### BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION REVIEW OF STORM PROTECTION PLAN, PURSUANT TO RULE 25-6.030, F.A.C., DUKE ENERGY FLORIDA, LLC.

### DOCKET NO. 20220050-EI REBUTTAL TESTIMONY OF BRIAN M. LLOYD ON BEHALF OF DUKE ENERGY FLORIDA, LLC JUNE 30, 2022

### 1 I. INTRODUCTION AND QUALIFICATIONS.

2	Q.	Please state your name and business address.
3	А.	My name is Brian M. Lloyd. My current business address is 3250 Bonnet Creek Road,
4		Lake Buena Vista, FL 32830.
5		
6	Q.	Have you previously filed direct testimony in this docket?
7	А.	Yes, I filed direct testimony supporting the Company's SPP on April 11, 2022.
8		
9	Q.	Has your employment status and job responsibilities remained the same since
10		discussed in your previous testimony?
11	A.	Yes.
12		
13	II. P	URPOSE AND SUMMARY OF TESTIMONY.
14	Q.	What is the purpose of your rebuttal testimony?

1	А.	The purpose of my testimony is to provide the Company's rebuttal to certain assertions and
2		conclusions contained in the direct testimonies of OPC's witnesses Kollen and Mara. Ms.
3		Howe and Mr. Menendez will present additional rebuttal of the testimonies of OPC's
4		witnesses Kollen and Mara.
5		
6	Q.	Do you have any exhibits to your testimony?
7	A.	Yes, I am sponsoring the following exhibit to my rebuttal testimony:
8		• Exhibit No. (BML-4), 712 Self-Healing Team Benefits Report
9		This exhibit was prepared by the Company in the normal course of business and is true and
10		correct to the best of my information and belief.
11		
12	Q.	At the outset, do you have any over-arching concerns with OPC's positions in this
13		docket?
14	A.	Yes, I do. While I am not a lawyer (though I note that neither of OPC's witnesses are
15		lawyers either), it appears to DEF that their interpretation of the SPP statute and rule is
16		overly constricted, to the point of essentially eliminating much of what DEF believes was
17		the Legislature's and Commission's intent in enacting the statute and rules.
18		
19	Q.	Can you explain what you mean?
20	A.	Yes. From DEF's perspective, the Legislature directed the utilities to develop integrated
21		storm protection plans that as a whole achieve the goals of reducing restoration costs and
22		outage times to customers and improving overall service reliability. DEF has followed that
23		directive by crafting a systematic Plan that includes a suite of programs that, overall, are

intended to accomplish these goals, over time, in a cost-effective manner. If, as OPC and
specifically Mr. Mara suggest, the Company was required to limit its proposed programs
to just those that themselves are projected to accomplish the goals set out in the statute, the
ability to systematically harden the system against the effects of extreme weather would be
seriously curtailed.

6 Said differently, I believe OPC has lost the forest for the trees. DEF operates an integrated 7 system, from generation, to transmission, and then ultimately distribution to our customers. 8 As such, system planning requires a highly integrated and interconnected approach, taking 9 into account the impact actions directed at one component will have on the remainder of 10 the system. That is, assuming without agreeing that an individual program "only" reduced 11 restoration costs while another "only" reduced outage times, the two programs combined 12 would achieve the legislature's goals. DEF believes this is what the legislature intended 13 when it directed the utilities to file a plan explaining the Company's systematic approach 14 to achieving the identified goals.

Moreover, DEF is required to plan for a range of contingencies and cannot assume a "one 15 size fits all" approach. For example, the "extreme weather conditions" we must be 16 17 prepared for include, but are not limited to, heavy rain events, lightning, coastal flooding, 18 inland flooding (e.g., rivers), and gale-force winds. These events can occur on almost any 19 given day and are not constrained to tropical weather systems, though those are the most 20 oft thought of example of extreme weather in Florida. Further, even within the context of 21 tropical weather systems, we know that each storm is unique in the degree, type, and 22 concentration of damage – for example, Irma impacted almost the entirety of the state

causing widespread damage while Michael was much more concentrated but nevertheless
 caused extreme damage in the impacted areas.

The point being, our intent, which we believe aligns with the legislature's directive, was to propose a holistic Plan to systematically harden the system to better withstand the range of extreme weather conditions expected to impact the state. The Plan, as a whole, is projected to achieve the multi-pronged goals of reducing storm restoration costs, outage times, and improving overall reliability. Taking the myopic approach offered by OPC would improperly hinder those efforts to the detriment of our customers and the state itself.

9

#### 10 Q. Please summarize your testimony.

11 A. My testimony will focus on Witness Mara's and Witness Kollen's testimonies and explain 12 the misinformation contained within. I will focus on three main areas: Benefits to Cost 13 Analysis, Qualification for Inclusion in the Storm Protection Plan, and Staging Costs. As 14 provided below, the programs DEF proposed in its SPP 2023-2032 ("SPP 2023"), all of 15 which are extensions of the programs included in DEF's current SPP 2020-2029 ("SPP 16 2020"), are appropriate, consistent with the statute and rule, and should be approved by the 17 Commission.

18

### 19 III. BENEFITS TO COST ANALYSIS ("BCA") DISCUSSION

## Q. Both Witness Mara and Witness Kollen allege that the costs of DEF's SPP 2023 are higher than the benefits provided by the Plan. Are the Witnesses' allegations accurate?

A. No, both witnesses are incorrect. Table 1, below, summarizes present value benefits,
present value costs, net present value (i.e., benefits minus costs), and the benefits to cost

ratio for each program in DEF's SPP 2023. Table 1 clearly shows, without question, that
DEF's programs have a benefits to cost ratio greater than 1, which indicates that the
benefits are greater than the costs. DEF's Plan, as outlined in Exhibits BML-1 and BML2, provides long-term benefits to the customers and State of Florida. I will provide further
details as to why Witness Mara's and Witness Kollen's commentary on the benefits and
costs are incorrect.

7

Table 1

Program	<b>PV Benefits</b>	PV Costs	NPV	B/C Ratio
D1: Feeder Hardening	\$3,829,367,264	\$2,016,634,712	\$1,812,732,552	1.9
D2: Lateral Hardening	\$8,005,067,340	\$2,495,576,854	\$5,509,490,486	3.21
D3: Self-Optimizing Grid (SOG)	\$6,974,753,639	\$228,987,548	\$6,745,766,092	30.46
D4: Underground Flood Mitigation	\$30,838,403	\$14,369,826	\$16,468,577	2.15
T1: Structure Hardening	\$1,912,020,741	\$1,489,983,733	\$422,037,008	1.28
T2: Substation Flood Mitigation	\$272,287,898	\$73,697,798	\$198,590,100	3.69
T3: Loop Radially Fed Substations	\$110,329,885	\$72,889,856	\$37,440,029	1.51
T4: Substation Hardening	\$287,436,172	\$121,128,264	\$166,307,908	2.37
Total	\$21,422,101,343	\$6,513,268,591	\$14,908,832,752	3.29

8

9 Q. In Witness Mara's opening discussion of section 366.96, he states that "Clearly, the 10 goal (of SPP) is to invest in storm hardening activities that benefit the customers of 11 the of the electric utilities at a cost that is reasonable relative to those benefits." Do 12 you agree with this statement?

A. Yes, I do agree with this statement as it is the basis for DEF's overall Storm Protection Plan. As outlined in BML-2, DEF and Guidehouse utilized a detailed analysis that measured the benefits, including customer benefits as estimated by Interruption Cost Estimator (which I will discuss below) and restoration costs savings, compared with the costs of the programs. All of DEF's SPP 2023 programs have a benefit to cost ratio greater than 1, as shown above in Table 1. I believe that DEF's SPP 2023 meets both the

requirements laid forth in the Statute and rule as well as Witness Mara's statement noted above.

C		
4	Q.	Do you agree with Mr. Mara's contention that DEF only considered resource
5		availability as a possible limitation to the SPP Programs' budgets?
6	A.	Absolutely not. As DEF explained in response to interrogatory number 78, DEF began the
7		planning process with a consideration of the appropriate level of investment to properly
8		balance the goal of strengthening the system as directed by the legislature with the impact
9		on customers' bills:
10 11 12 13 14 15 16 17 18 19 20		DEF establishes its overall SPP program spend, including capital expenditures, with consideration of the impact to customer rates as a key consideration, but must also balance this impact with the goals and requirements of the Storm Protection Plan statute and rule and the outage risk a non-hardened grid creates during extreme weather events. The establishment of SPP program spend is accomplished at the outset of the plan development process and therefore represents an express decision not to expend greater amounts which would have a greater impact on customer rates. Thus, the entirety of the plan represents a balancing of the goals of the SPP with impact on customers' rates.
21		Further, Exhibit BML-2, includes Figure A-2, which is a Detailed Modeling Approach
22		Flow Diagram. As part of the decision-making process regarding program scope, after
23		Guidehouse identified its preferred Portfolio of programs and projects, it then moved to
24		Step M, the "Funding and Timing Constraints" provided to it by DEF: "Guidehouse applied
25		program- and portfolio-level funding constraints, which DEF provided. These represent
26		practical limits on program implementation." (e.s.).
27		

1 Mr. Mara's opinion to the contrary ignores DEF's planning process as outlined in Exhibit 2 BML-2 and DEF's responses to OPC's discovery requests. Moreover, I note that Mr. Mara 3 provides no citation to where he claims DEF asserted the "only limit to the magnitude of the budgets was the limitation of resources" to complete the Plan's goals, and it appears to 4 DEF that Mr. Mara has taken a statement regarding the consideration of "available 5 6 resources" made in the context of prioritizing project deployment (see, Program 7 Descriptions in Ex. BML-1) and conflated it with the development of Program scope. 8 9 To say that Mr. Mara has mixed apples and oranges to reach his conclusion would be an 10 understatement. As demonstrated in Ex. BML-2 and expounded upon in DEF's response 11 to Interrogatory 78, DEF's determination of the appropriate funding level (which by 12 definition includes a decision on acceptable level of customer bill impact) operated as an 13 explicit limitation on Program scope. 14 15 Q. Witness Kollen recommends that the Commission reject all proposed SPP projects 16 that do not have a benefit-to-cost ratio of at least 100%. Do you see an issue with this 17 recommendation? 18 Yes, I do. Although all of DEF's programs contained within its SPP 2023 have a benefit-A. 19 to-cost ratio of at least 100% (as shown in Table 1), there are individual projects within 20 those programs that do not meet a 100% benefits-to-cost ratio. The rule does not require 21 *projects* to meet a specific threshold, but rather requires a comparison of the description of 22 projected Program benefits to costs. In fact, Mr. Mara's newly proposed requirement would exclude a large number of DEF's customers who may live in areas where hardening 23

1		is necessary but may not be as economically practical as areas with greater customer
2		density from receiving any direct benefits from the hardening programs they are helping to
3		fund. This litmus test would exclude many customers from outage relief during a major
4		storm event solely based on geography or the relative cost of needed upgrades in their area,
5		although these same customers would be paying the same rates as those who have received
6		these benefits. DEF completely disagrees that such a result was intended by the legislature
7		or Commission.
8		The transmission and distribution systems are integrated and work together while serving
9		our customers. As Witness Howe discusses in detail in her testimony, the coalescence of
10		the individual pieces form the connected grid and applying the Storm Protection Plan
11		programs to them in the manner outlined in DEF's plan ensures all links in the chain are
12		addressed to serve customers.
13		
13 14	Q.	Witness Mara claimed that the benefits of hardening will be reduced over time as the
	Q.	Witness Mara claimed that the benefits of hardening will be reduced over time as the hardening sub-program is applied to feeders that are not as vulnerable to extreme
14	Q.	
14 15	Q.	hardening sub-program is applied to feeders that are not as vulnerable to extreme
14 15 16	<b>Q.</b> A.	hardening sub-program is applied to feeders that are not as vulnerable to extreme wind and may have less tree cover or stronger poles already in place. Do you agree
14 15 16 17		hardening sub-program is applied to feeders that are not as vulnerable to extreme wind and may have less tree cover or stronger poles already in place. Do you agree with this assessment?
14 15 16 17 18		hardening sub-program is applied to feeders that are not as vulnerable to extreme wind and may have less tree cover or stronger poles already in place. Do you agree with this assessment? While I agree in principle that DEF is prioritizing projects for the most "vulnerable" areas
14 15 16 17 18 19		hardening sub-program is applied to feeders that are not as vulnerable to extreme wind and may have less tree cover or stronger poles already in place. Do you agree with this assessment? While I agree in principle that DEF is prioritizing projects for the most "vulnerable" areas first, as outlined in DEF's benefits to cost analysis, Rule 25-6.030 requires DEF to update
14 15 16 17 18 19 20		<ul> <li>hardening sub-program is applied to feeders that are not as vulnerable to extreme</li> <li>wind and may have less tree cover or stronger poles already in place. Do you agree</li> <li>with this assessment?</li> <li>While I agree in principle that DEF is prioritizing projects for the most "vulnerable" areas</li> <li>first, as outlined in DEF's benefits to cost analysis, Rule 25-6.030 requires DEF to update</li> <li>its SPP at least every three years, which I believe was a very well contemplated rule as it</li> </ul>

assessed, and the plan changed. However, I am concerned that Witness Mara is discounting
the customers that are served by the circuits that he says are less "vulnerable." Those
customers can still be impacted by extreme weather events and, as I stated above, should
have the opportunity for their circuits to be hardened even if the benefits to cost ratio is
lower than higher prioritized projects.

6

Q. Witness Kollen states that DEF's benefits to cost analysis was "flawed and used to
calculate excessive benefits by including the societal value of customer interruptions,"
that these costs are "highly subjective," are not "cost[s] ... actually incurred or
avoided by the utility or customer" and "should be excluded from the justification of
SPP programs and projects." Do you find flaws in Witness Kollen's statements?

12 Yes, I believe that Witness Kollen's statements on societal benefits and their inclusion in Α. 13 the benefits/cost analysis are misguided. Dismissing the societal benefits misses the overall purpose of the SPP which is to protect and strengthen the grid to reduce the impact from 14 15 extreme weather events so the State of Florida can return to normal business as quickly as 16 possible. Medical facilities functioning to full capacity; roadways opened; students back 17 in school; businesses employing workers and serving customers; citizens being able to 18 stock their refrigerators, wash clothes and take hot showers; and tourists returning to the 19 State's amazing destinations. All of these societal norms have value to the customers that 20 OPC represents beyond the reduced restoration costs, even if they are not directly realized 21 by the utility or customer.

Personally, I have felt the "cost" of being without electricity for multiple days following
an extreme weather event, costs such as bringing ice home every night so my wife, who

was eight months pregnant at the time, could keep my one-year old's milk cold. I am also
 certain that my wife and son paid a cost of sitting in the heat and would have benefitted
 from having power at the house for those days.

Another example that shows the true value of having electric service to customers is, after
Hurricane Irma, a customer was in such need for service that they called in a bomb threat
against the facility where I was working. Obviously, this is extremely out of line, but it
reinforces how customers are dependent on electricity to power their lives and benefit from
having service. Not attributing a value to that benefit is shortsighted and ignores the reality
faced by customers.

10 That said, DEF took a conservative approach in quantifying these benefits through use of 11 the Interruption Cost Estimator ("ICE") model. The ICE model was developed by 12 Lawrence Berkeley National Laboratory ("LBNL") and Nexant, Inc. This tool is designed 13 for electric reliability planners at utilities, government organizations, and other entities that 14 are interested in estimating interruption costs and/or the benefits associated with reliability improvements in the United States. The ICE Calculator is funded by the Energy Resilience 15 16 Division of the U.S. Department of Energy's Office of Electricity. This non-electric 17 benefit model has been used throughout the industry and in regulatory proceedings.

18

## Q. Witness Mara utilizes ten years of benefits when calculating a benefit to cost ratio for the Lateral Hardening program. Is this a proper methodology for comparing programs' benefits and costs?

A. No, this is not a proper methodology for comparing programs' benefits and costs because
 electric utility asset investments are not intended to only last ten years, so assuming only

ten years' worth of benefits compared to the costs of the programs would be understating
 the value of the investments. DEF's methodology properly considered the benefits
 programs will deliver over the life of the assets, as outlined in Exhibit BML-2, by assessing
 costs and benefits over a 30-year period for distribution programs and a 40-year period for
 transmission programs.

6

## Q. In Witness Mara's testimony, he states "rate payers are paying more for the SPP and "reduced' storm costs than they would if the electric utilities did no storm hardening." Do you agree with the statement?

10 A. No, I do not agree with Witness Mara's statement. First, to the extent Witness Mara is 11 either arguing against the legislature's decision to create the SPP in the first place or 12 implying that DEF should not follow the legislature's and Commission's direction to 13 further harden the system, DEF disagrees. Second, and this is indicative of OPC's 14 witnesses' lack of consistent comparisons, he is comparing ten years of future investment spend to only five years of historical restoration costs, when, as described above, DEF is 15 16 making these investments expecting 30 to 40 years of benefits. Additionally, DEF utilized 17 FEMA's HAZUS study which includes approximately 200 years of hurricane data, as 18 described in Exhibit BML-2, providing a much more robust calculation of probabilistic 19 extreme weather events and their associated restoration costs over the 30-40 year life of 20 the hardened asset. Third, Witness Mara is only focusing on DEF's direct restoration costs 21 savings and leaves out the true total cost of a storm to the customers as I described above.

22

### 23 IV. QUALIFICATION FOR INCLUSION IN THE STORM PROTECTION PLAN

- 1Q.On June 27, 2022, OPC filed a motion to accept amended testimony along with2amendments to both Witnesses' pre-filed direct testimonies. Have you reviewed the3amended testimonies, and if so, what impacts do the amendments have on your4rebuttal testimony?
- 5 Yes, I have reviewed the proposed amended testimonies. As I understand the proposed A. 6 amendments, the witnesses are acknowledging that DEF's 2021 Settlement Agreement 7 includes a provision that the costs incurred with DEF's SPP are properly recovered through 8 the SPPCRC and have been removed from base rates as required by the SPP Statute and 9 Rule. As such, I understand that the witnesses are no longer advocating for exclusion of 10 any Programs from the Plan (at least for cost recovery years 2023-2024). I agree with this 11 result, but would argue further that Programs appropriate for inclusion in the Plan (and 12 recovered through the SPPCRC) for two years of the planning period are likewise 13 appropriate for the Plan (and SPPCRC recovery) for the third year as well.
- 14

Because the amended testimonies continue to include the incorrect premises and assumptions, mischaracterizations and misunderstandings, and unreasonably constricted interpretation of the governing statute and rule, I continue to believe it is appropriate to address those issues for the Commission notwithstanding that the witnesses are no longer advoacating for exclusion of certain programs.

- 20
- Q. In Witness Mara's testimony, he opines that not all of DEF's SPP programs qualify
  for the Plan and therefore should be excluded from the Plan by the Commission. Do
  you agree with Witness Mara's opinion?

1	А.	No, I do not agree with Witness Mara's opinion as I believe all of DEF's SPP Programs
2		qualify for inclusion per the statute and rule and should be approved by the FPSC. I also
3		note that they are the same Programs included in DEF's current SPP 2020 approved by the
4		Commission in 2020. The programs submitted are projected to reduce restoration costs
5		and/or reduce outage durations during extreme weather events, while improving overall
6		reliability, and therefore the Plan as a whole will meet the objectives of the statute and rule.
7		I will address why I disagree with Witness Mara's opinion and inaccuracies in the
8		testimony for the Distribution programs Feeder Hardening, Lateral Hardening, Self-
9		Optimizing Grid, and Underground Flood Mitigation. Witness Howe will address DEF's
10		disagreements with Mr. Mara's incorrect assertions and conclusions regarding DEF's
11		Transmission programs and subprograms.

# Q. Witness Mara recommends that the Feeder Hardening and Lateral Hardening programs be capped at \$1.5B and \$2.2B, respectively, to align with DEF's SPP 20202029 instead of the "substantial increase in capital expenditures proposed by DEF." Did DEF propose a "substantial increase" over its SPP 2020-2029?

A. No, DEF has not proposed a "substantial increase" when compared to its SPP 2020. The
original SPP included transitional years 2020 and 2021 as the Company worked to
complete other projects and ramp up engineering and construction resources to prepare for
the SPP. As shown in Docket No. 20200069, Exhibit JWO-2, DEF had zero work planned
under SPPCRC in 2020 and only had Feeder Hardening and Structure Hardening for 2021.
DEF's proposed SPP 2023 reaches a steady state and the last three years of this Plan replace
the first three years of SPP 2020, making it appear to be an increase when it is truly a

2

3

### Q. Do you agree with Witness Mara's assertion that the cost for corrective actions to address clearance encroachments should not be included in the Storm Protection Plan?

Menendez provides additional detail on this point in his rebuttal testimony.

continuation of the plan that was previously approved in Docket No. 20200069. Mr.

7 A. No, I do not aggree with Witness Mara's assertion on page 18 of his testimony. Given that 8 new pole locations, sizes and guying will be required when designing a hardened system, 9 DEF will indeed find situations where proper clearances cannot be met with existing 10 overhead structures along and in the public right of way. DEF also must maintain clearance 11 to other existing public and privately owned underground facilities which can further 12 reduce potential pole and guying locations. DEF maintains that newly installed facilities 13 should remain open to truck access for maintenance purposes and should be in easements 14 or adjacent to roadways as outlined in Rule 25-6.0341 (Location of the Utility's Electric 15 Distribution Facilities). DEF is not in agreement with any portion of Witness Mara's 16 conclusion relative to clearance encroachments as outlined on pages 17 and 18 as it does 17 not consider these issues, even though they were discussed in Exhibit BML-1 on pages 7 18 and 17.

19

# Q. The Self-Optimizing Grid program was addressed by Witness Mara as a program that should not qualify for the Storm Protection Plan as it does not reduce the number of outages. Do you agree with Witness Mara's assessment?

A. No, I do not agree with this assessment because the Self Optimizing Grid program does
reduce the number of outages. The design and function of the Self Optimizing Grid, as
described in Exhibit BML-1, is to sectionalize the grid into sections that serve smaller
number of customers and creates ties between circuits to allow the transferring of
customers when a fault occurs during an extreme weather event. On a typical circuit, this
will reduce the number of outages caused by a fault during extreme weather by
approximately 75%.

8

9 Q. But Witness Mara states that the Self Optimizing Grid "system is not effective during 10 an extreme weather event" because it is "doubtful that adjacent feeders will be 11 available because the adjacent feeders will likely have suffered an outage as well" and 12 that "DEF has not provided any evidence the system will be a benefit during extreme 13 weather events." Do you agree with Witness Mara's opinion?

14 A. No, I do not agree with Witness Mara's conclusion, nor do I agree with his highly 15 speculative premise regarding the availability of neighboring feeders, which is based on a 16 very specific instance of hypothetical damage that is then over-generalized for purposes of 17 reaching a predetermined conclusion. Although I concede that if a Category 5 hurricane 18 were to cause severe damage to a concentrated area similar to what occurred with Hurricane 19 Michael, the adjacent feeder is "likely [to] have suffered an outage," I would state that 20 DEF, as I described in my summary, is deploying Self Optimizing Grid, and all of its SPP, 21 to reduce outages during all levels of extreme weather events, including, but not limited to, 22 Tropical Depressions; Tropical Storms; Hurricanes; tornadoes; coastal and inland flooding; 23 and lightning storms. During these types of events, it is very likely that adjacent feeders

1		will be available for customer transfers, thus reducing the number and duration of outages.
2		Additionally, DEF's Feeder Hardening program is designed to strengthen the feeders to
3		increase the likelihood that adjacent circuits are available, which underscores the inter-
4		related nature of the SPP.
5		In fact, had OPC requested the information prior to filing its testimony, DEF could have
6		shared that the Self Optimizing Grid system has proven to be very effective during extreme
7		weather events. As shown in Exhibit BML-4, since the inception of the Self Optimizing
8		Grid, and its predecessor Self-Healing Teams, over 25% of the total customer minutes of
9		interruption saved by the systems have been during extreme weather events.
10		
11	Q.	If the Self Optimizing Grid program was disallowed as Witness Mara recommends,
12		would there be negative impacts to DEF's overall Storm Protection Plan?
13	A.	Yes, there would be negative impacts. DEF's Storm Protection Plan is the sum of its parts
14		with the programs working together to reduce restoration costs and outage times associated
15		with extreme weather events. As I stated above, during an extreme weather event, the
16		Feeder Hardening and Self Optimizing Grid programs work in tandem to reduce outages
17		
		by allowing customers to be served via multiple, hardened circuits.
18		by allowing customers to be served via multiple, hardened circuits.
18 19	Q.	by allowing customers to be served via multiple, hardened circuits. Witness Mara states that DEF's Underground Flood Mitigation program should be
	Q.	
19	Q.	Witness Mara states that DEF's Underground Flood Mitigation program should be
19 20	<b>Q.</b> A.	Witness Mara states that DEF's Underground Flood Mitigation program should be eliminated because it is obvious to him that it is being used to fund the replacement

replacement of 7 switchgear and 24 transformers in 2021 were passed through the Storm
Protection Plan Cost Recovery Clause ("SPPCRC"). This is incorrect; these replacements
were included in base rates as Witness Mara said should have been the case. In DEF's SPP
2020 and in subsequent SPPCRC filings, it was shown that the Underground Flood
Mitigation program was not going to begin as a part of SPPCRC until 2022. This
demonstrates the conflation of the SPP and recovery of costs through the SPPCRC more
thoroughly discussed by Mr. Menendez.

8

### 9 Q. Could aging equipment be replaced in the Underground Flood Mitigation program?

A. The focus of the program, as described in Exhibit BML-1, is to harden existing
 underground distribution facilities in locations that are prone to storm surge during extreme
 weather events. Although the program could include aging equipment being replaced, that
 is not the driving factor for target selection.

14

### Q. Witness Mara notes that the Floramar project planned for 2023 is likely to have livefront transformers. Is this accurate?

A. No, it is not accurate. Mr. Mara opined that it was likely to have livefront transformers
(plural). Yet, of the 110 transformers in the Floramar area targeted for Underground Flood
Mitigation, DEF's records show that only one (1) transformer (singular) is an existing
livefront. 1 out of 110. This reinforces that DEF is not selecting targets to address aging
units, but instead is focusing on areas that are prone to storm surge during extreme weather
events.

Q. Witness Mara states that "hardening means to design and build components to a
 strength that would not normally be required" and that "aging infrastructure"
 should not be replaced in the Storm Protection Plan. Do you agree with Witness
 Mara's statement?

No, I do not agree with Witness Mara's statement. As Witness Howe describes in detail 5 A. in her testimony, replacing "aging infrastructure" hardens the system. 6 With my 7 disagreement with Witness Mara's recommendation that the Underground Flood 8 Mitigation program should be eliminated from SPP (page 26 lines 8 through 10), I will 9 note that DEF plans to replace existing conventional switchgear, what would normally be 10 required, with submersible switchgear designed to withstand the potential storm surge and 11 flood waters thus meeting Witness Mara's proposed requirements.

12

### Q. But Witness Mara believes that DEF is not using submersible switchgear within the Underground Flood Mitigation program. Is he correct?

15 No, Witness Mara is not correct. He is misinterpreting information DEF provided in A. response to OPC's Request for Production of Documents ("POD") 21 and omitting 16 17 information provided in response to OPC's POD 15. POD 21, as shown in the table on 18 page 26 of Witness Mara's testimony, provides the names of base rate projects; Witness 19 Mara misinterprets the types of existing switch gear as the type that would be installed upon 20 replacement. As provided in response to POD 15, DEF's Distribution Standard Manual 21 states that "Flooding and Storm Surge Requirements" are the use of "Submersible Switchgear." 22

23

### 24 V. STAGING COSTS

Q. Witness Mara states that if DEF's system is hardened, it "should logically spend less
 on pre-staging and would be expected to limit the amount of staging they do ahead of
 a storm." Can you please explain why Mara's statement is counter to the intent of
 the Storm Protection Plan statute and rule?

5 A. Yes. The statute and rule are focused on enhancing the utility's existing infrastructure for 6 the purposes of reducing restoration costs and reducing outage times. The SPP rule does 7 not require the utility to provide details on its restoration processes. DEF scales its 8 restoration efforts to meet the magnitude of the expected extreme weather event, pre-9 staging included.

Pre-staging resources is a critical step in the restoration planning process as it ensures that the necessary personnel are in place and ready to perform necessary activities to reduce outage times and return the State of Florida to normal operations. When the SPP hardening efforts are completed, the overall restoration efforts will be reduced but DEF will still prestage resources as necessary to respond to the anticipated scope of the impending event to ensure customers impacted by extreme weather events are restored as safely and swiftly as possible.

17

#### 18 VI. CONCLUSION

### 19 Q. Mr. Lloyd, your rebuttal covers a lot of ground, but did you respond to every 20 contention regarding the Company's proposed plan in your rebuttal?

A. No. Intervenor testimony on the SPP involved many pages of testimony and I could not
 reasonably respond to every single statement or assertion and, therefore, I focused on the
 issues that I thought were most important in my rebuttal testimony. As a result, my silence

- on any particular assertion in the intervenor testimony should not be read as agreement
   with or consent to that assertion.
- 3

### 4 Q. Does this conclude your testimony?

5 A. Yes.

SHT Bene	efits											Yea	ar and Month Date	Range
Juri			CI Saved	C	MI Saved	Faile	d	CI		CMI				Duke E Do
Jun	S SUCCE	255	CI Saveu	C		Falle	eu	CI		CIVII	All			Exhi
DEF	1,378	8.9	1,243,688	91	1,487,294	66	.1	82,642		3,975,314				
Total	1,378.9 1,243,688		91	,487,294	66	.1	82,642		3,975,314		ricdiction	Ctata		
												irisdiction	State	
												elect all	Select all	_
													Florida	_
														_
												DEK		
												DEO		
SHTs Insta	alled											DEP		
Juris	2015 20	016 2017	2018 2	2019 2020	2021 2022	2 <b>Tot</b> a	al							
<b>^</b>											Zc	one	Ops Center	Cou
DEF	8	32 29		11 8							Selec		Select all	Select al
Total	8	32 29	24	11 8	27 10	6 15	5				North		Apopka	ALACHU
											North		Buena Vista	CITRUS
											South	n Central	Clearwater	FRANKL
											South		Clermont	GULF
													Deland	HERNAN
													Highlands	HIGHLA
													Inverness Jamestown	JEFFERS LAKE
CMI Save	d During M	/lajor Ever	nt Days										Lake Wales	LEVY
Juris			Fred	Hermine	Irma	lzzy	Matthew	Michael	Storm	Total			Longwood	MADISC
DEF	2,015,198	1,748,073	1,218,815	3,263,334	5,120,640	645,158	159,467	1,836,134	9,170,422	25,177,241			Monticello Ocala	ORANG
Total	2,015,198	1,748,073								25,177,241			SE Orlando	OSCEOL
													Seven Springs	PASCO
													St. Petersburg	PINELLA
													Walsingham	POLK
													Winter Garden	SEMINO
													Zephyrhills	

SHTs Installed												
Juris	2015	2016	2017	2018	2019	2020	2021	2022	Total			
DEF	8	32	29	24	11	8	27	16	155			
Total	8	32	29	24	11	8	27	16	155			

SHT Bene	efits											Ye	ar and Month Date I	Range Duke E
Juris	s Succe	ess	CI Saved	С	MI Saved	Fail	ed	C	]	CMI	All			Do
DEF	1,378	8.9	1,243,688	91,487,294		66	66.1 82,64			3,975,314				Exhi
Total	1,378.9 1,243,688			,487,294		66.1			3,975,314					
												Jurisdiction	State	
												Select all	Select all	
												DEC	Florida	_
												DEF DEI		_
												DEK		
												DEO		
SHTs Insta	alled											DEP		
Juris	2015 20	016 2017	2018 2	019 2020	2021 20	22 <b>Tot</b>	al							
▲ DEF	8	32 29	24	11 8	27	16 <b>1</b> 5	55					Zone	Ops Center	Cou
Total	8	32 29 32 29		<b>11 8</b>			55				Sel	ect all	Select all	Select al
											No	orth Central	Apopka	ALACHU
												orth Coastal	Buena Vista	CITRUS
													Clearwater	FRANKL
											50	uth Coastal	Clermont Deland	GULF HERNAN
													Highlands	HIGHLA
													Inverness	JEFFERS
		Acier Ever	t Davia										Jamestown	LAKE
CMI Saved			-						<u>c</u> i				Lake Wales	LEVY MADISC
Juris	s Colin	Eta	Fred	Hermine	Irma	a Izzy	Matthew	Michael	Storm	Total			Longwood Monticello	MARION
DEF	2,015,198	1,748,073	1,218,815	3,263,334	5,120,640	) 645,158	159,467	1,836,134	9,170,422	25,177,241			Ocala	ORANG
Total	2,015,198	1,748,073	1,218,815	3,263,334	5,120,640	0 645,158	159,467	1,836,134	9,170,422	25,177,241			SE Orlando	OSCEOL
													Seven Springs	PASCO
													St. Petersburg Walsingham	PINELLA POLK
													Winter Garden	SEMINO
													Zephyrhills	TAYLOR
														VOLUSIA





