUCA	Transmission Pricing (Affidavit)
249. U-27136 April 2003	Entergy Louisiana	Louisiana	Staff	Purchase Power Contracts
250. 8908 Phase II July 2003	Generic	Maryland	Energy Administration Dept. of Natural Resources	Standard Offer Service
251. U-27192 June 2003	Entergy Louisiana and Gulf States	Louisiana	LPSC Staff	Purchase Power Contract Cost Recovery
252. C2-99-1181 October 2003	Ohio Edison Company	U.S. District Court	U.S. Department of Justice, et al.	Clean Air Act Compliance Economic Impact (Report)
253. RP03-398-000 December 2003	Northern Natural Gas Co.	FERC	Municipal Distributors Group/Gas Task Force	Rate of Return
254. 8738 December 2003	Generic	Maryland	Energy Admin Department of Natural Resources	Environmental Disclosure (oral only)
255. U-27136 December 2003	Entergy Louisiana, Inc.	Louisiana	PSC Staff	Purchase Power Contracts
256. U-27192, Phase II October/December 2003	Entergy Louisiana & Entergy Gulf States	Louisiana	PSC Staff	Purchase Power Contracts
257. WC Docket 03-173 December 2003	Generic	FCC	MCI	Cost of Capital (TELRIC)
258. ER 030 20110 January 2004	Atlantic City Electric	New Jersey	Ratepayer Advocate	Rate of Return
259. E-01345A-03-0437 January 2004	Arizona Public Service Company	Arizona	Federal Executive Agencies	Rate of Return
260. 03-10001 January 2004	Nevada Power Company	Nevada	U.S. Dept. of Energy	Rate of Return

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261. R-00049255 June 2004	PPL Elec. Utility	Pennsylvania	Office of Consumer Advocate	Rate of Return
262. U-20925 July 2004	Entergy Louisiana, Inc.	Louisiana	PSC Staff	Rate of Return Capacity Resources
263. U-27866 September 2004	Southwest Electric Power Co.	Louisiana	PSC Staff	Purchase Power Contract
264. U-27980 September 2004	Cleco Power	Louisiana	PSC Staff	Purchase Power Contract
265. U-27865 October 2004	Entergy Louisiana, Inc. Entergy Gulf States	Louisiana	PSC Staff	Purchase Power Contract
266. RP04-155 December 2004	Northern Natural Gas Company	FERC	Municipal Distributors Group/Gas Task Force	Rate of Return
267. U-27836 January 2005	Entergy Louisiana/ Gulf States	Louisiana	PSC Staff	Power plant Purchase and Cost Recovery
268. U-199040 et al. February 2005	Entergy Gulf States/ Louisiana	Louisiana	PSC Staff	Global Settlement, Multiple rate proceedings
269. EF03070532 March 2005	Public Service Electric & Gas	New Jersey	Ratepayers Advocate	Securitization of Deferred Costs
270. 05-0159 June 2005	Commonwealth Edison	Illinois	Department of Energy	POLR Service
271. U-28804 June 2005	Entergy Louisiana	Louisiana	LPSC Staff	QF Contract
272. U-28805 June 2005	Entergy Gulf States	Louisiana	LPSC Staff	QF Contract
273. 05-0045-EI June 2005	Florida Power & Lt.	Florida	Federal Executive Agencies	Rate of Return
274. 9037 July 2005	Generic	Maryland	MD. Energy Administration	POLR Service
275. U-28155 August 2005	Entergy Louisiana Entergy Gulf States	Louisiana	LPSC Staff	Independent Coordinator of Transmission Plan

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276. U-27866-A September 2005	Southwestern Electric Power Company	Louisiana	LPSC Staff	Purchase Power Contract
277. U-28765 October 2005	Cleco Power LLC	Louisiana	LPSC Staff	Purchase Power Contract
278. U-27469 October 2005	Entergy Louisiana Entergy Gulf States	Louisiana	LPSC Staff	Avoided Cost Methodology
279. A-313200F007 October 2005	Sprint (United of PA)	Pennsylvania	Office of Consumer Advocate	Corporate Restructuring
280. EM05020106 November 2005	Public Service Electric & Gas Company	New Jersey	Ratepayer Advocate	Merger Issues
281. U-28765 December 2005	Cleco Power LLC	Louisiana	LPSC Staff	Plant Certification, Financing, Rate Plan
282. U-29157 February 2006	Cleco Power LLC	Louisiana	LPSC Staff	Storm Damage Financing
283. U-29204 March 2006	Entergy Louisiana Entergy Gulf States	Louisiana	LPSC Staff	Purchase power contracts
284. A-310325F006 March 2006	Alltel	Pennsylvania	Office of Consumer Advocate	Merger, Corporate Restructuring
285. 9056 March 2006	Generic	Maryland	Maryland Energy Administration	Standard Offer Service Structure
286. C2-99-1182 April 2006	American Electric Power Utilities	U. S. District Court Southern District, Ohio	U. S. Department of Justice	New Source Review Enforcement (expert report)
287. EM05121058 April 2006	Atlantic City Electric	New Jersey	Ratepayer Advocate	Power plant Sale
288. ER05121018 June 2006	Jersey Central Power & Light Company	New Jersey	Ratepayer Advocate	NUG Contracts Cost Recovery
289. U-21496, Subdocket C June 2006	Cleco Power LLC	Louisiana	Commission Staff	Rate Stabilization Plan
290. GR0510085 June 2006	Public Service Electric & Gas Company	New Jersey	Ratepayer Advocate	Rate of Return (gas services)

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291.	R-000061366 July 2006	Metropolitan Ed. Company Penn. Electric Company	Pennsylvania	Office of Consumer Advocate	Rate of Return
292.	9064 September 2006	Generic	Maryland	Energy Administration	Standard Offer Service
293.	U-29599 September 2006	Cleco Power LLC	Louisiana	Commission Staff	Purchase Power Contracts
294.	WR06030257 September 2006	New Jersey American Water Company	New Jersey	Rate Counsel	Rate of Return
295.	U-27866/U-29702 October 2006	Southwestern Electric Power Company	Louisiana	Commission Staff	Purchase Power/Power Plant Certification
296.	9063 October 2006	Generic	Maryland	Energy Administration Department of Natural Resources	Generation Supply Policies
297.	EM06090638 November 2006	Atlantic City Electric	New Jersey	Rate Counsel	Power Plant Sale
298.	C-2000065942 November 2006	Pike County Light & Power	Pennsylvania	Consumer Advocate	Generation Supply Service
299.	ER06060483 November 2006	Rockland Electric Company	New Jersey	Rate Counsel	Rate of Return
300.	A-110150F0035 December 2006	Duquesne Light Company	Pennsylvania	Consumer Advocate	Merger Issues
301.	U-29203, Phase II January 2007	Entergy Gulf States Entergy Louisiana	Louisiana	Commission Staff	Storm Damage Cost Allocation
302.	06-11022 February 2007	Nevada Power Company	Nevada	U.S. Dept. of Energy	Rate of Return
303.	U-29526 March 2007	Cleco Power	Louisiana	Commission Staff	Affiliate Transactions
304.	P-00072245 March 2007	Pike County Light & Power	Pennsylvania	Consumer Advocate	Provider of Last Resort Service
305.	P-00072247 March 2007	Duquesne Light Company	Pennsylvania	Consumer Advocate	Provider of Last Resort Service

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306. EM07010026 May 2007	Jersey Central Power & Light Company	New Jersey	Rate Counsel	Power Plant Sale
307. U-30050 June 2007	Entergy Louisiana Entergy Gulf States	Louisiana	Commission Staff	Purchase Power Contract
308. U-29956 June 2007	Entergy Louisiana	Louisiana	Commission Staff	Black Start Unit
309. U-29702 June 2007	Southwestern Electric Power Company	Louisiana	Commission Staff	Power Plant Certification
310. U-29955 July 2007	Entergy Louisiana Entergy Gulf States	Louisiana	Commission Staff	Purchase Power Contracts
311. 2007-67 July 2007	FairPoint Communications	Maine	Office of Public Advocate	Merger Financial Issues
312. P-00072259 July 2007	Metropolitan Edison Co.	Pennsylvania	Office of Consumer Advocate	Purchase Power Contract Restructuring
313. EO07040278 September 2007	Public Service Electric & Gas	New Jersey	Rate Counsel	Solar Energy Program Financial Issues
314. U-30192 September 2007	Entergy Louisiana	Louisiana	Commission Staff	Power Plant Certification Rate-making, Financing
315. 9117 (Phase II) October 2007	Generic (Electric)	Maryland	Energy Administration	Standard Offer Service Reliability
316. U-30050 November 2007	Entergy Gulf States	Louisiana	Commission Staff	Power Plant Acquisition
317. IPC-E-07-8 December 2007	Idaho Power Co.	Idaho	U.S. Department of Energy	Cost of Capital
318. U-30422 (Phase I) January 2008	Entergy Gulf States	Louisiana	Commission Staff	Purchase Power Contract
319. U-29702 (Phase II) February, 2008	Southwestern Electric Power Co.	Louisiana	Commission Staff	Power Plant Certification
320. March 2008	Delmarva Power & Light	Delaware State Senate	Senate Committee	Wind Energy Economics

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321. U-30192 (Phase II) March 2008	Entergy Louisiana	Louisiana	Commission Staff	Cash CWIP Policy, Credit Ratings
322. U-30422 (Phase II) April 2008	Entergy Gulf States - LA	Louisiana	Commission Staff	Power Plant Acquisition
323. U-29955 (Phase II) April 2008	Entergy Gulf States - LA Entergy Louisiana	Louisiana	Commission Staff	Purchase Power Contract
324. GR-070110889 April 2008	New Jersey Natural Gas Company	New Jersey	Rate Counsel	Cost of Capital
325. WR-08010020 July 2008	New Jersey American Water Company	New Jersey	Rate Counsel	Cost of Capital
326. U-28804-A August 2008	Entergy Louisiana	Louisiana	Commission Staff	Cogeneration Contract
327. IP-99-1693C-M/S August 2008	Duke Energy Indiana	Federal District Court	U.S. Department of Justice/ Environmental Protection Agency	Clean Air Act Compliance (Expert Report)
328. U-30670 September 2008	Entergy Louisiana	Louisiana	Commission Staff	Nuclear Plant Equipment Replacement
329. 9149 October 2008	Generic	Maryland	Department of Natural Resources	Capacity Adequacy/Reliability
330. IPC-E-08-10 October 2008	Idaho Power Company	Idaho	U.S. Department of Energy	Cost of Capital
331. U-30727 October 2008	Cleco Power LLC	Louisiana	Commission Staff	Purchased Power Contract
332. U-30689-A December 2008	Cleco Power LLC	Louisiana	Commission Staff	Transmission Upgrade Project
333. IP-99-1693C-M/S February 2009	Duke Energy Indiana	Federal District Court	U.S. Department of Justice/EPA	Clean Air Act Compliance (Oral Testimony)
334. U-30192, Phase II February 2009	Entergy Louisiana, LLC	Louisiana	Commission Staff	CWIP Rate Request Plant Allocation
335. U-28805-B February 2009	Entergy Gulf States, LLC	Louisiana	Commission Staff	Cogeneration Contract



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336. P-2009-2093055, et al. May 2009	Metropolitan Edison Pennsylvania Electric	Pennsylvania	Office of Consumer Advocate	Default Service
337. U-30958 July 2009	Cleco Power	Louisiana	Commission Staff	Purchase Power Contract
338. EO08050326 August 2009	Jersey Central Power Light Co.	New Jersey	Rate Counsel	Demand Response Cost Recovery
339. GR09030195 August 2009	Elizabethtown Gas	New Jersey	New Jersey Rate Counsel	Cost of Capital
340. U-30422-A August 2009	Entergy Gulf States	Louisiana	Staff	Generating Unit Purchase
341. CV 1:99-01693 August 2009	Duke Energy Indiana	Federal District Court – Indiana	U. S. DOJ/EPA, et al.	Environmental Compliance Rate Impacts (Expert Report)
342. 4065 September 2009	Narragansett Electric	Rhode Island	Division Staff	Cost of Capital
343. U-30689 September 2009	Cleco Power	Louisiana	Staff	Cost of Capital, Rate Design, Other Rate Case Issues
344. U-31147 October 2009	Entergy Gulf States Entergy Louisiana	Louisiana	Staff	Purchase Power Contracts
345. U-30913 November 2009	Cleco Power	Louisiana	Staff	Certification of Generating Unit
346. M-2009-2123951 November 2009	West Penn Power	Pennsylvania	Office of Consumer Advocate	Smart Meter Cost of Capital (Surrebuttal Only)
347. GR09050422 November 2009	Public Service Electric & Gas Company	New Jersey	Rate Counsel	Cost of Capital
348. D-09-49 November 2009	Narragansett Electric	Rhode Island	Division Staff	Securities Issuances
349. U-29702, Phase II November 2009	Southwestern Electric Power Company	Louisiana	Commission Staff	Cash CWIP Recovery
350. U-30981 December 2009	Entergy Louisiana Entergy Gulf States	Louisiana	Commission Staff	Storm Damage Cost Allocation

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351. U-31196 (ITA Phase) February 2010	Entergy Louisiana	Louisiana	Staff	Purchase Power Contract
352. ER09080668 March 2010	Rockland Electric	New Jersey	Rate Counsel	Rate of Return
353. GR10010035 May 2010	South Jersey Gas Co.	New Jersey	Rate Counsel	Rate of Return
354. P-2010-2157862 May 2010	Pennsylvania Power Co.	Pennsylvania	Consumer Advocate	Default Service Program
355. 10-CV-2275 June 2010	Xcel Energy	U.S. District Court Minnesota	U.S. Dept. Justice/EPA	Clean Air Act Enforcement
356. WR09120987 June 2010	United Water New Jersey	New Jersey	Rate Counsel	Rate of Return
357. U-30192, Phase III June 2010	Entergy Louisiana	Louisiana	Staff	Power Plant Cancellation Costs
358. 31299 July 2010	Cleco Power	Louisiana	Staff	Securities Issuances
359. App. No. 1601162 July 2010	EPCOR Water	Alberta, Canada	Regional Customer Group	Cost of Capital
360. U-31196 July 2010	Entergy Louisiana	Louisiana	Staff	Purchase Power Contract
361. 2:10-CV-13101 August 2010	Detroit Edison	U.S. District Court Eastern Michigan	U.S. Dept. of Justice/EPA	Clean Air Act Enforcement
362. U-31196 August 2010	Entergy Louisiana Entergy Gulf States	Louisiana	Staff	Generating Unit Purchase and Cost Recovery
363. Case No. 9233 October 2010	Potomac Edison Company	Maryland	Energy Administration	Merger Issues
364. 2010-2194652 November 2010	Pike County Light & Power	Pennsylvania	Consumer Advocate	Default Service Plan

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365.	2010-2213369 April 2011	Duquesne Light Company Pennsylvania	Consumer Advocate	Merger Issues
366.	U-31841 May 2011	Entergy Gulf States Louisiana	Staff	Purchase Power Agreement
367.	11-06006 September 2011	Nevada Power Nevada	U. S. Department of Energy	Cost of Capital
368.	9271 September 2011	Exelon/Constellation Maryland	MD Energy Administration	Merger Savings
369.	4255 September 2011	United Water Rhode Island Rhode Island	Division of Public Utilities	Rate of Return
370.	P-2011-2252042 October 2011	Pike County Light & Power Pennsylvania	Consumer Advocate	Default service plan
371.	U-32095 November 2011	Southwestern Electric Power Company Louisiana	Commission Staff	Wind energy contract
372.	U-32031 November 2011	Entergy Gulf States Louisiana	Commission Staff	Purchased Power Contract
373.	U-32088 January 2012	Entergy Louisiana Louisiana	Commission Staff	Coal plant evaluation
374.	R-2011-2267958 February 2012	Aqua Pa. Pennsylvania	Office of Consumer Advocate	Cost of capital
375.	P-2011-2273650 February 2012	FirstEnergy Companies Pennsylvania	Office of Consumer Advocate	Default service plan
376.	U-32223 March 2012	Cleco Power Louisiana	Commission Staff	Purchase Power Contract and Rate Recovery
377.	U-32148 March 2012	Entergy Louisiana Energy Gulf States Louisiana	Commission Staff	RTO Membership
378.	ER11080469 April 2012	Atlantic City Electric New Jersey	Rate Counsel	Cost of capital
379.	R-2012-2285985 May 2012	Peoples Natural Gas Company Pennsylvania	Office of Consumer Advocate	Cost of capital

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380. U-32153 July 2012	Cleco Power	Louisiana	Commission Staff	Environmental Compliance Plan
381. U-32435 August 2012	Entergy Gulf States Louisiana LLC	Louisiana	Commission Staff	Cost of equity (gas)
382. ER-2012-0174 August 2012	Kansas City Power & Light Company	Missouri	U. S. Department of Energy	Rate of return
383. U-31196 August 2012	Entergy Louisiana/Entergy Gulf States	Louisiana	Commission Staff	Power Plant Joint Ownership
384. ER-2012-0175 August 2012	KCP&L Greater Missouri Operations	Missouri	U.S. Department of Energy	Rate of Return
385. 4323 August 2012	Narragansett Electric Company	Rhode Island	Division of Public Utilities and Carriers	Rate of Return (electric and gas)
386. D-12-049 October 2012	Narragansett Electric Company	Rhode Island	Division of Public Utilities and Carriers	Debt issue
387. GO12070640 October 2012	New Jersey Natural Gas Company	New Jersey	Rate Counsel	Cost of capital
388. GO12050363 November 2012	South Jersey Gas Company	New Jersey	Rate Counsel	Cost of capital
389. R-2012-2321748 January 2013	Columbia Gas of Pennsylvania	Pennsylvania	Office of Consumer Advocate	Cost of capital
390. U-32220 February 2013	Southwestern Electric Power Co.	Louisiana	Commission Staff	Formula Rate Plan
391. CV No. 12-1286 February 2013	PPL et al.	Federal District Court	MD Public Service Commission	PJM Market Impacts (deposition)
392. EO12080721 March 2013	Public Service Electric & Gas	New Jersey	Rate Counsel	Solar Tracker ROE
393. EO12080726 March 2013	Public Service Electric & Gas	New Jersey	Rate Counsel	Solar Tracker ROE

