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May 26, 2020

Adam J. Teitzman, Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

Re: Docket No. 20200071-EI

Dear Mr. Teitzman,

Please find enclosed for filing in the above referenced docket the Direct Testimony and Exhibits of Ralph Smith, CPA. This filing is being made via the Florida Public Service Commission's Web Based Electronic Filing portal.

If you have any questions or concerns; please do not hesitate to contact me. Thank you for your assistance in this matter.

Sincerely,

<u>/s/Patricia A. Christensen</u>

Patricia A. Christensen Associate Public Counsel

cc: All Parties of Record

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

IN RE: REVIEW OF 2020-2029 STORM PROTECTION PLAN PURSUANT TO

RULE 25-6.030, F.A.C., FLORIDA POWER & LIGHT COMPANY,

DOCKET NO. 20200071-EI

DIRECT TESTIMONY

OF

RALPH SMITH, CPA

ON BEHALF OF THE CITIZENS OF THE STATE OF FLORIDA

J. R. Kelly Public Counsel

Patty Christensen Associate Public Counsel

Office of Public Counsel c/o The Florida Legislature 111 West Madison Street, Room 812 Tallahassee, FL 32399-1400 (850) 488-9330

Attorneys for the Citizens of the State of Florida

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DIRECT TESTIMONY

OF

RALPH SMITH

On Behalf of the Office of Public Counsel

Before the

Florida Public Service Commission

20200071-EI

1 **I.**

INTRODUCTION

2 Q. WHAT ARE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS?

A. My name is Ralph Smith. I am a Certified Public Accountant licensed in the State of
 Michigan and a senior regulatory consultant at the firm Larkin & Associates, PLLC,
 Certified Public Accountants, with offices at 15728 Farmington Road, Livonia, Michigan,
 48154.

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Q. PLEASE DESCRIBE THE FIRM LARKIN & ASSOCIATES, PLLC.

9 A. Larkin & Associates, PLLC, ("Larkin") is a Certified Public Accounting and Regulatory
10 Consulting Firm. The firm performs independent regulatory consulting primarily for
11 public service/utility commission staffs and consumer interest groups (public counsels,
12 public advocates, consumer counsels, attorneys general, etc.). Larkin has extensive
13 experience in the utility regulatory field as expert witnesses in over 600 regulatory
14 proceedings, including numerous electric, water and wastewater, gas and telephone utility
15 cases.

1	Q.	HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE FLORIDA PUBLIC
2		SERVICE COMMISSION?
3	Α.	Yes, I have testified before the Florida Public Service Commission ("PSC" or
4		"Commission") previously. I have also testified before several other state regulatory
5		commissions.
6		
7	Q.	HAVE YOU PREPARED AN EXHIBIT DESCRIBING YOUR QUALIFICATIONS
8		AND EXPERIENCE?
9	Α.	Yes. I have attached Exhibit RCS-1, which is a summary of my regulatory experience and
10		qualifications.
11		
12	Q.	ON WHOSE BEHALF ARE YOU APPEARING?
13	Α.	Larkin & Associates, PLLC, was retained by the Florida Office of Public Counsel ("OPC")
14		to review Florida Power & Light's ("FPL" or "Company") proposed 2020-2029 Storm
15		Protection Plan ("SPP" or "Plan") on behalf of the OPC. Accordingly, I am appearing on
16		behalf of the Citizens of the State of Florida.
17		
18	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?
19	Α.	I am presenting my expert opinion regarding issues raised in FPL's proposed 2020-2029
20		Storm Protection Plan.
21		
22	Q.	WHAT INFORMATION DID YOU REVIEW IN PREPARATION OF YOUR
23		TESTIMONY?
24	А.	I reviewed the Company's filing, including the direct testimony and exhibits. I also
25		reviewed the Company's responses to OPC's discovery, the Company's responses to PSC

1	Staff's discovery, and other materials pertaining to the SPP and its impacts on the
2	Company. In addition, I reviewed Rule 25-6.030, Florida Administrative Code ("F.A.C."),
3	concerning approval of a Transmission and Distribution Storm Protection Plan that covers
4	a utility's immediate 10-year planning period.
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Q.

PLEASE DESCRIBE HOW THE REMAINDER OF YOUR TESTIMONY IS ORGANIZED.

8 A. I first discuss Rule 25-6.030, F.A.C., and the concept of "resiliency" and distinguish the 9 concepts of "resiliency" and "reliability". I then discuss principles I applied when 10 reviewing FPL's proposed SPP. In the discussion of the principles I applied, I include 11 criteria that, in my expert opinion, the Commission must weigh to properly evaluate the 12 sufficiency of each SPP under the statutes and rules governing the SPPs.

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II. <u>THE CONCEPTS OF "RESILIENCY" AND "RELIABILITY"</u>

15 Q. PLEASE DISCUSS RULE 25-6.030, F.A.C.

16 Rule 25-6.030, F.A.C., provides that each utility must file an updated SPP at least every Α. three years that covers the utility's immediate ten-year planning period. Rule 25-6.030, 17 F.A.C., also specifies the information to be included in each utility's SPP. The Florida 18 19 Legislature directed the Commission to adopt rules to specify the elements that must be included in each utility's SPP. The Florida Legislature found that it was in the State's 20 21 interest to "strengthen electric utility infrastructure to withstand extreme weather 22 conditions by promoting the overhead hardening of electrical transmission and distribution 23 facilities, the undergrounding of certain electrical distribution lines, and vegetation management," and for each electric utility to "mitigate restoration costs and outage times 24 25 to utility customers when developing transmission and distribution storm protection plans."

Section 366.96(1)(c) and (e), F.S. These objectives of mitigating restoration costs and outage times by strengthening electric utility infrastructure to withstand extreme weather events appear to relate to resiliency, which, as explained below, should be distinguished from reliability, for developing specific criteria to be applied in evaluating utility proposed SPP expenditures.

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Q. PLEASE DISCUSS THE CONCEPT OF "RESILIENCY".

8 The term "resilience" means the ability to prepare for and adapt to changing conditions, A. and withstand and recover rapidly from disruptions.1 Resilience measures can be designed 9 to address infrequently occurring, high-consequence events that apply stress to a system 10 over a large scale, such as disruptions to electric supply resulting from extreme weather 11 events such as hurricanes. Grid modernization activities cite resilience (sometimes called 12 resiliency) as a key electric power grid characteristic to be improved or maximized, and so 13 it is crucial for the development of resilient grid architectures that the concept of grid 14 resilience be clear and quantifiable.² As described in *Electric Grid Resilience and* 15 16 *Reliability for Grid Architecture*³ at page 3:

A key concept here is that resilience is an intrinsic characteristic of a grid 17 or portion of a grid. A perfectly resilient grid would not experience outages 18 19 and so any definition or metric that is based on measuring outage frequencies, times, extents, or impacts on customers or systems does not get 20 at the essence of resilience. Resilience applies to the grid under stress: how 21 it resists losing capabilities or gracefully degrades is the essence of 22 This explains why reliability measures are not useful for 23 resilience. quantifying resilience. Resilience is in large part about what does not 24 25 happen. (Emphasis in original.)

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¹ See, <u>https://www.nrel.gov/resilience-planning-roadmap/pdfs/defining-resilience-exercise.pdf</u>.

² See, <u>https://gridarchitecture.pnnl.gov/media/advanced/Electric_Grid_Resilience_and_Reliability_v4.pdf</u>. JD Taft, Ph.D., March 2018, prepared for the U.S. Department of Energy by Pacific Northwest National Laboratory under Contract DE-AC05-76RL01830 at page 1.

³ Id. at page 3.

1 Q. PLEASE DISCUSS THE CONCEPT OF "RELIABILITY"

A. The term "reliability" refers to maintaining the delivery of electric power when there is
"routine uncertainty in operating conditions" according to the DOE's Grid Modernization
Laboratory Consortium.⁴ There have been developed an array of well-defined, reported
metrics for the bulk power system (e.g., loss of load expectation), and electricity
distribution system (e.g., SAIDI⁵, SAIFI⁶, and CAIDI⁷) to measure reliability. As noted in
a May 2, 2018 report concerning *Electric Reliability and Power System Resilience* at page

8 2, prepared for the Congressional Research Service⁸:

In the United States, there are two main indices used to measure reliability. The system average interruption duration index (SAIDI) represents *the average amount of time per year that power supply to a customer is interrupted*, expressed in minutes per customer per year. The system average interruption frequency index (SAIFI) represents *the average number of times per year that the supply to a customer is interrupted*, expressed as interruptions per customer per year. However, there is a lack of consistency in how the inputs to these indices are measured, since some jurisdictions consider storm-related outages as "extreme" or unusual events, and thus do not include these in power outage statistics. (Emphasis in original.)

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As stated in Electric Grid Resilience and Reliability for Grid Architecture⁹ at page 3:

Reliability on the other hand, is a measure of *behavior once resilience has broken.* Standard reliability metrics fall into two categories: frequency
indices (CAIFI, SAIFI, etc.) and duration indices (CAIDI, SAIDI, etc.).
Frequency indices are very roughly related to resilience in the sense that
they reflect to some degree how often resilience is broken (but in a nonnormalized fashion, making them unusable as resilience measures).
Duration indices measure how well a utility responds to broken resilience

⁴ See, <u>https://gmlc.doe.gov/sites/default/files/resources/GMLC1%201 Reference Manual2%201final2017</u> 06 01 v4 wPNNLNo 1.pdf.

⁵ System Average Interruption Duration Index (SAIDI), which is stated in minutes per customer, and is commonly reported with and without major events, such as severe storms.

⁶ System Average Interruption Frequency Index (SAIFI)

⁷ Customer Average Interruption Duration Index (CAIDI) stated in hours per customer

⁸ https://www.everycrsreport.com/files/20180502_IN10895_b74bbaf13d1c87cf3bcd377022a1596667834782.pdf, accessed on May 15, 2020.

⁹ Supra <u>https://gridarchitecture.pnnl.gov/media/advanced/Electric Grid Resilience and Reliability v4.pdf</u>. JD Taft, Ph.D., March 2018, prepared for the U.S. Department of Energy by Pacific Northwest National Laboratory under Contract DE-AC05-76RL01830.

(also in a non-normalized fashion). This is why recovery, as mentioned in the EPRI resilience definition, actually belongs in the reliability domain. The dividing line is clear: for electricity delivery, the start of a sustained outage is the transition point from the domain of resilience to the domain of reliability. An understanding of this concept is necessary for the development of resilient grid architectures.

- The following diagrams, from pages 3 and 7 of Electric Grid Resilience and Reliability for
- 9 Grid Architecture, respectively, may be helpful in illustrating the relationship and
- 10 distinguishing factors between the concepts of resilience and reliability:
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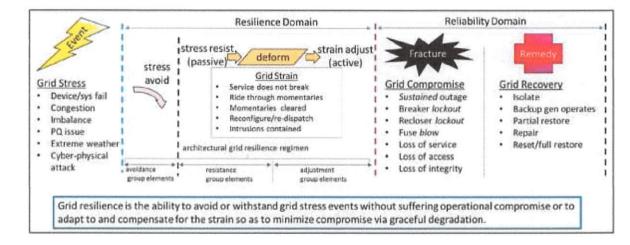
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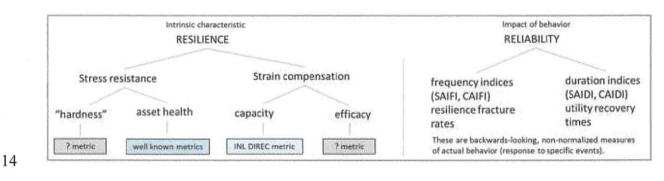
Figure 1: Resilience and Reliability Domains



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Figure 2: Resilience and Reliability Metrics Taxonomies



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16 Q. WHY IS IT IMPORTANT TO DISTINGUISH BETWEEN RESILIENCY AND

- 17 RELIABILITY IN EVALUATING UTILITY-PROPOSED SPP INVESTMENTS?
- 18 A. Utility proposals to regulators for resilience spending are growing as indicated by the SPP
- 19 proposals filed by FPL and other Florida electric utilities. It will, therefore be important to

1 develop standards to evaluate whether the SPP proposals being made by FPL and the other 2 Florida electric utilities are cost justified. Standards will be needed to evaluate the value 3 and cost-effectiveness of the utility proposed SPP programs and how they differ from 4 traditional reliability investments that would be included and recovered in utility base rates. 5 Using traditional reliability measures to evaluate utility proposed system hardening 6 expenditures to improve resiliency may not be adequate. As noted above, resilience and 7 reliability are distinguishable concepts and the expenditures to address improvements in 8 each would appear to require their own specialized evaluation criteria. There is not yet a 9 clear and widely accepted "value of resilience" metric, so appropriate evaluation standards 10 will need to be developed in the initial reviews of utility SPP proposals. Moreover, while 11 traditional measurements of reliability have been in use for many years and are widely-12 accepted, there are not yet widely-accepted standards for measuring resiliency, 13 measurements for reliability related to resiliency or widely-accepted standards for 14 determining the value of system hardening expenditures intended to improve resiliency. 15 Without such criteria, expenditures may be undertaken by the utility for SPP programs that 16 are not cost effective or do not have a favorable cost-benefit ratio.

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III. <u>PRINCIPLES TO BE APPLIED WHEN REVIEWING FPL'S</u> <u>PROPOSED SPP</u>

19 Q. HAVE YOU IDENTIFIED A SET OF RECOMMENDED PRINCIPLES THAT

20 SHOULD BE APPLIED WHEN REVIEWING FPL'S (AND THE OTHER

21 FLORIDA ELECTRIC UTILITIES') PROPOSED SPP EXPENDITURES?

A. Yes. Working in conjunction with the OPC and various other OPC experts, I have
 identified the following principles that should be applied when reviewing utility proposed
 SPP expenditures to ensure that the approved projects meaningfully improve resiliency and
 reliability, are cost-effective, and minimizes adverse customer rate impacts:

1	1) determine standard resiliency and reliability metrics baselines to assess improvements
2	from SPP projects;
3	2) determine consistent cutoff resiliency and reliability metrics that would apply to and
4	limit SPP projects;
5	3) ensure that the SPP projects are incremental and do not include projects for which costs
6	are currently being recovered through base rates or other surcharges;
7	4) insist on clearly defined and verifiable cost/benefit analyses and metrics to ensure that
8	customers obtain beneficial value for discretionary investments;
9	5) determine consistent cutoff cost/benefit metrics that would apply to any proposed SPP
10	projects;
11	6) determine standard revenue requirement and rate impact methodologies;
12	7) determine consistent cutoff revenue requirement metrics to limit SPP projects, e.g., limit
13	the effect on overall rates to the rate of inflation or some other benchmark;
14	8) ensure that the utility is held accountable for the assumptions used to justify the SPP
15	projects based on actual improvements in reliability metrics and reductions in costs, among
16	others;
17	9) ensure that savings in expenses from the SPP projects are captured as an offset to the
18	incremental costs included in the SPP Cost Recovery Clause ("SPPCRC");
19	10) ensure that the decrements in revenue requirements as the result of declining cost
20	curves on SPP projects already included in base rates or other surcharges are captured as
21	an offset to the incremental SPP expenditures that would be recovered in the SPPCRC;
22	11) establish clear criteria for determining whether and when each utility's resiliency and
23	reliability improvement objectives have been attained; and

1 12) ensure that the SPP is not approved for prudency until it can be determined that 2 resiliency and reliability improvement objectives have been obtained including but not 3 limited to cost-effectiveness and rate impact as required by Rule 25.6.030, F.A.C.

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4 Q. IS ANOTHER WITNESS FOR THE OPC ADDRESSING SPECIFICS ABOUT 5 SOME OF THESE PRINCIPLES AND HOW THEY SHOULD BE APPLIED TO 6 THE SPP EXPENDITURE PROPSALS OF FPL?

7 A. Yes. OPC witness Kevin Mara's Direct Testimony provides additional specifics about
8 some of these principles and how they should be applied to the SPP expenditure proposals
9 of FPL.

10 IV. <u>SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS</u>

11 Q. PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS.

12 Α. I agree generally that the public could benefit from improvements in grid resiliency and 13 reliability, but would caution that the improvements made should be cost-justified. I agree 14 that there may be merit in selective and cost-effective system hardening and resiliency 15 enhancing expenditures. However, prior to approving utility SPP spending proposals, the 16 Commission must clearly define performance metrics and formulations for cost-benefit 17 analyses. Rather than proceeding apace with accelerated investments that have not been 18 adequately cost-justified, the Commission should require the utilities in the state, such as 19 FPL, to provide adequate cost-justification before additional investments in grid resiliency 20 are approved for rate recovery or charged to ratepayers. In addition, there are concerns 21 regarding whether SPP surcharge recovery is necessary or appropriate for FPL for various 22 types of proposed SPP expenditures, such as vegetation management, which traditionally 23 and appropriately has been addressed and the costs recovered through base rates. A clear

and specific delineation between (1) base rate recoverable and (2) SPP surcharge recoverable expenditures is needed to facilitate accounting and auditing and prevent abuse and double-recovery. FPL's experience suggests that enhanced vegetation management costs could be effectively accommodated in the context of a traditional base rate case.

5 FPL's SPP expenditure proposals fail to link the costs to clear and verifiable 6 resilience and reliability performance indicators. As a result, FPL's proposal would assure 7 investors of earnings on investments and recovery of certain specific O&M expenses 8 between rate cases, but customers would be left with the risk and burden of having 9 inadequate or unquantifiable benefits relating to SPP expenditures for which they will be 10 paying. Once the SPP expenditures have been made, documenting imprudence, 11 inefficiency or lack of adequate cost-benefit from such expenditures after the fact is a 12 burden that should not be placed on ratepayers and their representatives. I would thus urge 13 caution and require further cost-benefit analyses for FPL's SPP projects, including a clear 14 delineation of the expected improvements in resiliency and reliability and a clear method 15 for how these will be measured, prior to authorizing and having the utility embark upon 16 what could be an unjustifiably costly endeavor to enhance system resiliency.

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18 Q. DOES THIS COMPLETE YOUR PREFILED TESTIMONY?

19 A. Yes, it does.

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CRTIFICATE OF SERVICE Docket No. 20200071-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished

by electronic mail on this 26th day of May 2020, to the following:

Mr. Ken Hoffman Florida Power & Light Company 134 West Jefferson Street Tallahassee FL 32301-1713 ken.hoffman@fpl.com Christopher T. Wright John T. Burnett Florida Power & Light Company 700 Universe Boulevard Juno Beach FL 33408-0420 Christopher.Wright@fpl.com John.T.Burnett@fpl.com

Stephanie Eaton Derrick Williamson Walmart Inc. dwilliamson@spilmanlaw.com seaton@spilmanlaw.com Charles Murphy Rachael Dziechciarz Office of General Counsel 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 cmurphy@psc.state.fl.us RDziechc@psc.state.fl.us

/s/Patricia A. Christensen

Patricia A. Christensen Associate Public Counsel

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QUALIFICATIONS OF RALPH C. SMITH

Accomplishments

Mr. Smith's professional credentials include being a Certified Financial Planner[™] professional, a Certified Rate of Return Analyst, a licensed Certified Public Accountant and attorney. He functions as project manager on consulting projects involving utility regulation, regulatory policy and ratemaking and utility management. His involvement in public utility regulation has included project management and in-depth analyses of numerous issues involving telephone, electric, gas, and water and sewer utilities.

Mr. Smith has performed work in the field of utility regulation on behalf of industry, public service commission staffs, state attorney generals, municipalities, and consumer groups concerning regulatory matters before regulatory agencies in Alabama, Alaska, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Hawaii, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, New Jersey, New Mexico, New York, Nevada, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, Puerto Rico, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, Washington DC, West Virginia, Canada, Federal Energy Regulatory Commission and various state and federal courts of law. He has presented expert testimony in regulatory hearings on behalf of utility commission staffs and intervenors on several occasions.

Project manager in Larkin & Associates' review, on behalf of the Georgia Commission Staff, of the budget and planning activities of Georgia Power Company; supervised 13 professionals; coordinated over 200 interviews with Company budget center managers and executives; organized and edited voluminous audit report; presented testimony before the Commission. Functional areas covered included fossil plant O&M, headquarters and district operations, internal audit, legal, affiliated transactions, and responsibility reporting. All of our findings and recommendations were accepted by the Commission.

Key team member in the firm's management audit of the Anchorage Water and Wastewater Utility on behalf of the Alaska Commission Staff, which assessed the effectiveness of the Utility's operations in several areas; responsible for in-depth investigation and report writing in areas involving information systems, finance and accounting, affiliated relationships and transactions, and use of outside contractors. Testified before the Alaska Commission concerning certain areas of the audit report. AWWU concurred with each of Mr. Smith's 40 plus recommendations for improvement.

Co-consultant in the analysis of the issues surrounding gas transportation performed for the law firm of Cravath, Swaine & Moore in conjunction with the case of Reynolds Metals Co. vs. the Columbia Gas System, Inc.; drafted in-depth report concerning the regulatory treatment at both state and federal levels of issues such as flexible pricing and mandatory gas transportation.

Lead consultant and expert witness in the analysis of the rate increase request of the City of Austin - Electric Utility on behalf of the residential consumers. Among the numerous ratemaking issues addressed were the economies of the Utility's employment of outside services; provided both written and oral testimony outlining recommendations and their bases. Most of Mr. Smith's recommendations were adopted by the City Council and Utility in a settlement.

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Key team member performing an analysis of the rate stabilization plan submitted by the Southern Bell Telephone & Telegraph Company to the Florida PSC; performed comprehensive analysis of the Company's projections and budgets which were used as the basis for establishing rates.

Lead consultant in analyzing Southwestern Bell Telephone separations in Missouri; sponsored the complex technical analysis and calculations upon which the firm's testimony in that case was based. He has also assisted in analyzing changes in depreciation methodology for setting telephone rates.

Lead consultant in the review of gas cost recovery reconciliation applications of Michigan Gas Utilities Company, Michigan Consolidated Gas Company, and Consumers Power Company. Drafted recommendations regarding the appropriate rate of interest to be applied to any over or under collections and the proper procedures and allocation methodology to be used to distribute any refunds to customer classes.

Lead consultant in the review of Consumers Power Company's gas cost recovery refund plan. Addressed appropriate interest rate and compounding procedures and proper allocation methodology.

Project manager in the review of the request by Central Maine Power Company for an increase in rates. The major area addressed was the propriety of the Company's ratemaking attrition adjustment in relation to its corporate budgets and projections.

Project manager in an engagement designed to address the impacts of the Tax Reform Act of 1986 on gas distribution utility operations of the Northern States Power Company. Analyzed the reduction in the corporate tax rate, uncollectibles reserve, ACRS, unbilled revenues, customer advances, CIAC, and timing of TRA-related impacts associated with the Company's tax liability.

Project manager and expert witness in the determination of the impacts of the Tax Reform Act of 1986 on the operations of Connecticut Natural Gas Company on behalf of the Connecticut Department of Public Utility Control - Prosecutorial Division, Connecticut Attorney General, and Connecticut Department of Consumer Counsel.

Lead Consultant for The Minnesota Department of Public Service ("DPS") to review the Minnesota Incentive Plan ("Incentive Plan") proposal presented by Northwestern Bell Telephone Company ("NWB") doing business as U S West Communications ("USWC"). Objective was to express an opinion as to whether current rates addressed by the plan were appropriate from a Minnesota intrastate revenue requirements and accounting perspective, and to assist in developing recommended modifications to NWB's proposed Plan.

Performed a variety of analytical and review tasks related to our work effort on this project. Obtained and reviewed data and performed other procedures as necessary (1) to obtain an understanding of the Company's Incentive Plan filing package as it relates to rate base, operating income, revenue requirements, and plan operation, and (2) to formulate an opinion concerning the reasonableness of current rates and of amounts included within the Company's Incentive Plan filing. These procedures included requesting and reviewing extensive discovery, visiting the Company's offices to review data, issuing follow-up information requests in many instances, telephone and on-site discussions with Company representatives, and frequent discussions with counsel and DPS Staff assigned to the project.

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Lead Consultant in the regulatory analysis of Jersey Central Power & Light Company for the Department of the Public Advocate, Division of Rate Counsel. Tasks performed included on-site review and audit of Company, identification and analysis of specific issues, preparation of data requests, testimony, and cross examination questions. Testified in Hearings.

Assisted the NARUC Committee on Management Analysis with drafting the Consultant Standards for Management Audits.

Presented training seminars covering public utility accounting, tax reform, ratemaking, affiliated transaction auditing, rate case management, and regulatory policy in Maine, Georgia, Kentucky, and Pennsylvania. Seminars were presented to commission staffs and consumer interest groups.

Previous Positions

With Larkin, Chapski and Co., the predecessor firm to Larkin & Associates, was involved primarily in utility regulatory consulting, and also in tax planning and tax research for businesses and individuals, tax return preparation and review, and independent audit, review and preparation of financial statements.

Installed computerized accounting system for a realty management firm.

Education

Bachelor of Science in Administration in Accounting, with distinction, University of Michigan, Dearborn, 1979.

Master of Science in Taxation, Walsh College, Michigan, 1981. Master's thesis dealt with investment tax credit and property tax on various assets.

Juris Doctor, cum laude, Wayne State University Law School, Detroit, Michigan, 1986. Recipient of American Jurisprudence Award for academic excellence.

Continuing education required to maintain CPA license and CFP® certificate.

Passed all parts of CPA examination in first sitting, 1979. Received CPA certificate in 1981 and Certified Financial Planning certificate in 1983. Admitted to Michigan and Federal bars in 1986.

Michigan Bar Association.

American Bar Association, sections on public utility law and taxation.

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Partial list of utility cases participated in:

79-228-EL-FAC	Cincinnati Gas & Electric Company (Ohio PUC)
79-231-EL-FAC	Cleveland Electric Illuminating Company (Ohio PUC)
79-535-EL-AIR	East Ohio Gas Company (Ohio PUC)
80-235-EL-FAC	Ohio Edison Company (Ohio PUC)
80-240-EL-FAC	Cleveland Electric Illuminating Company (Ohio PUC)
U-1933	Tucson Electric Power Company (Arizona Corp. Commission)
U-6794	Michigan Consolidated Gas Co 16 Refunds (Michigan PSC)
81-0035TP	Southern Bell Telephone Company (Florida PSC)
81-0095TP	General Telephone Company of Florida (Florida PSC)
81-308-EL-EFC	Dayton Power & Light Co Fuel Adjustment Clause (Ohio PUC)
810136-EU	Gulf Power Company (Florida PSC)
GR-81-342	Northern States Power Co E-002/Minnesota (Minnesota PUC)
Tr-81-208	Southwestern Bell Telephone Company (Missouri PSC))
U-6949	Detroit Edison Company (Michigan PSC)
8400	East Kentucky Power Cooperative, Inc. (Kentucky PSC)
18328	Alabama Gas Corporation (Alabama PSC)
18416	Alabama Power Company (Alabama PSC)
820100-EU	Florida Power Corporation (Florida PSC)
8624	Kentucky Utilities (Kentucky PSC)
8648	East Kentucky Power Cooperative, Inc. (Kentucky PSC)
U-7236	Detroit Edison - Burlington Northern Refund (Michigan PSC)
U6633-R	Detroit Edison - MRCS Program (Michigan PSC)
U-6797-R	Consumers Power Company -MRCS Program (Michigan PSC)
U-5510-R	Consumers Power Company - Energy conservation Finance Program (Michigan PSC)
82-240E	South Carolina Electric & Gas Company (South Carolina PSC)
7350	Generic Working Capital Hearing (Michigan PSC)
RH-1-83	Westcoast Transmission Co., (National Energy Board of Canada)
820294-TP	Southern Bell Telephone & Telegraph Co. (Florida PSC)
82-165-EL-EFC	Southern Ben Telephone & Telegraph Co. (Torna 15C)
(Subfile A)	Toledo Edison Company(Ohio PUC)
82-168-EL-EFC	Cleveland Electric Illuminating Company (Ohio PUC)
830012-EU	Tampa Electric Company (Florida PSC)
U-7065	The Detroit Edison Company - Fermi II (Michigan PSC)
8738	Columbia Gas of Kentucky, Inc. (Kentucky PSC)
ER-83-206	Arkansas Power & Light Company (Missouri PSC)
	The Detroit Edison Company – Refunds (Michigan PSC)
U-4758	
8836	Kentucky American Water Company (Kentucky PSC)
8839 83-07-15	Western Kentucky Gas Company (Kentucky PSC)
	Connecticut Light & Power Co. (Connecticut DPU)
81-0485-WS	Palm Coast Utility Corporation (Florida PSC)
U-7650	Consumers Power Co. (Michigan PSC)
83-662	Continental Telephone Company of California, (Nevada PSC)
U-6488-R	Detroit Edison Co., FAC & PIPAC Reconciliation (Michigan PSC)
U-15684	Louisiana Power & Light Company (Louisiana PSC)
7395 & U-7397	Campaign Ballot Proposals (Michigan PSC)
820013-WS	Seacoast Utilities (Florida PSC)
U-7660	Detroit Edison Company (Michigan PSC)
83-1039	CP National Corporation (Nevada PSC)
U-7802	Michigan Gas Utilities Company (Michigan PSC)
83-1226	Sierra Pacific Power Company (Nevada PSC)
830465-EI	Florida Power & Light Company (Florida PSC)
U-7777	Michigan Consolidated Gas Company (Michigan PSC)
U-7779	Consumers Power Company (Michigan PSC)

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U-7480-R	Michigan Consolidated Gas Company (Michigan PSC)
U-7488-R	Consumers Power Company – Gas (Michigan PSC)
U-7484-R	Michigan Gas Utilities Company (Michigan PSC)
U-7550-R	Detroit Edison Company (Michigan PSC)
U-7477-R**	Indiana & Michigan Electric Company (Michigan PSC)
1 8978	Continental Telephone Co. of the South Alabama (Alabama PSC)
R-842583	Duquesne Light Company (Pennsylvania PUC)
R-842740	Pennsylvania Power Company (Pennsylvania PUC)
850050-EI	Tampa Electric Company (Florida PSC)
16091	Louisiana Power & Light Company (Louisiana PSC)
19297	Continental Telephone Co. of the South Alabama (Alabama PSC)
76-18788AA	
&76-18793AA	Detroit Edison - Refund - Appeal of U-4807 (Ingham
	County, Michigan Circuit Court)
85-53476AA	
& 85-534785AA	Detroit Edison Refund - Appeal of U-4758
	(Ingham County, Michigan Circuit Court)
U-8091/U-8239	Consumers Power Company - Gas Refunds (Michigan PSC)
TR-85-179**	United Telephone Company of Missouri (Missouri PSC)
85-212	Central Maine Power Company (Maine PSC)
ER-85646001	
& ER-85647001	New England Power Company (FERC)
850782-EI &	ten zigiana i ener company (i zite)
850783-EI	Florida Power & Light Company (Florida PSC)
R-860378	Duquesne Light Company (Pennsylvania PUC)
R-850267	Pennsylvania Power Company (Pennsylvania PUC)
851007-WU	
& 840419-SU	Florida Cities Water Company (Florida PSC)
G-002/GR-86-160	Northern States Power Company (Minnesota PSC)
7195 (Interim)	Gulf States Utilities Company (Texas PUC)
87-01-03	Connecticut Natural Gas Company (Connecticut PUC))
87-01-02	Southern New England Telephone Company
87-01-02	(Connecticut Department of Public Utility Control)
3673-	Georgia Power Company (Georgia PSC)
29484	Long Island Lighting Co. (New York Dept. of Public Service)
U-8924	Consumers Power Company – Gas (Michigan PSC)
Docket No. 1	Austin Electric Utility (City of Austin, Texas)
	Carolina Power & Light Company (North Carolina PUC)
Docket E-2, Sub 527 870853	
880069**	Pennsylvania Gas and Water Company (Pennsylvania PUC)
U-1954-88-102	Southern Bell Telephone Company (Florida PSC)
T E-1032-88-102	Citizens Utilities Rural Company, Inc. & Citizens Utilities
	Company, Kingman Telephone Division (Arizona CC)
89-0033	Illinois Bell Telephone Company (Illinois CC)
U-89-2688-T	Puget Sound Power & Light Company (Washington UTC))
R-891364	Philadelphia Electric Company (Pennsylvania PUC)
F.C. 889	Potomac Electric Power Company (District of Columbia PSC)
Case No. 88/546	Niagara Mohawk Power Corporation, et al Plaintiffs, v.
	Gulf+Western, Inc. et al, defendants (Supreme Court County of
07.11/00	Onondaga, State of New York)
87-11628	Duquesne Light Company, et al, plaintiffs, against Gulf+
	Western, Inc. et al, defendants (Court of the Common Pleas of
900210 EI	Allegheny County, Pennsylvania Civil Division)
890319-EI	Florida Power & Light Company (Florida PSC)
891345-EI	Gulf Power Company (Florida PSC)
ER 8811 0912J	Jersey Central Power & Light Company (BPU)
6531	Hawaiian Electric Company (Hawaii PUCs)

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R0901595 Equitable Gas Company (Pennsylvania Consumer Counsel) 90-10 Artesian Water Company (Delaware PSC) 89-12-05 Southern New England Telephone Company (Connecticut PUC) 900329-WS Southern States Utilities, Inc. (Florida PSC) 90-12-018 Southern California Edison Company (California PUC) Long Island Lighting Company (New York DPS) 90-E-1185 R-911966 Pennsylvania Gas & Water Company (Pennsylvania PUC) I.90-07-037, Phase II (Investigation of OPEBs) Department of the Navy and all Other Federal Executive Agencies (California PUC) U-1551-90-322 Southwest Gas Corporation (Arizona CC) U-1656-91-134 Sun City Water Company (Arizona RUCO) U-2013-91-133 Havasu Water Company (Arizona RUCO) 91-174*** Central Maine Power Company (Department of the Navy and all Other Federal Executive Agencies) U-1551-89-102 Southwest Gas Corporation - Rebuttal and PGA Audit (Arizona & U-1551-89-103 Corporation Commission) Docket No. 6998 Hawaiian Electric Company (Hawaii PUC) TC-91-040A and Intrastate Access Charge Methodology, Pool and Rates TC-91-040B Local Exchange Carriers Association and South Dakota Independent Telephone Coalition 9911030-WS & General Development Utilities - Port Malabar and 911-67-WS West Coast Divisions (Florida PSC) 922180 The Peoples Natural Gas Company (Pennsylvania PUC) 7233 and 7243 Hawaiian Nonpension Postretirement Benefits (Hawaiian PUC) R-00922314 & M-920313C006 Metropolitan Edison Company (Pennsylvania PUC) R00922428 Pennsylvania American Water Company (Pennsylvania PUC) E-1032-92-083 & Citizens Utilities Company, Agua Fria Water Division U-1656-92-183 (Arizona Corporation Commission) 92-09-19 Southern New England Telephone Company (Connecticut PUC) E-1032-92-073 Citizens Utilities Company (Electric Division), (Arizona CC) UE-92-1262 Puget Sound Power and Light Company (Washington UTC)) 92-345 Central Maine Power Company (Maine PUC) R-932667 Pennsylvania Gas & Water Company (Pennsylvania PUC) U-93-60** Matanuska Telephone Association, Inc. (Alaska PUC) U-93-50** Anchorage Telephone Utility (Alaska PUC) U-93-64 PTI Communications (Alaska PUC) 7700 Hawaiian Electric Company, Inc. (Hawaii PUC) E-1032-93-111 & Citizens Utilities Company - Gas Division (Arizona Corporation Commission) U-1032-93-193 R-00932670 Pennsylvania American Water Company (Pennsylvania PUC) U-1514-93-169/ Sale of Assets CC&N from Contel of the West, Inc. to E-1032-93-169 Citizens Utilities Company (Arizona Corporation Commission) 7766 Hawaiian Electric Company, Inc. (Hawaii PUC) 93-2006- GA-AIR The East Ohio Gas Company (Ohio PUC) 94-E-0334 Consolidated Edison Company (New York DPS) 94-0270 Inter-State Water Company (Illinois Commerce Commission) 94-0097 Citizens Utilities Company, Kauai Electric Division (Hawaii PUC) PU-314-94-688 Application for Transfer of Local Exchanges (North Dakota PSC) 94-12-005-Phase I Pacific Gas & Electric Company (California PUC) R-953297 UGI Utilities, Inc. - Gas Division (Pennsylvania PUC) 95-03-01 Southern New England Telephone Company (Connecticut PUC) 95-0342 Consumer Illinois Water, Kankakee Water District (Illinois CC) 94-996-EL-AIR Ohio Power Company (Ohio PUC) 95-1000-Е South Carolina Electric & Gas Company (South Carolina PSC)

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Non-Docketed	Citizens Utility Company - Arizona Telephone Operations
Staff Investigation	(Arizona Corporation Commission)
E-1032-95-473	Citizens Utility Co Northern Arizona Gas Division (Arizona CC)
E-1032-95-433	Citizens Utility Co Arizona Electric Division (Arizona CC)
	Collaborative Ratemaking Process Columbia Gas of Pennsylvania
	(Pennsylvania PUC)
GR-96-285	Missouri Gas Energy (Missouri PSC)
94-10-45	Southern New England Telephone Company (Connecticut PUC)
A.96-08-001 et al.	California Utilities' Applications to Identify Sunk Costs of Non-
	Nuclear Generation Assets, & Transition Costs for Electric Utility
	Restructuring, & Consolidated Proceedings (California PUC)
96-324	Bell Atlantic - Delaware, Inc. (Delaware PSC)
96-08-070, et al.	Pacific Gas & Electric Co., Southern California Edison Co. and
70 00 070, et al.	San Diego Gas & Electric Company (California PUC)
97-05-12	Connecticut Light & Power (Connecticut PUC)
R-00973953	Application of PECO Energy Company for Approval of its
R-00775755	Restructuring Plan Under Section 2806 of the Public Utility Code
	(Pennsylvania PUC)
97-65	Application of Delmarva Power & Light Co. for Application of a
97-05	Cost Accounting Manual and a Code of Conduct (Delaware PSC)
16705	Entergy Gulf States, Inc. (Cities Steering Committee)
E-1072-97-067	Southwestern Telephone Co. (Arizona Corporation Commission)
Non-Docketed	Delaware - Estimate Impact of Universal Services Issues
Staff Investigation	(Delaware PSC)
PU-314-97-12	
	US West Communications, Inc. Cost Studies (North Dakota PSC) Consumer Illinois Water Company (Illinois CC)
97-0351 97-8001	Investigation of Issues to be Considered as a Result of Restructuring of Electric
97-8001	
11 0000 04 165	Industry (Nevada PSC)
U-0000-94-165	Generic Docket to Consider Competition in the Provision
08 05 006 Dhara I	of Retail Electric Service (Arizona Corporation Commission)
98-05-006-Phase I	San Diego Gas & Electric Co., Section 386 costs (California PUC)
9355-U	Georgia Power Company Rate Case (Georgia PUC)
97-12-020 - Phase I	Pacific Gas & Electric Company (California PUC)
U-98-56, U-98-60,	Investigation of 1998 Intrastate Access charge filings
U-98-65, U-98-67	(Alaska PUC)
(U-99-66, U-99-65,	Investigation of 1999 Intrastate Access Charge filing
U-99-56, U-99-52)	(Alaska PUC)
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97-SCCC-149-GIT	Southwestern Bell Telephone Company Cost Studies (Kansas CC)
PU-314-97-465	US West Universal Service Cost Model (North Dakota PSC)
Non-docketed	Bell Atlantic - Delaware, Inc., Review of New Telecomm.
Assistance	and Tariff Filings (Delaware PSC)
Contract Dispute	City of Zeeland, MI - Water Contract with the City of Holland, MI
	(Before an arbitration panel)
Non-docketed Project	City of Danville, IL - Valuation of Water System (Danville, IL)
Non-docketed Project	Village of University Park, IL - Valuation of Water and
	Sewer System (Village of University Park, Illinois)

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E 1020 05 417	
E-1032-95-417	Citizens Utility Co., Maricopa Water/Wastewater Companies
T 1051D 00 0407	et al. (Arizona Corporation Commission)
T-1051B-99-0497	Proposed Merger of the Parent Corporation of Qwest
	Communications Corporation, LCI International Telecom Corp.,
T 01051D 00 0105	and US West Communications, Inc. (Arizona CC) US West Communications, Inc. Rate Case (Arizona CC)
T-01051B-99-0105 A00-07-043	Pacific Gas & Electric - 2001 Attrition (California PUC)
T-01051B-99-0499	US West/Quest Broadband Asset Transfer (Arizona CC)
99-419/420	US West, Inc. Toll and Access Rebalancing (North Dakota PSC)
PU314-99-119	US West, Inc. Residential Rate Increase and Cost Study Review
F 0514-99-119	(North Dakota PSC
98-0252	Ameritech - Illinois, Review of Alternative Regulation Plan
	(Illinois CUB)
00-108	Delmarva Billing System Investigation (Delaware PSC)
U-00-28	Matanuska Telephone Association (Alaska PUC)
Non-Docketed	Management Audit and Market Power Mitigation Analysis of the Merged Gas
	System Operation of Pacific Enterprises and Enova Corporation (California
	PUC)
00-11-038	Southern California Edison (California PUC)
00-11-056	Pacific Gas & Electric (California PUC)
00-10-028	The Utility Reform Network for Modification of Resolution E-3527 (California
	PUC)
98-479	Delmarva Power & Light Application for Approval of its Electric and Fuel
	Adjustments Costs (Delaware PSC)
99-457	Delaware Electric Cooperative Restructuring Filing (Delaware PSC)
99-582	Delmarva Power & Light dba Conectiv Power Delivery Analysis of Code of
	Conduct and Cost Accounting Manual (Delaware PSC)
99-03-04	United Illuminating Company Recovery of Stranded Costs (Connecticut OCC)
99-03-36	Connecticut Light & Power (Connecticut OCC)
Civil Action No.	
98-1117	West Penn Power Company vs. PA PUC (Pennsylvania PSC)
Case No. 12604	Upper Peninsula Power Company (Michigan AG)
Case No. 12613	Wisconsin Public Service Commission (Michigan AG)
41651	Northern Indiana Public Service Co Overearnings investigation (Indiana UCC)
13605-U	Savannah Electric & Power Company – FCR (Georgia PSC)
14000-U	Georgia Power Company Rate Case/M&S Review (Georgia PSC)
13196-U	Savannah Electric & Power Company Natural Gas Procurement and Risk
	Management/Hedging Proposal, Docket No. 13196-U (Georgia PSC)
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	Procurement Audit (Georgia PSC)
Non-Docketed	Transition Costs of Nevada Vertically Integrated Utilities (US Department of
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99-01-016,	Restructuring (US Department of Navy)
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99-02-05	Connecticut Light & Power (Connecticut OCC)
01-05-19-RE03	Yankee Gas Service Application for a Rate Increase, Phase I-2002-IERM
G-01551A-00-0309	(Connecticut OCC) Southwest Gas Corporation, Application to amend its rate
G-013314-00-0303	Schedules (Arizona CC)
00-07-043	Pacific Gas & Electric Company Attrition & Application for a rate increase
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13711-U	Georgia Power FCR (Georgia PSC)
02-001	Verizon Delaware § 271(Delaware DPA)
02-BLVT-377-AUD	Blue Valley Telephone Company Audit/General Rate Investigation (Kansas CC)
02-S&TT-390-AUD	S&T Telephone Cooperative Audit/General Rate Investigation (Kansas CC)
01-SFLT-879-AUD	Sunflower Telephone Company Inc., Audit/General Rate Investigation (Kansas CC)
01-BSTT-878-AUD	Bluestem Telephone Company, Inc. Audit/General Rate Investigation (Kansas CC)
P404, 407, 520, 413 426, 427, 430, 421/	
CI-00-712	Sherburne County Rural Telephone Company, dba as Connections, Etc.
	(Minnesota DOC)
U-01-85	ACS of Alaska, dba as Alaska Communications Systems (ACS), Rate Case
	(Alaska Regulatory Commission PAS)
U-01-34	ACS of Anchorage, dba as Alaska Communications Systems (ACS), Rate Case
	(Alaska Regulatory Commission PAS)
U-01-83	ACS of Fairbanks, dba as Alaska Communications Systems (ACS), Rate Case (Alaska Regulatory Commission PAS)
U-01-87	ACS of the Northland, dba as Alaska Communications Systems (ACS), Rate
0-01-87	Case (Alaska Regulatory Commission PAS)
96-324, Phase II	Verizon Delaware, Inc. UNE Rate Filing (Delaware PSC)
03-WHST-503-AUD	Wheat State Telephone Company (Kansas CC)
04-GNBT-130-AUD	Golden Belt Telephone Association (Kansas CC)
Docket 6914	Shoreham Telephone Company, Inc. (Vermont BPU)
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Docket 140.	
F-01345A-06-009	Arizona Public Service Company (Arizona Corporation Commission)
E-01345A-06-009 Case No	Arizona Public Service Company (Arizona Corporation Commission)
E-01345A-06-009 Case No. 05-1278-E-PC-PW-42T	Arizona Public Service Company (Arizona Corporation Commission) Appalachian Power Company and Wheeling Power Company both d/b/a
Case No.	
Case No.	Appalachian Power Company and Wheeling Power Company both d/b/a
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Case No. 05-1278-E-PC-PW-42T Docket No. 04-0113 Case No. U-14347 Case No. 05-725-EL-UNC Docket No. 21229-U Docket No. 19142-U Docket No. 03-07-01RE01 Docket No. 19042-U Docket No. 19042-U Docket No. 2004-178-E Docket No. 03-07-02 Docket No. EX02060363, Phases I&II Docket No. U-00-88 Phase 1-2002 IERM, Docket No. U-02-075 Docket No. 05-SCNT- 1048-AUD	Appalachian Power Company and Wheeling Power Company both d/b/a American Electric Power (West Virginia PSC) Hawaiian Electric Company (Hawaii PUC) Consumers Energy Company (Michigan PSC) Cincinnati Gas & Electric Company (PUC of Ohio) Savannah Electric & Power Company (Georgia PSC) Georgia Power Company (Georgia PSC) Connecticut Light & Power Company (CT DPUC) Savannah Electric & Power Company (Georgia PSC) South Carolina Electric & Gas Company (South Carolina PSC) Connecticut Light & Power Company (CT DPUC) Savannah Electric & Gas Company (CT DPUC) South Carolina Electric & Gas Company (CT DPUC) Rockland Electric Company (NJ BPU) ENSTAR Natural Gas Company and Alaska Pipeline Company (Regulatory Commission of Alaska)
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Docket No. 2003-34 Sidney Telephone Company (Maine PUC) Docket No. 2003-35 Maine Telephone Company (Maine PUC) Docket No. 2003-36 China Telephone Company (Maine PUC) Docket No. 2003-37 Standish Telephone Company (Maine PUC) Docket Nos. U-04-022. U-04-023 Anchorage Water and Wastewater Utility (Regulatory Commission of Alaska) Case 05-116-U/06-055-U Entergy Arkansas, Inc. EFC (Arkansas Public Service Commission) Case 04-137-U Southwest Power Pool RTO (Arkansas Public Service Commission) Case No. 7109/7160 Vermont Gas Systems (Department of Public Service) Empire District Electric Company (Missouri PSC) Case No. ER-2006-0315 Kansas City Power & Light Company (Missouri PSC) Case No. ER-2006-0314 Docket No. U-05-043,44 Golden Heart Utilities/College Park Utilities (Regulatory Commission of Alaska) A-122250F5000 Equitable Resources, Inc. and The Peoples Natural Gas Company, d/b/a Dominion Peoples (Pennsylvania PUC) Arizona Public Service Company (Arizona CC) E-01345A-05-0816 Delmarva Power & Light Company (Delaware PSC) Docket No. 05-304 Cincinnati Gas & Electric Company (Ohio PUC) 05-806-EL-UNC U-06-45 Anchorage Water Utility (Regulatory Commission of Alaska) 03-93-EL-ATA, 06-1068-EL-UNC Duke Energy Ohio (Ohio PUC) PUE-2006-00065 Appalachian Power Company (Virginia Corporation Commission) G-04204A-06-0463 et. al UNS Gas, Inc. (Arizona CC) U-06-134 Chugach Electric Association, Inc. (Regulatory Commission of Alaska) Docket No. 2006-0386 Hawaiian Electric Company, Inc (Hawaii PUC) E-01933A-07-0402 Tucson Electric Power Company (Arizona CC) Southwest Gas Corporation (Arizona CC) G-01551A-07-0504 Puget Sound Energy, Inc. (Washington UTC) Docket No.UE-072300 PUE-2008-00009 Virginia-American Water Company (Virginia SCC) PUE-2008-00046 Appalachian Power Company (Virginia SCC) E-01345A-08-0172 Arizona Public Service Company (Arizona CC) A-2008-2063737 Babcock & Brown Infrastructure Fund North America, LP. and The Peoples Natural Gas Company, d/b/a Dominion Peoples (Pennsylvania PUC) 08-1783-G-42T Hope Gas, Inc., dba Dominion Hope (West Virginia PSC) 08-1761-G-PC Hope Gas, Inc., dba Dominion Hope, Dominion Resources, Inc., and Peoples Hope Gas Companies (West Virginia PSC) Docket No. 2008-0083 Hawaiian Electric Company, Inc. (Hawaii PUC) Young Brothers, Limited (Hawaii PUC) Docket No. 2008-0266 G-04024A-08-0571 UNS Gas, Inc. (Arizona CC) Docket No. 09-29 Tidewater Utilities, Inc. (Delaware PSC) Docket No. UE-090704 Puget Sound Energy, Inc. (Washington UTC) 09-0878-G-42T Mountaineer Gas Company (West Virginia PSC) 2009-UA-0014 Mississippi Power Company (Mississippi PSC) Docket No. 09-0319 Illinois-American Water Company (Illinois CC) Docket No. 09-414 Delmarva Power & Light Company (Delaware PSC) R-2009-2132019 Aqua Pennsylvania, Inc. (Pennsylvania PUC) Docket Nos. U-09-069, U-09-070 ENSTAR Natural Gas Company (Regulatory Commission of Alaska) Docket Nos. U-04-023, U-04-024 Anchorage Water and Wastewater Utility - Remand (Regulatory Commission of Alaska) W-01303A-09-0343 & SW-01303A-09-0343 Arizona-American Water Company (Arizona CC) 09-872-EL-FAC & 09-873-EL-FAC Financial Audits of the FAC of the Columbus Southern Power Company and the Ohio Power Company - Audit I (Ohio PUC)

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2010-00036 E-04100A-09-0496 E-01773A-09-0472 R-2010-2166208, R-2010-2166210,	Kentucky-American Water Company (Kentucky PSC) Southwest Transmission Cooperative, IHnc. (Arizona CC) Arizona Electric Power Cooperative, Inc. (Arizona CC)
R-2010-2166212, & R-2010-2166214 PSC Docket No. 09-0602	Pennsylvania-American Water Company (Pennsylvania PUC) Central Illinois Light Company D/B/A AmerenCILCO; Central Illinois Public Service Company D/B/A AmerenCIPS; Illinois Power Company D/B/A AmerenIP (Illinois CC)
10-0713-E-PC	Allegheny Power and FirstEnergy Corp. (West Virginia PSC)
Docket No. 31958	Georgia Power Company (Georgia PSC)
Docket No. 10-0467	Commonwealth Edison Company (Illinois CC)
PSC Docket No. 10-237	Delmarva Power & Light Company (Delaware PSC)
U-10-51	Cook Inlet Natural Gas Storage Alaska, LLC (Regulatory Commission of Alaska)
10-0699-E-42T	Appalachian Power Company and Wheeling Power Company (West Virginia PSC)
10-0920-W-42T	West Virginia-American Water Company (West Virginia PSC)
A.10-07-007	California-American Water Company (California PUC)
A-2010-2210326	TWP Acquisition (Pennsylvania PUC)
09-1012-EL-FAC	Financial, Management, and Performance Audit of the FAC for Dayton Power and Light – Audit 1 (Ohio PUC)
10-268-EL FAC et al.	Financial Audit of the FAC of the Columbus Southern Power Company and the Ohio Power Company – Audit II (Ohio PUC)
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G-01551A-10-0458	Southwest Gas Corporation (Arizona CC)
10-KCPE-415-RTS	Kansas City Power & Light Company – Remand (Kansas CC)
PUE-2011-00037	Virginia Appalachian Power Company (Commonwealth of Virginia SCC)
R-2011-2232243	Pennsylvania-American Water (Pennsylvania PUC)
U-11-100	Power Purchase Agreement between Chugach Association, Inc. and Fire Island Wind, LLC (Regulatory Commission of Alaska)
A.10-12-005	San Diego Gas & Electric Company (California PUC)
PSC Docket No. 11-207	Artesian Water Company, Inc. (Delaware PSC)
Cause No. 44022	Indiana-American Water Company, Inc. (Indiana Utility Regulatory Commission)
PSC Docket No. 10-247	Management Audit of Tidewater Utilities, Inc. Affiliate Transactions (Delaware Public Service Commission)
G-04204A-11-0158	UNS Gas, Inc. (Arizona Corporation Commission)
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	Ohio Power Company – Audit III (Ohio PUC)

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Atmos Energy Corporation (Mississippi PSC) 2015-UN-049 15-0003-G-42T Mountaineer Gas Company (West Virginia PSC) PUE-2015-00027 Virginia Electric and Power Company (Commonwealth of Virginia SCC) Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc., Maui Docket No. 2015-0022 Electric Company Limited, and NextEra Energy, Inc. (Hawaii PUC) West Virginia-American Water Company (West Virginia PSC) 15-0676-W-42T 15-07-38^^ Iberdrola, S.A. Et Al, and UIL Holdings Corporation merger (Connecticut PURA) 15-26^^ Iberdrola, S.A. Et Al, and UIL Holdings Corporation merger (Massachusetts DPU) Management/Performance and Financial Audit of the FAC and Purchased 15-042-EL-FAC Power Rider for Dayton Power and Light (Ohio PUC) Mississippi Power Company (Mississippi PSC) 2015-UN-0080 Docket No. 15-00042 B&W Pipeline, LLC (Tennessee Regulatory Authority) WR-2015-0301/SR-2015 -0302 Missouri American Water Company (Missouri PSC) U-15-089, U-15-091, & U-15-092 Golden Heart Utilities, Inc. and College Utilities Corporation (The Regulatory Commission of Alaska) Docket No. 16-00001 Kingsport Power Company d/b/a AEP Appalachian Power (Tennessee Regulatory Authority) PUE-2015-00097 Virginia-American Water Company (Commonwealth of Virginia SCC) Management/Performance and Financial Audit of the Alternative Energy 15-1854-EL-RDR Recovery Rider of Duke Energy Ohio, Inc. (Ohio PUC) P-15-014 PTE Pipeline LLC (Regulatory Commission of Alaska) P-15-020 Swanson River Oil Pipeline, LLC (Regulatory Commission of Alaska) Docket No. 40161 Georgia Power Company - Integrated Resource Plan (Georgia PSC) Formal Case No. 1137 Washington Gas Light Company (District of Columbia PSC) 160021-EI, et al. Florida Power Company (Florida PSC) R-2016-2537349 Metropolitan Edison Company (Pennsylvania PUC) R-2016-2537352 Pennsylvania Electric Company (Pennsylvania PUC) R-2016-2537355 Pennsylvania Power Company (Pennsylvania PUC) R-2016-2537359 West Penn Power Company (Pennsylvania PUC) 16-0717-G-390P Hope Gas, Inc., dba Dominion Hope (West Virginia PSC) 15-1256-G-390P (Reopening)/16-0922-G-390P Mountaineer Gas Company (West Virginia PSC) West Virginia-American Water Company (West Virginia PSC) 16-0550-W-P CEPR-AP-2015-0001 Puerto Rico Electric Power Authority (Puerto Rico Energy Commission) E-01345A-16-0036 Arizona Public Service Company (Arizona CC) Providence Water Supply Board (Rhode Island PUC) Docket No. 4618 Docket No. 46238 Joint Report and Application of Oncor Electric Delivery Company LLC and NextEra Energy Inc. (Texas State Office of Administrative Hearings; Texas PUC) U-16-066 ENSTAR Natural Gas Company (Regulatory Commission of Alaska) Case No. 2016-00370 Kentucky Utilities Company (Kentucky PSC) Case No. 2016-00371 Louisville Gas and Electric Company (Kentucky PSC) P-2015-2508942 Metropolitan Edison Company (Pennsylvania PUC) P-2015-2508936 Pennsylvania Electric Company (Pennsylvania PUC) Pennsylvania Power Company (Pennsylvania PUC) P-2015-2508931 P-2015-2508948 West Penn Power Company (Pennsylvania PUC) E-04204A-15-0142* UNS Electric, Inc. (Arizona CC) Tucson Electric Power Company (Arizona CC) E-01933A-15-0322* UE-170033 & UG-170034* Puget Sound Energy, Inc. (Washington UTC) Case No. U-18239 Consumers Energy Company (Michigan PSC) Case No. U-18248 DTE Electric Company (Michigan PSC)

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Application 18-12-009 19-0316-G-42T 19-0051-EL-RDR

Pacific Gas and Electric Company (California PUC) Mountaineer Gas Company (West Virginia PSC) Management/Performance and Financial Audit of the Alternative Energy Recovery Rider of Duke Energy Ohio, Inc. (Ohio PUC) System Energy Resources, Inc. (FERC)

* Testimony filed, examination not completed ** Issues stipulated

ER-18-1182-001

*** Company withdrew case

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[^]Testimony filed, case withdrawn after proposed decision issued

^{^^} Issues stipulated before testimony was filed