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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

DOCKET NO. 20210015-EI

Petition for rate increase
by Florida Power & Light
Company.

_____ /

VOLUME 14
PAGE 2939 - 2971
DIRECT PREFILED OF KARL RABAGO

PROCEEDINGS: HEARING

COMMISSIONERS
PARTICIPATING: CHAIRMAN GARY F. CLARK
COMMISSIONER ART GRAHAM
COMMISSIONER ANDREW GILES FAY
COMMISSIONER MIKE LA ROSA
COMMISSIONER GABRIELLA PASSIDOMO

DATE: Monday, September 20, 2021

TIME: Commenced: 9:30 a.m.
Concluded: 12:00 p.m.

PLACE: Betty Easley Conference Center
Room 148
4075 Esplanade Way
Tallahassee, Florida

REPORTED BY: DEBRA R. KRICK
Court Reporter

APPEARANCES: (As heretofore noted.)

PREMIER REPORTING
112 W. 5TH AVENUE
TALLAHASSEE, FLORIDA
(850) 894-0828

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I N D E X

WITNESS:	PAGE
KARL RABAGO	
Prefiled Direct Testimony inserted	2942

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P R O C E E D I N G S

(Transcript follows in sequence from Volume
13.)

(Whereupon, prefiled direct testimony of Karl
Rabago was inserted.)

Direct Testimony of Karl R. Rábago
FL RISING/LULAC/ECOSWF
Florida PSC, Docket No. 20210015-EI

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

**In re: Petition for rate increase)
 by Florida Power & Light) DOCKET NO. 20210015-EI
 Company)**

**DIRECT TESTIMONY
OF KARL R. RÁBAGO
ON BEHALF OF
FLORIDA RISING, INC.,
LEAGUE OF UNITED LATIN AMERICAN
CITIZENS OF FLORIDA,
AND
ENVIRONMENTAL CONFEDERATION
OF SOUTHWEST FLORIDA, INC.**

June 21, 2021

1 **I. INTRODUCTION AND OVERVIEW**

2 **Q. Please state your name, business name, and address.**

3 A. My name is Karl R. Rábago. I am the principal of Rábago Energy LLC, a Colorado
4 limited liability company, located at 2025 E. 24th Avenue, Denver, Colorado.

5 **Q. On whose behalf are you appearing in this proceeding?**

6 A. I appear here in my capacity as an expert witness on behalf of Florida Rising, Inc.
7 (“FL Rising”), the League of United Latin American Citizens of Florida (“LULAC”),
8 and the Environmental Confederation of Southwest Florida, Inc. (“ECOSWF”).

9 **Q. Please summarize your experience and expertise in the field of electric utility
10 regulation.**

11 A. I have worked for more than 30 years in the electricity industry and related fields. I
12 am actively involved in a wide range of electric utility issues across the United States.
13 My previous employment experience includes Commissioner with the Public Utility
14 Commission of Texas, Deputy Assistant Secretary with the U.S. Department of
15 Energy, Vice President with Austin Energy, Executive Director of the Pace Energy
16 and Climate Center, Managing Director with the Rocky Mountain Institute, and
17 Director with AES Corporation, among others. A detailed resume is attached as
18 Exhibit KRR-1.

19 **Q. Have you ever testified before the Florida Public Service Commission
20 (“Commission”) or other regulatory agencies?**

21 A. I have submitted testimony before the Commission in the past in several proceedings,
22 including the Florida Energy Efficiency and Conservation Act (“FEECA”)
23 proceedings in 2014 (Docket Nos. 130199-EI, 130200-EI, 130201-EI, and 130202-
24 EI), the Florida Power & Light need determination case for the Okeechobee Plant
25 (Docket No. 150166-EI), the Gulf Power general rate case in 2017 (Docket No.

1 160186-EI), and the Duke Energy Florida “clean energy connection” program
2 application (Docket No. 20200176-EI). In the past six years, I have submitted
3 testimony, comments, or presentations in proceedings in Alabama, Arkansas,
4 Arizona, California, Colorado, Connecticut, District of Columbia, Florida, Georgia,
5 Guam, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Massachusetts,
6 Michigan, Minnesota, Mississippi, Missouri, Nevada, New Hampshire, New York,
7 North Carolina, Ohio, Pennsylvania, Puerto Rico, Rhode Island, Vermont, Virginia,
8 Washington, and Wisconsin. I have also testified before the U.S. Congress and have
9 been a participant in comments and briefs filed at several federal agencies and courts.
10 A listing of my previous testimony is attached as Exhibit KRR-2.

11 **Q. What is the purpose of your testimony?**

12 A. The purpose of my testimony is to share my evaluation of the proposal for rate
13 increases, resource investments, plant retirements, and other requests submitted by
14 Florida Power and Light (“the Company”) in this proceeding. I will address several
15 ways in which the financial burdens and hardships that the Company seeks to impose
16 on its customers and the environment can be lessened to ensure fair, just, and
17 reasonable rates flow from this proceeding.

18 **Q. How would you characterize, at a high level, the Company’s proposals in this
19 proceeding?**

20 A. The Company proposes rate changes and other actions that unnecessarily,
21 unreasonably, and unjustly seek to enrich its stockholders at the expense of its
22 customers and the environment. The Company’s application proposes a four-year rate
23 plan covering the years 2022-2025 and includes proposals for nearly \$2 billion in
24 additions to base revenue requirements due to capital spending in 2022 and after
25 accounting adjustment results in \$1.1 billion in new revenue requirements.¹ The

1 Company further proposes to add another \$616 million in revenue requirement
2 related to capital spending and an additional \$607 million in net revenue requirement
3 increases in 2023. A major factor driving rate and cost increases, and proposed
4 shareholder profits, is an unreasonable request for an 11.5% return on equity (“ROE”)
5 and an equity ratio of over 59%, at a time when industry ROEs are trending below
6 10% and the cost of debt is very low. In several other ways, the Company proposes to
7 make itself a haven for overearning, including proposals for authority to continue to
8 manipulate amortization schedules in order to ensure continued maximum earned
9 ROE; for an unearned ROE bonus for “performance;” for a significant reduction in
10 the compensation paid for cost-effective demand response incentives; for a massive
11 transmission project that is called the “North Florida Resiliency Connection,” which
12 will cost customers nearly \$722 million dollars and mostly be used to transfer excess
13 FPL energy to newly acquired Gulf Power customers, but not to reduce the excessive
14 20% reserve margin in the Company’s service territory; for massive spending on
15 rebuilding the large-scale electric transmission system in general; and even for a
16 reduction in the inverted block rate increase for very high users of electricity.

17 **Q. What law and regulatory precedent guides the Commission decision in this**
18 **matter?**

19 A. Under Florida law,² no utility may charge or receive, directly or indirectly, any rate
20 that is unfair, unjust, or unreasonable. No utility may make or give any undue or
21 unreasonable preference or advantage to any person or locality or subject any person
22 to undue or unreasonable prejudice or disadvantage. In short, Florida law charges the
23 Commission with approving only those rates that are fair, reasonable, and just. In
24 setting rates, the Commission must investigate and determine the actual legitimate
25 costs of utility investments actually used and useful in the public service.

1 **Q. What specific elements of the Company’s proposals do you address in this**
2 **testimony?**

3 A. My testimony focuses on a few key issues of greatest significance to FL Rising,
4 ECOSWF, and LULAC. Those are proposals by the Company to increase rates and
5 charges that the organizations and their members will have to pay for electric service
6 over the term of the proposed rates. The issues addressed are:

- 7 • The proposed return on equity.
- 8 • The proposed capital structure, particularly equity ratio.
- 9 • The proposal for a return on equity increase based on “performance.”
- 10 • Key proposals for new capital spending, including proposals to charge customers
11 for uneconomic and retired generation, especially considering financial risk and
12 forecast data.
- 13 • The proposal to continue and accelerate investment in risky fossil-fueled
14 generation.
- 15 • The proposal to further weaken demand response program incentives.
- 16 • The proposal to charge customers nearly \$3 million each year for political speech
17 conducted by the Edison Electric Institute (“EEI”).

18 My testimony summarizes these issues with findings and conclusions that the
19 Company’s proposed rates, charges, spending, and other actions fail to satisfy the
20 requirement for being fair, just, and reasonable.

21 **Q. Company witness Silagy asserts that the Company is an above average utility**
22 **whose customers pay below average bills due to low rates and low costs.³ Doesn’t**
23 **this rebut your assertion that Company proposals in this proceeding will result**
24 **in rates that are unjust, unfair, and unreasonable?**

25 A. No. Witness Silagy relies on misleading statistical sleight of hand to support his

1 assertions about low Company bills. He consistently bases his assertions on the
 2 completely unrealistic and false assumption that the average customer for every
 3 utility uses an average 1,000 kWh per month.⁴ When corrected for actual average
 4 usage and using Energy Information Administration (“EIA”) data on revenue per
 5 customer in 2019, FPL’s performance in terms of residential customer bills is
 6 decidedly below average when compared to other large investor-owned utilities.

7 **Table 1: Residential Rate Comparison**

8 *Source: EIA Form EIA-861 Report (2019 data)*

Residential TCC-5	Revenue (\$/kWh) <i>EIA Rev Data</i>	Avg Monthly Use <i>EIA Data</i>	Monthly "Bill" (Rev/Cust/Mo) <i>Calculated</i>
Public Svc Co of Colorado	\$ 0.1109	614	\$ 68
Commonwealth Edison	\$ 0.1330	583	\$ 78
Niagara Mohawk	\$ 0.1254	624	\$ 78
Northern States Power - Minn	\$ 0.1362	615	\$ 84
Southern Calif Edison	\$ 0.1621	573	\$ 93
Public Svc Gas & Elec	\$ 0.1670	560	\$ 94
Consolidated Edison	\$ 0.2530	372	\$ 94
San Diego Gas & Elec	\$ 0.2578	384	\$ 99
Detroit Edison	\$ 0.1611	627	\$ 101
Consumers Energy	\$ 0.1585	646	\$ 102
Union Electric	\$ 0.1038	1057	\$ 110
Pacific Gas & Elec	\$ 0.2235	528	\$ 118
Florida Power & Light	\$ 0.1103	1119	\$ 123
Georgia Pwr	\$ 0.1210	1050	\$ 127
Duke Energy - SC	\$ 0.1148	1108	\$ 127
Duke Energy - NC	\$ 0.1183	1101	\$ 130
Arizona Public Svc	\$ 0.1360	978	\$ 133
Virginia Elec Power	\$ 0.1206	1107	\$ 134
Duke Energy - FL	\$ 0.1362	1065	\$ 145
Alabama Pwr	\$ 0.1341	1188	\$ 159
Average of Large IOUs	\$ 0.1492	795	\$ 109.85

19 In addition, the Company’s performance against indicators like heat rate, forced
 20 outage rate, and avoided non-fuel O&M, as well as conventional system-wide
 21 reliability metrics like SAIDI⁵ can likely be explained at least in part by the
 22 Company’s continued pattern of building power plants only to retire them before the
 23 end of their useful lives, build too many of them, and maintain an uneconomic and
 24 unreasonable 20% reserve margin. Not surprisingly, the Company’s generation
 25 overbuilding yields loss of load probability (“LOLP”) statistics that show uneconomic

1 excess as well. According to the Company, its LOLP in 2023 is such that an
2 occurrence of lost load is likely only once every 100,000+ years.⁶ At the very least,
3 the capital investment-driven revenue requirement burden imposed on customers as a
4 result of such spending should be evaluated for whether such costs outweigh the
5 purported operational and reliability benefits obtained. Finally, when the Company
6 asserts that long-run savings, in the form of Cumulative Present Value of Revenue
7 Requirements (“CPVRR”) numbers are significant, such benefits must be evaluated
8 in light of amortization period adjustments, early retirements, and issues of
9 intergenerational equity.⁷

10 **Q. You are implying that current impacts on actual residential customer bills**
11 **calculated from actual usage levels should be an important factor in evaluating**
12 **the Company’s performance and the rates, programs, adjustments, and**
13 **spending it is proposing. Why are current and actual bill impacts important?**

14 A. Current and actual residential bill impacts are not the only factor for consideration in
15 setting rates, to be sure, but they are critically important today and to the members
16 and organizations on whose behalf I am testifying. Some of the reasons that these
17 impacts are so important include:

- 18 • Florida and the nation are just beginning to emerge from a global pandemic that
19 has had profound impacts on household budgets in terms of both costs and
20 income. The recovery is far from complete and many customers are still hurting.
21 This is a poor time to inflict additional burdens through rate increases.
- 22 • Millions of Floridians live in poverty and in households where the average
23 income is so low that they face a significant energy burden that will be made
24 worse by the increases in bills proposed in this proceeding.⁸
- 25 • The way in which the Company proposes to implement the rate increases in this

1 case imposes more burden on low users of electricity than on high electricity
2 users. Low users of electricity in Florida are more likely to be low-income
3 customers, members of minority races or ethnic groups, or elderly, so the impacts
4 of the rate increases are felt most by those least able to bear the added burden.⁹

- 5 • Rate increases required to pay for polluting fossil-fueled power plants constitute a
6 significant opportunity cost for society and customers as well. Building new and
7 refurbishing old fossil plants consumes capital that could be directed toward
8 accelerating a clean energy transition. Of course, such plants represent long-run
9 costs and increasing risks of stranded costs as well.

10 **Q. Please summarize your recommendations based on your findings.**

11 A. Based on my review of the evidence relating to the topics previously listed, I
12 recommend that the Commission deny the Company's petition and direct it to refile
13 after having addressed the problems cited in this testimony. On the specific issues, I
14 offer the following recommendations to the Commission:

15 *Return on Equity and Capital Structure*

- 16 • The Commission should allow the Company to earn a return on equity of no more
17 than 10.00%, centered in a 200-basis point range of 9.00% to 11.00%.
- 18 • The Commission should deny the Company's proposal for a performance adder of
19 50 basis points on the return on equity.
- 20 • The Commission should allow the Company to adopt a capital structure with an
21 equity ratio no higher than 52.93%.

22 *Capital Spending and Plant Retirements*

- 23 • The Commission should deny the proposal to construct the four combustion
24 turbine units (Crist 4x0 CT – 938 MW) and require a full cost-effectiveness
25 analysis, including evaluation of non-fossil and non-generation alternatives,

1 including non-utility alternatives.

2 • The Commission should deny the proposal to construct the NFRC transmission
3 project and require a full cost-effectiveness analysis, including evaluation of non-
4 wires and non-utility solutions that can avoid or delay the need for the capacity
5 provided by the project.

6 • The Commission should deny the proposal to implement the hydrogen project.

7 • The Commission should deny the proposal to approve regulatory asset treatment
8 for remaining book balances on retired generation and require the Company to
9 conduct full cost-effectiveness evaluation for each proposed retirement and to
10 demonstrate that it is fair, just, and reasonable to charge customers the full cost of
11 facilities that are no longer used and useful.

12 • The Commission should deny the Company proposal to extend the amortization
13 periods for nuclear, combined cycle, solar, and other assets and the proposal to
14 continue the RSAM process for manipulating depreciation expenses and earnings.

15 *CDR/CILC Program and Energy Efficiency*

16 • The Commission should deny the Company proposal to reduce the compensation
17 rate for the CDR and CILC programs and order the Company to aggressively
18 pursue program enrollment growth.

19 • The Commission should order the Company to develop strong energy savings
20 targets even before the next FEECA proceeding and especially as a resource that
21 can avoid, reduce, or delay new generation, transmission, and distribution
22 infrastructure.

23 • The Commission order the Company to also develop specific targets for delivery
24 of comprehensive programs to low-income and other underserved customer
25 categories, such as small businesses as a pre-condition for any kind of

1 performance incentive.

2 • The Commission should direct the Company to stop relying on the RIM as the
3 primary screen for energy efficiency cost effectiveness and to instead use the
4 utility cost test for utility proposals as a pre-condition for any kind of performance
5 incentive.

6 • The Commission should direct the Company not to use a two-year payback screen
7 on energy efficiency programs evaluated for delivery to customers as a pre-
8 condition for any kind of performance incentive.

9 *Forcing Customers to Pay for EEI's Political Speech*

10 • The Commission should deny the Company proposal to recover EEI dues from
11 customers absent an evidentiary showing that the dues are entirely used to
12 advance the interests of customers and do not involve any form of political
13 speech.

14 **II. RETURN ON EQUITY AND CAPITAL STRUCTURE**

15 **Q. What amount does the Company propose it should receive as a return on equity**
16 **in this proceeding, and what fraction of the capital structure does it propose that**
17 **equity should comprise?**

18 A. The Company proposes a retail regulatory ROE midpoint for FPL of 11.5%, which
19 includes a “performance incentive” of 50 basis points.¹⁰ In 2023, the Company
20 proposes a revenue requirement increase to ensure that the earned ROE remains at
21 11.5% even as new capital investments are made.¹¹ The Company proposes an equity
22 ratio of 59.6%.¹²

23 **Q. How do the 11.5% ROE and 59.6% equity ratio requests square with experience**
24 **across the U.S.?**

25 A. The Edison Electric Institute’s (“EEI”) Annual Financial Review for 2020 reports that

1 across 2019 and 2020, equity comprised about 44% of capital structure while debt
2 constituted 56%.¹³ Regarding ROE, EEI reports:

3 For 2020, the average awarded ROE was 9.43%, continuing a negative trend.
4 By way of comparison, for 2019, the average awarded ROE was 9.64%. On
5 average, awarded ROE in 2020 was approximately 30 basis points lower than
6 the average requested ROE. Consistent with declining interest rates, average
7 awarded ROEs have been trending downward for the electric industry over the
8 past four decades. In addition, the increased use of adjustment and cost
9 recovery mechanisms, which arguably reduce risk of recovery for utilities,
10 have often been cited by commissions as contributing to lower authorized
11 ROEs. Going forward, it is reasonable to expect that ROEs will remain lower
12 due to the sustained low interest rate environment combined with current
13 economic conditions as a result of the pandemic.¹⁴

14 **Q. How does the Company justify a request so out of step with utility industry**
15 **conditions?**

16 A. The Company relies upon testimony by witness James M. Coyne to support a
17 proposal of an 11.0% ROE level and the additional testimony of witness Robert E.
18 Barrett for an inflator of 0.5% based on Company performance. Mr. Coyne's
19 testimony uses four kinds of analysis, simply averaged, to support his proposal.¹⁵
20 Two of Mr. Coyne's methods yielded ROEs that were relatively in line with the EEI
21 data—the DCF method yielded an ROE of 9.29%, and the Risk Premium method
22 yielded an ROE of 9.88%. Instead of reporting and averaging the awarded ROEs for
23 utilities in the proxy group of companies developed for the evaluation, Mr. Coyne
24 developed an “expected earnings” method that showed an average of 10.22%. Mr.
25 Coyne's CAPM method resulted in an unbelievably high 14.17% ROE, which

1 distorted the average results. Simply averaging the DCF and Risk Premium
2 approaches results in a much more reasonable starting point of 9.585%, which is in
3 line with industry experience. Even adding in Mr. Coyne's expected earned ROE
4 results in an ROE of 9.79%.¹⁶ It is important to note that the recent Duke Energy
5 Florida general rate case resulted in a very reasonable ROE of 9.85%, which is well
6 aligned with these values, and the Commission order finding that this ROE resulted in
7 rates that were fair, just, and reasonable, was just issued on June 4, 2021.¹⁷

8 Mr. Coyne found the proposed 59.6% equity ratio was "the upper end" of a
9 range of actual common equity ratios for proxy group companies that ran from
10 46.91% to 58.95%.¹⁸ The proxy group midpoint, not counting the Company, is
11 52.93%, or about 6.67% lower than the Company's proposed ratio. Mr. Coyne
12 tautologically justifies the Company's equity ratio by referencing the large amount of
13 capital investment the Company plans to make. In addition, Mr. Coyne believes the
14 higher equity ratio is justified by the risk associated with nuclear plant assets and
15 storms.¹⁹

16 **Q. Mr. Coyne also asserts that the Company faces more risks that other companies**
17 **and that this should be a factor in awarding a higher ROE.²⁰ Do you agree with**
18 **his testimony on this issue?**

19 A. No. Mr. Coyne stretches logic and reason to paint a picture of the Company as a risky
20 utility operating in a risky environment and therefore needing a high ROE to attract
21 capital. First, he points to the Company's excessive capital investment program as
22 creating a risk, noting that the Company's capital expenditures to net utility plant
23 ratio is the highest by far among the proxy companies and 1.46 times higher than the
24 proxy group median. This is a reason to both decrease the ROE and the capital spend,
25 not increase both. Second, Mr. Coyne finds the Company's ownership of nuclear

1 generating assets a relative risk increaser, even though the majority of companies in
2 the proxy group have nuclear assets in their generation mix, and to the same general
3 degree. Mr. Coyne finds the Company's exposure to severe weather another risk
4 increaser. Setting aside the irony of the Company's history of greenhouse gas
5 emissions and efforts to expand its fossil generation fleet even in this proceeding, the
6 fact is that the Company benefits from a legislated cost recovery account that ensures
7 timely and full recovery of prudently incurred storm recovery costs. With the storm
8 hardening mandate and the storm recovery cost mechanism, even though severe
9 weather is likely for Florida, the Company's exposure to financial threats as a result is
10 largely in the Company's hands. Mr. Coyne also finds that the Company is choosing
11 to take on additional risk with its proposal for a multi-year rate plan. As I point out in
12 this testimony, the multi-year rate plan does not create a significant negative financial
13 risk for the Company or its shareholders. In all, Mr. Coyne fails to make a case for a
14 higher ROE for the Company based on risk.

15 **Q. How does the Company justify the performance adder of 50 additional basis**
16 **points of ROE on all rate base for the next four years?**

17 A. Company witness Barrett provides a list of reasons why he believes the Company
18 should be allowed to earn 50 extra basis points of earnings on its rate base, including
19 the massive new investments proposed.²¹ These reasons relate to things that have
20 happened in the past and are not conditioned on any future performance. These
21 reasons are not indexed against performance criteria set out prior to the activities.
22 And, as previously stated, many of the cited reasons could well be the secondary
23 result of excessive plant investments and early retirements of uneconomic plants and
24 unwise prior investment decisions. Mr. Barrett cites low operating costs—which
25 would be expected with a younger generation fleet. Mr. Barrett cites reduced

1 emissions, which are related to replacing coal units with new gas units—which
2 constitute the majority of the Company’s generation and would be expected to have
3 higher efficiency rates than gas plants at utilities that never invested in coal or retired
4 such plants years ago. The development of new solar plants in very recent years has
5 also had a small impact on past emissions rates. The young fleet of generation, which
6 resulted in ballooning rate base and merely average resulting customer bills, likely
7 drives good reliability numbers, as does overbuilding to a 20% reserve margin. But
8 the capital cost of these performance metrics was not analyzed.

9 **Q. Are you opposed to ROE adders based on superior performance?**

10 A. Absolutely not. But given the burdens imposed on customers because of increased
11 rates, such rewards to shareholders must be conditioned on meeting identified
12 performance objectives set out in advance, with performance measured against clear
13 and objective metrics. In addition, the Company must demonstrate net benefits to
14 customers against total costs and must demonstrate that actions it took resulted in the
15 realization of the benefits. The Company’s proposed basis for the ROE enhancement
16 is simply too subjective.

17 **Q. What ROE do you recommend that the Commission approve for the Company?**

18 A. I would recommend an ROE based on the average of Mr. Coyne’s method excluding
19 the outlier CAPM model he applied, and when adjusting for gradualism and flotation
20 costs, I recommend an ROE of no more than 10.00% and without any performance
21 adder. Company witness Barrett provides a list of reasons why he believes the
22 Company should be allowed to earn 50 extra basis points of earnings on its rate base,
23 including the massive new investments proposed.²² These reasons relate to things that
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19 realization of the benefits. The Company’s proposed basis for the ROE enhancement
20 is simply too subjective.

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22 A. I would recommend an ROE based on the average of Mr. Coyne’s method excluding
23 the outlier CAPM model he applied, and when adjusting for gradualism and flotation
24 costs, I recommend an ROE at 10.00% and without any performance adder.

25 **Q. What equity ratio do you recommend that the Commission approve?**

1 A. I recommend an equity ratio aligned with the midpoint of the proxy group, at 52.93%.
2 There is no good reason to support a higher equity ratio and over-earning by the
3 Company at the expense of rate payers, especially in an era of consistently low cost of
4 debt.

5 **Q. What are the impacts of the adjustments to ROE and equity ratio you would**
6 **propose in terms of revenue requirement?**

7 A. Because of the large rate base in place and the significant proposals for rate base
8 growth, the impact of a lower ROE and equity ratio would be great for residential
9 customers. The Company indicates that for every reduction of 10 basis points (1/100th
10 of a percent), the revenue requirement is reduced by three-quarters of one percent
11 (0.75%).²³ This means that adjustments to the ROE and equity ratio to make them
12 more just and reasonable can significantly reduce the rate impact of proposed
13 spending and investment by the Company. Moreover, when the unreasonable
14 spending proposals by the Company are eliminated and ROE and equity ratio are
15 corrected, the Commission could actually order a decrease in customer rates for FPL
16 customers.

17 **Q. Have you quantified the revenue requirement reductions that can result from**
18 **the setting of more reasonable values for the Company's ROE and equity ratio?**

19 A. Yes. When the Company revenue requirement is recalculated with only the equity
20 ratio changed to 52.93%, the revenue requirement drops by \$316 million dollars
21 (28.5%) with the Reserve Surplus Amortization Mechanism ("RSAM") in place, and
22 a similar amount without the RSAM. As I will testify later, the Commission should
23 deny the Company proposal to continue the RSAM for several reasons, so it is
24 important to note that simply adjusting the equity ratio to a more reasonable 52.93%
25 produces revenue requirement savings that are far greater than the short-term savings

1 (with long-term consequences) created by the RSAM.

2 When both a more reasonable 52.93% equity ratio cap and 10.0% ROE cap are used,
 3 the revenue requirement falls by more than 70% from the Company request, or \$793
 4 million, to \$315 million under the RSAM, and to \$520 million without the RSAM.

5 Finally, it is worth noting that if the Commission were simply grant the
 6 Company the same ROE as awarded to Duke Energy Florida (9.85%), the revenue
 7 requirement with the RSAM would fall by more than half of the FPL request, or \$580
 8 million, to \$529 million with the RSAM, and by \$589 million to \$722 million without
 9 the RSAM.

10 Table 2: Revenue Requirement with Changes in Equity Ratio and ROE

Scenario	Equity Ratio	ROE	Revenue Requirement	Savings vs. FPL Proposal	Percent Reduction
<i>With RSAM</i>					
As Requested by FPL	59.60%	11.50%	\$ 1,108,442	\$ -	0.0%
Rábago Recommended Not-to-Exceed Equity Ratio	52.93%	11.50%	\$ 792,101	\$ (316,341)	-28.5%
Rábago Recommended Not-to-Exceed Equity Ratio & ROE	52.93%	10.00%	\$ 315,614	\$ (792,828)	-71.5%
Recommended Equity Ratio w Duke ROE	52.93%	9.85%	\$ 267,966	\$ (840,476)	-75.8%
FPL Request Equity Ratio w Duke ROE	59.60%	9.85%	\$ 528,925	\$ (579,517)	-52.3%
<i>Without RSAM</i>					
As Requested by FPL	59.60%	11.50%	\$ 1,310,999	\$ -	0.0%
Recommended Not-to-Exceed Equity Ratio Rábago	52.93%	11.50%	\$ 995,336	\$ (315,663)	-24.1%
Recommend Not-to-Exceed Rábago	52.93%	10.00%	\$ 519,875	\$ (791,124)	-60.3%
Recommended Equity Ratio w Duke ROE	52.93%	9.85%	\$ 473,123	\$ (837,876)	-63.9%
FPL Request Equity Ratio w Duke ROE	59.60%	9.85%	\$ 722,019	\$ (588,980)	-44.9%

21 **III. CAPITAL SPENDING AND PLANT RETIREMENTS**

22 **Q. What kinds of significant capital spending does the Company propose?**

23 A. The Company proposes to build several new plants, including new fossil-fired plants
 24 and to convert or upgrade additional fossil-fired power plants during the rate period.

25

Results of the Current Step 3 Analyses

FPL Area Retirements / Additions	Gulf Area Retirements / Additions	Year	FPL Area Resource Additions	Gulf Area Resource Additions	RM%
1,043 MW Solar OUC PPA (100 MW) Indianiown PPA (330 MW)	---	2021	--	--	*
Manatee & Smaller Batteries (469 MW), DBEC (1,163 MW), Manatee 1&2 (1,618 MW), Scherer 4 (634 MW)	NFRC Line Crist 4x0 CT (938 MW) 149 MW Solar	2022	447 MW Solar	--	25.5
---	Shell PPA (885 MW)	2023	372.5 MW Solar	372.5 MW Solar	21.6
---	Daniel 1&2 (502 MW)	2024	521.5 MW Solar	372.5 MW Solar	20.0
---	Crist 4 (75 MW), Pea Ridge (12 MW)	2025	521.5 MW Solar	372.5 MW Solar	20.1
---	---	2026	894 MW Solar	74.5 MW Solar	20.0
Broward South (4 MW)	Crist 5 (75 MW)	2027	968.5 MW Solar	--	20.0
---	Lansing Smith A (32 MW)	2028	1,192 MW Solar	--	20.0
---	---	2029	1,043 MW Solar, 3 x 100 MW Battery	149 MW Solar	20.0
---	Perdido 1&2 (3 MW)	2030	968.5 MW Solar, 1 x 100 MW Battery	223.5 MW Solar 3 x 100 MW Battery	20.0
Step 3 CPVRR Cost =				81,942	
FPL Stand-Alone + Gulf in Step 2 CPVRR =				82,230	
CPVRR Cost Difference from Step 2 =				(288)	

Notes:

CPVRR costs are in million \$ and are discounted at 7.52% from 2020-2068 (Gulf Step 2 CPVRR was re-calculated with a 7.52% discount rate)

The recalculated CPVRR for Gulf in Step 2 is \$7,474M (Not including NFRC line costs)

Cost of the NFRC line project was omitted from these CPVRR calculations because that cost is the same in Steps 2 and 3

* - Each system (FPL and Gulf) has its own separate reserve margin in 2021

Results of

While new solar facilities are expected to result in net savings over their useful lives, the Company proposes amortization adjustments for these plants that will extend the time over which customers will be on the hook for revenue requirements as well as the total cost they will have to pay to the utility. The Company proposes that customers also pay for the book balance value of uneconomic power plants that the Company constructed in the past and now seeks to retire—plants that will no longer be used and useful in public service. Company witness Sim set out the incremental plant build (including the North Florida Resiliency Connection (“NFRC”)) and retirement plans in his testimony, reflecting some \$82 billion in Cumulative Present Value Revenue Requirements (“CPVRR”) out to the year 2068.²⁴

Q. Do you have any concerns about how the Company justifies its proposals?

A. Witness Sim used a computer model to generate the plans and provided summary outputs like the table above. The proposal to add nearly a gigawatt (938 MW) of new combustion turbines at the Crist site in 2022 has not been reviewed in any prior

1 proceeding but appears to have been necessitated by the fact that the new NFRC line
2 creates a new single-contingency risk relating to power transfers from the FPL service
3 territory to the Gulf Power service territory.²⁵ The acceleration of the commissioning
4 date for those plants adds about \$60 million in CPVRR that customers will have to
5 pay.²⁶ In addition, the Company seeks the Commission's approval for a Solar Base
6 Rate Adjustment mechanism to recover about \$560 million in costs associated with
7 about 1,800 MW of new solar facilities to be built in 2024 and 2025.²⁷ The Company
8 is also proposing costly upgrades to existing combined cycle units (including Lansing
9 Smith) and conversion of coal units at the Crist facility. These projects have not been
10 subject to any review in any other proceeding prior to this case.²⁸ Finally, the
11 Company proposes to spend an additional \$65 million on a hydrogen project aimed at
12 making hydrogen with solar energy to be blended with methane gas to burn in a
13 power plant starting in 2023.²⁹ Taken together, these proposals are about the
14 Company moving ahead with large and expensive projects which add to rates and
15 without transparent planning processes and meaningful opportunities to review costs
16 and alternatives. The computer modeling processes are essentially black box
17 exercises and even though the model identified optimal in-service dates of 2024 and
18 2025 for the new gas plants, the Company accelerated the timetable and the pollution
19 from those plants without any additional analysis or consideration of alternatives.³⁰
20 Cost-effectiveness analysis was not performed on the proposed plant additions.³¹ The
21 fact that the timetable was accelerated to mitigate the risk of a failure of the NFRC
22 line raises serious questions about the wisdom of building yet another large
23 transmission line in a storm-prone state. More solar generation means more clean
24 energy, but the use of a base rate adjustment mechanism limits prudence review to
25 after-the-fact review that will not occur in the context of a full rate case. The proposal

1 to use a cost cap in the adjustment mechanism creates an incentive to maximize
2 spending under the cap. The hydrogen pilot project seems an expensive first step that
3 should be subject to a more transparent review process.

4 **Q. Do you have any additional comments to offer about the Company's proposed**
5 **hydrogen project?**

6 A. Yes. At one point in my career, I led the U.S. DOE hydrogen program, and
7 subsequently at the Houston Advanced Research Center, I led a hydrogen
8 demonstration project. Since that time, I have stayed abreast of hydrogen energy
9 technology and market developments. Hydrogen is an interesting energy carrier
10 option for specialized market and technology segments, but it is not a reasonable or
11 economic option for large-scale energy systems and facilities like gigawatt-scale
12 power plants. The Company's so-called "Green Hydrogen" project is interesting as an
13 academic exercise but not as an electric utility project in light of the immense amount
14 of technical and industrial research and development that remains to be done before
15 huge amounts of electricity, paid for by captive monopoly customers, are diverted to
16 what is essentially a fuels production research project. Current technologies for
17 electrolysis are extravagantly expensive and consume huge amounts of electricity,
18 meaning the net energy value of the hydrogen is negative and the total system costs of
19 producing hydrogen to blend into a fossil methane pipeline and plant amounts to the
20 application of a luxury energy carrier to a commodity energy construct.
21 Demonstrating that bulk quantities of hydrogen inefficiently generated through
22 energy-intense electrolysis processes can be combusted in a facility designed for
23 fossil methane combustion is not a prudent use of customer dollars at a time when so
24 many customers face extreme household financial challenges.
25 Hydrogen is much better suited to distributed energy resource applications and is

1 already cost-effective in many such applications—the Company should focus on
2 identifying those opportunities. A less expensive and more cost-effective overall
3 option for the Company’s customers and a more responsible use of customer revenues
4 would be participation in research consortiums focused on deployment and
5 demonstration of small-scale hydrogen energy projects. Rather than going down a
6 path of overbuilding the generation fleet and inefficiently consuming valuable solar
7 facility production, the Company should focus on exploiting hydrogen’s strengths as
8 an energy carrier for distributed energy resource applications.

9 **Q. What are your concerns about the way that the Company proposes to handle**
10 **plant retirements?**

11 A. My first concern is that the Company is proposing, as shown in the figure reproduced
12 from Company witness Sim’s testimony above, thousands of MW worth of plant
13 retirements over the period 2021 through 2030 and that in each case, the Company is
14 also proposing that any undepreciated book value remaining on those plants will be
15 converted into a regulatory asset spread over 10 years to be collected from customers
16 in rates even though the plants are not generating a single unit of energy. That is,
17 customers will be forced to pay for costs associated with plants that are not used and
18 useful for public service, were demonstrably uneconomic when retired, and may well
19 have been unreasonable investments when first constructed. According to the
20 testimony of Company witness Fuentes, these costs for retired plant will create \$110
21 million in amortization expense in 2022 and \$120 million in expense in 2023, and in
22 each year for many years after.³² The amount of such expenses will increase as more
23 plants are retired, and the unamortized balances will earn a return for the Company
24 each year. My second concern is what the volume of plant retirements says about the
25 Company’s planning processes and its approach to seeking least cost pathways to

1 providing service to customers.

2 **Q. Are you opposed to the retirement of uneconomic generation plants?**

3 A. Absolutely not. My concern is with the incentives the Company faces to constantly
4 refresh its rate base with new generation plants if the Company never faces any real
5 financial consequences for building power plants that become obsolete or
6 uneconomic long before the end of their useful lives. Again, this is also an issue of
7 planning and the aggressive pursuit of new plant construction without serious
8 consideration of more cost-effective options. The Company should bear some of the
9 risk associated with costs of uneconomic resources, especially if those costs arise due
10 to poor planning decisions or insufficient consideration of cost-effective alternatives.

11 **Q. Do you have any other concerns with the creation of regulatory assets and
12 amortization of remaining book value of retired plants?**

13 A. Yes. The Company has proposed that the Commission approve a continuation of the
14 highly lucrative RSAM, which creates an amortization reserve that can be treated like
15 a bank account to record debits or credits to depreciation expense to maximize returns
16 for shareholders. So, while the Company proposes an ROE range of 10.5% to 12.5%
17 with a midpoint at 11.5%,³³ by manipulating depreciation expenses with the proposed
18 RSAM, it is really setting itself up for grossly overearning at a guaranteed 12.5%
19 return in each year of the proposed multi-year rate plan.³⁴ And the RSAM approach
20 potentially creates additional problems for customers down the road. A key
21 component of the RSAM is the adjustment of depreciation rates through the extension
22 of asset depreciation lives. In this case, the Company proposes a 33% extension to the
23 useful life the St. Lucie nuclear plant, for which a license extension has not yet been
24 granted; a 25% increase in the useful life of combined cycle plants, based on the
25 experience with exactly one combined cycle plant operating in Oklahoma;³⁵ and other

1 adjustments. This creates the potential of even greater remaining book value when a
2 plant becomes uneconomic, adding more to customer costs for plants that are not used
3 and useful. Alternatively, a large remaining book value could unreasonably delay the
4 cost-effective retirement of uneconomic plants.

5 **Q. What do you recommend the Commission do regarding the Company's capital**
6 **spending and plant retirement proposals?**

7 A. The overarching flaw in the Company's capital spending and plant retirements
8 proposals is the lack of transparent, objective, and comprehensive cost-effectiveness
9 evaluation—the proposals are not adequately justified. Therefore, I recommend that:

- 10 • The Commission should deny the proposal to construct the four combustion
11 turbine units (Crist 4x0 CT – 938 MW) and require a full cost-effectiveness
12 analysis, including evaluation of non-fossil and non-generation alternatives,
13 including non-utility alternatives.
- 14 • The Commission should deny the proposal to construct the NFRC transmission
15 project and require a full cost-effectiveness analysis, including evaluation of non-
16 wires and non-utility solutions that can avoid or delay the need for the capacity
17 provided by the project.
- 18 • The Commission should deny the proposals for upgrades and conversions of
19 existing plants Lansing Smith and Crist (among others) and require a full
20 • cost-effectiveness analysis, including evaluation of non-fossil and non-generation
21 alternatives, including non-utility alternatives.
- 22 • The Commission should deny the proposal to implement the hydrogen project.
- 23 • The Commission should deny the proposal to approve regulatory asset
24 treatment for remaining book balances on retired generation and require the
25 Company to conduct full cost-effectiveness evaluation for each proposed

- 1 retirement and to demonstrate that it is fair, just, and reasonable to charge
2 customers the full cost of facilities that are no longer used and useful.
- 3 • The Commission should deny the Company proposal to extend the amortization
4 periods for nuclear, combined cycle, solar, and other assets and the proposal to
5 continue the RSAM process for manipulating depreciation expenses and earnings.

6 **IV. EFFICIENT ENERGY USE AND THE COMMERCIAL/INDUSTRIAL**
7 **DEMAND REDUCTION (“CDR”) PROGRAM AND**
8 **COMMERCIAL/INDUSTRIAL LOAD CONTROL (“CILC”) PROGRAM**
9 **COMPENSATION**

10 **Q. What is the Company proposing regarding the compensation rates for load**
11 **reductions achieved through the CDR and CILC programs?**

12 A. The Company, through its witness Steven R. Sim, is proposing a 33% reduction in the
13 compensation rate paid to commercial and industrial customers for making load
14 available for interruption or reduction to reduce system demand.³⁶ While the witness
15 provides charts and tables and many words of testimony, the bottom line is that the
16 Company unnecessarily proposes to undercut a cost-effective and valuable demand
17 response program based on the false premise that a ratepayer impact measure
18 (“RIM”) analysis provides any information about program cost-effectiveness at the
19 current compensation level.

20 **Q. Why do you say that the proposed compensation reduction is unreasonable?**

21 A. The problems with the specific proposal to reduce CDR and CILC compensation
22 levels are several. First, Company witness Sim inaccurately asserts that the RIM
23 analysis is a cost-effectiveness evaluation. It is not. In fact, even under a RIM
24 approach, the compensation level could be set at \$8.45—only slightly lower than the
25 current level—and still pass.³⁷ Second, Mr. Sim incorrectly asserts that the Total

1 Resource Cost test, under which the cost-effectiveness of the CDR program is an
2 astounding 49.36, does not account for utility costs.³⁸ It does.³⁹ Third, the Company
3 proposal will therefore likely reduce current and future participation in the demand
4 response programs and result in the need for more expensive peaking resources like
5 the four combustion turbines the Company proposes to add in 2022 without the
6 benefit of full evaluation of demand response alternatives. As pointed out by Mr. Sim,
7 the CDR and CILC programs have summer peak load capacity value of 814 MW,⁴⁰
8 while the benefit of integrating the FPL and Gulf Power service territories involving
9 expensive construction of the NFRC is only one-fourth as great, or 200 MW of
10 summer peak, out the year 2050.⁴¹ Fourth, the Company proposal marks another
11 disappointing chapter in the Company's war on cost-effective energy efficiency
12 program development and implementation.

13 **Q. What do you recommend regarding the compensation rate for the CDR and**
14 **CILC programs?**

15 A. The Commission should deny the Company proposal to reduce the compensation rate
16 for the CDR and CILC programs and order the Company to aggressively pursue
17 program enrollment growth.

18 **Q. How has the Company performed in developing and delivering energy efficiency**
19 **in Florida?**

20 A. Thanks in large part to the flawed and unreasonable approaches to utilization of the
21 energy efficiency resource in Florida advanced by the Company, Florida now stands
22 in a below-average position in energy efficiency among all the states. The national
23 expert organization American Council for an Energy-Efficient Economy ("ACEEE")
24 issued a report in January 2021 that characterizes Florida's energy efficiency
25 performance as "Unrealized Potential,"⁴² and notes that the state of Florida has fallen

1 to 27th place in the nation in energy efficiency performance as of 2020. Indeed,
2 among 52 of the nation's largest electric investor-owned utilities, the Company ranks
3 51st. Given the energy efficiency opportunities that the Company has chosen to ignore
4 and disserve in reducing system costs and reducing or avoiding costly generation and
5 infrastructure spending, these facts stand as clear rebuttal to the Company's assertion
6 that it deserves a 50 basis-point increase in its allowed ROE based on performance.
7 More importantly, by ignoring and underperforming in energy efficiency, the
8 Company is increasing rates, bills, and energy burdens for all its customers.

9 **Q. What are the major problems with the Company's approach to energy efficiency**
10 **in general?**

11 A. In addition to the ill-conceived proposal to slash the compensation rates for the CDR
12 and CILC programs, the Company has failed to realize the potential of energy
13 efficiency in several other ways as well. The small number of energy efficiency
14 programs offered to residential customers is about one-third the national average and
15 means that the Company does not have a range of efficiency options available to its
16 customers,⁴³ and while Florida utilities do offer specific income-qualified energy
17 efficiency programs, there is no mandated level of spending and savings.⁴⁴ Large
18 percentages of Florida households are energy burdened, some severely so, and
19 average burdens are higher for customers that are Black, Latinx, and elderly.⁴⁵ The
20 ACEEE white paper on Florida's energy efficiency performance points to the flaws
21 inherent in the state being the only state that still relies primarily on RIM analysis to
22 screen efficiency programs, applies an arbitrary two-year payback screen to eliminate
23 the most cost-effective measures, and continues the counter-productive practice of
24 treating all energy savings as lost revenues.⁴⁶ Fortunately, these problems can be
25 fixed with leadership by the Company. Indeed, there may even be an opportunity for

1 the Company to earn an increased ROE and generate savings for all customers
2 through aggressive pursuit of cost-effective energy efficiency.

3 **Q. What do you recommend that the Commission do regarding the Company's**
4 **proposal to reduce compensation rates for CDR and CILC programs and the**
5 **Company's general approach to energy efficiency?**

6 A. The Commission should deny the Company's CDR and CILC compensation
7 reduction proposal. In addition, only when FPL becomes an efficiency leader, not one
8 of the worst energy efficiency performers in the nation, will it be appropriate to
9 consider performance incentives. It is no coincidence that FPL employs so little
10 energy efficiency that despite low rates, FPL customers currently have higher-than-
11 average electric bills, and even higher still if FPL's proposed rate increase is
12 approved.

13 **V. PROPOSAL TO REQUIRE CUSTOMERS TO PAY FOR EEI'S POLITICAL**
14 **SPEECH THROUGH RATES**

15 **Q. Does the Company seek to charge customers for EEI dues through rates?**

16 A. Yes. The Company proposes to charge customers nearly \$2.8 million dollars per year
17 for dues the Company pays for membership in EEI.⁴⁷

18 **Q. Why is that an issue of concern?**

19 A. EEI is the nation's largest investor-owned utility trade association and a highly
20 political organization that directly and indirectly conducts and funds a wide range of
21 policy and political activities across the U.S.⁴⁸ By requiring customers to pay for its
22 membership in EEI, the Company is forcing customers to fund those political and
23 policy activities as a condition of electric service whether they agree with the
24 positions taken by EEI or not. If the Commission were to approve the proposed rates
25 including the dues payment, it would be infringing on customers' rights to speak on

1 such policy issues as they choose.

2 **Q. EEI does conduct some activities that are not related to policy or political**
3 **advocacy. How can the Commission know what use is made of dues the**
4 **Company pays to EEI?**

5 A. It cannot, and neither can customers. The Company provides no evidence in the
6 record as to how EEI dues are used and whether the dues support funding activities
7 that provide benefits to the Company's customers.

8 **Q. Doesn't the Company remove lobbying expenses from the amount proposed for**
9 **recovery?**

10 A. The Company asserts that it has removed lobbying expenses from the total amount of
11 dues charged,⁴⁹ but this does not fully address the forced speech issue. EEI uses dues
12 to conduct political and policy advocacy work that is not strictly classified as
13 lobbying and it also funds other organizations that do the same.

14 **Q. What is the remedy for the fact that dues paid by the Company to EEI are used**
15 **to conduct policy and political advocacy?**

16 A. The Commission should deny the Company proposal to recover EEI dues from
17 customers absent an evidentiary showing that the dues are entirely used to advance
18 the interests of customers and do not involve any form of political or policy speech.

19 **Q. Does that conclude your testimony?**

20 A. Yes.

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(Proceedings concluded.)

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CERTIFICATE OF REPORTER

STATE OF FLORIDA)
COUNTY OF LEON)

I, DEBRA KRICK, Court Reporter, do hereby certify that the foregoing proceeding was heard at the time and place herein stated.

IT IS FURTHER CERTIFIED that I stenographically reported the said proceedings; that the same has been transcribed under my direct supervision; and that this transcript constitutes a true transcription of my notes of said proceedings.

I FURTHER CERTIFY that I am not a relative, employee, attorney or counsel of any of the parties, nor am I a relative or employee of any of the parties' attorney or counsel connected with the action, nor am I financially interested in the action.

DATED this 4th day of October, 2021.



DEBRA R. KRICK
NOTARY PUBLIC
COMMISSION #HH31926
EXPIRES AUGUST 13, 2024