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May 26, 2020

Adam J. Teitzman, Commission Clerk Office of Commission Clerk Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850

Re: Docket No. 20200070-EI – Review of 2020-2029 Storm Protection Plan pursuant to Rule

25-6.030, F.A.C., Gulf Power Company.

Dear Mr. Teitzman:

Please find enclosed for filing in the above referenced docket the Direct Testimony and Exhibits of Ralph Smith. 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,

/s/ Thomas A. (Tad) David Thomas A. (Tad) David Associate Public Counsel

cc: Parties of Record

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the Direct Testimony and Exhibits of Ralph Smith has been furnished to the following parties by electronic mail on this 26th day of May. 2020.

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mark.bubriski@nexteraenergy.com

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Sincerely,

/s/ Thomas A. (Tad) David Thomas A. (Tad) David Associate Public Counsel

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Review of 2020-2029 Storm Protection Plan pursuant to Rule 25-6.030, F.A.C., Gulf Power Company.

DOCKET NO.: 20200070-EI

FILED: May 26, 2020

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

Thomas A. David 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

20200070-EI

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I. INTRODUCTION

3 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,

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48154.

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

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

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FILED: 5/26/2020

2		SERVICE COMMISSION?
3	A.	Yes, I have testified before the Florida Public Service Commission ("FPSC" 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	A.	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	A.	Larkin & Associates, PLLC, was retained by the Florida Office of Public Counsel ("OPC")
14		to review Gulf Power Company's ("Gulf" 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	A.	I am presenting my expert opinion regarding issues raised in Gulf's proposed 2020-2029
20		Storm Protection Plan.
21		
22	Q.	WHAT INFORMATION DID YOU REVIEW IN PREPARATION OF YOUR
23		TESTIMONY?

HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE FLORIDA PUBLIC

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Q.

A. I reviewed the Company's filing, including the direct testimony and exhibits. I also reviewed the Company's responses to OPC's discovery, the Company's responses to PSC Staff's discovery, and other materials pertaining to the SPP and its impacts on the Company. In addition, I reviewed Rule 25-6.030, Florida Administrative Code ("F.A.C."), concerning approval of a Transmission and Distribution Storm Protection Plan that covers a utility's immediate 10-year planning period.

A.

Q. PLEASE DESCRIBE HOW THE REMAINDER OF YOUR TESTIMONY IS

ORGANIZED.

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

II. THE CONCEPTS OF "RESILIENCY" AND "RELIABILITY"

Q. PLEASE DISCUSS RULE 25-6.030.

A. Rule 25-6.030, F.A.C., provides that each utility must file an updated SPP at least every three years that covers the utility's immediate ten-year planning period. Rule 25-6.030, F.A.C., also specifies the information to be included in each utility's SPP. The Florida 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 interest to "strengthen electric utility infrastructure to withstand extreme weather conditions by promoting the overhead hardening of electrical transmission and distribution

facilities, the undergrounding of certain electrical distribution lines, and vegetation management," and for each electric utility to "mitigate restoration costs and outage times 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.

A.

Q. PLEASE DISCUSS THE CONCEPT OF "RESILIENCY".

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

A key concept here is that resilience is an intrinsic characteristic of a grid or portion of a grid. A perfectly resilient grid would not experience outages and so any definition or metric that is based on measuring outage frequencies, times, extents, or impacts on customers or systems does not get

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

² See https://gridarchitecture.pnnl.gov/media/advanced/Electric Grid Resilience and Reliability v4.pdf. 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.

at the essence of resilience. Resilience applies to the grid under stress: how it resists losing capabilities or gracefully degrades is the essence of resilience. This explains why reliability measures are not useful for quantifying resilience. Resilience is in large part about what does **not** happen. (Emphasis in original.)

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7 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

yellower at page

yellower system Resilience at page

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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⁴ See https://gmlc.doe.gov/sites/default/files/resources/GMLC1%201_Reference_Manual_2%201_final_2017_
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.

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 (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.

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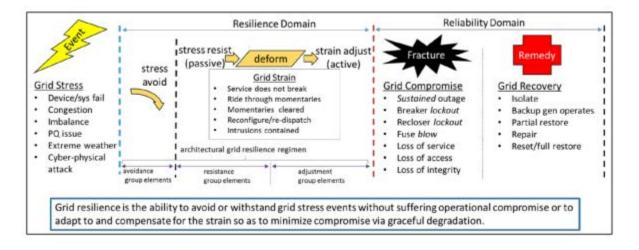
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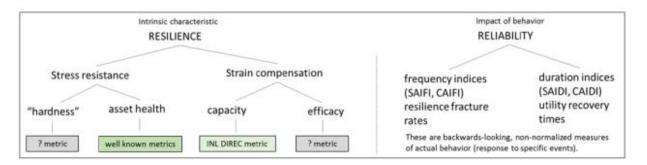
The following diagrams, from pages 3 and 7 of Electric Grid Resilience and Reliability for Grid Architecture, respectively, may be helpful in illustrating the relationship and distinguishing factors between the concepts of resilience and reliability:

Figure 1: Resilience and Reliability Domains



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

Figure 2: Resilience and Reliability Metrics Taxonomies



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Q. WHY IS IT IMPORTANT TO DISTINGUISH BETWEEN RESILIENCY AND RELIABILITY IN EVALUATING UTILITY-PROPOSED SPP INVESTMENTS?

Utility proposals to regulators for resilience spending are growing as indicated by the SPP proposals filed by Gulf and other Florida electric utilities. It will, therefore, be important to develop standards to evaluate whether the SPP proposals being made by Gulf and the other Florida electric utilities are cost justified. Standards will be needed to evaluate the value and cost-effectiveness of the utility proposed SPP programs and how they differ from traditional reliability investments that would be included and recovered in utility base rates. Using traditional reliability measures to evaluate utility proposed system hardening expenditures to improve resiliency may not be adequate. As noted above, resilience and reliability are distinguishable concepts and the expenditures to address improvements in each would appear to require their own specialized evaluation criteria. There is not yet a clear and widely accepted "value of resilience" metric, so appropriate evaluation standards will need to be developed in the initial reviews of utility SPP proposals. Moreover, while traditional measurements of reliability have been in use for many years and are widely accepted, there are not yet widely accepted standards for measuring resiliency, measurements for reliability related to resiliency, or widely accepted standards for

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1 determining the value of system hardening expenditures intended to improve resiliency. 2 Without such criteria, expenditures may be undertaken by the utility for SPP programs that 3 are not cost effective or do not have a favorable cost-benefit ratio. 4 III. PRINCIPLES TO BE APPLIED WHEN REVIEWING GULF'S 5 PROPOSED SPP 6 HAVE YOU IDENTIFIED A SET OF RECOMMENDED PRINCIPLES THAT Q. 7 SHOULD BE APPLIED WHEN REVIEWING GULF'S (AND THE OTHER 8 FLORIDA ELECTRIC UTILITIES') PROPOSED SPP EXPENDITURES? 9 Yes. Working in conjunction with the OPC and various other OPC experts, I have A. 10 identified the following principles that should be applied when reviewing utility proposed 11 SPP expenditures to ensure that the approved projects meaningfully improve resiliency and 12 reliability, are cost-effective, and minimizes adverse customer rate impacts: 13 1) determine standard resiliency and reliability metrics baselines to assess improvements 14 from SPP projects; 15 2) determine consistent cutoff resiliency and reliability metrics that would apply to and 16 limit SPP projects; 17 3) ensure that the SPP projects are incremental and do not include projects for which costs 18 are currently being recovered through base rates or other surcharges; 19 4) insist on clearly defined and verifiable cost/benefit analyses and metrics to ensure that 20 customers obtain beneficial value for discretionary investments; 21 5) determine consistent cutoff cost/benefit metrics that would apply to any proposed SPP 22 projects; 23 6) determine standard revenue requirement and rate impact methodologies;

1		7) determine consistent cutoff revenue requirement metrics to limit SPP projects, e.g., limit
2		the effect on overall rates to the rate of inflation or some other benchmark;
3		8) ensure that the utility is held accountable for the assumptions used to justify the SPP
4		projects based on actual improvements in reliability metrics and reductions in costs, among
5		others;
6		9) ensure that savings in expenses from the SPP projects are captured as an offset to the
7		incremental costs included in the SPP Cost Recovery Clause ("SPPCRC");
8		10) ensure that the decrements in revenue requirements as the result of declining cost
9		curves on SPP projects already included in base rates or other surcharges are captured as
10		an offset to the incremental SPP expenditures that would be recovered in the SPPCRC; and
11		11) establish clear criteria for determining whether and when each utility's resiliency and
12		reliability improvement objectives have been attained.
13		12) ensure that the SPP is not approved for prudency until it can be determined that
14		resiliency and reliability improvement objectives have been obtained including but not
15		limited to cost-effectiveness and rate impact as required by Rule 25.6.030, F.A.C.,
16		
17	Q.	IS ANOTHER WITNESS FOR THE OPC ADDRESSING SPECIFICS ABOUT
18		SOME OF THESE PRINCIPLES AND HOW THEY SHOULD BE APPLIED TO
19		THE SPP EXPENDITURE PROPSALS OF GULF?
20	A.	Yes. OPC witness Kevin Mara's Direct Testimony provides additional specifics about
21		some of these principles and how they should be applied to the SPP expenditure proposals
22		of Gulf.

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

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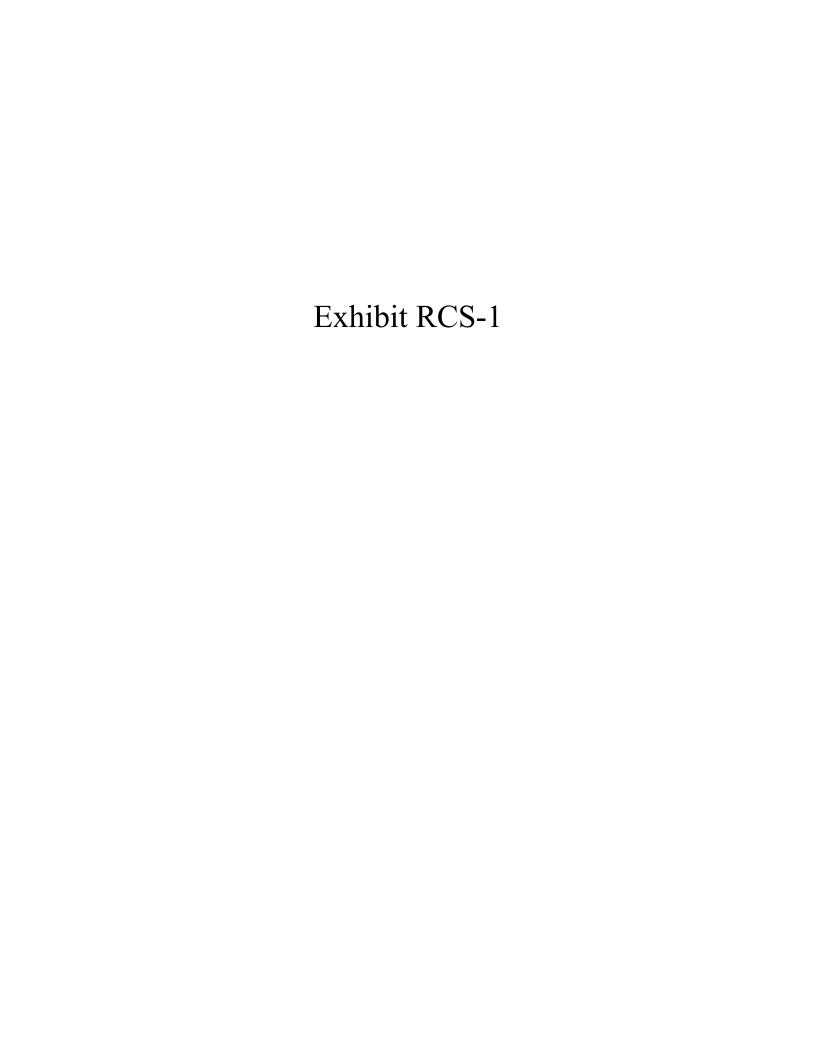
A.

2 Q. PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS.

I agree generally that the public could benefit from improvements in grid resiliency and reliability, but would caution that the improvements made should be cost-justified. I agree that there may be merit in selective and cost-effective system hardening and resiliency enhancing expenditures. However, prior to approving utility SPP spending proposals, the Commission must clearly define performance metrics and formulations for cost-benefit analyses. Rather than proceeding apace with accelerated investments that have not been adequately cost-justified, the Commission should require the utilities in the state, such as Gulf, to provide adequate cost-justification before additional investments in grid resiliency are approved for rate recovery or charged to ratepayers. In addition, there are concerns regarding whether SPP surcharge recovery is necessary or appropriate for Gulf for various types of proposed SPP expenditures, such as vegetation management, which traditionally 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. Gulf's experience suggests that enhanced vegetation management costs could be effectively accommodated in the context of a traditional base rate case. Gulf's SPP expenditure proposals fail to link the costs to clear and verifiable resilience and reliability performance indicators. As a result, Gulf's proposal would assure investors of earnings on investments and recovery of certain specific O&M expenses between rate cases, but customers would be left with the risk and burden of having inadequate or unquantifiable benefits relating to SPP expenditures for which they will be paying. Once the SPP expenditures have been made, documenting imprudence, inefficiency or lack of adequate cost-benefit from such expenditures after the fact is a burden that should not be placed on ratepayers and their representatives. I would thus urge caution and require further cost-benefit analyses for Gulf's SPP projects, including a clear delineation of the expected improvements in resiliency and reliability and a clear method for how these will be measured, prior to authorizing and having the utility embark upon what could be an unjustifiably costly endeavor to enhance system resiliency.

Q. DOES THIS COMPLETE YOUR PREFILED TESTIMONY?

9 A. Yes, it does.



QUALIFICATIONS OF RALPH C. SMITH

Accomplishments

Mr. Smith's professional credentials include being a Certified Financial PlannerTM 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)

Cleveland Electric Illuminating Company (Ohio PUC) 80-240-EL-FAC 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) General Telephone Company of Florida (Florida PSC) 81-0095TP

Dayton Power & Light Co.- Fuel Adjustment Clause (Ohio PUC) 81-308-EL-EFC

Gulf Power Company (Florida PSC) 810136-EU

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)

East Kentucky Power Cooperative, Inc. (Kentucky PSC) 8400

18328 Alabama Gas Corporation (Alabama PSC) Alabama Power Company (Alabama PSC) 18416 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)

South Carolina Electric & Gas Company (South Carolina PSC) 82-240E

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

(Subfile A) Toledo Edison Company(Ohio PUC)

Cleveland Electric Illuminating Company (Ohio PUC) 82-168-EL-EFC

Tampa Electric Company (Florida PSC) 830012-EU

The Detroit Edison Company - Fermi II (Michigan PSC) U-7065 Columbia Gas of Kentucky, Inc. (Kentucky PSC) 8738 Arkansas Power & Light Company (Missouri PSC) ER-83-206 U-4758 The Detroit Edison Company – Refunds (Michigan PSC) 8836 Kentucky American Water Company (Kentucky PSC) 8839 Western Kentucky Gas Company (Kentucky PSC) Connecticut Light & Power Co. (Connecticut DPU) 83-07-15 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)

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E-01345A-06-009 Arizona Public Service Company (Arizona Corporation Commission)

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WS-01303A-14-0010 EPCOR Water Arizona, Inc. (Arizona CC) 2014-000396 Kentucky Power Company (Kentucky PSC)

15-03-45 Iberdrola, S.A. Et Al, and UIL Holdings Corporation merger (Connecticut

A.14-11-003 San Diego Gas & Electric Company (California PUC)

U-14-111 ENSTAR Natural Gas Company (Regulatory Commission of Alaska)

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2015-UN-049 Atmos Energy Corporation (Mississippi PSC) Mountaineer Gas Company (West Virginia PSC) 15-0003-G-42T

PUE-2015-00027 Virginia Electric and Power Company (Commonwealth of Virginia SCC) Docket No. 2015-0022 Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc., Maui

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)

15-042-EL-FAC Management/Performance and Financial Audit of the FAC and Purchased

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)

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-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)

Virginia-American Water Company (Commonwealth of Virginia SCC) PUE-2015-00097 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)

Washington Gas Light Company (District of Columbia PSC) Formal Case No. 1137

Florida Power Company (Florida PSC) 160021-EI, et al.

R-2016-2537349 Metropolitan Edison Company (Pennsylvania PUC) R-2016-2537352 Pennsylvania Electric Company (Pennsylvania PUC) Pennsylvania Power Company (Pennsylvania PUC) R-2016-2537355 R-2016-2537359 West Penn Power Company (Pennsylvania PUC)

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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) Docket No. 4618 Providence Water Supply Board (Rhode Island PUC)

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)

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Case No. 9449 Merger of AltaGas Ltd. and WGL Holdings (Maryland PSC)

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Docket No. 4800 Suez Water Rhode Island Inc. (Rhode Island PUC)

In the Matter of the Effects on Utilities of the 2017 Tax Cuts and Jobs Act General Order No. 236.1

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20180048-EI Florida Public Utilities Company – Electric (Florida PSC) Florida Public Utilities Company - Indiantown (Florida PSC) 20180052-GU 20180054-GU Florida Division of Chesapeake Utilities Corporation (Florida PSC) 20180051-GU Florida Public Utilities Company – Gas Division (Florida PSC) 20180053-GU Florida Public Utilities Company - Fort Meade (Florida PSC)

Cause No. 45032 S4 Indiana American Water Company, Inc. Phase 2 (Indiana Utility Regulatory

Commission)

Montana-Dakota Utilities Co. (Montana PSC) Docket No. D2018.1.6 Docket No. D2018.4.24 NorthWestern Energy (Montana PSC)

Montana-Dakota Utilities Co. (Montana PSC) Docket No. D2018.4.22

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E-D Appalachian Power Company and Wheeling Power Company (West Virginia

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18-0049-GA-ALT, 18-0298-GA-AIR, &

Vectren Energy Delivery of Ohio, Inc. (Ohio PUC) 18-0299-GA-ALT

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U-18-043 Cook Inlet Natural Gas Storage Alaska, LLC (Regulatory Commission of

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T-03214-17-0305 Citizens Telecommunications Company of The White Mountains, Inc. d/b/a

Frontier Communications of The White Mountains (Arizona CC)

Docket No. D2018.9.60 Montana-Dakota Utilities Co. (Montana PSC) Docket No. 4890 Narragansett Bay Commission (Rhode Island PUC)

PUR-2018-00131 Columbia Gas of Virginia (Virginia SCC)

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PUR-2018-00175 Virginia-American Water Company (Virginia SCC)

A-2018-3006061, A-2018-3006062 and A-2018-

3006063 Agua America, Inc., Agua Pennsylvania, Inc., Agua Pennsylvania Wastewater,

Inc., Peoples Natural Gas Company LLC, Peoples Gas Company LLC

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Georgia Power Company – Integrated Resource Plan (Georgia PSC) Docket No. 42310 U-18-102

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ER-18-1182-001 System Energy Resources, Inc. (FERC)

- * Testimony filed, examination not completed
- ** Issues stipulated
- *** Company withdrew case
- [^]Testimony filed, case withdrawn after proposed decision issued
- ^^ Issues stipulated before testimony was filed