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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

DOCKET NO. 20220048-EI

Review of Storm Protection Plan,
pursuant to Rule 25-6.030, F.A.C.,
Tampa Electric Company.

_____ /

DOCKET NO. 20220049-EI

Review of Storm Protection Plan,
pursuant to Rule 25-6.030, F.A.C.,
Florida Public Utilities Company.

_____ /

DOCKET NO. 20220050-EI

Review of Storm Protection Plan,
pursuant to Rule 25-6.030, F.A.C.,
Duke Energy Florida, LLC.

_____ /

DOCKET NO. 20220051-EI

Review of Storm Protection Plan,
pursuant to Rule 25-6.030, F.A.C.,
Florida Power & Light Company.

_____ /

VOLUME 7
PAGES 1256 - 1486

PROCEEDINGS: HEARING

COMMISSIONERS
PARTICIPATING:

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

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DATE: Thursday, August 4, 2022

TIME: Commenced: 9:30 a.m.
Concluded: 4:10 p.m.

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

REPORTED BY: DANA W. REEVES
Court Reporter

APPEARANCES: (As heretofore noted.)

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

1 I N D E X

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EXHIBITS

NUMBER:		ID	ADMITTED
53	As identified in the CEL		1395
103	As identified in the CEL		1395
110	As identified in the CEL		1423

1 P R O C E E D I N G S

2 (Transcript follows in sequence from Volume
3 6.)

4 CHAIRMAN FAY: All right. We are all set
5 thank you to our technical folks for getting us
6 back on track today. We will now allow Duke to
7 call your witness.

8 MR. BERNIER: Thank you, Mr. Chairman. As I
9 was saying, I discussed with public counsel, we're
10 going to move Ms. Howe ahead of Mr. Lloyd.

11 CHAIRMAN FAY: Okay.

12 MR. BERNIER: Just for scheduling purposes.
13 Whereupon,

14 AMY HOWE
15 was recalled as a witness, having been previously duly
16 sworn to speak the truth, the whole truth, and nothing
17 but the truth, was examined and testified as follows:

18 EXAMINATION

19 BY MR. BERNIER:

20 Q So welcome back, Ms. Lloyd -- Ms. Howe. Sorry
21 about that. You recall that you were sworn the other
22 day and you remain under oath?

23 A Yes.

24 Q Thank you. In response to the Commission's
25 order striking portions of Mr. Kollen's testimony, did

1 you cause to be filed amended rebuttal testimony on
2 August 1st, 2022?

3 A Yes.

4 Q And did that amended testimony strike portions
5 of your rebuttal testimony that were responsive to Mr.
6 Kollen's stricken testimony?

7 A Yes, it did.

8 Q Thank you. Do you have your amended rebuttal
9 testimony with you here today?

10 A Yes, I do.

11 Q Do you have any additional changes to make to
12 your amended rebuttal testimony?

13 A No, I do not.

14 Q If I were to ask you the same questions today
15 as are shown in your amended rebuttal testimony, would
16 your answers be the same?

17 A Yes.

18 Q Thank you.

19 MR. BERNIER: Mr. Chairman, I would ask that
20 Ms. Howe's amended rebuttal testimony, dated August
21 1st, be entered into the record as though read.

22 CHAIRMAN FAY: It's showed inserted. Thank
23 you very much.

24 (Whereupon, prefiled rebuttal testimony of Amy
25 Howe was inserted.)

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 AMY HOWE
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 A. My name is Amy M. Howe. My current business address is 13338 Interlaken Road, Odessa,
4 FL 33556.

5

6 **Q. Have you previously filed direct testimony in this docket?**

7 A. 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. PURPOSE AND SUMMARY OF TESTIMONY.**

1 **Q. What is the purpose of your rebuttal testimony?**

2 A. The purpose of my testimony is to provide the Company's rebuttal to assertions and
3 conclusions regarding the Transmission specific aspects of DEF's 2023-2032 Storm
4 Protection Plan ("SPP 2023" or "Plan") contained in the direct testimonies of OPC's
5 witnesses Kollen and Mara. Mr. Lloyd and Mr. Menendez will present additional rebuttal
6 of the testimonies of OPC's witnesses.

7
8 **Q. Do you have any exhibits to your testimony?**

9 A. No.

10

11 **Q. Please summarize your testimony.**

12 A. My testimony focuses on Witness Mara's and Witness Kollen's testimonies as they relate
13 to Transmission-specific programs and subprograms and rebut the misinformation and
14 incorrect conclusions contained within. In sum, when the Transmission programs are
15 properly understood as an integral part of the overall Plan, which is designed as a holistic
16 approach intended to meet the objectives identified by the legislature in section 366.96 (the
17 "SPP Statute"), it is clear the programs are properly included in the Company's SPP and
18 should be approved. OPC's witnesses' arguments to the contrary demonstrate a lack of
19 understanding of the programs themselves and are based on a narrow interpretation of Rule
20 25-6.030 (the "SPP Rule") that, in DEF's belief, unnecessarily curtails the scope of the
21 SPP contrary to the legislature's intent. Their testimony should be rejected by the
22 Commission.

23

1 **Q. In general, do you agree with the overall concerns and points of disagreement with**
2 **Witness Mara's and Kollen's testimonies expressed by Mr. Lloyd?**

3 A. Yes. I have reviewed Mr. Lloyd's testimony and I completely agree with his general
4 concerns and points regarding Mr. Mara's and Mr. Kollen's novel interpretations of the
5 SPP Statute and Rule and note that many of Mr. Lloyd's points apply with equal force to
6 the transmission programs as they do the customer delivery (distribution) level programs,
7 so I will not repeat those points here. I will therefore limit my points of rebuttal to
8 transmission-specific issues. Additionally, Mr. Menendez provides the Company's rebuttal
9 of ratemaking related concerns, which is an area outside of my responsibility, so I express
10 no opinion on those matters.

11
12 **Q.** [Redacted]

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13 [Redacted]
14 [Redacted]

15 **A.** [Redacted]

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16 [Redacted]
17 [Redacted]

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14 **Q: Are there any other reasons why the configuration of the transmission system is a**
15 **relevant consideration?**

16 A: Yes. The transmission and distribution systems are integrated and work together to serve
17 our customers. Many industrial and wholesale customers receive electric service straight
18 from the transmission system, specifically at 69kV, which means that any upgrades to the
19 transmission system will directly increase continuity of service and improve overall
20 reliability for those customers. Additionally, service for all customers originates from the
21 transmission system (which acts as a bridge between the generation and the distribution
22 system); therefore, any upgrades to the transmission system will have a positive impact on
23 the overall level of service provided to our customers even if, as described above, due to
24 redundancy reasons a given line is shown as “serving” zero (0) customers.

1
2 The BES is the highest voltage portion of the transmission system, consisting of
3 transmission lines and equipment operating above 100kV and serving to transmit large
4 amounts of power throughout the system. The BES is subjected to mandatory reliability
5 standards published and administered by the North American Electric Reliability Council
6 (“NERC”) under the authority of the Federal Energy Regulatory Commission (“FERC”).
7 These standards require sufficient redundancy within the BES to allow continued operation
8 even when one or more elements of the system is out of service.

9
10 That said, most of DEF’s BES assets do not directly serve customers but instead serve as
11 critical infrastructure maintaining power flow within and between DEF, neighboring
12 utilities, and Independent Power Producers.

13
14 As a result, failure of a single BES element will often not cause a direct outage to our
15 customers but removes a level of redundancy for the entire BES. Sequential failures within
16 the system can cause significant disruption to power flows and cause extensive customer
17 interruptions as could occur during extreme weather events and therefore it is critical to
18 harden these facilities for extreme weather events and to reliably serve our customers. The
19 BES transmission system is the linkage between the generation facilities to our 69kV
20 system and distribution system that ultimately serves our customers’ homes and businesses.
21 Thus, although strengthening the BES may not have a direct impact or quantifiable
22 reduction to customer outages due to the inherent redundancy of the BES, it is a critical
23 component to reliably serving our customers and as such it would defy all logic and sound
24 planning to deny DEF (or any utility) the ability to include such hardening programs and

1 projects in an SPP intended to strengthen the grid as a whole based on an artificial cost-
2 benefit standard that has no support in either the governing statute or rule.

3
4 The 69kV transmission lines and equipment are not considered a part of the BES but are
5 transmission lines that deliver power to many of the distribution substations. The level of
6 redundancy, or in this scenario alternate sources, in the 69kV portion of the transmission
7 system, and its ability to withstand an outage of an element of the system without resulting
8 in customer outages, is different from the higher voltage lines within the BES.

9
10 DEF's 69kV lines typically run from a circuit breaker in one source substation to a circuit
11 breaker in another source substation, with several distribution substations fed along the
12 circuit in a "daisy chain" fashion. These two sources to the circuit provide a certain level
13 of redundancy. A fault within a segment of such a 69kV line will often result in an outage
14 to the substations and distribution circuits between the circuit breakers, until the faulted
15 section can be identified and the switches along the line opened or closed to isolate the
16 faulted section and restore power to the substations from the un-faulted portions of the
17 circuit.

18
19 **Q. At the outset, do you have any over-arching concerns with OPC's position in this**
20 **docket?**

21 A. Yes, I do. I agree with Witness Lloyd in that, while I am not a lawyer (though I note that
22 neither of OPC's witnesses are lawyers either), it appears to DEF that their interpretation
23 of the SPP Statute and Rule is very constricted by limiting SPP eligibility to projects and
24 programs that both decrease outage restoration costs and outages/outage duration. Specific

1 to transmission, the included programs contribute to the systematic nature of the overall
2 Plan that accomplishes these goals, over time, in a cost-effective manner; however, not
3 every program and/or subprogram is intended to reduce *both* restoration costs and outage
4 times. For example, Structure Hardening in its entirety is focused on reduction of outage
5 times and restoration costs, however, the primary benefit of the Gang Operated Air Break
6 (“GOAB”) sub-program is reduction of outage times. Of course, by reducing the outage
7 time and sectionalizing the facilities impacted by the extreme weather event inherently
8 there are restoration cost savings that are hard to quantify. That said, DEF simply cannot
9 agree that either the Legislature or Commission intended to exclude any project or program
10 (or sub-program) from inclusion in the Plan because it does not, on its own, accomplish
11 each of the goals identified in the SPP statute and rule.
12

13 **Q. Have you fully described the transmission programs within the SPP?**

14 A. Yes. The transmission programs have been described in Witness Lloyd’s Exhibit BML-1
15 – Program Descriptions, and further explained in my previously filed direct testimony. In
16 this rebuttal testimony, I will only address the specific contentions raised by OPC’s
17 witnesses.
18

19 **Q. Do the transmission programs put forward under DEF’S SPP meet the requirements**
20 **of Rule 25-6.030, F.A.C.?**

21 A. Yes, in fact they are the same programs that are included in DEF’s currently approved SPP.
22

1 **Q. In Witness Mara's testimony, he opines that not all of DEF's Storm Protection Plan**
2 **Programs should be approved by the Florida Public Service Commission. Do you**
3 **agree with Witness Mara's opinion?**

4 A. No, I do not agree with Witness Mara's opinion; I believe all programs DEF included in
5 its SPP should be approved as they all contribute to the overall efficacy of the Plan. The
6 Plan DEF submitted meets the requirements of the Statute and Rule as it will reduce
7 restoration costs and reduce outage durations during extreme weather events; it does so
8 through a suite of programs that each play a part in achieving the Plan's goals. I will address
9 why I disagree with Witness Mara's opinion regarding each Transmission program and
10 subprogram he discussed and further explain how they meet the requirements of Rule 25-
11 6.030.

12
13 **Q. Mr. Mara contends the SPP rule requires programs to increase asset strength beyond**
14 **the original design of the asset being replaced. Do you agree?**

15 A. No, that is not my understanding. While I agree programs that increase strength beyond
16 original design would certainly qualify for the SPP, I am not aware of any such limitation
17 in the Statute or Rule, nor has either of OPC's witnesses cited one. As I understand the
18 Statute and Rule, SPP programs and projects are intended to protect and enhance the system
19 for the purposes of reducing restoration costs, reducing outage times, and improving
20 overall service reliability. Again, though I am not an attorney, it seems logical and
21 consistent with the SPP's goals to include enhancements that, while they may not
22 strengthen facilities relative to the original design, work to arrest the natural weakening or
23 deterioration of those assets, thereby preserving the strength of the facilities so they can

1 better resist the impacts of extreme weather conditions. To DEF, this is a cost-effective
2 means of enhancing the system that will provide real benefits to our customers (as opposed
3 to, for example, simply replacing all transmission facilities).

4
5 Examples of sub-programs that protect the strength of the Transmission system and are
6 projected to reduce outage times and restoration costs resulting from extreme weather are
7 Cathodic Protection and Replacing Overhead Ground Wire.

8
9 Below, I will further describe both cathodic protection and OHGW subprograms within the
10 Structure Hardening program and how they meet the objectives of the rule as important
11 components of a comprehensive Plan.

12
13 **Q. Witness Mara states that “hardening means to design and build components to a
14 strength that would not normally be required” and that “aging infrastructure”
15 should not be replaced as part of the Storm Protection Plan. Do you agree with
16 Witness Mara’s statement?**

17 **A.** No, I cannot agree with that assertion because it simply ignores the reality of operating a
18 utility system. Obviously, our system is exposed to the elements all the time, and in Florida
19 those elements can be brutal on utility infrastructure. As a result, “aging” infrastructure not
20 yet at the end of its expected life and therefore still accomplishing its purpose could be
21 replaced with a new component that will simply perform better, thereby strengthening the
22 overall system relative to the status quo, which I believe is the goal of the SPP. A program
23 that includes such replacements (for example, structure hardening and the overhead ground

1 wire replacement sub-program I will discuss later) is properly included in the Plan. To the
2 extent OPC's position relative to inclusion of these types of programs within the SPP is
3 based on cost-recovery concerns (i.e., double recovery of costs in base rates and through
4 the SPPCRC), those concerns are addressed by Mr. Menendez's rebuttal testimony.

5
6 **Q. Would you agree with Witness Mara's conclusions relative to transmission
7 construction using the NESC (National Electric Safety Code)?**

8 A. On page 7 of Witness Mara's testimony, he states specifically relative to transmission
9 poles: "In transmission system hardening, many utilities are using non-wood poles (steel
10 or concrete) to replace existing wood poles. The upgrade to non-wood poles is not required
11 by the NESC but these non-wood poles have proven to reduce outages and reduce outage
12 times due to the superior ability of the non-wood poles to survive during extreme
13 windstorms." DEF agrees that conversion from wood to non-wood poles has proven to
14 reduce outages and outage times and meets the requirement of the Rule. In fact, all the
15 costs proposed in DEF's SPP related to transmission poles are to replace wood poles with
16 non-wood poles, so Mr. Mara agrees that those costs are properly recoverable under the
17 SPP.

18
19 **Q. Do you agree with Mr. Mara's assertion that the lattice tower replacement
20 subprogram should be eliminated from the plan?**

21 A. No, absolutely not, nor do I agree with any of the points Mr. Mara relies on in reaching his
22 conclusion. First, Mr. Mara stated "Transmission lines have been required by the NESC to
23 be built for extreme wind events since at least 1977. Failure due to design flaw should not

1 be a SPP activity.”¹ However, Mr. Mara chose to ignore, or possibly did not know because
2 he failed to ask, that the lattice towers in question predate 1977, therefore there was no
3 NESC required extreme wind loading standard at the time (by his own admission) and the
4 towers did not suffer from a “design flaw” any more than any component that has been
5 updated over time (or which was built to a given standard that has been subsequently
6 modified). Thus, this support for his conclusion fails.

7 He continues, “If DEF owns towers that fail to meet strength requirements when
8 constructed, then replacement costs should not be considered an ‘upgrade’ and therefore
9 should not be funded through the SPP.”² It is irrelevant whether DEF agrees with this
10 general proposition or not, as Mr. Mara offers it without identifying any such towers, he
11 believes failed to meet strength requirements when constructed. To DEF’s knowledge, no
12 such towers exist, nor does he opine that the design *was* flawed, but merely states “if” it
13 was flawed it should not have been accepted and thus cannot be a proper SPP program
14 (again, with no support). Thus, this contention likewise fails.

15 Mr. Mara’s next attempt at supporting his conclusion fares no better as it is simply a repeat
16 of his contention that a program that replaces aging infrastructure should be excluded,
17 though this time stated as an accepted fact rather than a dubious proposition.³

18 Mr. Mara next claims “Replacing towers with new towers that meet the same weather
19 loading condition will not add to resiliency. Rather it simply maintains the status quo in
20 terms of strength.” As discussed generally above, this argument ignores reality by seeming

¹ Mara Testimony, pg. 28, ll. 20-22.

² *Id.* at pg. 28, l. 22 – pg. 29, l. 2; *see also id.* at pg. 29, ll. 6-7 (“If the tower design was flawed, it would have been imprudent for DEF to accept the design and construction of the tower in which case the cost should also be excluded from the SPP.”).

³ *See id.* at p. 29 ll. 2-4.

1 to believe that the resiliency of the system is somehow a static measure that does not change
2 over time, and that somehow a piece of infrastructure should rationally be expected to
3 retain all its strength throughout its service life. While I wish that were the case, it simply
4 is not. In the real world, accelerated change outs of aging infrastructure increases resiliency
5 and reliability as there would be less infrastructure damaged during an extreme weather
6 event, resulting in fewer failures to mitigate and quicker restoration time for DEF
7 customers. Moreover, Mr. Mara fails to recognize that Tower Upgrades are designed to the
8 latest NESC code, which is updated in 5 years cycles. Equipment standards, both internal
9 and external, are continuously reviewed and updated. Thus, new equipment installations
10 include the improvements as part of DEF's updated standards, meaning the towers are not
11 being replaced "like for like" at all.

12 This subprogram is proper and should be retained.

13
14 **Q. Witness Mara asserts that deteriorated overhead ground wire is simply an aging**
15 **infrastructure the replacement of which does not increase strength. Can you please**
16 **explain what was meant in your testimony by the term deteriorated OHGW and why**
17 **the subprogram is appropriate for SPP?**

18 A. Yes, but first I would reiterate my points above that programs or subprograms intended to
19 replace aging infrastructure that are not functioning to the level they did when originally
20 installed due to the passage of time and/or because they have simply been performing as
21 designed but cannot realistically be expected to do so indefinitely, are properly included in
22 the SPP.

1 With that said, Deteriorated Overhead Ground Wire (“OHGW”) is static conductor that
2 has lost some of its strength but still performs the designed function, albeit at reduced
3 capacity. Overhead static wire deterioration occurs when the protective galvanization has
4 been sacrificed and static in this condition is more prone to failure. It is known and accepted
5 that all static sizes and material combinations will lose their galvanization and eventually
6 rust, thus reaching the end of life. Not only is the static more susceptible to failure from
7 both wind and lightning events, but the grounding qualities become compromised.
8 Therefore, the OHGW is not “deteriorated” in the sense of having been poorly designed or
9 maintained; rather, it is simply an asset that, if replaced, will strengthen and better protect
10 the system against the effects of extreme weather relative to the state of the system as it
11 exists today. The OHGW is a contributor to CMI and restoration costs during extreme
12 weather events and therefore, its enhancement serves to strengthen the system as intended
13 by the SPP statute and rule.

14
15 **Q. The Gang Operated Air Break (“GOAB”) Line Switch Automation subprogram was**
16 **addressed by Witness Mara as a subprogram that should not qualify for the Storm**
17 **Protection Plan as it does not reduce the restoration costs. Do you agree with his**
18 **assessment?**

19 A. No, I do not agree with Witness Mara’s assessment. As stated in Witness Lloyd’s
20 testimony, “From DEF’s perspective, the Legislature directed the utilities to develop
21 integrated storm protection plans that as a whole are intended to achieve the goals of
22 reducing restoration costs and outage times to customers and improving overall service
23 reliability. DEF’s Storm Protection Plan is the sum of its parts with the programs working

1 together to reduce restoration costs and outages times associated with extreme weather
2 events.” The GOAB subprogram is a piece of the overall Structure Hardening program that
3 promotes minimal outage time by providing the ability to perform remote sectionalizing to
4 restore the customer. It also provides relay information on the location of the event.
5 Logically, the time for a crew to patrol the line is reduced and in turn, the cause of the event
6 can be addressed without additional outage time to customers. The benefit of greatly
7 reducing the outage time for our customers should not be discounted. In some of DEF’s
8 remote areas, this could reduce from hours to minutes to resolve the outage. Minimizing
9 outage time also effectively manages overall cost required to address the cause of the event.
10 Thus, it is DEF’s position that the GOAB subprogram has multiple benefits and is a part
11 of the overall reduction in restoration costs projected from the Structure Hardening
12 program.

13
14 **Q. Mr. Mara contends that the Cathodic Protection subprogram within the**
15 **Transmission Structure Hardening Program should be excluded from the Plan**
16 **because it does not increase strength or improve resiliency. Do you agree?**

17 A. No, I do not agree. As discussed above, I think a subprogram that arrests the natural
18 degradation of a component, thereby maintaining its strength for a greater period of time,
19 makes the asset more resistant to the effect of extreme weather and therefore makes the
20 system as a whole more resilient. The Cathodic Protection sub-program meets the
21 requirements of Rule 25-6.030 through the mitigation of the degradation to structure
22 capacity from groundline corrosion and systematic identification of structures that need
23 kitting or replacement. This program aims to cost effectively address corrosion issues

1 across the entire DEF lattice fleet without prematurely replacing the assets, which directly
2 provides reliability benefits by preserving overall system strength on a larger scale than
3 individual asset change-out. The program also installs reinforcement kits on structures with
4 existing groundline corrosion that are in otherwise good health. As Witness Mara correctly
5 notes “When the strength of a tower or structure decays below a certain level, per the
6 NESC, the structure must be replaced or rehabilitated.” Restoring groundline capacity of
7 the structure allows the structure to perform as originally designed for a greater period of
8 time at a fraction of the cost to customers compared to structure replacement. In the end,
9 this subprogram reduces restoration time after major storms through verification and
10 preservation of DEF’s lattice towers system health, and through mitigation of existing
11 vulnerabilities from ground line corrosion. As a result, I recommend that this sub-program
12 be included in the SPP.

13
14 **Q. Mr. Mara recommends excluding portions of the Transmission Substation Flood**
15 **Mitigation Program. Do you agree with his contentions regarding the need for the**
16 **challenged aspects of the program?**

17 A. No, I do not. First, I would note that all substations were built to the existing standards in
18 the year they were installed. Witness Mara asserts that: “substations built after 1973 should
19 have been designed with the knowledge of potential flood waters and designs should have
20 accounted for this predictable occurrence.” The SPP Flood Mitigation program is directed
21 to the substations at the highest risk of flooding per the most current 100-Year Federal
22 Emergency Management Agency (“FEMA”) flood plain, which is under continuous review
23 and updated as needed. For example, the FEMA Floodplain map for the coastal area was

1 updated in June of 2020. These flood plain changes can result in substations that were not
2 within the flood plain at construction being “reclassified” such that the original design,
3 which was appropriate at the time, is no longer sufficient. The model established for
4 Substation Flood Mitigation evaluates substations in the flood plain with the potential
5 based on historical data to have at least four (4) feet of flood mitigation, and then DEF
6 resources perform further analytics to ensure the prudence and most cost-effective measure
7 for mitigation.

8
9 **Q. What is your response to the comment that DEF has not suffered outage time due to**
10 **flooding of DEF’s substations?**

11 A. Witness Mara shared his understanding that DEF has not had any outages due to flooding
12 of its substations in recent years, stating, “there was one instance where sandbags were
13 deployed at a control house but there were no outages.” Witness Mara seems to indicate
14 that a 3-year flood history is indicative of a 100-year flood, but substations are built to
15 remain functioning over a prolonged period, so a 3-year window is not sufficient to
16 prudently plan for the long-term functionality and service of the substation (as discussed
17 above, the NESC code is updated regularly while the FEMA flood plain is updated as
18 necessary, both of which can result in changed requirements at specific locations).

19 I recommend retaining the Substation Flood Mitigation Program in its entirety.

20
21 **Q. Mr. Mara recommends eliminating the Loop Radially Fed Substation Program from**
22 **the plan in favor of prioritizing hardening transmission lines through replacing wood**
23 **structures with non-wooden structures. Do you agree with this approach?**

1 **A.** No, I do not agree for a couple of reasons. For one thing, accepting what he said regarding
2 the lower rate of failure for hardened structures as true, it does not mean that hardened
3 structures will be able to withstand each and every extreme weather event that may
4 eventually occur. Hence, the looping of radially fed substations (as discussed below) will
5 further harden the system against the impacts of extreme weather events in a cost-effective
6 manner.

7 The looping of radially fed substations is targeted at specific existing “single point of
8 failure” vulnerabilities. For example, a short 69kV radial tap serves a substation that cannot
9 be isolated and restored through switching if a line fault occurs on that tap. A typical design
10 allows for a slight adjustment to the line route to “loop through” the substation so there is
11 no portion of the transmission line that would prevent restoring power to the substation.

12 Looping through the substation in this manner allows the transmission line to be
13 “sectionalized” by operating switches to isolate a faulted section of the line and to restore
14 the electric supply to the substation in the event of a line outage. Switches installed within
15 the substation can also be equipped with remote monitoring and control more easily than
16 switches located on the transmission line at a distance from the substation.

17 The ability to isolate events or damage due to extreme weather events allows for reduction
18 of outage times. Restoration costs are reduced because of the ability to quickly restore
19 customers out of service and have a more planned approach to any repairs required versus
20 dedicating resources to first identify and then repair damage in an emergency response.

21
22 **Q. Mr. Mara recommends eliminating the Substation Hardening Program from the plan**
23 **indicating that the BCA is only 1%. Do you agree?**

1 A. No, I do not agree. I referred to Exhibit KML-2 and it was unclear how the 1% BCA he
2 refers to was calculated. The 1% BCA does not match Table 1 located in Witness Lloyd's
3 Testimony. Table 1 clearly shows all of DEF's programs have a benefits-to-cost ratio
4 greater than 1, which is inclusive of the Substation Hardening program. As a result, I
5 recommend that this program be included in the SPP.

6
7 **Q. Describe why the Transmission Substation Hardening Program meets the**
8 **requirements of Rule 25-6.030, F.A.C.**

9 A. The Transmission Substation Hardening program is intended to upgrade targeted
10 equipment that is generally more vulnerable during extreme weather events to protect the
11 integrity of the grid. Simply put, relays and breakers are needed as a combination to protect
12 the Transmission and Distribution systems to ensure reliable service for our customers.
13 Witness Mara opines that "outages will still occur and therefore the cost to restore will not
14 be reduced." Rather than provide a basis for eliminating the program, this opinion supports
15 the need for the Substation Hardening program. As faults occur on the system, the breakers
16 and relays are relied upon to operate and safely isolate the faulted segment, which reduces
17 outages and outage durations to customers connected to facilities that are not damaged.
18 During extreme weather events, breakers and relays are called upon to operate more
19 frequently and failure to operate, when necessary, would result in longer outage durations
20 for our customers. We also expect that the ability to isolate the faulted segment will also
21 decrease restoration costs by saving time identifying areas of need, thereby allowing DEF's
22 restoration crews to focus efforts appropriately.

23

1 **Q. Do you agree with Witness Mara that there are no significant performance changes**
2 **with using modern breakers?**

3 A. No. During extreme weather events, breakers and relays will operate multiple times as the
4 weather affects the transmission and distribution systems. Oil breakers have a limited
5 number of operations especially in circumstances where they are operating numerous times
6 over a short period, such as during extreme weather events. When oil circuit breakers are
7 repeatedly called to operate, they can generate arcing gasses within the oil tank that can
8 accumulate and result in catastrophic failure. Replacement of the breakers with gas or
9 vacuum breakers, upgrades to a faster response time and they can withstand a higher
10 number of operations. Failure to operate fast enough to clear fault currents will activate
11 backup protection systems, potentially leading to a larger outage for our customers.

12

13 **Q. Do you agree with Witness Mara that def has no choice but to replace**
14 **electromechanical relays with digital?**

15 A. Not necessarily; DEF does have a choice regarding the timing of the upgrade from
16 electromechanical to digital relays. Electromechanical relays still perform the designed
17 function, and DEF has an available inventory of electromechanical relays it can use,
18 however, they do not offer the additional benefits that I describe below. DEF has
19 implemented electromechanical for electromechanical relay replacements to extend the life
20 of the facility and maintain reliability for our customers. DEF agrees the upgrade of non-
21 communicating electromechanical relays to digital relays provides enhanced monitoring
22 and communication capability and eventually all relays on the system will be upgraded to
23 digital, but to perform that upgrade at this time would be cost prohibitive.

1 Protection systems (i.e., grouping of relays) are designed to detect and isolate faults or
2 disturbances on the transmission or distribution systems. During extreme weather events,
3 relays are needed to quickly identify the fault thereby limiting the severity and spread of
4 system disturbances and preventing possible damage to equipment. Additionally, some
5 digital relays enable the use of device data to calculate the distance of a line fault allowing
6 for faster identification and restoration. Substation Hardening reduces restoration cost and
7 outage time through the reduced resource time needed to manually patrol the length of the
8 transmission line or facility prior to restoring customers or the BES transmission system.

9
10 **Q. On June 27, 2022, OPC filed a Motion to Accept Amended Testimony along with**
11 **amendments to both witnesses' pre-filed direct testimonies. Have you reviewed the**
12 **amended testimonies, and if so, what impacts do the amendments have on your**
13 **rebuttal testimony?**

14 A. Yes, I have reviewed the proposed amended testimonies, as well as Mr. Lloyd's response
15 contained in his rebuttal testimony. I fully agree with Mr. Lloyd and also believe that,
16 because OPC's witnesses' testimonies continue to include their faulty reasoning and
17 conclusions, as I have discussed in the foregoing testimony, it is important to present the
18 Company's response as it pertains to the Transmission specific portions of the Plan.

19
20 **III. CONCLUSION**

21 **Q. Mrs. Howe, your rebuttal covers a lot of ground, but did you respond to every**
22 **contention regarding the Company's proposed plan in your rebuttal?**

1 A. No. Intervenor testimony on the SPP involved many pages of testimony and I could not
2 reasonably respond to every single statement or assertion and, therefore, I focused on the
3 issues that I thought were most important in my rebuttal testimony. As a result, my silence
4 on any particular assertion in the intervenor testimony should not be read as agreement
5 with or consent to that assertion.

6

7 **Q. Does this conclude your testimony?**

8 A. Yes.

1 MR. BERNIER: We will waive witness summary
2 and I'll tender the witness for cross.

3 CHAIRMAN FAY: Okay. Great. Thank you. Mr.
4 Rehwinkel.

5 MR. REHWINKEL: Thanks, Mr. Chairman.

6 EXAMINATION

7 BY MR. REHWINKEL:

8 Q Good morning.

9 A Good morning.

10 Q Good morning, Ms. Howe, and good morning,
11 Commissioners. Give me one second. Would you mind
12 turning to your revised rebuttal testimony on page
13 seven? And I would direct you to lines 1 through 10, if
14 you could review that paragraph.

15 A Did you want me to read it?

16 Q Just read it to yourself. I want to ask you
17 specifically about lines 12 through 15.

18 MR. BERNIER: I'm sorry. Mr. Rehwinkel, is
19 that page seven?

20 MR. REHWINKEL: Yes.

21 MR. BERNIER: Thank you.

22 THE WITNESS: Okay.

23 BY MR. REHWINKEL:

24 Q Thank you. Do you have a copy of the statute
25 and the rule with you?

1 A Yes, I do.

2 Q Okay. On lines 12 through 15, you make the
3 statement, that said, DEF simply cannot agree that
4 either the legislature or Commission intended to exclude
5 any project or program or subprogram from inclusion in
6 the plan because it does not, on its own, accomplish
7 each of the goals identified in the SPP statute and
8 rule. Did I read that right?

9 A Yes, you did.

10 Q Okay. So would you mind turning to the rule,
11 please, 25-6.30 and turn to subparagraph (3)(b).

12 A Okay.

13 Q Would you agree with me that (3)(b) says, a
14 description of how implementation of the proposed storm
15 protection plan will reduce restoration costs and outage
16 times associated with extreme weather conditions before
17 improving overall service rollout -- therefore improving
18 overall service reliability?

19 A Sorry. I've read that somewhere, but I didn't
20 think it was (3)(d), but I'm with you.

21 Q Did I say D? If I said D, I meant B, as in
22 boy.

23 A Okay.

24 Q Do you want me to do that again?

25 A No, but I'm with you.

1 Q Okay. So wouldn't you agree that the -- that
2 it says reduced restoration costs and outage times?

3 A Yes, I see that there.

4 Q And then if you look in B, under that same
5 section three, there is a statement where it says a
6 description of each proposed storm protection program
7 that includes, then under one, a description of how each
8 proposed storm protection program is designed to enhance
9 the utility's existing transmission and distribution
10 facilities, including an estimate of the resulting
11 reduction in outage times and restoration costs due to
12 extreme weather conditions.

13 A I see it.

14 Q Okay. So, reading those together, you still
15 believe what's stated in your testimony on line seven --
16 I mean, on lines 12 through 15 on page seven?

17 A Yeah. So obviously, when we went through
18 those we were just reading a few sections within the
19 statute and the rule. My belief, the company's belief
20 is that the comprehensive storm protection plan needs to
21 meet the reduction and restoration costs and the
22 reduction in restoration minutes for our customer. And
23 our programs, both for transmission and distribution,
24 although I am here talking about transmission, those
25 comprehensively together are providing the reduction and

1 restoration outages and costs for our customers at the
2 benefit of our customers.

3 Q Okay. So you're not retroactively reading
4 into the rule and -- or where there's an and, are you?

5 A I did got to school and do logics, so I hear
6 what you're saying. But, again, I believe that the plan
7 overall needs to meet the intent of reducing restoration
8 costs and outages.

9 Q Okay. And that's an interpretation of the
10 rule by you and the company, right?

11 A That is Duke's position on what the plan
12 entails.

13 Q Okay. And do you have the statute with you?

14 A I do.

15 Q Okay. I want to direct you to 366.96,
16 subsection three. And I want to see if you agree with
17 me that it reads, each public utility shall file,
18 pursuant to Commission rule, a transmission and
19 distribution storm protection plan that covers the
20 immediate 10-year planning period. Each plan must
21 explain the systematic approach the utility will follow
22 to achieve the objectives of reducing restoration costs
23 and outage times associated with extreme weather events
24 and enhancing reliability. Was that an accurate
25 reading?

1 A Yes, it was.

2

3 Q So would your answers about the and, in that
4 second sentence there between restoration costs and
5 outage times, would it be the same as you gave on the
6 rule?

7 A Yes, our storm protection plan does both
8 reduce restoration costs and outages for our customers.

9 Q Okay. If I could get you to turn to page 13
10 of your rebuttal testimony. I can say your revised
11 rebuttal testimony. Lines 20 --

12 MR. REHWINKEL: Excuse me, Mr. Chairman. I
13 have a pagination error on my question.

14 Mr. Chairman, if you'd give me a second, my
15 questions are pegged to be original file and my
16 pagination is off. So let me make sure my question
17 is to the revised.

18 CHAIRMAN FAY: Okay.

19 MR. REHWINKEL: I apologize. I'm back on
20 track.

21 CHAIRMAN FAY: Both copies, you're comfortable
22 that it's not any stricken material?

23 MR. REHWINKEL: Yes. Yes, I am.

24 CHAIRMAN FAY: Okay.

25 BY MR. REHWINKEL:

1 Q So I want to direct you, again, to your
2 revised testimony, but instead of 13, page 14, please,
3 and get you to go to lines four and five. You use the
4 word integrated on line five. Do you see that?

5 A Yes, I do.

6 Q Okay. I know you're quoting from Mr. Lloyd's
7 testimony, but can you point me to where in the rules or
8 the statutes that we just talked about, the legislature
9 or the Commission use the term integrated?

10 A No.

11 Q Is that because it doesn't exist in the rule
12 or the state?

13 A I actually don't know if that word is in
14 there. What was intended by the word, though, is that
15 it's an integrated plan, both from a transmission and
16 then the distribution perspective, as well as the plan
17 overall reduces restoration costs and outages for our
18 customers.

19 Q So let's go --

20 MR. REHWINKEL: I apologize, Mr. Chairman. I
21 did not realize the pagination had shifted.

22 MR. BERNIER: And I apologize, Mr. Rehwinkel.
23 I didn't think it had. That's on me. I apologize.

24 BY MR. REHWINKEL:

25 Q Okay. I'm going to go -- ask you to turn in

1 **your revised testimony to --**

2 MR. REHWINKEL: Let me stop before I ask this
3 question and just ask a logistical technical
4 question. Is it -- is the testimony that's going
5 to be inserted into the record going to be what I
6 call the revised testimony that has the strikes and
7 the pagination and lines will be that versus what
8 was originally filed?

9 CHAIRMAN FAY: Yes, it will be the updated.
10 And so if you want to reference it, I mean, there
11 are questions, if you're pointing to specific
12 testimony, you could reference the question. I
13 don't know how many questions related to the lines
14 you have, but then that would allow us, I think, to
15 follow up appropriately if those lines don't match
16 up.

17 MR. REHWINKEL: Okay.

18 CHAIRMAN FAY: I know you would love to go
19 through both of them and try to match them up at
20 this point, but I think for efficiency purposes,
21 probably if you can just point us to where that
22 line or direction is coming from, then the record
23 will reflect that.

24 MR. REHWINKEL: Yeah, I have no desire to go
25 through both. I just want to make sure my

1 questions point to the -- what's going to be in the
2 record when the transcript --

3 CHAIRMAN FAY: That's a good question. We
4 want to make sure we reference the right line.

5 MR. REHWINKEL: Thank you. Okay. So I think
6 for this these questions, page eight starting on
7 line 18, appearing over to page nine -- Mr.
8 Chairman, give me a second because there is not the
9 right correlation between the two. Can we take a
10 break off the record for a second? I apologize.

11 CHAIRMAN FAY: Sure. We'll give you five and
12 then just let me know if you need more time.

13 MR. REHWINKEL: Okay. Thank you.

14 (Brief recess.)

15 CHAIRMAN FAY: We are back. Mr. Rehwinkel,
16 you are recognized.

17 MR. REHWINKEL: I think we have a little bit
18 of housekeeping to do, Mr. Chairman. I've talked
19 to counsel for Duke and -- Public Counsel is very
20 well-aware of the scramble that ensued once the
21 order striking testimony came out. People put
22 information in these revised legislative format
23 documents in, and I believe that there may have
24 been an inadvertent formatting error that has
25 caused this issue. So I have adjusted my questions

1 to the new pagination and line and I'm ready to go.
2 We'll go through the cross. I think Ms. Howe has
3 some very important family business to attend to
4 this afternoon, and we want to make sure she does,
5 but I would propose that after we're done we
6 propose some housekeeping solutions to make sure
7 that we're -- the record is protected.

8 CHAIRMAN FAY: Okay. And what we'll do, once
9 we finish with Ms. Howe, we'll break for lunch.
10 We'll allow that time to clear up any confusion
11 that we may have. And then when we come back to
12 this afternoon, we'll be able to move swiftly and
13 finish the rest of witnesses and get folks on their
14 way. Okay. You're recognized.

15 MR. BERNIER: And I appreciate that, Mr.
16 Chairman. Apologies. That's on me.

17 CHAIRMAN FAY: I appreciate the lawyers just
18 working collaboratively to resolve this. There
19 are, you know, a number of firsts in the operation
20 of this and we want to protect the record, and from
21 all respects, and so this needs to be right. So
22 when we get back this afternoon, we'll make sure we
23 have it right. Thank you.

24 BY MR. REHWINKEL:

25 Q You are a registered professional engineer in

1 **Florida, right?**

2 A Yes, I am.

3 Q **And as a professional engineer and employee at**
4 **Duke, you have a duty to protect the public, is that**
5 **right?**

6 A Yes, I do.

7 Q **If a transmission structure is weakened over**
8 **time and no longer meets the required strength**
9 **requirements, does DEF have a duty to protect the public**
10 **and replace the structure to make it safe?**

11 A Yes. We have an obligation to meet the -- to
12 protect our customers should there be a weakening.

13 Q **Okay. And so regardless of the existence of**
14 **the SPP, DEF -- you would agree that DEF has a duty to**
15 **replace aged and weakened infrastructure?**

16 A Yes, we do have inspection programs that we
17 utilize to ensure the safety of the public.

18 MR. REHWINKEL: I apologize, Mr. Chairman. I
19 have run into another snag with this. I just -- if
20 I can I have one second.

21 CHAIRMAN FAY: Sure, Mr. Rehwinkel.

22 BY MR. REHWINKEL:

23 Q **Okay. If I could get you to turn to page 10,**
24 **starting on line three. You state, as a result "aging"**
25 **infrastructure, but not yet at the end of expected life**

1 and, therefore, still accomplishing its purpose could be
2 replaced with a new component that would simply perform
3 better, thereby strengthening the overall system
4 relative to the status quo, which I believe is the goal
5 of the SPP. Do you see that?

6 A Yes, I do.

7 Q Is that assuming that you use a new set of
8 design criteria, for example, grade B extreme wind, or
9 are you using the same criteria that the original
10 structure was designed to withstand?

11 A So, we would utilize the latest standards, the
12 latest NEC -- NESC standards and other standards that we
13 design to. So, it is my statement that it would be
14 the -- you know, the most recent standard with any
15 learnings and improvements that have been incorporated,
16 both in internal standards as well as external.

17 Q On page 11, line five, you disagree with Mr.
18 Mara that the towers at issue did not suffer. You
19 disagree with him and assert that the towers did not
20 suffer from a design flaw, is that right?

21 A Can you point me to what line you're on?

22 Q So line five on page 11.

23 A So I think line five, I'm saying that I
24 disagree with Mr. Morra's assertion that the program
25 should be removed from the storm protection plan.

1 Q You disagree -- well, if you look on -- let's
2 go to line -- specifically line 11 and that answer that
3 begins on line eight.

4 A Okay.

5 Q You disagree with Mr. Morra's assertion that
6 these lattice towers suffered from a design flaw, do you
7 not?

8 A I do disagree with Mr. Morra's assertion.

9 Q Do you have your -- the SPP with you? And
10 could you turn to page 38 of 56 in BML1?

11 A Yes, I do have -- what was that page number
12 again?

13 Q 38. Would you agree that on line 38 it
14 states, the upgraded activity will replace tower types
15 that have previously failed during extreme weather
16 events?

17 A Yes. And I would say the distinction there is
18 that it's not a design flaw, but merely a tower type
19 that was more prone to failure in extreme weather
20 events.

21 Q But would you agree that, within DEF 700
22 towers have been identified as having this design type?

23 A These 700 towers are of the same type as the
24 ones that failed in Hurricane Michael, yes.

25 Q So, if the design type has to be replaced,

1 **isn't there a problem with the design?**

2 A No, these towers are fully functional in
3 providing service for our customers today. Why they
4 meet the intent of the storm protection plan is they
5 harden and protect our customers from extreme weather
6 events.

7 Q **Let's go to page 13, lines one through seven.**
8 **Would you agree here that your testimony is that**
9 **replacing aging infrastructure is properly includable in**
10 **the SPP?**

11 A Yes, I would.

12 Q **Do you also agree that overhead service**
13 **conductor replacements should be included in the SPP?**

14 A I'm here representing the transmission
15 component.

16 Q **You don't have an opinion on that?**

17 A I do not.

18 Q **What about battery backup systems in**
19 **substations? Should they be included in SPP?**

20 A So we have not included them in our current
21 storm protection plan, but they are a system utilized
22 for the substation.

23 Q **So if you have -- based on the rationale that**
24 **aging infrastructure is properly includable in the SPP,**
25 **should battery backup systems and substations also be**

1 **included in the SPP?**

2 MR. BERNIER: Object, Mr. Chairman. That
3 calls for speculation. She's already testified
4 that's not a portion of the plan that we're
5 reviewing today.

6 CHAIRMAN FAY: She did answer the question.
7 If you have any response related to that, in
8 general, you're welcome to provide it, but
9 otherwise, I don't -- I don't see that -- the
10 battery issue here in the testimony.

11 MR. REHWINKEL: If I may respond. We're
12 talking about the propriety of including certain
13 projects in and certain projects out. So I
14 think -- well, I didn't say that right. We're here
15 to test the eligibility of programs for the SPP.
16 So it's, in our view, a proper line of inquiry to
17 ask about the line of demarcation of what's in and
18 what's not in if, on either side of that line, the
19 characteristics are the same or similar.

20 MR. BERNIER: And, Mr. Chairman, I just
21 respond that we are arguably here talking about the
22 programs at issue in our SPP, but we're not talking
23 about the entire suite of possible programs that
24 may exist in the world, but are not a part of our
25 filing.

1 CHAIRMAN FAY: Yeah, and I'm going to -- I'm
2 going to allow it with the caveat that it's
3 specific to your knowledge of that to Mr. Bernier's
4 point. Outside of that other program states, that
5 type of thing, you're not required to have that
6 knowledge. But if you do, you can provide the
7 answer appropriately.

8 THE WITNESS: What I would say is specific to
9 the overhead ground wires, they are a contributor
10 in extreme weather events. In fact, they when
11 failed, a lot of times we do have distribution
12 underbuild, and so they fall into the distribution
13 lines and slow down our restoration. So I would
14 just talk to the overhead ground wire program and
15 say that it is a contributor in storms. I don't
16 have a lot of knowledge in terms of the battery
17 systems and how they're contributing in a storm
18 outside of I know we have rolled in battery
19 trailers on occasion to support restoration.

20 BY MR. REHWINKEL:

21 **Q So substations are a component of the**
22 **transmission system, are they not?**

23 A Yes, they are.

24 **Q So is there -- is it your opinion that battery**
25 **backup -- battery systems in substations could be**

1 included in the SPP based on the rationale for replacing
2 aging infrastructure?

3 A So what I would say is that our suite of
4 programs does not include batteries and so I wouldn't
5 give a distinction there.

6 Q Are relays part of the transmission system?

7 A Yes, they are, in the distribution.

8 Q Okay. Are there aging relays in the
9 transmission system?

10 A So all of our assets are aging in some way or
11 another, but what I would share is that we do include
12 relays in our storm protection plan.

13 Q What about older transformers?

14 A Transformers are not in our storm protection
15 plan.

16 Q Do you have aging transformers that are part
17 of the transmission system?

18 A Yes, we do.

19 Q What about old or aging lightning arresters,
20 older vintage ones?

21 A So, again, all assets on the system are aging
22 in one capacity or another.

23 Q What was the line that you drew in the sand,
24 if you will, between what you -- what aging
25 infrastructure of those that we just included in the

1 list here today in my questions about some were
2 included -- about why those were not included in the
3 SPP, to the extent they weren't?

4 A So our programs are consistent with what we
5 filed in SPP 2020. So there were no other additional
6 programs considered for 2023.

7 Q Thank you. Let's go to page 15, lines three
8 through seven. And talking about the -- I think this is
9 talking about the cathodic protection subprogram,
10 correct?

11 A That's right.

12 Q You stated in your testimony that this program
13 provides systematic identification of structures that
14 need knitting or replacement, is that right?

15 A Kitting.

16 Q Kitting. I'm sorry. Is that right?

17 A That's correct.

18 Q And this is captured in the transmission
19 inspection program, isn't that right?

20 A So it's done through the cathodic protection
21 program. When we go out to install the anodes on the
22 towers, we're able to see below grade at that same time.
23 And so that's information that we're able to gather to
24 give us intel on the condition of the towers. And the
25 kitting is one application or one approach that can be

1 taken based on the condition of the existing
2 infrastructure.

3 Q So, do you have the BML2, page 39 of 41 with
4 you?

5 A Yes, I do.

6 Q Would you agree that on page 39 that it
7 describes the scope of cathodic protection measures
8 being limited to anode installations?

9 A Let me see what it reads. One second.

10 Q Okay.

11 A Yes, I read where we talk about the anodes.

12 Q As shown on that page, does the scope of the
13 project as presented to this Commission include kitting
14 or repairs of the structures?

15 A So in BML1 we talk to all of those points.

16 Q So what is the answer to my question?

17 A It's not reflected in BML2, but it is
18 reflected in BML1.

19 Q Okay. Thank you.

20 MR. REHWINKEL: Chairman, I think those are
21 all the questions I have on the testimony that is
22 admitted into the record.

23 CHAIRMAN FAY: Okay.

24 MR. REHWINKEL: And I do not expect to have
25 cross on the proffer.

1 CHAIRMAN FAY: Okay. Any cross?

2 MR. MATTHEIS: I have no questions, Mr.
3 Chairman.

4 CHAIRMAN FAY: Mr. Moyle.

5 MR. MOYLE: Thank you. Just a couple.

6 EXAMINATION

7 BY MR. MOYLE:

8 Q Mr. Rehwinkel asked you -- good morning.

9 A Good morning.

10 Q Asked you a series of questions about certain
11 programs. And, ultimately, said why did you not include
12 these programs in your plan? And you said, we just took
13 our plan from what was in 2020 and moved it forward, is
14 that right?

15 A Yeah, I reflected that our 2023 plan matches
16 what was filed -- similar to what was filed in 2020.

17 Q And in 2020, did you not include these
18 programs because you made the determination that they
19 weren't appropriate for inclusion in the storm
20 protection plans?

21 A In 2020, we did evaluate several different
22 programs. I will say that I don't recall for battery
23 specific, but we did evaluate several suites of programs
24 to come to the storm protection plan that we're
25 presenting for 2023.

1 Q You evaluated them in 2020 and say, let's not
2 put them in?

3 A So what we're presenting today is the plan
4 that reflects the benefits for our customer and meets
5 the intent of the law and the legislation.

6 Q It doesn't include things like batteries,
7 backup for substations?

8 A That's correct, it does not include batteries
9 in the current suite of programs.

10 Q You made a statement. Mr. Rehwinkel was
11 asking you about the reduction, the restoration costs
12 and outages, and you said that you believe that the
13 programs had to comprehensively meet a reduction in
14 restoration costs and outages, and I made a note about
15 comprehensively meet. What does that mean?

16 A So I meant the plan as a whole would meet both
17 the reduction and restoration costs and the reduction in
18 minutes of interruption.

19 Q Okay. And in terms of how you get to that,
20 would that mean that you could have programs or projects
21 that, on an individual basis, did not make the reduction
22 in restoration costs and the reduction in outage time?

23 A Is there a specific part of my testimony that
24 you're referencing?

25 Q No. I'm just trying to understand

1 comprehensively. When you say comprehensively that you
2 look at it in toto. I would assume -- I would assume
3 that you will also look at every project and every
4 program and make sure that the projects and the programs
5 also result in a reduction in cost and a reduction in
6 outage times, and I just want to confirm that.

7 A So we do reflect the savings, both from a
8 restoration cost and minutes of interruption in BML1.
9 And I think there's also some more information on BML2,
10 so that was information that was covered in our direct
11 testimony, as well.

12 Q As we sit here today, you're not aware of any
13 programs or projects that have -- that do not have a
14 reduction in restoration costs and do not have a
15 reduction in outages, correct?

16 A So what I would say is that the programs
17 together reduce restoration costs and minutes of
18 interruption for our customer -- outages for our
19 customers.

20 Q Could you maybe just give me a yes or no on
21 that? You explained, but if I could get a yes or no,
22 no, it'd be helpful.

23 A So I do have some commentary in my rebuttal.

24 Q Is there a yes or a no in the commentary?

25 A I'm getting there.

1 Q I'm not really trying to prolong it. I'm just
2 trying to -- you have knowledge about your plan. You
3 have more knowledge about your plan than I do. It's
4 your plan. I'm just trying to understand are there
5 programs or projects in here that do not result in a
6 reduction in restoration costs and a reduction in
7 outages; yes or no?

8 A So my statement is that they would all in some
9 way, maybe not directly, reduce restoration costs for
10 our customers. The one example I would give you is the
11 radially-fed substations. We -- in that scenario, it's
12 a radial-served customer or number of customers that we
13 would build a second line and loop them in. I kind of
14 described that layout yesterday. So within that
15 program, if a -- you know, an outage or damage to the
16 transmission system were to occur, having the second
17 line doesn't reduce cost unnecessarily, or at least
18 quantifiably. What I can share is that we would be able
19 to go in a more planned fashion to restore the customers
20 and, therefore, there would be savings from a
21 restoration cost perspective. It's just very hard to
22 quantify because every circumstance is different from a
23 storm perspective, you know, how many resources come in,
24 the complement of internal and contractors. There's a
25 lot of parameters that would come into play to give a

1 number associated with that, but I still maintain that
2 any avoided outage for our customer is ultimately going
3 to avoid costs.

4 **Q But they can't be quantified necessarily?**

5 A We did not quantify them, or our Guidehouse
6 model did not quantify them for the looping of
7 radially-fed substations. So in that exact -- example
8 of the program, that was a reduction in customer minutes
9 interruption --

10 **Q Okay. Are there others?**

11 A So there's no other programs from a
12 transmission perspective that doesn't meet the
13 requirements of restoration costs and restoration
14 outage -- reduction and outages. Tongue got stuck.

15 **Q That's all right. And are you aware of any
16 other in any other area?**

17 A Sir, I'm here talking about the transmission
18 program, so that's what I can talk to today.

19 **Q Right. And I assume that you wouldn't be
20 aware of maybe you had a meeting where everybody said,
21 let's talk about the five programs that don't do both of
22 these and you have knowledge of that --**

23 MR. BERNIER: I'll object, Chairman. She's
24 already answered that question.

25 CHAIRMAN FAY: Mr. Moyle, I believed she's

1 answered to the best of her abilities.

2 BY MR. MOYLE:

3 **Q Did you reach a conclusion when you did not**
4 **include batteries that the statute didn't allow them for**
5 **substations?**

6 A No, I didn't reach that conclusion.

7 **Q Well, I say you. I'm talking about Duke, not**
8 **you particularly.**

9 A I can't speak to batteries.

10 **Q Why, again, did you not include them in 2020?**

11 MR. BERNIER: I'm going to object, again, Mr.
12 Chairman. We're here talking about the 2023 plan,
13 not the 2020 plan or not any of the programs that
14 may not have been included in the program -- in the
15 plan.

16 MR. MOYLE: Well, I mean she said the 2023
17 plan is the same as the 2020 plan. And Mr.
18 Rehwinkel said, why didn't you include it. Said,
19 we just took everything in 2020. She also said
20 she's read the rule and has opinions with respect
21 to the rule in what's in and what's out. So my
22 question simply is, if you just carried over 2020,
23 did you make a judgment in 2020 as to whether there
24 was any kind of prohibition about batteries being
25 in or out?

1 me, included in the 2020 SPP?

2 A Yes, it was.

3 Q Same question for the cathodic protection
4 program.

5 A Yes, it was.

6 Q Okay. Thank you. Can you turn to BML2, page
7 39 of 41, please?

8 A Okay.

9 Q Mr. Rehwinkel asked you if that description
10 stated that the program was limited to anode
11 installations, but is that what that statement says?

12 A It doesn't say limited. It just talks about
13 the anode.

14 MR. BERNIER: Thank you very much. I have
15 nothing further.

16 CHAIRMAN FAY: Okay. Great. And there's no
17 exhibits to move in. We can now move to the
18 proffered portion of Ms. Howe's testimony, Mr.
19 Bernier.

20 MR. BERNIER: Thank you, Mr. Chairman. In
21 response to the Commission's order, striking
22 portions of Mr. Kollen's testimony, we would like
23 to proffer the originally filed rebuttal testimony
24 of Ms. Howe that was filed on June 30th, 2022, for
25 purposes of the record.

1 CHAIRMAN FAY: Show that proffered.

2 (Whereupon, prefiled proffered rebuttal

3 testimony of Amy Howe was inserted.)

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**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 AMY HOWE
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 A. My name is Amy M. Howe. My current business address is 13338 Interlaken Road, Odessa,
4 FL 33556.

5

6 **Q. Have you previously filed direct testimony in this docket?**

7 A. 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. PURPOSE AND SUMMARY OF TESTIMONY.**

1 **Q. What is the purpose of your rebuttal testimony?**

2 A. The purpose of my testimony is to provide the Company's rebuttal to assertions and
3 conclusions regarding the Transmission specific aspects of DEF's 2023-2032 Storm
4 Protection Plan ("SPP 2023" or "Plan") contained in the direct testimonies of OPC's
5 witnesses Kollen and Mara. Mr. Lloyd and Mr. Menendez will present additional rebuttal
6 of the testimonies of OPC's witnesses.

7
8 **Q. Do you have any exhibits to your testimony?**

9 A. No.

10

11 **Q. Please summarize your testimony.**

12 A. My testimony focuses on Witness Mara's and Witness Kollen's testimonies as they relate
13 to Transmission-specific programs and subprograms and rebut the misinformation and
14 incorrect conclusions contained within. In sum, when the Transmission programs are
15 properly understood as an integral part of the overall Plan, which is designed as a holistic
16 approach intended to meet the objectives identified by the legislature in section 366.96 (the
17 "SPP Statute"), it is clear the programs are properly included in the Company's SPP and
18 should be approved. OPC's witnesses' arguments to the contrary demonstrate a lack of
19 understanding of the programs themselves and are based on a narrow interpretation of Rule
20 25-6.030 (the "SPP Rule") that, in DEF's belief, unnecessarily curtails the scope of the
21 SPP contrary to the legislature's intent. Their testimony should be rejected by the
22 Commission.

23

1 **Q. In general, do you agree with the overall concerns and points of disagreement with**
 2 **Witness Mara's and Kollen's testimonies expressed by Mr. Lloyd?**

3 A. Yes. I have reviewed Mr. Lloyd's testimony and I completely agree with his general
 4 concerns and points regarding Mr. Mara's and Mr. Kollen's novel interpretations of the
 5 SPP Statute and Rule and note that many of Mr. Lloyd's points apply with equal force to
 6 the transmission programs as they do the customer delivery (distribution) level programs,
 7 so I will not repeat those points here. I will therefore limit my points of rebuttal to
 8 transmission-specific issues. Additionally, Mr. Menendez provides the Company's rebuttal
 9 of ratemaking related concerns, which is an area outside of my responsibility, so I express
 10 no opinion on those matters.

11
 12 **Q. ~~Mr. Kollen contends that each SPP Project should pass a cost effectiveness test as a~~**
 13 **~~condition of being included in the SPP. Based on your knowledge of the transmission~~**
 14 **~~system, is there any reason why such a test would be problematic?~~**

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15 A. ~~Yes, my concern is, due to the configuration of the transmission system, Mr. Kollen's test~~
 16 ~~would potentially exclude many transmission projects thereby limiting the effectiveness of~~
 17 ~~transmission programs. Within the Guidehouse model, if Bulk Electric System ("BES")~~
 18 ~~lines or substations were not directly serving our customers, the customer count was~~
 19 ~~reflected as zero (0) which may contribute to a benefit to cost ratio of less than 100%. In~~
 20 ~~other scenarios, if there were several lines serving a substation the customer count may~~
 21 ~~have been shown as zero (0) on those lines due to the inherent redundancy of the system~~
 22 ~~and again that would likely contribute to a benefit to cost ratio of less than 100%, and the~~
 23 ~~same is true for a tapped line to serve wholesale customers would reflect zero (0) retail~~
 24 ~~customers even though the tapped lines are generally served from the same lines that serve~~

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1 ~~substations with retail customers (i.e., daisy chained, which I will describe in more detail~~
2 ~~further down in my testimony). In most cases, when a tapped line experiences an outage,~~
3 ~~the full transmission line is interrupted until the faulted section can be isolated and repaired,~~
4 ~~hence, tapped lines need to be hardened.~~

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6 ~~It is essential that the Transmission system configuration is taken into consideration. The~~
7 ~~transmission system is an integrated grid and therefore upgrading only a portion will not~~
8 ~~provide the full effectiveness of a program to our customers. Limiting programs to only~~
9 ~~hardening facilities with a benefit to cost ratio of greater than 100% would be shortsighted~~
10 ~~and would exclude the BES transmission facilities as well as other facilities that do not~~
11 ~~directly serve our retail customers although they are critical to the overall Transmission~~
12 ~~grid.~~

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14 **Q: Are there any other reasons why the configuration of the transmission system is a**
15 **relevant consideration?**

16 A: Yes. The transmission and distribution systems are integrated and work together to serve
17 our customers. Many industrial and wholesale customers receive electric service straight
18 from the transmission system, specifically at 69kV, which means that any upgrades to the
19 transmission system will directly increase continuity of service and improve overall
20 reliability for those customers. Additionally, service for all customers originates from the
21 transmission system (which acts as a bridge between the generation and the distribution
22 system); therefore, any upgrades to the transmission system will have a positive impact on
23 the overall level of service provided to our customers even if, as described above, due to
24 redundancy reasons a given line is shown as “serving” zero (0) customers.

1
2 The BES is the highest voltage portion of the transmission system, consisting of
3 transmission lines and equipment operating above 100kV and serving to transmit large
4 amounts of power throughout the system. The BES is subjected to mandatory reliability
5 standards published and administered by the North American Electric Reliability Council
6 (“NERC”) under the authority of the Federal Energy Regulatory Commission (“FERC”).
7 These standards require sufficient redundancy within the BES to allow continued operation
8 even when one or more elements of the system is out of service.

9
10 That said, most of DEF’s BES assets do not directly serve customers but instead serve as
11 critical infrastructure maintaining power flow within and between DEF, neighboring
12 utilities, and Independent Power Producers.

13
14 As a result, failure of a single BES element will often not cause a direct outage to our
15 customers but removes a level of redundancy for the entire BES. Sequential failures within
16 the system can cause significant disruption to power flows and cause extensive customer
17 interruptions as could occur during extreme weather events and therefore it is critical to
18 harden these facilities for extreme weather events and to reliably serve our customers. The
19 BES transmission system is the linkage between the generation facilities to our 69kV
20 system and distribution system that ultimately serves our customers’ homes and businesses.
21 Thus, although strengthening the BES may not have a direct impact or quantifiable
22 reduction to customer outages due to the inherent redundancy of the BES, it is a critical
23 component to reliably serving our customers and as such it would defy all logic and sound
24 planning to deny DEF (or any utility) the ability to include such hardening programs and

1 projects in an SPP intended to strengthen the grid as a whole based on an artificial cost-
2 benefit standard that has no support in either the governing statute or rule.

3
4 The 69kV transmission lines and equipment are not considered a part of the BES but are
5 transmission lines that deliver power to many of the distribution substations. The level of
6 redundancy, or in this scenario alternate sources, in the 69kV portion of the transmission
7 system, and its ability to withstand an outage of an element of the system without resulting
8 in customer outages, is different from the higher voltage lines within the BES.

9
10 DEF's 69kV lines typically run from a circuit breaker in one source substation to a circuit
11 breaker in another source substation, with several distribution substations fed along the
12 circuit in a "daisy chain" fashion. These two sources to the circuit provide a certain level
13 of redundancy. A fault within a segment of such a 69kV line will often result in an outage
14 to the substations and distribution circuits between the circuit breakers, until the faulted
15 section can be identified and the switches along the line opened or closed to isolate the
16 faulted section and restore power to the substations from the un-faulted portions of the
17 circuit.

18
19 **Q. At the outset, do you have any over-arching concerns with OPC's position in this**
20 **docket?**

21 A. Yes, I do. I agree with Witness Lloyd in that, while I am not a lawyer (though I note that
22 neither of OPC's witnesses are lawyers either), it appears to DEF that their interpretation
23 of the SPP Statute and Rule is very constricted by limiting SPP eligibility to projects and
24 programs that both decrease outage restoration costs and outages/outage duration. Specific

1 to transmission, the included programs contribute to the systematic nature of the overall
2 Plan that accomplishes these goals, over time, in a cost-effective manner; however, not
3 every program and/or subprogram is intended to reduce *both* restoration costs and outage
4 times. For example, Structure Hardening in its entirety is focused on reduction of outage
5 times and restoration costs, however, the primary benefit of the Gang Operated Air Break
6 (“GOAB”) sub-program is reduction of outage times. Of course, by reducing the outage
7 time and sectionalizing the facilities impacted by the extreme weather event inherently
8 there are restoration cost savings that are hard to quantify. That said, DEF simply cannot
9 agree that either the Legislature or Commission intended to exclude any project or program
10 (or sub-program) from inclusion in the Plan because it does not, on its own, accomplish
11 each of the goals identified in the SPP statute and rule.
12

13 **Q. Have you fully described the transmission programs within the SPP?**

14 A. Yes. The transmission programs have been described in Witness Lloyd’s Exhibit BML-1
15 – Program Descriptions, and further explained in my previously filed direct testimony. In
16 this rebuttal testimony, I will only address the specific contentions raised by OPC’s
17 witnesses.
18

19 **Q. Do the transmission programs put forward under DEF’S SPP meet the requirements**
20 **of Rule 25-6.030, F.A.C.?**

21 A. Yes, in fact they are the same programs that are included in DEF’s currently approved SPP.
22

1 **Q. In Witness Mara's testimony, he opines that not all of DEF's Storm Protection Plan**
2 **Programs should be approved by the Florida Public Service Commission. Do you**
3 **agree with Witness Mara's opinion?**

4 A. No, I do not agree with Witness Mara's opinion; I believe all programs DEF included in
5 its SPP should be approved as they all contribute to the overall efficacy of the Plan. The
6 Plan DEF submitted meets the requirements of the Statute and Rule as it will reduce
7 restoration costs and reduce outage durations during extreme weather events; it does so
8 through a suite of programs that each play a part in achieving the Plan's goals. I will address
9 why I disagree with Witness Mara's opinion regarding each Transmission program and
10 subprogram he discussed and further explain how they meet the requirements of Rule 25-
11 6.030.

12
13 **Q. Mr. Mara contends the SPP rule requires programs to increase asset strength beyond**
14 **the original design of the asset being replaced. Do you agree?**

15 A. No, that is not my understanding. While I agree programs that increase strength beyond
16 original design would certainly qualify for the SPP, I am not aware of any such limitation
17 in the Statute or Rule, nor has either of OPC's witnesses cited one. As I understand the
18 Statute and Rule, SPP programs and projects are intended to protect and enhance the system
19 for the purposes of reducing restoration costs, reducing outage times, and improving
20 overall service reliability. Again, though I am not an attorney, it seems logical and
21 consistent with the SPP's goals to include enhancements that, while they may not
22 strengthen facilities relative to the original design, work to arrest the natural weakening or
23 deterioration of those assets, thereby preserving the strength of the facilities so they can

1 better resist the impacts of extreme weather conditions. To DEF, this is a cost-effective
2 means of enhancing the system that will provide real benefits to our customers (as opposed
3 to, for example, simply replacing all transmission facilities).

4
5 Examples of sub-programs that protect the strength of the Transmission system and are
6 projected to reduce outage times and restoration costs resulting from extreme weather are
7 Cathodic Protection and Replacing Overhead Ground Wire.

8
9 Below, I will further describe both cathodic protection and OHGW subprograms within the
10 Structure Hardening program and how they meet the objectives of the rule as important
11 components of a comprehensive Plan.

12
13 **Q. Witness Mara states that “hardening means to design and build components to a
14 strength that would not normally be required” and that “aging infrastructure”
15 should not be replaced as part of the Storm Protection Plan. Do you agree with
16 Witness Mara’s statement?**

17 **A.** No, I cannot agree with that assertion because it simply ignores the reality of operating a
18 utility system. Obviously, our system is exposed to the elements all the time, and in Florida
19 those elements can be brutal on utility infrastructure. As a result, “aging” infrastructure not
20 yet at the end of its expected life and therefore still accomplishing its purpose could be
21 replaced with a new component that will simply perform better, thereby strengthening the
22 overall system relative to the status quo, which I believe is the goal of the SPP. A program
23 that includes such replacements (for example, structure hardening and the overhead ground

1 wire replacement sub-program I will discuss later) is properly included in the Plan. To the
2 extent OPC's position relative to inclusion of these types of programs within the SPP is
3 based on cost-recovery concerns (i.e., double recovery of costs in base rates and through
4 the SPPCRC), those concerns are addressed by Mr. Menendez's rebuttal testimony.

5
6 **Q. Would you agree with Witness Mara's conclusions relative to transmission
7 construction using the NESC (National Electric Safety Code)?**

8 A. On page 7 of Witness Mara's testimony, he states specifically relative to transmission
9 poles: "In transmission system hardening, many utilities are using non-wood poles (steel
10 or concrete) to replace existing wood poles. The upgrade to non-wood poles is not required
11 by the NESC but these non-wood poles have proven to reduce outages and reduce outage
12 times due to the superior ability of the non-wood poles to survive during extreme
13 windstorms." DEF agrees that conversion from wood to non-wood poles has proven to
14 reduce outages and outage times and meets the requirement of the Rule. In fact, all the
15 costs proposed in DEF's SPP related to transmission poles are to replace wood poles with
16 non-wood poles, so Mr. Mara agrees that those costs are properly recoverable under the
17 SPP.

18
19 **Q. Do you agree with Mr. Mara's assertion that the lattice tower replacement
20 subprogram should be eliminated from the plan?**

21 A. No, absolutely not, nor do I agree with any of the points Mr. Mara relies on in reaching his
22 conclusion. First, Mr. Mara stated "Transmission lines have been required by the NESC to
23 be built for extreme wind events since at least 1977. Failure due to design flaw should not

1 be a SPP activity.”¹ However, Mr. Mara chose to ignore, or possibly did not know because
2 he failed to ask, that the lattice towers in question predate 1977, therefore there was no
3 NESC required extreme wind loading standard at the time (by his own admission) and the
4 towers did not suffer from a “design flaw” any more than any component that has been
5 updated over time (or which was built to a given standard that has been subsequently
6 modified). Thus, this support for his conclusion fails.

7 He continues, “If DEF owns towers that fail to meet strength requirements when
8 constructed, then replacement costs should not be considered an ‘upgrade’ and therefore
9 should not be funded through the SPP.”² It is irrelevant whether DEF agrees with this
10 general proposition or not, as Mr. Mara offers it without identifying any such towers, he
11 believes failed to meet strength requirements when constructed. To DEF’s knowledge, no
12 such towers exist, nor does he opine that the design *was* flawed, but merely states “if” it
13 was flawed it should not have been accepted and thus cannot be a proper SPP program
14 (again, with no support). Thus, this contention likewise fails.

15 Mr. Mara’s next attempt at supporting his conclusion fares no better as it is simply a repeat
16 of his contention that a program that replaces aging infrastructure should be excluded,
17 though this time stated as an accepted fact rather than a dubious proposition.³

18 Mr. Mara next claims “Replacing towers with new towers that meet the same weather
19 loading condition will not add to resiliency. Rather it simply maintains the status quo in
20 terms of strength.” As discussed generally above, this argument ignores reality by seeming

¹ Mara Testimony, pg. 28, ll. 20-22.

² *Id.* at pg. 28, l. 22 – pg. 29, l. 2; *see also id.* at pg. 29, ll. 6-7 (“If the tower design was flawed, it would have been imprudent for DEF to accept the design and construction of the tower in which case the cost should also be excluded from the SPP.”).

³ *See id.* at p. 29 ll. 2-4.

1 to believe that the resiliency of the system is somehow a static measure that does not change
2 over time, and that somehow a piece of infrastructure should rationally be expected to
3 retain all its strength throughout its service life. While I wish that were the case, it simply
4 is not. In the real world, accelerated change outs of aging infrastructure increases resiliency
5 and reliability as there would be less infrastructure damaged during an extreme weather
6 event, resulting in fewer failures to mitigate and quicker restoration time for DEF
7 customers. Moreover, Mr. Mara fails to recognize that Tower Upgrades are designed to the
8 latest NESC code, which is updated in 5 years cycles. Equipment standards, both internal
9 and external, are continuously reviewed and updated. Thus, new equipment installations
10 include the improvements as part of DEF's updated standards, meaning the towers are not
11 being replaced "like for like" at all.

12 This subprogram is proper and should be retained.

13
14 **Q. Witness Mara asserts that deteriorated overhead ground wire is simply an aging**
15 **infrastructure the replacement of which does not increase strength. Can you please**
16 **explain what was meant in your testimony by the term deteriorated OHGW and why**
17 **the subprogram is appropriate for SPP?**

18 A. Yes, but first I would reiterate my points above that programs or subprograms intended to
19 replace aging infrastructure that are not functioning to the level they did when originally
20 installed due to the passage of time and/or because they have simply been performing as
21 designed but cannot realistically be expected to do so indefinitely, are properly included in
22 the SPP.

1 With that said, Deteriorated Overhead Ground Wire (“OHGW”) is static conductor that
2 has lost some of its strength but still performs the designed function, albeit at reduced
3 capacity. Overhead static wire deterioration occurs when the protective galvanization has
4 been sacrificed and static in this condition is more prone to failure. It is known and accepted
5 that all static sizes and material combinations will lose their galvanization and eventually
6 rust, thus reaching the end of life. Not only is the static more susceptible to failure from
7 both wind and lightning events, but the grounding qualities become compromised.
8 Therefore, the OHGW is not “deteriorated” in the sense of having been poorly designed or
9 maintained; rather, it is simply an asset that, if replaced, will strengthen and better protect
10 the system against the effects of extreme weather relative to the state of the system as it
11 exists today. The OHGW is a contributor to CMI and restoration costs during extreme
12 weather events and therefore, its enhancement serves to strengthen the system as intended
13 by the SPP statute and rule.

14
15 **Q. The Gang Operated Air Break (“GOAB”) Line Switch Automation subprogram was**
16 **addressed by Witness Mara as a subprogram that should not qualify for the Storm**
17 **Protection Plan as it does not reduce the restoration costs. Do you agree with his**
18 **assessment?**

19 A. No, I do not agree with Witness Mara’s assessment. As stated in Witness Lloyd’s
20 testimony, “From DEF’s perspective, the Legislature directed the utilities to develop
21 integrated storm protection plans that as a whole are intended to achieve the goals of
22 reducing restoration costs and outage times to customers and improving overall service
23 reliability. DEF’s Storm Protection Plan is the sum of its parts with the programs working

1 together to reduce restoration costs and outages times associated with extreme weather
2 events.” The GOAB subprogram is a piece of the overall Structure Hardening program that
3 promotes minimal outage time by providing the ability to perform remote sectionalizing to
4 restore the customer. It also provides relay information on the location of the event.
5 Logically, the time for a crew to patrol the line is reduced and in turn, the cause of the event
6 can be addressed without additional outage time to customers. The benefit of greatly
7 reducing the outage time for our customers should not be discounted. In some of DEF’s
8 remote areas, this could reduce from hours to minutes to resolve the outage. Minimizing
9 outage time also effectively manages overall cost required to address the cause of the event.
10 Thus, it is DEF’s position that the GOAB subprogram has multiple benefits and is a part
11 of the overall reduction in restoration costs projected from the Structure Hardening
12 program.

13
14 **Q. Mr. Mara contends that the Cathodic Protection subprogram within the**
15 **Transmission Structure Hardening Program should be excluded from the Plan**
16 **because it does not increase strength or improve resiliency. Do you agree?**

17 A. No, I do not agree. As discussed above, I think a subprogram that arrests the natural
18 degradation of a component, thereby maintaining its strength for a greater period of time,
19 makes the asset more resistant to the effect of extreme weather and therefore makes the
20 system as a whole more resilient. The Cathodic Protection sub-program meets the
21 requirements of Rule 25-6.030 through the mitigation of the degradation to structure
22 capacity from groundline corrosion and systematic identification of structures that need
23 kitting or replacement. This program aims to cost effectively address corrosion issues

1 across the entire DEF lattice fleet without prematurely replacing the assets, which directly
2 provides reliability benefits by preserving overall system strength on a larger scale than
3 individual asset change-out. The program also installs reinforcement kits on structures with
4 existing groundline corrosion that are in otherwise good health. As Witness Mara correctly
5 notes “When the strength of a tower or structure decays below a certain level, per the
6 NESC, the structure must be replaced or rehabilitated.” Restoring groundline capacity of
7 the structure allows the structure to perform as originally designed for a greater period of
8 time at a fraction of the cost to customers compared to structure replacement. In the end,
9 this subprogram reduces restoration time after major storms through verification and
10 preservation of DEF’s lattice towers system health, and through mitigation of existing
11 vulnerabilities from ground line corrosion. As a result, I recommend that this sub-program
12 be included in the SPP.

13
14 **Q. Mr. Mara recommends excluding portions of the Transmission Substation Flood**
15 **Mitigation Program. Do you agree with his contentions regarding the need for the**
16 **challenged aspects of the program?**

17 A. No, I do not. First, I would note that all substations were built to the existing standards in
18 the year they were installed. Witness Mara asserts that: “substations built after 1973 should
19 have been designed with the knowledge of potential flood waters and designs should have
20 accounted for this predictable occurrence.” The SPP Flood Mitigation program is directed
21 to the substations at the highest risk of flooding per the most current 100-Year Federal
22 Emergency Management Agency (“FEMA”) flood plain, which is under continuous review
23 and updated as needed. For example, the FEMA Floodplain map for the coastal area was

1 updated in June of 2020. These flood plain changes can result in substations that were not
2 within the flood plain at construction being “reclassified” such that the original design,
3 which was appropriate at the time, is no longer sufficient. The model established for
4 Substation Flood Mitigation evaluates substations in the flood plain with the potential
5 based on historical data to have at least four (4) feet of flood mitigation, and then DEF
6 resources perform further analytics to ensure the prudence and most cost-effective measure
7 for mitigation.

8
9 **Q. What is your response to the comment that DEF has not suffered outage time due to**
10 **flooding of DEF’s substations?**

11 A. Witness Mara shared his understanding that DEF has not had any outages due to flooding
12 of its substations in recent years, stating, “there was one instance where sandbags were
13 deployed at a control house but there were no outages.” Witness Mara seems to indicate
14 that a 3-year flood history is indicative of a 100-year flood, but substations are built to
15 remain functioning over a prolonged period, so a 3-year window is not sufficient to
16 prudently plan for the long-term functionality and service of the substation (as discussed
17 above, the NESC code is updated regularly while the FEMA flood plain is updated as
18 necessary, both of which can result in changed requirements at specific locations).

19 I recommend retaining the Substation Flood Mitigation Program in its entirety.

20
21 **Q. Mr. Mara recommends eliminating the Loop Radially Fed Substation Program from**
22 **the plan in favor of prioritizing hardening transmission lines through replacing wood**
23 **structures with non-wooden structures. Do you agree with this approach?**

1 **A.** No, I do not agree for a couple of reasons. For one thing, accepting what he said regarding
2 the lower rate of failure for hardened structures as true, it does not mean that hardened
3 structures will be able to withstand each and every extreme weather event that may
4 eventually occur. Hence, the looping of radially fed substations (as discussed below) will
5 further harden the system against the impacts of extreme weather events in a cost-effective
6 manner.

7 The looping of radially fed substations is targeted at specific existing “single point of
8 failure” vulnerabilities. For example, a short 69kV radial tap serves a substation that cannot
9 be isolated and restored through switching if a line fault occurs on that tap. A typical design
10 allows for a slight adjustment to the line route to “loop through” the substation so there is
11 no portion of the transmission line that would prevent restoring power to the substation.

12 Looping through the substation in this manner allows the transmission line to be
13 “sectionalized” by operating switches to isolate a faulted section of the line and to restore
14 the electric supply to the substation in the event of a line outage. Switches installed within
15 the substation can also be equipped with remote monitoring and control more easily than
16 switches located on the transmission line at a distance from the substation.

17 The ability to isolate events or damage due to extreme weather events allows for reduction
18 of outage times. Restoration costs are reduced because of the ability to quickly restore
19 customers out of service and have a more planned approach to any repairs required versus
20 dedicating resources to first identify and then repair damage in an emergency response.

21
22 **Q. Mr. Mara recommends eliminating the Substation Hardening Program from the plan**
23 **indicating that the BCA is only 1%. Do you agree?**

1 A. No, I do not agree. I referred to Exhibit KML-2 and it was unclear how the 1% BCA he
2 refers to was calculated. The 1% BCA does not match Table 1 located in Witness Lloyd's
3 Testimony. Table 1 clearly shows all of DEF's programs have a benefits-to-cost ratio
4 greater than 1, which is inclusive of the Substation Hardening program. As a result, I
5 recommend that this program be included in the SPP.

6
7 **Q. Describe why the Transmission Substation Hardening Program meets the**
8 **requirements of Rule 25-6.030, F.A.C.**

9 A. The Transmission Substation Hardening program is intended to upgrade targeted
10 equipment that is generally more vulnerable during extreme weather events to protect the
11 integrity of the grid. Simply put, relays and breakers are needed as a combination to protect
12 the Transmission and Distribution systems to ensure reliable service for our customers.
13 Witness Mara opines that "outages will still occur and therefore the cost to restore will not
14 be reduced." Rather than provide a basis for eliminating the program, this opinion supports
15 the need for the Substation Hardening program. As faults occur on the system, the breakers
16 and relays are relied upon to operate and safely isolate the faulted segment, which reduces
17 outages and outage durations to customers connected to facilities that are not damaged.
18 During extreme weather events, breakers and relays are called upon to operate more
19 frequently and failure to operate, when necessary, would result in longer outage durations
20 for our customers. We also expect that the ability to isolate the faulted segment will also
21 decrease restoration costs by saving time identifying areas of need, thereby allowing DEF's
22 restoration crews to focus efforts appropriately.

23

1 **Q. Do you agree with Witness Mara that there are no significant performance changes**
2 **with using modern breakers?**

3 A. No. During extreme weather events, breakers and relays will operate multiple times as the
4 weather affects the transmission and distribution systems. Oil breakers have a limited
5 number of operations especially in circumstances where they are operating numerous times
6 over a short period, such as during extreme weather events. When oil circuit breakers are
7 repeatedly called to operate, they can generate arcing gasses within the oil tank that can
8 accumulate and result in catastrophic failure. Replacement of the breakers with gas or
9 vacuum breakers, upgrades to a faster response time and they can withstand a higher
10 number of operations. Failure to operate fast enough to clear fault currents will activate
11 backup protection systems, potentially leading to a larger outage for our customers.

12

13 **Q. Do you agree with Witness Mara that def has no choice but to replace**
14 **electromechanical relays with digital?**

15 A. Not necessarily; DEF does have a choice regarding the timing of the upgrade from
16 electromechanical to digital relays. Electromechanical relays still perform the designed
17 function, and DEF has an available inventory of electromechanical relays it can use,
18 however, they do not offer the additional benefits that I describe below. DEF has
19 implemented electromechanical for electromechanical relay replacements to extend the life
20 of the facility and maintain reliability for our customers. DEF agrees the upgrade of non-
21 communicating electromechanical relays to digital relays provides enhanced monitoring
22 and communication capability and eventually all relays on the system will be upgraded to
23 digital, but to perform that upgrade at this time would be cost prohibitive.

1 Protection systems (i.e., grouping of relays) are designed to detect and isolate faults or
2 disturbances on the transmission or distribution systems. During extreme weather events,
3 relays are needed to quickly identify the fault thereby limiting the severity and spread of
4 system disturbances and preventing possible damage to equipment. Additionally, some
5 digital relays enable the use of device data to calculate the distance of a line fault allowing
6 for faster identification and restoration. Substation Hardening reduces restoration cost and
7 outage time through the reduced resource time needed to manually patrol the length of the
8 transmission line or facility prior to restoring customers or the BES transmission system.
9

10 **Q. On June 27, 2022, OPC filed a Motion to Accept Amended Testimony along with**
11 **amendments to both witnesses' pre-filed direct testimonies. Have you reviewed the**
12 **amended testimonies, and if so, what impacts do the amendments have on your**
13 **rebuttal testimony?**

14 A. Yes, I have reviewed the proposed amended testimonies, as well as Mr. Lloyd's response
15 contained in his rebuttal testimony. I fully agree with Mr. Lloyd and also believe that,
16 because OPC's witnesses' testimonies continue to include their faulty reasoning and
17 conclusions, as I have discussed in the foregoing testimony, it is important to present the
18 Company's response as it pertains to the Transmission specific portions of the Plan.
19

20 III. CONCLUSION

21 **Q. Mrs. Howe, your rebuttal covers a lot of ground, but did you respond to every**
22 **contention regarding the Company's proposed plan in your rebuttal?**

1 A. No. Intervenor testimony on the SPP involved many pages of testimony and I could not
2 reasonably respond to every single statement or assertion and, therefore, I focused on the
3 issues that I thought were most important in my rebuttal testimony. As a result, my silence
4 on any particular assertion in the intervenor testimony should not be read as agreement
5 with or consent to that assertion.

6

7 **Q. Does this conclude your testimony?**

8 A. Yes.

1 CHAIRMAN FAY: And then I believe, Mr.
2 Rehwinkel, you said there's no proffered cross on
3 this. Mr. Moyle. Ms. Eaton. Nucor.

4 MR. MATTHEIS: No cross.

5 MR. MOYLE: No questions.

6 CHAIRMAN FAY: Okay. With that, Ms. Howe, you
7 are excused. Safe travels. Hopefully we got you
8 out of here on time.

9 THE WITNESS: Yes, thank you for
10 accommodating.

11 (Witness excused.)

12 CHAIRMAN FAY: With that, Commissioners, we
13 will allow a lunch break until 1:15. I will ask
14 the attorneys for the parties to please take
15 some of that time -- you can eat a little bit, but
16 spend most of that time resolving any of the
17 numbering or the issues that we've had come up.
18 And when we come back this afternoon, we'll move
19 fairly quickly through the witnesses.

20 (Lunch recess.)

21 CHAIRMAN FAY: All right. Good afternoon,
22 everyone. Welcome back. We are going to move into
23 Duke's other two witnesses. Just real quick for
24 the record, Commissioner Graham is not going to be
25 available this afternoon, the hearing, but he is

1 going to review the record before any decision is
2 made.

3 So, with that, Mr. Bernier, we'll recognize
4 you to call your next witness.

5 MR. BERNIER: Thank you, Mr. Chairman. Duke
6 Energy calls Mr. Brian Lloyd.

7 Whereupon,

8 BRIAN LLOYD

9 was recalled as a witness, having been previously duly
10 sworn to speak the truth, the whole truth, and nothing
11 but the truth, was examined and testified as follows:

12 EXAMINATION

13 BY MR. BERNIER:

14 Q Mr. Lloyd, I see you're up there. Good
15 afternoon.

16 A Afternoon.

17 Q You recall, sir, that you were sworn the other
18 day and you remain under oath?

19 A Yes, sir.

20 Q Thank you. In response to the Commission's
21 order striking portions of Mr. Kollen's testimony, did
22 you file amended rebuttal testimony on August 1st, 2022,
23 striking portions of your rebuttal testimony in response
24 to Mr. Kollen's stricken rebuttal testimony?

25 A Yes, sir, I did.

1 Q Thank you. And do you have a copy of that
2 amended rebuttal testimony with you today?

3 A I do. Yes, sir.

4 Q Thank you. And other than the changes that we
5 mentioned, do you have any additional edits to make to
6 your amended rebuttal testimony?

7 A No, sir, I do not.

8 Q If I were to ask you the same questions here
9 today, would your answers be the same?

10 A Yes, sir, they would.

11 Q Thank you.

12 MR. BERNIER: Mr. Chairman, we enter Mr.
13 Lloyd's amended August 1st rebuttal testimony into
14 the record as though read.

15 CHAIRMAN FAY: Okay. Show inserted.

16 (Whereupon, prefiled rebuttal testimony of
17 Brian Lloyd was inserted.)

18

19

20

21

22

23

24

25

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

JULY 1, 2022

1 **I. INTRODUCTION AND QUALIFICATIONS.**

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

3 A. 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 A. 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. PURPOSE AND SUMMARY OF TESTIMONY.**

14 **Q. What is the purpose of your rebuttal testimony?**

1 A. 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

1 intended to accomplish these goals, over time, in a cost-effective manner. If, as OPC and
2 specifically Mr. Mara suggest, the Company was required to limit its proposed programs
3 to just those that themselves are projected to accomplish the goals set out in the statute, the
4 ability to systematically harden the system against the effects of extreme weather would be
5 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.

15 Moreover, DEF is required to plan for a range of contingencies and cannot assume a “one
16 size fits all” approach. For example, the “extreme weather conditions” we must be
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

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

3 The point being, our intent, which we believe aligns with the legislature's directive, was to
4 propose a holistic Plan to systematically harden the system to better withstand the range of
5 extreme weather conditions expected to impact the state. The Plan, as a whole, is projected
6 to achieve the multi-pronged goals of reducing storm restoration costs, outage times, and
7 improving overall reliability. Taking the myopic approach offered by OPC would
8 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**

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

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

1 ratio for each program in DEF's SPP 2023. Table 1 clearly shows, without question, that
 2 DEF's programs have a benefits to cost ratio greater than 1, which indicates that the
 3 benefits are greater than the costs. DEF's Plan, as outlined in Exhibits BML-1 and BML-
 4 2, provides long-term benefits to the customers and State of Florida. I will provide further
 5 details as to why Witness Mara's and Witness Kollen's commentary on the benefits and
 6 costs are incorrect.

7 Table 1

Program	PV Benefits	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?**

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

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

3
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 DEF establishes its overall SPP program spend, including capital
11 expenditures, with consideration of the impact to customer rates as a key
12 consideration, but must also balance this impact with the goals and
13 requirements of the Storm Protection Plan statute and rule and the outage
14 risk a non-hardened grid creates during extreme weather events. The
15 establishment of SPP program spend is accomplished at the outset of the
16 plan development process and therefore represents an express decision not
17 to expend greater amounts which would have a greater impact on customer
18 rates. Thus, the entirety of the plan represents a balancing of the goals of
19 the SPP with impact on customers' rates.
20

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
4 the budgets was the limitation of resources” to complete the Plan’s goals, and it appears to
5 DEF that Mr. Mara has taken a statement regarding the consideration of “available
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
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13

14 **Q. Witness Mara claimed that the benefits of hardening will be reduced over time as the**
15 **hardening sub-program is applied to feeders that are not as vulnerable to extreme**
16 **wind and may have less tree cover or stronger poles already in place. Do you agree**
17 **with this assessment?**

18 A. While I agree in principle that DEF is prioritizing projects for the most “vulnerable” areas
19 first, as outlined in DEF’s benefits to cost analysis, Rule 25-6.030 requires DEF to update
20 its SPP at least every three years, which I believe was a very well contemplated rule as it
21 allows an opportunity to reevaluate the system and adjust plans accordingly. For example,
22 if a circuit is hardened through means outside of the SPP, such as during a highway
23 relocation project or customer requested undergrounding project, the circuit could be

1 assessed, and the plan changed. However, I am concerned that Witness Mara is discounting
2 the customers that are served by the circuits that he says are less “vulnerable.” Those
3 customers can still be impacted by extreme weather events and, as I stated above, should
4 have the opportunity for their circuits to be hardened even if the benefits to cost ratio is
5 lower than higher prioritized projects.
6

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

12 A. Yes, I believe that Witness Kollen’s statements on societal benefits and their inclusion in
13 the benefits/cost analysis are misguided. Dismissing the societal benefits misses the overall
14 purpose of the SPP which is to protect and strengthen the grid to reduce the impact from
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.

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

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

4 Another example that shows the true value of having electric service to customers is, after
5 Hurricane Irma, a customer was in such need for service that they called in a bomb threat
6 against the facility where I was working. Obviously, this is extremely out of line, but it
7 reinforces how customers are dependent on electricity to power their lives and benefit from
8 having service. Not attributing a value to that benefit is shortsighted and ignores the reality
9 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
15 improvements in the United States. The ICE Calculator is funded by the Energy Resilience
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
19 **Q. Witness Mara utilizes ten years of benefits when calculating a benefit to cost ratio
20 for the Lateral Hardening program. Is this a proper methodology for comparing
21 programs' benefits and costs?**

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

1 ten years' worth of benefits compared to the costs of the programs would be understating
2 the value of the investments. DEF's methodology properly considered the benefits
3 programs will deliver over the life of the assets, as outlined in Exhibit BML-2, by assessing
4 costs and benefits over a 30-year period for distribution programs and a 40-year period for
5 transmission programs.
6

7 **Q. In Witness Mara's testimony, he states "rate payers are paying more for the SPP and**
8 **'reduced' storm costs than they would if the electric utilities did no storm hardening."**
9 **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
15 spend to only five years of historical restoration costs, when, as described above, DEF is
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**

1 **Q. On June 27, 2022, OPC filed a motion to accept amended testimony along with**
2 **amendments to both Witnesses' pre-filed direct testimonies. Have you reviewed the**
3 **amended testimonies, and if so, what impacts do the amendments have on your**
4 **rebuttal testimony?**

5 A. Yes, I have reviewed the proposed amended testimonies. As I understand the proposed
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
15 Because the amended testimonies continue to include the incorrect premises and
16 assumptions, mischaracterizations and misunderstandings, and unreasonably constricted
17 interpretation of the governing statute and rule, I continue to believe it is appropriate to
18 address those issues for the Commission notwithstanding that the witnesses are no longer
19 advocating for exclusion of certain programs.

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

1 A. 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.

12
13 **Q. Witness Mara recommends that the Feeder Hardening and Lateral Hardening**
14 **programs be capped at \$1.5B and \$2.2B, respectively, to align with DEF's SPP 2020-**
15 **2029 instead of the "substantial increase in capital expenditures proposed by DEF."**
16 **Did DEF propose a "substantial increase" over its SPP 2020-2029?**

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

1 continuation of the plan that was previously approved in Docket No. 20200069. Mr.
2 Menendez provides additional detail on this point in his rebuttal testimony.

3

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

7 A. No, I do not agree 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

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

1 A. No, I do not agree with this assessment because the Self Optimizing Grid program does
2 reduce the number of outages. The design and function of the Self Optimizing Grid, as
3 described in Exhibit BML-1, is to sectionalize the grid into sections that serve smaller
4 number of customers and creates ties between circuits to allow the transferring of
5 customers when a fault occurs during an extreme weather event. On a typical circuit, this
6 will reduce the number of outages caused by a fault during extreme weather by
7 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 to reduce outages
21 during all levels of extreme weather events, including, but not limited to, Tropical
22 Depressions; Tropical Storms; Hurricanes; tornadoes; coastal and inland flooding; and
23 lightning storms. During these types of events, it is very likely that adjacent feeders will

1 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

19 **Q. Witness Mara states that DEF's Underground Flood Mitigation program should be**
20 **eliminated because it is obvious to him that it is being used to fund the replacement**
21 **of aging equipment. Do you agree with Witness Mara's assessment?**

22 A. No, I do not agree with Witness Mara's assessment because it is, once again, built upon a
23 false premise. Witness Mara's conclusion is apparently based on the assumption that the

1 replacement of 7 switchgear and 24 transformers in 2021 were passed through the Storm
2 Protection Plan Cost Recovery Clause (“SPPCRC”). This is incorrect; these replacements
3 were included in base rates as Witness Mara said should have been the case. In DEF’s SPP
4 2020 and in subsequent SPPCRC filings, it was shown that the Underground Flood
5 Mitigation program was not going to begin as a part of SPPCRC until 2022. This
6 demonstrates the conflation of the SPP and recovery of costs through the SPPCRC more
7 thoroughly discussed by Mr. Menendez.

8
9 **Q. Could aging equipment be replaced in the Underground Flood Mitigation program?**

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

14
15 **Q. Witness Mara notes that the Floramar project planned for 2023 is likely to have
16 livefront transformers. Is this accurate?**

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

23

1 **Q. Witness Mara states that “hardening means to design and build components to a**
2 **strength that would not normally be required” and that “aging infrastructure”**
3 **should not be replaced in the Storm Protection Plan. Do you agree with Witness**
4 **Mara’s statement?**

5 A. No, I do not agree with Witness Mara’s statement. As Witness Howe describes in detail
6 in her testimony, replacing “aging infrastructure” hardens the system. 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

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

15 A. No, Witness Mara is not correct. He is misinterpreting information DEF provided in
16 response to OPC’s Request for Production of Documents (“POD”) 21 and omitting
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 switchgear 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
22 Switchgear.”

23

24 **V. STAGING COSTS**

1 **Q. Witness Mara states that if DEF's system is hardened, it "should logically spend less**
2 **on pre-staging and would be expected to limit the amount of staging they do ahead of**
3 **a storm." Can you please explain why Mara's statement is counter to the intent of**
4 **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.

10 Pre-staging resources is a critical step in the restoration planning process as it ensures that
11 the necessary personnel are in place and ready to perform necessary activities to reduce
12 outage times and return the State of Florida to normal operations. When the SPP hardening
13 efforts are completed, the overall restoration efforts will be reduced but DEF will still pre-
14 stage resources as necessary to respond to the anticipated scope of the impending event to
15 ensure customers impacted by extreme weather events are restored as safely and swiftly as
16 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?**

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

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

3

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

5 A. Yes.

1 MR. BERNIER: Thank you, sir. We waive
2 summary and tender the witness for cross.

3 CHAIRMAN FAY: Okay. Great. Thank you. Mr.
4 Rehwinkel, you are recognized.

5 MR. REHWINKEL: Thank you, Mr. Chairman and
6 good afternoon, Mr. Lloyd.

7 THE WITNESS: Good afternoon.

8 EXAMINATION

9 BY MR. REHWINKEL:

10 Q I need to reposition so I don't -- aside from
11 the requirements of the rule, as a matter of logic, DEF
12 would only proceed with the discretionary SPP programs
13 and costs if the benefits, however measured, are greater
14 than the costs, is that correct?

15 A While all of our projects and programs that we
16 have submitted for the 2023 storm protection plan the
17 benefits do outweigh the cost, we do not necessarily
18 agree that every project must have a cost.

19 Q So is your answer you wouldn't proceed -- you
20 would proceed even if the costs exceeded the benefits?

21 A Yes, sir. In certain situations, we would
22 proceed. Again, I'll reinforce that all of the projects
23 and programs that we submitted for our SPP 2023, the
24 benefits do exceed the cost.

25 Q So at least for the facts on the ground in

1 **this case, you proceeding on the principle that benefits**
2 **exceed costs as you measure them?**

3 A Yes, sir. Again, for our SPP 2023, but we do
4 not believe that projects must always -- the benefits
5 must always exceed the costs.

6 Q Would you agree that as a core principle in
7 your SPP 2023 -- that's what you call it, right?

8 A Yes, sir.

9 Q That spending on a program or project is
10 maximized when it no longer provides incremental dollar
11 benefits compared to the costs?

12 A Can you repeat that question for me, please,
13 sir?

14 Q Yes. Would you agree that it is a core
15 principle in DEF's SPP 2023 that spending on a program
16 or project is maximized when it no longer provides
17 incremental dollar benefits compared to the cost?

18 A To be honest, I'm not sure I follow the
19 question.

20 Q Well, in your 2023 -- SPP 2023, you are not
21 proposing to spend more on a project than benefits
22 realized, is that right?

23 A That is correct. I'll restate again that all
24 the projects submitted in our SPP 2023, the benefits
25 outweigh the cost. I will say again, though, that DEF

1 does not believe that that is the sole litmus test that
2 must be measured for a project, as there are some
3 projects that may serve, you know, rural customers where
4 a cost to strengthen the grid for those rural customers,
5 where the density may be lower, you know, may not
6 outweigh the benefits, but it's still necessary that
7 those rural customers still get an opportunity to have
8 hardened assets.

9 Q Let's go to your direct -- I mean your
10 rebuttal, revised rebuttal. On page five. You agree on
11 lines 9 through 14, including the Q&A there are the
12 questions including the question with this point that we
13 just went over, right?

14 A Yes, sir, for our SPP 2023. Yes, sir.

15 Q Okay. In the table on this same page, you
16 compare the net present value of the dollar benefits to
17 the net present value of the costs for each of the SPP
18 '23 programs, is that right?

19 A We compare the benefits to the cost. Yes,
20 sir. Present value.

21 Q And turning to page -- well, from line 14 on
22 page five through line two on page six, if you could
23 just review that.

24 A Yes, sir.

25 Q Is it fair to say that in that testimony you

1 make the point that your calculations of the dollar
2 benefits of the SPP programs, compared to the costs
3 comply with the requirements of the SPP rule?

4 A Yes, sir.

5 Q And the requirements of the SPP rule, with
6 which this testimony indicates you're in compliance
7 with, are the requirements to calculate the benefits of
8 the program and compare them to the costs?

9 A I'll reinstate from the other day I'm not a
10 lawyer.

11 Q Understood.

12 A I don't think that's been said enough here
13 today. But the rule, I believe, requires a comparison
14 between the two.

15 Q And three -- 3D4. Do you agree with that?

16 A A comparison of the costs identified and the
17 benefits identified, yes, sir.

18 Q Okay. And for purposes of this testimony in
19 preparation of SPP 2023, you interpreted -- you, meaning
20 Duke -- interpreted the rule to mean dollar benefits,
21 not simply -- not simple qualitative threshold test of
22 reductions and outage times and outage restoration costs
23 without any quantifications of the reductions in outage
24 times and restoration costs, is that right?

25 A As I stated the other day in my direct

1 testimony, we did analyze it in that form, but, you
2 know, that is one way to skin a cat, if you will.

3 Q Yes. Those of us who owns cats disagree with
4 that, but I understand what you're saying. On page
5 seven --

6 A Of rebuttal?

7 Q Yes. Actually, let's don't ask that question
8 because that's in -- we'll address that on the proffer
9 side.

10 A Yes, sir.

11 Q I apologize. Would it be fair to say that
12 you, and DEF, calculated the customer benefits in
13 addition to the avoided storm costs and use the sum of
14 these two benefits and the comparison of the benefits to
15 the costs of this, of the programs and the SPP '23?

16 A Yes, sir. I described yesterday Duke Energy
17 used both the avoided restoration costs as well as
18 the -- placed a value of the customer benefits as
19 calculated by the DOE's ICE model.

20 Q Okay. So you just answered my next question
21 there. And the ICE model is Interruption Cost
22 Estimator?

23 A That is correct. Yes, sir.

24 Q So the Interruption Cost Estimator calculates
25 societal benefits of reductions in customer

1 interruptions using assumptions developed through
2 customer surveys and other sources that cannot otherwise
3 be objectively quantified. Would you agree with that?

4 A Yes, sir, I would agree with that.

5 Q Could you look at page nine, lines 19 through
6 21 of your rebuttal, and just familiarize yourself with
7 that?

8 A 19 through 21, sir?

9 Q Yes, sir.

10 A Yes, sir.

11 Q Herein you state that your belief that these
12 societal benefits or norms have value to customers, even
13 if they cannot be directly quantified in the form of
14 reductions and restoration costs.

15 A I'm sorry. Is there a question there?

16 Q Yes. Is that -- is that what --

17 A Yes, sir, that's what my rebuttal says.

18 Q And referring back to table one on page five,
19 is it your testimony that the present value of the
20 benefits of the 2023 SEP, or SPP 2023, is \$21.4 billion
21 over a 30-year period for distribution programs and 40
22 years for the transmission programs?

23 A Give me one moment to check for something,
24 sir.

25 Q Sure. You could look on page 11, lines one

1 through five.

2 A I want to check one other place.

3 Q Okay.

4 A I believe the way that we calculated that was
5 after full deployment, the costs that we would see over
6 the lifetime of the assets.

7 Q Okay. And what do you mean by full
8 deployment?

9 A After the full deployment of the 10-year storm
10 protection plan.

11 Q Okay.

12 A Sorry. Yes, sir.

13 Q In table one, the benefits are determined over
14 30 to 40 years, as we've discussed, and then on the
15 segment of the grid, what are the costs -- what are
16 costs based solely on -- are the costs based solely on
17 the 10-year plan or a full build out over the 30 to 40
18 years? I think you've answered that, but I want to make
19 sure.

20 A Yes, sir. This is based on the 10-year storm
21 protection plan 2023.

22 Q Okay. So do you have your direct testimony
23 with you?

24 A I do.

25 Q I just want to take you back to something you

1 said there and -- on page -- actually, BML2 is what I
2 really want to take you to, page 10 of 41. And if --
3 you're there?

4 A Yes, sir.

5 Q So you're expected to avoid an estimated \$56.5
6 million in storm restoration costs annually, as shown
7 here?

8 A Yes, sir.

9 Q So not even doing a present value analysis,
10 the total savings over the 30 years would be about
11 \$1.695 billion, or 30 times 56.5?

12 A Subject to check, I'd agree with that.

13 Q Okay. And to arrive at a present value of
14 \$21.4 billion as shown on table one, nearly \$20 billion
15 of that \$21.4 billion in customer value is based on the
16 monetized benefits using the ICE calculator. Would you
17 agree with that?

18 A I would agree with that. Duke Energy
19 utilizing the ICE model captured all of the value that
20 our customers see from not having outages. And I'll
21 also add that it is really a conservative number,
22 actually, as the current ICE model caps outage time at
23 16 hours. I think we all would agree that during a
24 extreme weather event, outages could exceed 16 hours.
25 So, yes, we are capturing the true value of, you know,

1 continuous power to customers.

2 Q Now, this value proposition that's shown here
3 of \$21.4 billion, of which 20 billion is based on
4 customer value as monetized in the ICE calculator, that
5 was not included in your direct testimony, was it?

6 A I do not believe I reference it in my direct
7 testimony, no.

8 Q Would you agree with me that the first time
9 this presentation of customer value and a cost benefit
10 analysis was in the rebuttal?

11 A I would not agree. No, sir.

12 Q You would not agree?

13 A No. In BML2 we referenced the use of the ICE
14 calculator, or the ICE model, to calculate customer --

15 Q Okay. But the 21.4, of which 20 of it was ICE
16 calculator derived, was not presented in BML2, was it?

17 A That is correct. It was not presented in the
18 BML.

19 Q Let's go to page 15, and I want you -- I want
20 to take you to lines one and two. And you may want to
21 read the question before I ask you about the answer
22 there.

23 A Okay.

24 Q So if a lateral serving ten homes has a pole
25 that breaks and wires fall to the ground, is that

1 **considered a power outage?**

2 A Ask me one more time.

3 **Q If a lateral serving ten homes has a pole that**
4 **breaks and the wires fall to the ground, would that be a**
5 **power outage for the ten homes?**

6 A In this hypothetical situation, if a fault
7 occurs, there would be an outage to the ten homes off
8 that lateral line.

9 **Q Okay. And so the 10 homeowners would be**
10 **without power, right?**

11 A Until a restoration could be conducted.

12 **Q But in that circumstance, only one outage**
13 **needs to be repaired, is that right? They need to fix**
14 **the pole and put the lines back up in the air.**

15 A The restoration efforts needed would be to fix
16 the one hypothetical pole, but ten customers experience
17 the outage involved with it.

18 **Q Okay. On this passage that I asked you to**
19 **look at, would you agree that a self-optimizing grid**
20 **program does reduce the number of outages?**

21 A It reduces the number of outages experienced
22 by our customers, yes.

23 **Q Okay. Do you mean that it reduces the number**
24 **of outages to be fixed by a construction crew or does**
25 **the system reduce the number of customers that suffer a**

1 **loss of power?**

2 A It reduces the number of customers that
3 experience the outage.

4 Q Okay. Would you agree that a self-healing
5 system does not reduce the number of poles to replace or
6 the number of wires down caused during an extreme
7 weather event?

8 A I would agree with that, yes.

9 Q Okay. Would you agree that Mr. Mara
10 recommended that the self-healing system be eliminated
11 from the SPP?

12 A I agree that was his testimony, but I do not
13 agree with his logic that he came to that conclusion.

14 Q Okay. Did he recommend that the self-healing
15 system has no value to customers, or that it should not
16 be implemented at all?

17 A I do not recall.

18 MR. REHWINKEL: I think I can cut out some
19 questions here, Mr. Chairman, if you'd just give me
20 a second.

21 CHAIRMAN FAY: Okay.

22 MR. REHWINKEL: I think it's always a good
23 thing, isn't it?

24 MR. BERNIER: Mr. Chairman, could I have one
25 second to speak with Mr. Rehwinkel?

1 CHAIRMAN FAY: Sure. Yeah.

2 BY MR. REHWINKEL:

3 Q Mr. Lloyd, just for the purpose of my question
4 to make sure that I've asked it in the proper form, I
5 was asking you if Mr. Mara suggested that the
6 self-healing system should not be allowed after the year
7 2024. Do you agree with that, or if you know?

8 A I believe you're alluding to the settlement
9 agreement?

10 Q Yes.

11 A I'm not sure.

12 Q Okay. I was not trying to ask you about the
13 testimony that we withdrew on the point about '23 and
14 '20, for the record.

15 On page 11 of your rebuttal testimony and the
16 Q&A that starts on line seven, in your answer that is --
17 starts on line 10, you stated you disagree with Mr.
18 Morra's testimony that ratepayers are paying more for
19 the SEP and reduced storm costs than they would if
20 electric utilities did no storm hardening. Is that
21 right?

22 A Yes, sir.

23 Q Okay. And as we just discussed about BML2,
24 page 10 of 41, you have projected or estimated avoiding
25 \$56.5 million in storm restoration costs annually, is

1 **that right?**

2 A That is correct.

3 Q So would you agree with me that the total
4 **capital cost for SPP 2023 are about \$7.3 billion?**

5 A Yes, sir, I would agree with that.

6 Q And based on your SPP, the estimated annual
7 **storm restoration costs is \$56.4 million. And after 40**
8 **years, \$2.26 billion would be saved in storm restoration**
9 **costs; is that right?**

10 A Yes, I would agree with that, but reinforce
11 that Duke Energy took into consideration the value to
12 the customer as calculated by the interruption cost
13 estimate.

14 Q So would you agree with me that the 40-year
15 **reduced storm costs would be less than the 10-year SPP**
16 **capital budget?**

17 A Based on average years of storms, yes, sir, I
18 would agree that the -- that would be less.

19 Q Let's try again to talk about the Hurricane
20 **Dorian question I was asking you on your direct. So let**
21 **me see if I can -- I can do a better job of this. First**
22 **of all, do you have -- you have Mr. Mara's -- actually,**
23 **let me try to do it without going through the exhibits.**

24 Would you agree that costs incurred under the
25 **similar circumstances that the company experienced in**

1 Hurricane Dorian, where a category-five storm threatened
2 the company, and caused you to reasonably stage
3 resources to address the impending impact, but the storm
4 never physically crossed the state of Florida, turned to
5 the north. Would you agree that under circumstances
6 like that, that storm restoration costs, or outage
7 related costs, would not be materially reduced by any of
8 the measures contained in the SPP?

9 A Duke Energy assess -- assesses -- excuse me --
10 assesses each storm individually. And so we would take
11 any impending hypothetical storm that was going to impact
12 our system and make decisions on what resources were
13 deemed necessary for that storm. And at the conclusion
14 of the storm protection plan, when the system is
15 hardened, you know, we would evaluate that hardened
16 system, determine what type of resources would be needed
17 for a safe and swift restoration and the return to
18 normal for the state of Florida.

19 Q Is -- isn't a true that customers could pay to
20 implement the SPP 2023 and then in -- your 2031 is your
21 last year, right -- '32. So in 2023 you could have a
22 storm the magnitude and impact that Hurricane Irma had
23 on your company, and instead of the average restoral
24 time underlying the storm, being what it was when Irma
25 hit, you could still spend the same amount of money just

1 to put customers back in service in even less time than
2 you did in Irma, is that right?

3 MR. BERNIER: I'll just object to the extent
4 it calls for speculation. Thank you.

5 CHAIRMAN FAY: I think to the extent you can
6 respond with your knowledge, it's appropriate.

7 THE WITNESS: Thank you, Mr. Chairman. Can
8 you please repeat yourself?

9 BY MR. REHWINKEL:

10 Q Yes. So a storm like Irma, let's say a storm
11 that same magnitude, same impact throughout your system,
12 and that storm, as I recall, it went almost through your
13 entire system of the state of Florida, right?

14 A I'll just say, yes, it did.

15 Q So let's say you had a storm like that in
16 2033, after you've implemented SPP 2023, and assuming
17 that you had all the improvements and hardening and
18 undergrounding that you intend, such that far fewer
19 customers were out of service, isn't it true that you
20 could spend the same amount of money you spent in Irma
21 just to put the remaining customers who are out of
22 service in service even faster?

23 A That hypothetical situation is not something
24 that I necessarily can calculate here on the stand. And
25 per you, I don't wish another Irma to come through this

1 state again, hardened system or non-hardened system.
2 But what we have shown in our storm protection plan is
3 the estimated annual savings that we would see on an
4 average storm year. Law of averages, say, some years
5 you could save more, some years you could save less.
6 Depending on where this hypothetical storm hits would
7 really drive what that restoration effort would look
8 like and what that restoration cost would be. I can't
9 sit here and think about something I'm not sure what's
10 going to happen in the future.

11 Q Okay. But there is no -- well, strike that
12 question. I think, with that, those are all the
13 questions I have for you. I think the exhibits I gave
14 you are really for Mr. Menendez. So I'll spare you
15 that.

16 MR. REHWINKEL: Thank you, Mr. Chairman.

17 CHAIRMAN FAY: Thank you, Mr. Rehwinkel.

18 Nucor.

19 MR. MATTHEIS: No questions.

20 CHAIRMAN FAY: Okay. Mr. Moyle.

21 EXAMINATION

22 BY MR. MOYLE:

23 Q So how much of Duke ratepayers saved this
24 year, this summer from the storm protection plan?

25 A That is not something that I have calculated

1 in preparation for this hearing.

2 Q You guys haven't had any storms, right?

3 A I assure you, we've had plenty of storms.

4 Q In terms of named tropical storms.

5 A We've not had any named tropical storms, but
6 this storm protection plan is built on all sorts of
7 extreme weather events, and I think we all know and
8 experienced just the other day in direct testimony,
9 there was a nasty thunderstorm that hit Tallahassee.
10 All sorts of extreme weather hits Duke Energy service
11 territory on any given day. And the investments that
12 we've made thus far in the storm protection plan have
13 already bared fruit for Duke Energy's customers in terms
14 of restoration savings.

15 Q Will you be calculating that on an annual
16 basis, so if this Commission at some point wants to say,
17 let's see how you're doing each year, and can you --
18 will you be able to tell them, this year we saved X.
19 Last year we saved Y?

20 A If that was something that the Commission were
21 to request, we would certainly, you know, comply with
22 any of their requests or orders.

23 MR. MOYLE: That's all I have.

24 CHAIRMAN FAY: Thank you. Ms. Eaton.

25 MS. EATON: I don't have any questions. Thank

1 you.

2 CHAIRMAN FAY: Okay. Staff.

3 MR. IMIG: No questions.

4 CHAIRMAN FAY: Commissioners? Okay. Any
5 redirect?

6 MR. BERNIER: Just very briefly, Chairman.

7 FURTHER EXAMINATION

8 BY MR. BERNIER:

9 **Q Mr. Lloyd, Mr. Rehwinkel was asking you a fair**
10 **number of questions regarding the projected capital**
11 **spend, et cetera, in the SPP. If that spend were to be**
12 **reduced, what kind of impact do you think that would**
13 **have on the benefits being projected under the plan?**

14 A Yeah. So as we analyzed our storm protection
15 plan, we looked at various levels of spending, various
16 models. And one of those models that we looked at, you
17 know, we called the low model. And we had a reduction
18 of CMI savings, you know, in the 40 million minutes for
19 that reduction in spend. And 40 million minutes may not
20 be something that, you know, anyone can wrap their head
21 around. So I always like to think about what those
22 customer impacts are going to be like. And 40 million
23 minutes on an average storm year would be like extending
24 the restoration efforts for as many customers as we have
25 in north Florida or in a single day. One day. So one

1 more day without hospitals, one more day without
2 schools, one more day with lift stations not
3 functioning, one more day without communications, one
4 more day of life stopped for a number of customers equal
5 to our north Florida territory. That's a lot of
6 customers that would be impacted if we reduce the spend
7 in our SPP. You know, we feel that or -- you know, the
8 reasonable impact from a cost perspective, it's
9 significant impact to the benefits.

10 MR. BERNIER: Nothing further from me.

11 CHAIRMAN FAY: Okay. With that, we will move
12 into the proffered testimony, which I believe is
13 only maybe two paragraphs here, but --

14 MR. BERNIER: I think it's just one question.

15 CHAIRMAN FAY: Go ahead, Mr. Bernier.

16 MR. BERNIER: DEF would like to proffer for
17 purposes of the record Mr. Lloyd's June 30th
18 rebuttal testimony for the purposes of the record
19 for appeal.

20 CHAIRMAN FAY: Okay. Show that proffered.

21 (Whereupon, prefiled rebuttal proffered
22 testimony of Brian Lloyd was inserted.)
23
24
25

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

JULY 1, 2022

1 **I. INTRODUCTION AND QUALIFICATIONS.**

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

3 A. 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 A. 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. PURPOSE AND SUMMARY OF TESTIMONY.**

14 **Q. What is the purpose of your rebuttal testimony?**

1 A. 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

1 intended to accomplish these goals, over time, in a cost-effective manner. If, as OPC and
2 specifically Mr. Mara suggest, the Company was required to limit its proposed programs
3 to just those that themselves are projected to accomplish the goals set out in the statute, the
4 ability to systematically harden the system against the effects of extreme weather would be
5 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.

15 Moreover, DEF is required to plan for a range of contingencies and cannot assume a “one
16 size fits all” approach. For example, the “extreme weather conditions” we must be
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

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

3 The point being, our intent, which we believe aligns with the legislature's directive, was to
4 propose a holistic Plan to systematically harden the system to better withstand the range of
5 extreme weather conditions expected to impact the state. The Plan, as a whole, is projected
6 to achieve the multi-pronged goals of reducing storm restoration costs, outage times, and
7 improving overall reliability. Taking the myopic approach offered by OPC would
8 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**

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

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

1 ratio for each program in DEF's SPP 2023. Table 1 clearly shows, without question, that
 2 DEF's programs have a benefits to cost ratio greater than 1, which indicates that the
 3 benefits are greater than the costs. DEF's Plan, as outlined in Exhibits BML-1 and BML-
 4 2, provides long-term benefits to the customers and State of Florida. I will provide further
 5 details as to why Witness Mara's and Witness Kollen's commentary on the benefits and
 6 costs are incorrect.

7 Table 1

Program	PV Benefits	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?**

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

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

3
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 DEF establishes its overall SPP program spend, including capital
11 expenditures, with consideration of the impact to customer rates as a key
12 consideration, but must also balance this impact with the goals and
13 requirements of the Storm Protection Plan statute and rule and the outage
14 risk a non-hardened grid creates during extreme weather events. The
15 establishment of SPP program spend is accomplished at the outset of the
16 plan development process and therefore represents an express decision not
17 to expend greater amounts which would have a greater impact on customer
18 rates. Thus, the entirety of the plan represents a balancing of the goals of
19 the SPP with impact on customers' rates.
20

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
 4 the budgets was the limitation of resources" to complete the Plan's goals, and it appears to
 5 DEF that Mr. Mara has taken a statement regarding the consideration of "available
 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?~~

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18 ~~A. Yes, I do. Although all of DEF's programs contained within its SPP 2023 have a benefit-~~
 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~~
 23 ~~would exclude a large number of DEF's customers who may live in areas where hardening~~

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
14 **Q. Witness Mara claimed that the benefits of hardening will be reduced over time as the**
15 **hardening sub-program is applied to feeders that are not as vulnerable to extreme**
16 **wind and may have less tree cover or stronger poles already in place. Do you agree**
17 **with this assessment?**

18 A. While I agree in principle that DEF is prioritizing projects for the most "vulnerable" areas
19 first, as outlined in DEF's benefits to cost analysis, Rule 25-6.030 requires DEF to update
20 its SPP at least every three years, which I believe was a very well contemplated rule as it
21 allows an opportunity to reevaluate the system and adjust plans accordingly. For example,
22 if a circuit is hardened through means outside of the SPP, such as during a highway
23 relocation project or customer requested undergrounding project, the circuit could be

1 assessed, and the plan changed. However, I am concerned that Witness Mara is discounting
2 the customers that are served by the circuits that he says are less “vulnerable.” Those
3 customers can still be impacted by extreme weather events and, as I stated above, should
4 have the opportunity for their circuits to be hardened even if the benefits to cost ratio is
5 lower than higher prioritized projects.
6

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

12 A. Yes, I believe that Witness Kollen’s statements on societal benefits and their inclusion in
13 the benefits/cost analysis are misguided. Dismissing the societal benefits misses the overall
14 purpose of the SPP which is to protect and strengthen the grid to reduce the impact from
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.

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

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

4 Another example that shows the true value of having electric service to customers is, after
5 Hurricane Irma, a customer was in such need for service that they called in a bomb threat
6 against the facility where I was working. Obviously, this is extremely out of line, but it
7 reinforces how customers are dependent on electricity to power their lives and benefit from
8 having service. Not attributing a value to that benefit is shortsighted and ignores the reality
9 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
15 improvements in the United States. The ICE Calculator is funded by the Energy Resilience
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
19 **Q. Witness Mara utilizes ten years of benefits when calculating a benefit to cost ratio
20 for the Lateral Hardening program. Is this a proper methodology for comparing
21 programs' benefits and costs?**

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

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

6
7 **Q. In Witness Mara's testimony, he states "rate payers are paying more for the SPP and**
8 **'reduced' storm costs than they would if the electric utilities did no storm hardening."**
9 **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
15 spend to only five years of historical restoration costs, when, as described above, DEF is
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**

1 **Q. On June 27, 2022, OPC filed a motion to accept amended testimony along with**
2 **amendments to both Witnesses' pre-filed direct testimonies. Have you reviewed the**
3 **amended testimonies, and if so, what impacts do the amendments have on your**
4 **rebuttal testimony?**

5 A. Yes, I have reviewed the proposed amended testimonies. As I understand the proposed
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
15 Because the amended testimonies continue to include the incorrect premises and
16 assumptions, mischaracterizations and misunderstandings, and unreasonably constricted
17 interpretation of the governing statute and rule, I continue to believe it is appropriate to
18 address those issues for the Commission notwithstanding that the witnesses are no longer
19 advocating for exclusion of certain programs.

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

1 A. 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.

12
13 **Q. Witness Mara recommends that the Feeder Hardening and Lateral Hardening**
14 **programs be capped at \$1.5B and \$2.2B, respectively, to align with DEF's SPP 2020-**
15 **2029 instead of the "substantial increase in capital expenditures proposed by DEF."**
16 **Did DEF propose a "substantial increase" over its SPP 2020-2029?**

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

1 continuation of the plan that was previously approved in Docket No. 20200069. Mr.
2 Menendez provides additional detail on this point in his rebuttal testimony.

3
4 **Q. Do you agree with Witness Mara's assertion that the cost for corrective actions to**
5 **address clearance encroachments should not be included in the Storm Protection**
6 **Plan?**

7 A. No, I do not agree 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
20 **Q. The Self-Optimizing Grid program was addressed by Witness Mara as a program**
21 **that should not qualify for the Storm Protection Plan as it does not reduce the number**
22 **of outages. Do you agree with Witness Mara's assessment?**

1 A. No, I do not agree with this assessment because the Self Optimizing Grid program does
2 reduce the number of outages. The design and function of the Self Optimizing Grid, as
3 described in Exhibit BML-1, is to sectionalize the grid into sections that serve smaller
4 number of customers and creates ties between circuits to allow the transferring of
5 customers when a fault occurs during an extreme weather event. On a typical circuit, this
6 will reduce the number of outages caused by a fault during extreme weather by
7 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 to reduce outages
21 during all levels of extreme weather events, including, but not limited to, Tropical
22 Depressions; Tropical Storms; Hurricanes; tornadoes; coastal and inland flooding; and
23 lightning storms. During these types of events, it is very likely that adjacent feeders will

1 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

19 **Q. Witness Mara states that DEF's Underground Flood Mitigation program should be**
20 **eliminated because it is obvious to him that it is being used to fund the replacement**
21 **of aging equipment. Do you agree with Witness Mara's assessment?**

22 A. No, I do not agree with Witness Mara's assessment because it is, once again, built upon a
23 false premise. Witness Mara's conclusion is apparently based on the assumption that the

1 replacement of 7 switchgear and 24 transformers in 2021 were passed through the Storm
2 Protection Plan Cost Recovery Clause (“SPPCRC”). This is incorrect; these replacements
3 were included in base rates as Witness Mara said should have been the case. In DEF’s SPP
4 2020 and in subsequent SPPCRC filings, it was shown that the Underground Flood
5 Mitigation program was not going to begin as a part of SPPCRC until 2022. This
6 demonstrates the conflation of the SPP and recovery of costs through the SPPCRC more
7 thoroughly discussed by Mr. Menendez.

8
9 **Q. Could aging equipment be replaced in the Underground Flood Mitigation program?**

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

14
15 **Q. Witness Mara notes that the Floramar project planned for 2023 is likely to have
16 livefront transformers. Is this accurate?**

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

23

1 **Q. Witness Mara states that “hardening means to design and build components to a**
2 **strength that would not normally be required” and that “aging infrastructure”**
3 **should not be replaced in the Storm Protection Plan. Do you agree with Witness**
4 **Mara’s statement?**

5 A. No, I do not agree with Witness Mara’s statement. As Witness Howe describes in detail
6 in her testimony, replacing “aging infrastructure” hardens the system. 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
13 **Q. But Witness Mara believes that DEF is not using submersible switchgear within the**
14 **Underground Flood Mitigation program. Is he correct?**

15 A. No, Witness Mara is not correct. He is misinterpreting information DEF provided in
16 response to OPC’s Request for Production of Documents (“POD”) 21 and omitting
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 switchgear 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
22 Switchgear.”

23
24 **V. STAGING COSTS**

1 **Q. Witness Mara states that if DEF's system is hardened, it "should logically spend less**
2 **on pre-staging and would be expected to limit the amount of staging they do ahead of**
3 **a storm." Can you please explain why Mara's statement is counter to the intent of**
4 **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.

10 Pre-staging resources is a critical step in the restoration planning process as it ensures that
11 the necessary personnel are in place and ready to perform necessary activities to reduce
12 outage times and return the State of Florida to normal operations. When the SPP hardening
13 efforts are completed, the overall restoration efforts will be reduced but DEF will still pre-
14 stage resources as necessary to respond to the anticipated scope of the impending event to
15 ensure customers impacted by extreme weather events are restored as safely and swiftly as
16 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?**

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

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

3

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

5 A. Yes.

1 CHAIRMAN FAY: Mr. Rehwinkel, I do believe you
2 have a question on this, correct?

3 MR. REHWINKEL: I do have one.

4 CHAIRMAN FAY: Okay. You're recognized.

5 MR. REHWINKEL: First of all, another
6 housekeeping measure, Mr. Chairman. The document
7 that I have shows -- it just shows it stricken,
8 like redacted. Have I printed out something the
9 wrong way? Is what's in the record struck instead
10 of redacted?

11 MR. BERNIER: There is one file that was just
12 struck through.

13 MR. REHWINKEL: Okay. So I can ask him --
14 because the pagination is fine, unlike Ms. Howe.
15 So I can ask him my question from the filed
16 version, as everything lines up, but I just wanted
17 to make sure that what's inserted show as struck
18 through and not redacted.

19 CHAIRMAN FAY: Yes. Correct. And I have a
20 struck-through version, but to Mr. Bernier's point,
21 I think the errata -- depending on the filing you
22 have in front of it, it's either blacked out or
23 stricken out, but since it's only one question, I
24 think -- or one area that's stricken, one question
25 that's stricken, I think you'll probably know

1 exactly where that is.

2 MR. REHWINKEL: Thank you.

3 EXAMINATION

4 BY MR. REHWINKEL:

5 Q So if I could turn you to page seven, lines 20
6 through 22 of your rebuttal testimony in the proffered
7 section. Are you there?

8 A Yes, sir.

9 Q Okay. So you state the rule does not require
10 projects to meet a specific threshold, but rather
11 requires a comparison of the description of projected
12 program benefits to costs, is that right?

13 A Yes, sir, that's what my testimony is.

14 Q There your use of the term, benefits, and the
15 company's analyses interpret that comparison to mean a
16 comparison of dollar or monetized benefits to dollar
17 cost. Is that right?

18 A Yes, sir.

19 MR. REHWINKEL: Mr. Chairman, those are all
20 the questions I'll have. And thank you, Mr. Lloyd.

21 CHAIRMAN FAY: Okay. Great. Any from FIPUG,
22 Nucor or --

23 MR. MATTHEIS: No questions.

24 CHAIRMAN FAY: Okay. With that, did we enter
25 in Exhibit 53?

1 MR. BERNIER: No, sir. I've got to do it. So
2 thank you. I'd like to enter Exhibit 53 into the
3 record.

4 CHAIRMAN FAY: Okay. Show that entered.

5 (Whereupon, Exhibit No. 53 was received into
6 evidence.)

7 MR. BERNIER: Thank you.

8 MR. REHWINKEL: Mr. Chairman, I think this is
9 the time, even though I did not ask any additional
10 questions, but that I would like to move exhibit --
11 Hearing exhibit 103 into the record.

12 MR. BERNIER: No objection.

13 MR. REHWINKEL: This was interrogatory 85.

14 CHAIRMAN FAY: Okay. So 103. Without
15 objection.

16 (Whereupon, Exhibit No. 103 was received into
17 evidence.)

18 CHAIRMAN FAY: Anything else, Mr. Rehwinkel?
19 Okay. With that, Mr. Bernier.

20 MR. BERNIER: Just ask that Mr. Lloyd be
21 excused.

22 CHAIRMAN FAY: Mr. Lloyd, you're excused.

23 THE WITNESS: Thank you, Chairman. Thank you,
24 Commissioners.

25 (Witness excused.)

1 MR. BERNIER: We would call Christopher
2 Menendez.

3 CHAIRMAN FAY: If you're ready here.
4 Whereupon,

5 CHRISTOPHER MENENDEZ
6 was recalled as a witness, having been previously duly
7 sworn to speak the truth, the whole truth, and nothing
8 but the truth, was examined and testified as follows:

9 EXAMINATION

10 BY MR. BERNIER:

11 Q **Good afternoon, Mr. Menendez.**

12 A Good afternoon.

13 Q **You were sworn the other day and understand
14 that you're still under oath, correct?**

15 A I do.

16 Q **Thank you. In response to the Commission's
17 order striking portions of Mr. Kollen's testimony, did
18 you cause to be filed amended rebuttal testimony on
19 August 1st, 2021 -- or 2022?**

20 A I did.

21 Q **Thank you. And you don't have any exhibits to
22 your testimony, is that correct?**

23 A I do not.

24 Q **Do have a copy of that testimony with you
25 today?**

1 A I do.

2 Q Other than the amendments that we just
3 discussed, do you have any changes to make to that
4 testimony?

5 A No.

6 Q If I were to ask you the same questions today,
7 would your answer still be the same?

8 A Yes.

9 Q Thank you?

10 MR. BERNIER: Mr. Chairman, we'd ask that Mr.
11 Menendez's amended rebuttal testimony dated August
12 1 be entered into the record as though read.

13 CHAIRMAN FAY: Show it entered.

14 (Whereupon, prefiled rebuttal testimony of
15 Christopher Menendez was inserted.)

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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 CHRISTOPHER A. MENENDEZ
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 A. My name is Christopher A. Menendez. My business address is Duke Energy Florida, LLC,
4 299 1st Avenue North, St. Petersburg, Florida 33701.

5

6 **Q. Have you previously filed direct testimony in this docket?**

7 A. Yes, I filed direct testimony supporting the Company's Storm Protection Plan ("SPP" or
8 "DEF 2023 SPP") on April 11, 2022.

9

10 **Q. Has your employment status and job responsibilities remained the same since**
11 **discussed in your previous testimony?**

12 A. Yes.

13

14 **II. PURPOSE AND SUMMARY OF TESTIMONY.**

1 **Q. What is the purpose of your rebuttal testimony?**

2 A. The purpose of my testimony is to provide the Company's rebuttal to certain assertions and
3 conclusions contained in the direct testimonies of OPC's witnesses Kollen and Mara. Mr.
4 Lloyd and Ms. Howe will present additional rebuttal of the testimonies of OPC's witnesses
5 Kollen and Mara.

6
7 **Q. Do you have any exhibits to your testimony?**

8 A. No.

9
10 **Q. Please summarize your testimony.**

11 A. My testimony addresses certain assertions and conclusions contained in OPC Witness
12 Mara's and Witness Kollen's testimonies. I have not attempted to rebut each and every
13 factual error or misconception contained in these testimonies.

14 With regard to Witness Mara's testimony, I generally focus on the capital investment level
15 for the 10-year plan (2023-2032). With regard to Witness Kollen's testimony, I generally
16 focus on five topics:

- 17 • Clarification on how DEF implemented Paragraph 4 of DEF's 2021 Settlement
18 Agreement in Docket No. 20210016-EI¹ into DEF's 2023 SPP filing;
- 19 • Clarification on DEF's 2020 Settlement Agreement,² where the Signatories agreed that
20 the record supports a finding that DEF's SPP programs are in the public interest, and
21 that DEF proceeding to implement these SPP programs is not evidence of imprudence
22 and how that Agreement impacts DEF's 2023 SPP filing;

¹ Approved by Final Order No. PSC-2021-0202-AS-EI.

² Approved by Order No. PSC-2020-0293-AS-EI.

- 1 • Address Witness Kollen’s misinterpretations of Section 366.96, Florida Statutes, SPP
2 Rule 25-6.030, and the Storm Protection Plan Cost Recovery Clause (“SPPCRC”) Rule
3 25-6.031;
- 4 • Address Witness Kollen’s incorrect concerns regarding DEF’s calculations of the
5 estimated revenue requirements; and
- 6 • Address Witness Kollen’s concern that ratepayers will not receive the benefits of future
7 reduced costs in base rates that result from SPP implementation.

8 9 III. WITNESS MARA

10 **Q. Do you agree with the assertion that, “All of the utilities’ SPPs are based on the**
11 **premise that by investing in storm hardening activities the electric utility**
12 **infrastructure will be more resilient to the effects of extreme weather events. This**
13 **resiliency means lower costs for restoration from the storms and reduced outage times**
14 **experienced by the customers. Some programs have a greater impact on reducing**
15 **outages times and lowering restoration costs than other programs. Clearly, the goal**
16 **is to invest in storm hardening activities that benefit the customers of the electric**
17 **utilities at a cost that is reasonable relative to those benefits.”**

18 A. Yes, DEF agrees with Mr. Mara’s premise and while I cannot speak for the other
19 companies’ filings, DEF’s 2023 SPP filing was predicated on these very ideas, which are
20 irrefutable. To that end, DEF agrees with Mr. Mara’s assertion.

21
22 **Q. Witness Mara asserts DEF’s proposed SPP includes a substantial increase in capital**
23 **expenditures when compared to DEF’s SPP 2020-2029. Do you agree with his**
24 **conclusion?**

1 A. No. To call the proposed Plan’s capital expenditures “a substantial increase” is a gross
2 mischaracterization of the data being compared. Without going line by line through his
3 table and pointing out exceptions by program, I can state in fact, that the investment levels
4 presented over the common years 2023-2029 decreased in total in DEF’s 2023 SPP; the
5 years that extend beyond DEF’s 2020 SPP (i.e., 2030-2032) are merely an extension of the
6 2029 investment levels. The “significant increase” Mr. Mara identified is simply a result
7 of comparing the first three years of DEF’s original SPP, where the SPP programs were
8 either in the planning stage or the infancy of implementation, with three years of
9 investments in programs that are fully up and running, delivering value to our customers.

10 Recalling Mr. Oliver’s testimony in Docket No. 20200069-EI:

11 The current Storm Hardening Plan (and its previous iterations) provided the
12 foundation upon which the SPP builds. Indeed, because Year 1 of the SPP
13 is 2020, the activities included in the Storm Hardening Plan for 2020 are
14 already planned and in flight, DEF was unable to pivot and change course
15 on those projects for 2020. Accordingly, DEF has summarized the activities
16 in the Storm Hardening Plan that will carry over as projects for year 1 of
17 the SPP, as required by the SPP Rule. Starting in year 2021 (or year 2 of the
18 SPP), DEF will begin a transition to a more holistic system vision for
19 hardening against extreme weather events and enhancing reliability.³

20 It was not until year 3 (2022) of the 2020 SPP that DEF began fully funding the original
21 SPP. Of course, when Mr. Mara compares 8 years of full program funding to 10 years of
22 full program funding as presented in this docket, there will be a variance, but to characterize
23 it as a “significant increase” is simply incorrect.

24
25 **IV. WITNESS KOLLEN**

³ Oliver Testimony, p. 5, ll. 5-17 (doc. No. 01943-2020, Docket No. 20200069-EI).

1 [REDACTED]

2 [REDACTED]

3 [REDACTED]

4 [REDACTED]

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6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 [REDACTED]

10 [REDACTED]

11 [REDACTED]

12 [REDACTED]

14 **Q. With the understanding that you disagree that programs recovered through base**
15 **rates are ineligible for inclusion in the Plan, what evidence do you have that shows**
16 **DEF’s compliance with the requirement that Storm Protection Plan costs are not**
17 **recovered through both base rates and the SPPCRC?**

18 **A.** In Paragraph 4 of DEF’s 2021 Settlement Agreement,⁴ the Parties (including OPC) agreed
19 that DEF has properly removed all costs associated with the Storm Protection Plan from
20 the costs included in DEF’s MFRs as all such costs spent on approved SPP programs are
21 properly recoverable through the SPP Cost Recovery Clause. This clearly shows that DEF
22 removed all SPP costs from base rates for the settlement period, 2022-2024. Further, Mr.

⁴ See Docket No. 20210016-EI (approved by Final Order PSC-2021-0202-AS-EI).

1 Kollen and OPC are once again conflating the SPP docket and the SPPCRC docket. The
 2 SPPCRC docket is the appropriate place to ensure no costs are being recovered through
 3 both base rates and SPPCRC; however, as is clear from DEF's 2021 Settlement Agreement,
 4 both OPC and DEF agree this is properly reflected in DEF's filings.

5
 6 **Q. As part of DEF's updated SPP filing for the period 2023-2032 ("SPP 2023"), did DEF**
 7 **include any new programs beyond those approved in DEF's originally approved SPP**
 8 **("SPP 2020")?**

9 A. No. DEF's SPP 2023 contains no new programs from those previously approved for
 10 inclusion in DEF's SPP 2020.⁵

11
 12 **Q. As part of DEF's SPP 2023, did DEF materially expand the scope of the programs**
 13 **and associated expenditures it seeks to recover for the years 2020-2022 beyond those**
 14 **that are included in the estimates shown on page 40 of Exhibit JWO-2, filed on April**
 15 **10, 2020, updated on June 24, 2020?**

16 A. No. DEF held to the terms of the 2020 Settlement Agreement. In fact, the investment levels
 17 presented over the common years 2023-2029 decreased in total over this time period.

2023 SPP	2023	2024	2025	2026	2027	2028	2029	TOTAL
Capital	\$ 602,662,131	\$ 693,408,744	\$ 775,170,171	\$ 748,783,297	\$ 747,669,844	\$ 749,676,339	\$ 748,511,641	\$ 5,065,882,169
O&M	\$ 72,094,065	\$ 77,093,403	\$ 78,955,292	\$ 78,099,796	\$ 78,985,429	\$ 81,823,026	\$ 82,413,243	\$ 549,464,254
2020 SPP	2023	2024	2025	2026	2027	2028	2029	TOTAL
Capital	\$ 596,980,947	\$ 685,818,676	\$ 767,965,146	\$ 813,820,584	\$ 779,185,223	\$ 739,559,303	\$ 739,943,069	\$ 5,123,272,948
O&M	\$ 74,785,933	\$ 78,218,981	\$ 81,350,604	\$ 84,259,130	\$ 85,273,993	\$ 86,239,131	\$ 88,056,022	\$ 578,183,793
Variance 2023 vs. 2020	2023	2024	2025	2026	2027	2028	2029	TOTAL
Capital Variance	\$ 5,681,184	\$ 7,590,068	\$ 7,205,025	\$ (65,037,287)	\$ (31,515,379)	\$ 10,117,036	\$ 8,568,572	\$ (57,390,779)
O&M Variance	\$ (2,691,868)	\$ (1,125,578)	\$ (2,395,312)	\$ (6,159,334)	\$ (6,288,564)	\$ (4,416,105)	\$ (5,642,779)	\$ (28,719,539)
Total Variance	\$ 2,989,316	\$ 6,464,490	\$ 4,809,713	\$ (71,196,620)	\$ (37,803,942)	\$ 5,700,932	\$ 2,925,794	\$ (86,110,318)

⁵ Approved by Order PSC-2020-0293-AS-EI, issued on August 28, 2020.

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[REDACTED]

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[REDACTED]

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[REDACTED]

12

[REDACTED] DEF's 2021 Settlement Agreement and OPC's Motion to amend

13

Messrs. Mara and Kollen's testimony makes clear, the recovery of these costs in the current

14

SPPCRC is also appropriate. Further, DEF's SPP 2023 only contains programs that were

15

carried over from its SPP 2020. Per the terms of the 2021 Settlement Agreement, any

16

argument to the contrary has been rendered moot, as recognized by the amended

17

testimonies.

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[REDACTED]

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- 11 [redacted]
- 12 [redacted]
- 13 **Q.** [redacted]
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may be included as a portion of rate base. Where the latter treatment is

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[Redacted]

[Redacted]

[Redacted]

[Redacted]

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[Redacted]

[Redacted]

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[Redacted]

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⁷ Approved in Order No. PSC-2020-0410-AS-EI (Docket No. 20200092-EI, issued Oct. 27, 2020).

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25 [REDACTED]

26 [REDACTED]

27 [REDACTED]

28 [REDACTED]

29 [REDACTED]

30 [REDACTED]

31 [REDACTED]

32 [REDACTED]

⁸ See Docket No. 20190131-EU, Issue 1 (filed Sept. 20, 2019).

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2 [REDACTED]

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9 [REDACTED]

10 [REDACTED]

11 [REDACTED]

12 [REDACTED]

13 [REDACTED]

14 [REDACTED]

15 [REDACTED]

16 [REDACTED]

17 [REDACTED]

18

19 **Q. Mr. Kollen asserts that DEF’s calculations of the estimated revenue requirements had**

20 **errors that needed to be corrected. Do you agree with that allegation?**

21 A. No. DEF fully complied with Rule 25-6.030(3)(g)’s requirement that it provide “An

22 estimate of the annual jurisdictional revenue requirements for each year of the Storm

23 Protection Plan.” It is important to recognize these estimates are not used to set rates or

1 clause factors; these are calculations to provide reasonable estimates for the capital, O&M,
2 and revenue requirements of the SPP for planning purposes. The actual clause factors will
3 be determined in the SPPCRC. DEF properly included the appropriate elements for
4 ratemaking in its calculations: CWIP; Depreciation; and Property Tax.

5 Witness Kollen claims that DEF improperly calculated depreciation expense on CWIP at
6 the end of the prior year, but also failed to calculate depreciation expense on current year
7 plant additions. Mr. Kollen's statements are incorrect as explained in DEF's response to
8 OPC Interrogatory No. 58:

9 Consistent with the revenue requirement calculation in DEF's SPP 2020,
10 DEF's CWIP balance is incorporated into the 'Investment' line for each SPP
11 program. DEF has accounted for CWIP within the depreciation expense
12 calculation. Within the current year, a portion of each program is assumed
13 to be placed in-service. Therefore, the amount of investment not yet placed
14 in-service is representative of the CWIP balance.

15
16 For programs that assumed that CWIP was placed in service throughout the current year
17 (e.g., Transmission Structure Hardening), DEF did calculate depreciation expense on
18 current year plant additions. DEF also has programs that incur investment on individual
19 projects throughout the year but are placed in-service when all work within a target location
20 is complete; for financial modeling purposes, DEF assumed an end of year in-service for
21 these programs.

22 Regarding Mr. Kollen's statements on the calculation of property tax expense, the expenses
23 included in DEF's SPP 2023 are simply estimates for the 10-year period developed to
24 provide the estimate of the annual jurisdictional revenue requirements as required by Rule
25 25-6.030(3)(g). DEF uses reasonable methods to estimate the property tax expense for the
26 SPP programs over the planning timeframe, but ultimately property tax expenses collected
27 from customers are based on the projections filed in the SPPCRC filings, not DEF's 2023

1 SPP, and those projected amounts are subject to true-up based on the actual property taxes
2 incurred. Therefore, a revision to the calculation of estimated property tax expense in
3 DEF's SPP 2023 filing is unnecessary. Further, the Commission should not establish a
4 property tax expense calculation, as contemplated by Mr. Kollen, that would override the
5 true-up based on actual expenses as that would defeat the purpose of the true-up to actual
6 expenses in the SPPCRC and would create a departure in the true-up of property tax
7 expense in the SPPCRC compared to other clauses such as ECRC and ECCR. Finally, the
8 Commission, Commission Staff and intervenor parties have the right to review the actual
9 property tax expenses submitted in the SPPCRC filings.

10 DEF believes the figures presented on page 56 of 56 in Exhibit No.__(BML-1)
11 appropriately represent the estimated annual jurisdictional revenue requirements for each
12 year of the SPP. Actual cost recovery will occur through the annual SPPCRC process.

13
14 **Q. Mr. Kollen contends that the utilities will retain the avoided cost savings for costs**
15 **presently recovered in base rates unless these costs are addressed in this proceeding**
16 **and the SPPCRC proceedings or otherwise included in a negotiated resolution. Do**
17 **you agree?**

18 A. No. It is not true now, just as it was not true when then OPC Witness Schultz made a similar
19 statement in Docket No. 20200069-EI, "that there is a risk that ratepayers will be paying
20 for improvements that will reduce the Company's costs in base rates, but those savings will
21 not be passed through to the ratepayers." In rebuttal, DEF Witness Foster stated:

22 The SPP statute addresses new investments to strengthen the electric utility
23 infrastructure to withstand extreme weather conditions and improve overall
24 service reliability. It creates a cost recovery clause for investments to
25 accomplish this goal. It also ensures there is no double recovery for these

1 costs by stating in paragraph (8) that “storm protection plan costs may not
2 include costs recovered through the public utility’s base rates.” This clearly
3 addresses the double recovery concern. Rule 25-6.031(6)(b) implements
4 this statutory directive by stating “Storm Protection Plan costs recoverable
5 through the clause shall not include costs recovered through the utility’s
6 base rates or any other cost recovery mechanism.”
7

8 It is the normal process for base rate costs to change over time and this
9 creates regulatory lag. Some costs will decrease, others will increase. The
10 SPP Statute was not developed to address appropriate levels of costs in base
11 rates, it was developed to facilitate investment in work that will strengthen
12 the transmission and distribution systems from extreme weather to help
13 reduce restoration times and costs. There is in fact already a way that the
14 Commission monitors Florida utilities to ensure no excessive recovery is
15 occurring. The Commission requires monthly Earnings Surveillance
16 reports. These reports show the earned return on equity (ROE). In a rate
17 case, the FPSC authorizes an allowed ROE for utilities. If a utility reports a
18 ROE that is too high, the parties or the Commission itself may call the
19 Utility in for a rate case. Unlike cost recovery clauses, the normal and
20 established process for base rates involves regulatory lag.
21

22 Mr. Foster’s remarks still hold true and I would reiterate them in response to Mr. Kollen’s
23 contention.

24 DEF addressed compliance on this issue in the response to OPC’s Interrogatory 59. In that
25 response, DEF explained that these adjustments are included in the SPPCRC filings.

26 “Consistent with the model that was developed by DEF for its April 10,
27 2020, SPP filing, DEF did not include any assumptions for reductions
28 assumed in the calculation of depreciation expense associated with
29 retirements for plant that was previously recovered in base rates. In DEF’s
30 annual SPPCRC filings, DEF includes credits associated with the
31 depreciation expense for base rate assets retired as part of an SPP program.
32 When the value of the base asset is removed from EPIS during a subsequent
33 rate case, the depreciation expense credit included in the SPPCRC filings
34 associated with these assets should simultaneously cease. DEF does not
35 make assumptions for timing and outcomes of rate cases that would be
36 necessary to accurately reflect a reasonable amount of credit within the SPP
37 Revenue Requirement model. DEF believes that this is the appropriate
38 approach since the credits are included in the SPPCRC filings which are
39 used to set customer rates and are subject to true-up.
40

1 Again, the purpose of the SPP is not to prepare the precise calculations for clause factor
2 development; that process takes place in the SPPCRC. As DEF notes in its response, DEF
3 has included these credits in the SPPCRC filings in Docket 20220010-EI.

4
5 **V. CONCLUSION**

6 **Q. Mr. Menendez, your rebuttal covers a lot of ground, but did you respond to every**
7 **contention regarding the Company's proposed plan in your rebuttal?**

8 A. No. Intervenor testimony on the SPP involved many pages of testimony and I could not
9 reasonably respond to every single statement or assertion and, therefore, I focused on the
10 issues that I thought were most important. As a result, my silence on any particular
11 assertion in the intervenor testimony should not be read as agreement with or consent to
12 that assertion.

13 I specifically did not challenge many of Mr. Kollen's suggestions or recommendations he
14 makes related to changing methodologies for calculating revenue requirements and rate
15 calculations in the SPPCRC proceeding, again not because I agree with them, but rather I
16 believe he is treading on Rulemaking grounds which is not appropriate for consideration
17 or argument at this time.

18
19 **Q. Does this conclude your testimony?**

20 A. Yes.

1 MR. BERNIER: Thank you. We will waive
2 summary and tender the witness.

3 CHAIRMAN FAY: Great. Mr. Rehwinkel, you're
4 recognized.

5 MR. REHWINKEL: Thank you, Mr. Chairman.

6 EXAMINATION

7 BY MR. REHWINKEL:

8 Q And good afternoon. I want to call you Chris,
9 but I better say Mr. Menendez.

10 A Good afternoon, sir.

11 Q Please turn to page three of your rebuttal
12 testimony at line 22.

13 A Sorry. Can you give me the reference again,
14 sir?

15 Q Yes. Page three, line 22.

16 A Thank you. I'm there.

17 Q So that's the question that leads to your
18 answer on the next page, on page four. Would you agree
19 that in this portion of your testimony that Mr. Mara's
20 testimony that the updated plan represents a substantial
21 increase in capital expenditures is incorrect?

22 A Can you repeat your question, Mr. Rehwinkel?

23 Q Yes. This testimony starting on page three,
24 really line 22 through the answer that begins on page
25 four, line one, expresses your disagreement with Mr.

1 **Mara that the updated SPP 2023 represents a substantial**
2 **increase in capital expenditures; is that right?**

3 A I do disagree with that conclusion, yes.

4 Q **To your right there's an exhibit, and I think**
5 **the title page says Duke February 11 earnings call**
6 **transcript. Do you see that?**

7 A I have it.

8 MR. REHWINKEL: Mr. Chairman, I'd like to
9 identify this as an exhibit. Are we at 108?

10 CHAIRMAN FAY: We're at 109.

11 MR. REHWINKEL: 109 -- well, let me confirm
12 with legal. Mr. Rehwinkel --

13 MR. TRIERWEILER: We're at 110. 109 was not
14 entered into evidence.

15 CHAIRMAN FAY: So we were both wrong. All
16 right. 110. Mr. Rehwinkel, when was this
17 distributed? Which exhibit is this?

18 MR. REHWINKEL: Yesterday.

19 CHAIRMAN FAY: What's the title?

20 MR. REHWINKEL: It says Duke February 11,
21 2021, earnings call transcript.

22 CHAIRMAN FAY: Do the utilities have a copy of
23 that?

24 MR. BERNIER: I believe so.

25 MS. HELTON: I have a stack, Mr. Chairman,

1 it's the third in the stack that starts with a July
2 27, 2022 estimated actual filing.

3 MR. REHWINKEL: So this will be 110?

4 CHAIRMAN FAY: Yes. 110. Thank you Mr.
5 Rehwinkel.

6 MR. REHWINKEL: Thank you.

7 BY MR. REHWINKEL:

8 Q So, Mr. Menendez, would you open this exhibit?
9 And on page three of the transcript -- well, first of
10 all, let's look at the title page. It says edited
11 transcript Q4 2020 Duke Energy Corporation earnings
12 call, February 11, 2021. Do you see that?

13 A I do.

14 Q And I see that I have -- this was copied
15 apparently with the even-numbered pages omitted. Is
16 that what yours shows?

17 A I also just have the odd pages.

18 Q Okay.

19 CHAIRMAN FAY: Is it double-sided?

20 THE WITNESS: No, Mr. Chairman, my copy is
21 not.

22 MR. BERNIER: Mr. Rehwinkel, it happens to the
23 best of us. Don't worry about it.

24 CHAIRMAN FAY: We've all been there.

25 MR. REHWINKEL: Mr. Chairman, I would ask if

1 the company would accept my representation that
2 this is -- this is a document that was retrieved
3 from the company's investor segment of the Duke
4 Energy website, and this is a transcript, and the
5 speaker here is CEO Lynn Good.

6 CHAIRMAN FAY: Mr. Rehwinkel, I'll check with
7 the utility on it. Do you have a copy that would
8 be available to the witness if you're going to be
9 speaking to specific language?

10 MR. REHWINKEL: Well, the language I want to
11 ask him about is on -- it's on page three here,
12 it's just that I don't have page two that shows --

13 CHAIRMAN FAY: In that case, as long as the
14 utility finds it acceptable --

15 MR. BERNIER: Subject to check, we have no
16 objection.

17 CHAIRMAN FAY: Okay. Go ahead.

18 MR. REHWINKEL: Thank you, Mr. Chairman, and
19 thank you, Mr. Bernier, for that courtesy.

20 BY MR. REHWINKEL:

21 Q Mr. Menendez, would you accept my
22 representation that this is a transcript of remarks by
23 Duke Energy CEO, Lynn Good?

24 A Subject to check.

25 Q Thank you. And could you go to the third

1 paragraph on the bottom that starts with, beyond the
2 multiyear plan? Do you see that?

3 A I do.

4 Q Would you read that one sentence into the
5 record?

6 A Beyond the multiyear rate plan, we also
7 received approval for -- approval of the first three
8 years of our storm protection plans, representing a \$6
9 billion investment in grid hardening projects over the
10 next 10 years.

11 Q And would you agree with me that that \$6
12 billion is the prior SPP's corresponding CapEx spend
13 that relates to the \$7.3 billion that's in your
14 current -- or SPP 2023?

15 A I don't believe I have a copy of the 2020 with
16 me, but subject to check.

17 Q Okay. Would you agree that if \$6 billion is
18 the correct number from the 2020 SPP and 7.3 billion is
19 the correct number, and I mean CapEx in both instances,
20 that \$7.3 billion is a 21.67 percent increase over 6
21 billion?

22 A Again, haven't done the math on the
23 percentages, but I believe in my testimony, Mr.
24 Rehwinkel, I call this a gross mischaracterization by
25 calling it a substantial increase.

1 **Q** **Okay. And do you have the confidential -- or**
2 **you would agree, though, that if the math is that 7.3 is**
3 **21.6 percent greater than six, right?**

4 **A** Subject to check, the number -- one number is
5 greater than the other. However, to call it a
6 substantial increase, as I say in my rebuttal, is a
7 gross mischaracterization in comparing the two plans.

8 **Q** **Okay.**

9 **MR. REHWINKEL:** And, Mr. Chairman, I would
10 like to ask folks to turn, including the witness,
11 to turn to exhibit 104, which is the confidential
12 exhibit. And, again, with the -- with the caution
13 that we're talking about confidential information.
14 And my questions to you, Mr. Menendez are not
15 asking you to vocalize any information on here
16 unless your counsel has given you express authority
17 to do so.

18 **THE WITNESS:** I understand, sir.

19 **BY MR. REHWINKEL:**

20 **Q** **Okay. So if you could turn to Bates page**
21 **16 -- or OPC Bates 16 and DEF Bates 5287.**

22 **A** I'm there.

23 **Q** **And I think as we -- just to reiterate from**
24 **yesterday, that publicly disclosed SPP 2023 CapEx spend**
25 **is shown in the -- on this document, right, on this**

1 **page?**

2 A It is.

3 **Q Would you agree that the base amount shown on**
4 **this page represents a substantial increase above the**
5 **number shown below it?**

6 A The numbers in the base case are higher than
7 the numbers below it.

8 **Q Okay. Thank you.**

9 MR. REHWINKEL: Mr. Menendez, thank you for
10 your time. Those are all the questions I'll have
11 on your non-stricken testimony. I have one
12 question on your proffer when we get to that.

13 THE WITNESS: Thank you.

14 CHAIRMAN FAY: Nucor.

15 MR. MATTHEIS: No questions.

16 CHAIRMAN FAY: Mr. Moyle?

17 MR. MOYLE: No questions.

18 CHAIRMAN FAY: Ms. Eaton.

19 MS. EATON: No questions.

20 CHAIRMAN FAY: Okay. Staff.

21 MR. TRIERWEILER: No questions.

22 CHAIRMAN FAY: Commissioners.

23 THE WITNESS: Mr. Chairman.

24 CHAIRMAN FAY: Yes, Mr. Menendez.

25 THE WITNESS: Yesterday, Commissioner Clark

1 asked me a question and I believe I misunderstood
2 the Commissioner in his question. If you would
3 allow, I would like to clarify for the
4 Commissioner's question, if I may.

5 CHAIRMAN FAY: Sure. At his discretion if
6 you'd like.

7 THE WITNESS: Yeah. Commissioner Clark,
8 yesterday you had asked me a comparison in looking
9 at the estimated residential price impacts that we
10 had put into our exhibit compared to the
11 commercial -- the typical commercial and typical
12 industrial percentages. What I wanted to -- as I
13 misunderstood in your question, sir, the
14 residential amounts that we showed on that sheet
15 were the total estimated SPP CRC amounts for a
16 residential customer. They are not the
17 year-over-year change. So as we look to, for
18 example, 2023, the present rate is \$3. And moving
19 to 421, the change would only be \$1.21. And
20 that's -- when you look at it, you get to a
21 percentage increase that is less than 1 percent and
22 then in line with the CNI percentage that you saw
23 elsewhere. So that's where I was in comparing them
24 in the same. Thank you, Mr. Commissioner.

25 CHAIRMAN FAY: Thank you. Mr. Bernier, any

1 redirect?

2 MR. BERNIER: No redirect, Mr. Chairman.

3 CHAIRMAN FAY: With that, Mr. Bernier, we'll
4 move on to Mr. Menendez's proffered --

5 MR. REHWINKEL: Do we need to do exhibits on
6 the --

7 CHAIRMAN FAY: I apologize. We'll enter your
8 110 --

9 MR. REHWINKEL: Here's what I would like to
10 ask the Commission's indulgence on. 110, I've
11 asked for us to make a complete copy of that
12 document with all the pages on it. And I will --
13 what I will do is once that's done, I will
14 distribute it, make sure that counsel for Duke
15 agrees, and then I will, on the record, insert --
16 or ask you to admit that complete document into the
17 record. So we can hold off on 110, if it's okay,
18 we'll come to a point and we'll put the right
19 document in. Would that work?

20 CHAIRMAN FAY: Yeah, that's fine. I honestly
21 think with Duke's approval we could enter it now,
22 just knowing that the document will be provided in
23 the record in its completion. You didn't ask any
24 questions from the pages that were --

25 MR. REHWINKEL: That's correct.

1 CHAIRMAN FAY: There's no concern about that
2 not being in there. So, with that, we'll enter
3 110. And just make sure, Mr. Trierweiler or Ms.
4 Helton, are you both comfortable with that?

5 Okay. All right. With that, then we will
6 enter 110 without objection.

7 (Whereupon, Exhibit No. 110 was received into
8 evidence.)

9 CHAIRMAN FAY: Mr. Rehwinkel let's just make
10 sure when we leave today that we got that for the
11 record.

12 Okay. With that, Mr. Bernier, move on to
13 proffered.

14 MR. BERNIER: Thank you, Mr. Chairman. DEF
15 would like to proffer for purposes of the record,
16 Mr. Menendez's June 30th rebuttal testimony as
17 filed.

18 CHAIRMAN FAY: Show that proffered.

19 (Whereupon, prefiled rebuttal proffered
20 testimony of Christopher Menendez was inserted.)
21
22
23
24
25

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 CHRISTOPHER A. MENENDEZ
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 A. My name is Christopher A. Menendez. My business address is Duke Energy Florida, LLC,
4 299 1st Avenue North, St. Petersburg, Florida 33701.

5

6 **Q. Have you previously filed direct testimony in this docket?**

7 A. Yes, I filed direct testimony supporting the Company's Storm Protection Plan ("SPP" or
8 "DEF 2023 SPP") on April 11, 2022.

9

10 **Q. Has your employment status and job responsibilities remained the same since**
11 **discussed in your previous testimony?**

12 A. Yes.

13

14 **II. PURPOSE AND SUMMARY OF TESTIMONY.**

1 **Q. What is the purpose of your rebuttal testimony?**

2 A. The purpose of my testimony is to provide the Company's rebuttal to certain assertions and
3 conclusions contained in the direct testimonies of OPC's witnesses Kollen and Mara. Mr.
4 Lloyd and Ms. Howe will present additional rebuttal of the testimonies of OPC's witnesses
5 Kollen and Mara.

6
7 **Q. Do you have any exhibits to your testimony?**

8 A. No.

9
10 **Q. Please summarize your testimony.**

11 A. My testimony addresses certain assertions and conclusions contained in OPC Witness
12 Mara's and Witness Kollen's testimonies. I have not attempted to rebut each and every
13 factual error or misconception contained in these testimonies.

14 With regard to Witness Mara's testimony, I generally focus on the capital investment level
15 for the 10-year plan (2023-2032). With regard to Witness Kollen's testimony, I generally
16 focus on five topics:

- 17 • Clarification on how DEF implemented Paragraph 4 of DEF's 2021 Settlement
18 Agreement in Docket No. 20210016-EI¹ into DEF's 2023 SPP filing;
- 19 • Clarification on DEF's 2020 Settlement Agreement,² where the Signatories agreed that
20 the record supports a finding that DEF's SPP programs are in the public interest, and
21 that DEF proceeding to implement these SPP programs is not evidence of imprudence
22 and how that Agreement impacts DEF's 2023 SPP filing;

¹ Approved by Final Order No. PSC-2021-0202-AS-EI.

² Approved by Order No. PSC-2020-0293-AS-EI.

- 1 • Address Witness Kollen’s misinterpretations of Section 366.96, Florida Statutes, SPP
- 2 Rule 25-6.030, and the Storm Protection Plan Cost Recovery Clause (“SPPCRC”) Rule
- 3 25-6.031;
- 4 • Address Witness Kollen’s incorrect concerns regarding DEF’s calculations of the
- 5 estimated revenue requirements; and
- 6 • Address Witness Kollen’s concern that ratepayers will not receive the benefits of future
- 7 reduced costs in base rates that result from SPP implementation.

8

9 III. WITNESS MARA

10 **Q. Do you agree with the assertion that, “All of the utilities’ SPPs are based on the**

11 **premise that by investing in storm hardening activities the electric utility**

12 **infrastructure will be more resilient to the effects of extreme weather events. This**

13 **resiliency means lower costs for restoration from the storms and reduced outage times**

14 **experienced by the customers. Some programs have a greater impact on reducing**

15 **outages times and lowering restoration costs than other programs. Clearly, the goal**

16 **is to invest in storm hardening activities that benefit the customers of the electric**

17 **utilities at a cost that is reasonable relative to those benefits.”**

18 **A.** Yes, DEF agrees with Mr. Mara’s premise and while I cannot speak for the other

19 companies’ filings, DEF’s 2023 SPP filing was predicated on these very ideas, which are

20 irrefutable. To that end, DEF agrees with Mr. Mara’s assertion.

21

22 **Q. Witness Mara asserts DEF’s proposed SPP includes a substantial increase in capital**

23 **expenditures when compared to DEF’s SPP 2020-2029. Do you agree with his**

24 **conclusion?**

1 A. No. To call the proposed Plan’s capital expenditures “a substantial increase” is a gross
2 mischaracterization of the data being compared. Without going line by line through his
3 table and pointing out exceptions by program, I can state in fact, that the investment levels
4 presented over the common years 2023-2029 decreased in total in DEF’s 2023 SPP; the
5 years that extend beyond DEF’s 2020 SPP (i.e., 2030-2032) are merely an extension of the
6 2029 investment levels. The “significant increase” Mr. Mara identified is simply a result
7 of comparing the first three years of DEF’s original SPP, where the SPP programs were
8 either in the planning stage or the infancy of implementation, with three years of
9 investments in programs that are fully up and running, delivering value to our customers.

10 Recalling Mr. Oliver’s testimony in Docket No. 20200069-EI:

11 The current Storm Hardening Plan (and its previous iterations) provided the
12 foundation upon which the SPP builds. Indeed, because Year 1 of the SPP
13 is 2020, the activities included in the Storm Hardening Plan for 2020 are
14 already planned and in flight, DEF was unable to pivot and change course
15 on those projects for 2020. Accordingly, DEF has summarized the activities
16 in the Storm Hardening Plan that will carry over as projects for year 1 of
17 the SPP, as required by the SPP Rule. Starting in year 2021 (or year 2 of the
18 SPP), DEF will begin a transition to a more holistic system vision for
19 hardening against extreme weather events and enhancing reliability.³

20 It was not until year 3 (2022) of the 2020 SPP that DEF began fully funding the original
21 SPP. Of course, when Mr. Mara compares 8 years of full program funding to 10 years of
22 full program funding as presented in this docket, there will be a variance, but to characterize
23 it as a “significant increase” is simply incorrect.

24
25 **IV. WITNESS KOLLEN**

³ Oliver Testimony, p. 5, ll. 5-17 (doc. No. 01943-2020, Docket No. 20200069-EI).

1 ~~Q. Witness Kollen asserts that, “section 366.96(8), Fla. Stat. limits SPP programs and~~
2 ~~projects to costs not recovered through the utility’s base rates.” Do you agree with~~
3 ~~this assertion?~~

4 ~~A: No, because section 366.96(8) is referring to cost recovery through the SPPCRC, not the~~
5 ~~SPP. There is no requirement in this statute to exclude programs with costs recovered~~
6 ~~through base rates from the SPP. To this point, DEF’s 2020-2029 SPP included both~~
7 ~~programs with costs recovered through base rates and programs with costs recovered~~
8 ~~through the SPPCRC. This argument underscores Mr. Kollen’s and OPC’s confusion over~~
9 ~~the purpose of this proceeding versus the purpose of the SPPCRC. This proceeding is~~
10 ~~intended to determine the proper scope of the Plan, the SPPCRC is intended to determine~~
11 ~~the proper amount to be collected through the clause itself and to ensure there is no double-~~
12 ~~recovery. I discuss this concept in a little more detail below.~~

13
14 **Q. With the understanding that you disagree that programs recovered through base**
15 **rates are ineligible for inclusion in the Plan, what evidence do you have that shows**
16 **DEF’s compliance with the requirement that Storm Protection Plan costs are not**
17 **recovered through both base rates and the SPPCRC?**

18 A. In Paragraph 4 of DEF’s 2021 Settlement Agreement,⁴ the Parties (including OPC) agreed
19 that DEF has properly removed all costs associated with the Storm Protection Plan from
20 the costs included in DEF’s MFRs as all such costs spent on approved SPP programs are
21 properly recoverable through the SPP Cost Recovery Clause. This clearly shows that DEF
22 removed all SPP costs from base rates for the settlement period, 2022-2024. Further, Mr.

⁴ See Docket No. 20210016-EI (approved by Final Order PSC-2021-0202-AS-EI).

1 Kollen and OPC are once again conflating the SPP docket and the SPPCRC docket. The
 2 SPPCRC docket is the appropriate place to ensure no costs are being recovered through
 3 both base rates and SPPCRC; however, as is clear from DEF's 2021 Settlement Agreement,
 4 both OPC and DEF agree this is properly reflected in DEF's filings.

5
 6 **Q. As part of DEF's updated SPP filing for the period 2023-2032 ("SPP 2023"), did DEF**
 7 **include any new programs beyond those approved in DEF's originally approved SPP**
 8 **("SPP 2020")?**

9 A. No. DEF's SPP 2023 contains no new programs from those previously approved for
 10 inclusion in DEF's SPP 2020.⁵

11
 12 **Q. As part of DEF's SPP 2023, did DEF materially expand the scope of the programs**
 13 **and associated expenditures it seeks to recover for the years 2020-2022 beyond those**
 14 **that are included in the estimates shown on page 40 of Exhibit JWO-2, filed on April**
 15 **10, 2020, updated on June 24, 2020?**

16 A. No. DEF held to the terms of the 2020 Settlement Agreement. In fact, the investment levels
 17 presented over the common years 2023-2029 decreased in total over this time period.

2023 SPP	2023	2024	2025	2026	2027	2028	2029	TOTAL
Capital	\$ 602,662,131	\$ 693,408,744	\$ 775,170,171	\$ 748,783,297	\$ 747,669,844	\$ 749,676,339	\$ 748,511,641	\$ 5,065,882,169
O&M	\$ 72,094,065	\$ 77,093,403	\$ 78,955,292	\$ 78,099,796	\$ 78,985,429	\$ 81,823,026	\$ 82,413,243	\$ 549,464,254
2020 SPP	2023	2024	2025	2026	2027	2028	2029	TOTAL
Capital	\$ 596,980,947	\$ 685,818,676	\$ 767,965,146	\$ 813,820,584	\$ 779,185,223	\$ 739,559,303	\$ 739,943,069	\$ 5,123,272,948
O&M	\$ 74,785,933	\$ 78,218,981	\$ 81,350,604	\$ 84,259,130	\$ 85,273,993	\$ 86,239,131	\$ 88,056,022	\$ 578,183,793
Variance 2023 vs. 2020	2023	2024	2025	2026	2027	2028	2029	TOTAL
Capital Variance	\$ 5,681,184	\$ 7,590,068	\$ 7,205,025	\$ (65,037,287)	\$ (31,515,379)	\$ 10,117,036	\$ 8,568,572	\$ (57,390,779)
O&M Variance	\$ (2,691,868)	\$ (1,125,578)	\$ (2,395,312)	\$ (6,159,334)	\$ (6,288,564)	\$ (4,416,105)	\$ (5,642,779)	\$ (28,719,539)
Total Variance	\$ 2,989,316	\$ 6,464,490	\$ 4,809,713	\$ (71,196,620)	\$ (37,803,942)	\$ 5,700,932	\$ 2,925,794	\$ (86,110,318)

⁵ Approved by Order PSC-2020-0293-AS-EI, issued on August 28, 2020.

1
2 ~~Q. Witness Kollen alleges that, “DEF [has] included programs and projects that are~~
3 ~~within the scope of their existing base rate programs and base rate recoveries in the~~
4 ~~normal course of business. These programs and projects are listed and addressed in~~
5 ~~greater detail by Witness Mara. These programs and projects should be excluded~~
6 ~~from the SPPs, and the costs should be excluded from recovery through the~~
7 ~~SPPCRCs...” Do you agree with this conclusion?~~

8 ~~A. No. This argument is beyond dispute. As Messrs. Mara and Kollen recognize in their~~
9 ~~amended testimony, the 2021 Settlement Agreement eliminates any and all doubt that~~
10 ~~DEF’s programs are appropriately included in DEF’s SPP 2023. That said, Mr. Kollen is~~
11 ~~again conflating recovery of costs through the SPPCRC with the inclusion of programs in~~
12 ~~the SPP; regardless, as As DEF’s 2021 Settlement Agreement and OPC’s Motion to amend~~
13 ~~Messrs. Mara and Kollen’s testimony makes clear, the recovery of these costs in the current~~
14 ~~SPPCRC is also appropriate. Further, DEF’s SPP 2023 only contains programs that were~~
15 ~~carried over from its SPP 2020. Per the terms of the 2021 Settlement Agreement, any~~
16 ~~argument to the contrary has been rendered moot, as recognized by the amended~~
17 ~~testimonies.~~

18
19 ~~Q. Is Witness Kollen’s interpretation of the Statute correct when he states, “To qualify~~
20 ~~for inclusion in the SPP proceedings and cost recovery in the SPPCRC proceedings,~~
21 ~~the projects and the costs of the projects must be incremental, not simply~~
22 ~~displacements of base rate costs that would have been incurred during the normal~~
23 ~~course of business...”?~~

1 A. ~~No. I note that this is a very similar argument to one addressed earlier (i.e., that the Plan~~
2 ~~cannot include any programs with costs recovered through base rates). OPC is again~~
3 ~~conflating two related, but distinct, concepts: the Plan and the SPPCRC. DEF agrees it is~~
4 ~~impermissible to recover SPP program costs through the SPPCRC if those same program~~
5 ~~costs are also included in base rates, but DEF disagrees that the cost recovery component~~
6 ~~has any bearing on the Plan's suite of programs. As referenced previously, DEF's SPP~~
7 ~~2020 included programs with costs that were at the time being recovered through either~~
8 ~~base rates or the SPPCRC — when DEF reset its base rates through the 2021 Settlement~~
9 ~~Agreement, those programs being recovered through base rates were shifted to the clause~~
10 ~~— but the point is, DEF does not believe the means of cost recovery controls the make up~~
11 ~~of the SPP.~~

12
13 **Q. ~~Is Witness Kollen's interpretation that "Section 366.96, Fla. Stat., and the SPPCRC~~**
14 **~~Rule limit the costs eligible for recovery through the SPPCRC to incremental costs~~**
15 **~~net of avoided costs (savings)" accurate?~~**

16 A. ~~No. Witness Kollen's interpretations are woefully inaccurate. Nothing in the Statute nor~~
17 ~~the Rule states or implies anything remotely close to the effect of limiting the costs eligible~~
18 ~~for recovery through the SPPCRC to incremental costs net of avoided costs (savings), as~~
19 ~~Witness Kollen alleges.~~

20 ~~The statute and the rule sections that he cites⁶ specifically require the exclusion of costs~~
21 ~~recovered through base rates and other clause forms of ratemaking recovery from recovery~~
22 ~~through the SPPCRC, which fundamentally is a different concept altogether than he argues.~~

⁶ Mr. Kollen cites section 366.96(8), Florida Statutes, and Rule 25-6.031(6)(a), Florida Administrative Code. See, pg. 14, fn. 3. Again, it is worth noting that the rule cited governs the SPPCRC, not the SPP.

1 Neither the statute nor the rules limit SPP programs or program costs to only incremental
2 costs or require a reduction for avoided costs or savings, as these concepts are simply not
3 “double recovery.” Mr. Kollen is either misconstruing the purpose of these sections or is
4 trying to expand the limitations and definition of double recovery; both are improper and
5 should be disregarded.

6
7 **Q. — Witness Kollen believes that the return on Construction Work In Process (“CWIP”)**
8 **should not be included in calculation of the SPP revenue requirement, do you agree?**

9 A. — No. Mr. Kollen uses the SPPCRC Rule and section 366.96(9) in his attempt to argue that
10 SPP projects should not earn a return on CWIP; this is incorrect and contradictory with
11 traditional ratemaking. Florida utilities are permitted to earn a return on invested capital,
12 including CWIP; this is true in base rates as well as the other cost recovery clauses. Rule
13 25-6.0141, “AFUDC Rule”, addresses the return on invested capital. Projects that meet
14 that rule’s eligibility requirement may earn AFUDC. Part 2 states “Construction work in
15 progress (CWIP)... not under a lease agreement that is not included in rate base may accrue
16 allowance for funds used during construction (AFUDC).” The AFUDC rule recognizes
17 that projects that do not meet the AFUDC requirements, will be included in rate base. For
18 the 2023 SPP, DEF’s projects do not meet the requirements to accrue AFUDC; therefore,
19 DEF has included these projects in SPP rate base and the revenue requirements calculations
20 for the 2023 SPP.

21 Additionally, a return on CWIP is recognized in other clauses. For example, in Order No.
22 PSC 1994-0044 FOF EI, the Commission found that

23 [t]he utility's investment in plant under construction can be accounted for
24 by either of two methods. An Allowance for Funds Used During

1 Construction (AFUDC) may be applied to the balance to be capitalized and
 2 later recovered through depreciation charges once the plant is placed in
 3 service. When this method is chosen, the financial statements of the utility
 4 reflect income 'credits' associated with AFUDC, but the utility realizes no
 5 current cash earnings from the investment in CWIP. Alternatively, CWIP
 6 may be included as a portion of rate base. Where the latter treatment is
 7 allowed, CWIP generates cash earnings.

8
 9 Further paragraph 3(a) of the 2020 SPP/SPPCRC Agreement⁷ states that “[f]or those
 10 programs that are approved by the Commission in DEF’s proposed SPP in 2020, DEF will
 11 include the Construction Work In Progress (‘CWIP’) balances as of January 1, 2021 as the
 12 beginning SPPCRC Rate Base balances and calculate a return on these costs from January
 13 1, 2021 forward for cost recovery in 2021.” DEF’s treatment of CWIP in the 2023 SPP is
 14 consistent with DEF’s treatment of CWIP in the 2020 SPP and the SPPCRC filings made
 15 in 2020, 2021 and 2022.

16 In summary, traditional ratemaking allows a utility to earn a return on invested capital,
 17 including CWIP; to deny this return in SPP (or more accurately, SPPCRC) is improper
 18 ratemaking.

19
 20 **Q. — Witness Kollen offers alternatives to recovering a return on CWIP immediately, such**
 21 **as deferring CWIP either as allowance for funds used during construction**
 22 **(“AFUDC”) or as a miscellaneous deferred debit, do you agree with either approach?**

23 **A. — No.** As previously stated, section 2(a) of the AFUDC Rule addresses the eligibility for a
 24 project to accrue AFUDC, and DEF’s SPP 2023 projects do not meet those requirements
 25 and are thus ineligible to accrue AFUDC. Moreover, the use of miscellaneous deferred
 26 debit is wholly inappropriate and is inconsistent with the AFUDC rule. This idea of

⁷ Approved in Order No. PSC-2020-0410-AS-EI (Docket No. 20200092-EI, issued Oct. 27, 2020).

1 ~~deferring debits was discussed and rejected by Commission Staff during the SPP and~~
 2 ~~SPPCRC rulemaking process and properly rejected in Staff's Recommendation and~~
 3 ~~Analysis:~~⁸

4 ~~Under OPC's interpretation, an IOU would incur costs in one year but~~
 5 ~~couldn't request recovery of those costs until the next year's SPPCRC. If~~
 6 ~~the Commission approved those costs in the SPPCRC, the utility could not~~
 7 ~~begin recovering the costs until the year after. This leaves customers paying~~
 8 ~~carrying costs for two years. Thus, using a cost recovery mechanism that~~
 9 ~~should minimize that regulatory lag, as staff is recommending in draft Rule~~
 10 ~~25-6.031, F.A.C., should also minimize the carrying costs customers have~~
 11 ~~to pay.~~

12
 13 ~~Further in Staff's analysis,~~

14 ~~Staff envisions the SPPCRC mirroring other Commission cost recovery~~
 15 ~~clauses. In the Nuclear Cost Recovery Clause (NCRC), Energy~~
 16 ~~Conservation Cost Recovery Clause (ECCR), and Environmental Cost~~
 17 ~~Recovery Clause (ECRC), the Commission projects the costs the utility will~~
 18 ~~incur in the next year and sets a factor that will allow the company to recover~~
 19 ~~those costs from customers as the costs are incurred.~~

20
 21 ~~Finally Staff stated,~~

22 ~~Second, allowing for the recovery of projected costs enables the IOUs to~~
 23 ~~recover costs as they are incurred. This reduces regulatory lag and,~~
 24 ~~ultimately, the costs passed on to customers, which is the purpose of cost~~
 25 ~~recovery clauses. Staff believes IOUs will be entitled to recover carrying~~
 26 ~~costs associated with the lag between when they incurred costs and when~~
 27 ~~they recover them.~~

28
 29 ~~**Q. Mr. Kollen asserts that, "[c]osts cannot be deemed prudent or reasonable unless and**~~
 30 ~~**until the costs are charged to specific projects, construction is completed (or**~~
 31 ~~**prudently abandoned), and the CWIP is converted to plant in service." Do you agree**~~
 32 ~~**that this is the appropriate docket to make such an argument?**~~

⁸ See Docket No. 20190131-EU, Issue 1 (filed Sept. 20, 2019).

1 A. ~~No, Mr. Kollen is addressing items specific to the SPPCRC. Rule 25-6.031(3) requires the~~
2 ~~Commission to hold an annual SPPCRC hearing to address petitions for recovery of SPP~~
3 ~~costs that “will be limited to determining the reasonableness of projected Storm Protection~~
4 ~~Plan costs, the prudence of actual Storm Protection Plan costs incurred by the utility, and~~
5 ~~to establish Storm Protection Plan cost recovery factors . . .” That is, this docket is not the~~
6 ~~appropriate forum for determining cost recovery issues.~~

7 ~~In fact, the only place where “reasonableness” is mentioned with regard to the Plan itself~~
8 ~~is in Rule 25-6.030(3)(c), which requires a utility to provide a description its service area,~~
9 ~~including prioritized areas and any areas the “utility has determined that enhancement of~~
10 ~~the utility’s existing transmission and distribution facilities would not be feasible,~~
11 ~~reasonable, or practical. Such description must include . . . the utility’s reasoning for~~
12 ~~prioritizing certain areas for enhanced performance and for designating other areas of the~~
13 ~~system as not feasible, reasonable, or practical.” Nowhere in Rule 25-6.030 is the word~~
14 ~~“prudent” or a test of “prudency” mentioned or required because the Plan establishment~~
15 ~~phase is not the point for determining cost recovery, where prudence becomes an issue, but~~
16 ~~rather it is the time for the Commission to determine whether the Plan as a whole is in the~~
17 ~~public interest.~~

18
19 **Q. Mr. Kollen asserts that DEF’s calculations of the estimated revenue requirements had**
20 **errors that needed to be corrected. Do you agree with that allegation?**

21 A. No. DEF fully complied with Rule 25-6.030(3)(g)’s requirement that it provide “An
22 estimate of the annual jurisdictional revenue requirements for each year of the Storm
23 Protection Plan.” It is important to recognize these estimates are not used to set rates or

1 clause factors; these are calculations to provide reasonable estimates for the capital, O&M,
2 and revenue requirements of the SPP for planning purposes. The actual clause factors will
3 be determined in the SPPCRC. DEF properly included the appropriate elements for
4 ratemaking in its calculations: CWIP; Depreciation; and Property Tax.

5 Witness Kollen claims that DEF improperly calculated depreciation expense on CWIP at
6 the end of the prior year, but also failed to calculate depreciation expense on current year
7 plant additions. Mr. Kollen's statements are incorrect as explained in DEF's response to
8 OPC Interrogatory No. 58:

9 Consistent with the revenue requirement calculation in DEF's SPP 2020,
10 DEF's CWIP balance is incorporated into the 'Investment' line for each SPP
11 program. DEF has accounted for CWIP within the depreciation expense
12 calculation. Within the current year, a portion of each program is assumed
13 to be placed in-service. Therefore, the amount of investment not yet placed
14 in-service is representative of the CWIP balance.

15
16 For programs that assumed that CWIP was placed in service throughout the current year
17 (e.g., Transmission Structure Hardening), DEF did calculate depreciation expense on
18 current year plant additions. DEF also has programs that incur investment on individual
19 projects throughout the year but are placed in-service when all work within a target location
20 is complete; for financial modeling purposes, DEF assumed an end of year in-service for
21 these programs.

22 Regarding Mr. Kollen's statements on the calculation of property tax expense, the expenses
23 included in DEF's SPP 2023 are simply estimates for the 10-year period developed to
24 provide the estimate of the annual jurisdictional revenue requirements as required by Rule
25 25-6.030(3)(g). DEF uses reasonable methods to estimate the property tax expense for the
26 SPP programs over the planning timeframe, but ultimately property tax expenses collected
27 from customers are based on the projections filed in the SPPCRC filings, not DEF's 2023

1 SPP, and those projected amounts are subject to true-up based on the actual property taxes
2 incurred. Therefore, a revision to the calculation of estimated property tax expense in
3 DEF's SPP 2023 filing is unnecessary. Further, the Commission should not establish a
4 property tax expense calculation, as contemplated by Mr. Kollen, that would override the
5 true-up based on actual expenses as that would defeat the purpose of the true-up to actual
6 expenses in the SPPCRC and would create a departure in the true-up of property tax
7 expense in the SPPCRC compared to other clauses such as ECRC and ECCR. Finally, the
8 Commission, Commission Staff and intervenor parties have the right to review the actual
9 property tax expenses submitted in the SPPCRC filings.

10 DEF believes the figures presented on page 56 of 56 in Exhibit No.__(BML-1)
11 appropriately represent the estimated annual jurisdictional revenue requirements for each
12 year of the SPP. Actual cost recovery will occur through the annual SPPCRC process.

13
14 **Q. Mr. Kollen contends that the utilities will retain the avoided cost savings for costs**
15 **presently recovered in base rates unless these costs are addressed in this proceeding**
16 **and the SPPCRC proceedings or otherwise included in a negotiated resolution. Do**
17 **you agree?**

18 A. No. It is not true now, just as it was not true when then OPC Witness Schultz made a similar
19 statement in Docket No. 20200069-EI, "that there is a risk that ratepayers will be paying
20 for improvements that will reduce the Company's costs in base rates, but those savings will
21 not be passed through to the ratepayers." In rebuttal, DEF Witness Foster stated:

22 The SPP statute addresses new investments to strengthen the electric utility
23 infrastructure to withstand extreme weather conditions and improve overall
24 service reliability. It creates a cost recovery clause for investments to
25 accomplish this goal. It also ensures there is no double recovery for these

1 costs by stating in paragraph (8) that “storm protection plan costs may not
2 include costs recovered through the public utility’s base rates.” This clearly
3 addresses the double recovery concern. Rule 25-6.031(6)(b) implements
4 this statutory directive by stating “Storm Protection Plan costs recoverable
5 through the clause shall not include costs recovered through the utility’s
6 base rates or any other cost recovery mechanism.”
7

8 It is the normal process for base rate costs to change over time and this
9 creates regulatory lag. Some costs will decrease, others will increase. The
10 SPP Statute was not developed to address appropriate levels of costs in base
11 rates, it was developed to facilitate investment in work that will strengthen
12 the transmission and distribution systems from extreme weather to help
13 reduce restoration times and costs. There is in fact already a way that the
14 Commission monitors Florida utilities to ensure no excessive recovery is
15 occurring. The Commission requires monthly Earnings Surveillance
16 reports. These reports show the earned return on equity (ROE). In a rate
17 case, the FPSC authorizes an allowed ROE for utilities. If a utility reports a
18 ROE that is too high, the parties or the Commission itself may call the
19 Utility in for a rate case. Unlike cost recovery clauses, the normal and
20 established process for base rates involves regulatory lag.
21

22 Mr. Foster’s remarks still hold true and I would reiterate them in response to Mr. Kollen’s
23 contention.

24 DEF addressed compliance on this issue in the response to OPC’s Interrogatory 59. In that
25 response, DEF explained that these adjustments are included in the SPPCRC filings.

26 “Consistent with the model that was developed by DEF for its April 10,
27 2020, SPP filing, DEF did not include any assumptions for reductions
28 assumed in the calculation of depreciation expense associated with
29 retirements for plant that was previously recovered in base rates. In DEF’s
30 annual SPPCRC filings, DEF includes credits associated with the
31 depreciation expense for base rate assets retired as part of an SPP program.
32 When the value of the base asset is removed from EPIS during a subsequent
33 rate case, the depreciation expense credit included in the SPPCRC filings
34 associated with these assets should simultaneously cease. DEF does not
35 make assumptions for timing and outcomes of rate cases that would be
36 necessary to accurately reflect a reasonable amount of credit within the SPP
37 Revenue Requirement model. DEF believes that this is the appropriate
38 approach since the credits are included in the SPPCRC filings which are
39 used to set customer rates and are subject to true-up.
40

1 Again, the purpose of the SPP is not to prepare the precise calculations for clause factor
2 development; that process takes place in the SPPCRC. As DEF notes in its response, DEF
3 has included these credits in the SPPCRC filings in Docket 20220010-EI.

4
5 **V. CONCLUSION**

6 **Q. Mr. Menendez, your rebuttal covers a lot of ground, but did you respond to every**
7 **contention regarding the Company's proposed plan in your rebuttal?**

8 A. No. Intervenor testimony on the SPP involved many pages of testimony and I could not
9 reasonably respond to every single statement or assertion and, therefore, I focused on the
10 issues that I thought were most important. As a result, my silence on any particular
11 assertion in the intervenor testimony should not be read as agreement with or consent to
12 that assertion.

13 I specifically did not challenge many of Mr. Kollen's suggestions or recommendations he
14 makes related to changing methodologies for calculating revenue requirements and rate
15 calculations in the SPPCRC proceeding, again not because I agree with them, but rather I
16 believe he is treading on Rulemaking grounds which is not appropriate for consideration
17 or argument at this time.

18
19 **Q. Does this conclude your testimony?**

20 A. Yes.

1 MR. BERNIER: Thank you. And, with that, we
2 just ask that Mr. Menendez be excused.

3 CHAIRMAN FAY: Make sure -- if we have any
4 cross.

5 MR. BERNIER: No. No. No. We'd like him
6 excused now.

7 CHAIRMAN FAY: I'm sure you do, Mr. Bernier.

8 MR. REHWINKEL: Nice try.

9 CHAIRMAN FAY: Yeah. Mr. Rehwinkel.

10 EXAMINATION

11 BY MR. REHWINKEL:

12 Q Yes. I would like to ask Mr. Menendez to turn
13 to page six, lines two through 12.

14 A Of which documents, sir?

15 Q Of your -- I want you to turn to your revised
16 testimony.

17 MR. REHWINKEL: Mr. Chairman, if you could
18 give me one second. I spoke to Mr. Bernier about
19 this, but I've had a senior moment and I'm very
20 senior at this time.

21 MS. HELTON: Do you mean the corrected
22 proffered testimony?

23 MR. REHWINKEL: Yes.

24 CHAIRMAN FAY: That proffered for me would
25 start on page seven. Does that help you at all?

1 BY MR. REHWINKEL:

2 Q Yes, I apologize. So I meant on line seven --
3 I mean, on page seven, lines eight through 12, if you
4 could review those.

5 A I have reviewed them.

6 Q Okay. You could review Mr. Kollen's -- the
7 portion of his testimony that was not stricken at pages
8 two and three, specifically the lines 19 on page two
9 through four on page three.

10 A The sentence that begins my testimony should?

11 Q Yes, sir.

12 A I've reviewed those lines.

13 Q Thank you. Where you say that Misters Mara
14 and Kollen recognize in their amended testimony, the
15 2021 settlement agreement eliminates any and all doubt
16 that DEF's programs are appropriately included in DEF's
17 SPP 2023. Do you see that?

18 A I do.

19 Q Would you agree with me in referring to Mr.
20 Kollen's testimony at the top of page three, that he
21 qualified his recognition of the effect of paragraph
22 four from the 2021 agreement, that it only applies in
23 his opinion to the years 2023 and 2024, but not 2025?

24 A I see that qualification in his testimony.

25 Q Okay. Is it still your position that he's

1 **agreed that these programs should be included in SPP?**

2 A It is my conclusion that consistent with
3 paragraph four of DEF's 2021, the 2022, which is not in
4 our current SPP, 2023 and 2024 are appropriately
5 included in the SPP and in the SPP CRC.

6 Q **Okay. Do you have a copy of the settlement**
7 **agreement from 2021?**

8 A Yes, sir, I believe I do. I have it, sir.

9 Q **Is it your position that -- well, if I could**
10 **read you this paragraph four. It says the parties agree**
11 **that DEF has properly removed all costs associated with**
12 **the storm protection plan (SPP) from the costs included**
13 **in DEF's MFR's attached hereto as Exhibit 1. Did I read**
14 **that right?**

15 A Yes, sir. I believe so.

16 Q **Would you agree that DEF's MFR's only cover**
17 **the years 2023 and 2024?**

18 A As part of this settlement.

19 Q **Okay. Thank you.**

20 MR. REHWINKEL: Those are all the questions I
21 have. Thank you, Mr. Menendez.

22 CHAIRMAN FAY: Thank you. Any questions from
23 FIPUG, Nucor?

24 All right. Mr. Bernier.

25 MR. BERNIER: No -- nothing further from me,

1 sir.

2 CHAIRMAN FAY: We are -- we've entered 110.

3 You can now excuse your witness, if you'd like.

4 MR. BERNIER: Thank you.

5 CHAIRMAN FAY: Thank you, Mr. Menendez.

6 THE WITNESS: Thank you, Mr. Chairman. Thank
7 you, Commissioners.

8 (Witness excused.)

9 CHAIRMAN FAY: All right. Commissioners, next
10 we will move to TECO.

11 MR. MEANS: Thank you, Mr. Chairman. Tampa
12 Electric calls Mr. David A. Pickles back to the
13 stand.

14 CHAIRMAN FAY: Welcome back.

15 Whereupon,

16 DAVID A. PICKLES

17 was recalled as a witness, having been previously duly
18 sworn to speak the truth, the whole truth, and nothing
19 but the truth, was examined and testified as follows:

20 EXAMINATION

21 BY MR. MEANS:

22 Q Good afternoon, Mr. Pickles.

23 A Good afternoon.

24 Q Were you previously sworn?

25 A Yes.

1 Q And do you understand that you're still under
2 oath?

3 A I do.

4 Q Did you prepare and cause to be filed in this
5 docket on June 21st, 2022, a prepared rebuttal testimony
6 consisting of 15 pages?

7 A Yes.

8 Q And in response to the Commission's order
9 striking portions of OPC Witness Kollen's testimony, did
10 you cause to be filed on this docket on August 2nd a
11 revised version of that rebuttal testimony?

12 A I did.

13 Q Do you have any corrections to your revised
14 rebuttal testimony?

15 A No, I do not.

16 Q If I were to ask you the questions contained
17 in your revised rebuttal testimony today, would your
18 answers be the same?

19 A Yes, they would.

20 Q Thank you.

21 MR. MEANS: Mr. Chairman, we'd ask that the
22 revised rebuttal testimony of Mr. Pickles be
23 entered into the record as though read.

24 CHAIRMAN FAY: Show inserted.

25 (Whereupon, prefiled rebuttal testimony of

1 David A. Pickles was inserted.)

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**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

DOCKET NO. 20220048-EI

**TAMPA ELECTRIC'S
2022-2031
STORM PROTECTION PLAN**

REBUTTAL TESTIMONY

OF

DAVID A. PICKLES

FILED: June 21, 2022

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

REBUTTAL TESTIMONY

OF

DAVID A. PICKLES

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INTRODUCTION

Q. Please state your name, address, occupation and employer.

A. My name is David A. Pickles. My business address is 702 North Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "the company") as Vice President of Electric Delivery and Asset Management for Electric Delivery/Energy Supply.

Q. Are you the same David A. Pickles who filed direct testimony in this proceeding?

A. Yes, I am.

1 **Q.** What is the purpose of your rebuttal testimony in this
2 proceeding?

3

4 **A.** The purpose of my rebuttal testimony is to address the
5 deficiencies and misconceptions in the direct testimony
6 of Lane Kollen and Kevin J. Mara, both of whom are
7 testifying on behalf of the Office of Public Counsel.

8

9 **Q.** Do you have any general comments regarding the overall
10 direct testimony of Lane Kollen and Kevin J. Mara?

11

12 **A.** Yes. The Office of Public Counsel's witnesses generally
13 make three recommendations to the Commission. First, they
14 suggest that the Commission should develop guidelines of
15 general applicability for all four investor-owned utility
16 Storm Protection Plans ("SPPs"). Second, they advocate for
17 the use of a traditional utility cost-benefit analysis in
18 evaluating SPP Programs and Projects. Third, they propose
19 exclusion of some of Tampa Electric's SPP programs and
20 budget reductions for other programs. As I explain in my
21 testimony, the Commission should reject each of these
22 proposals as inconsistent with Section 366.96 of the
23 Florida Statutes (the "SPP Statute") and because these
24 proposals lack a reasoned basis in the record for this
25 docket.

1 I am confident that the company is managing the SPP program
2 in compliance with the statute and is committed to storm
3 hardening the system. These investments are made in full
4 support of reducing restoration costs and outage times
5 during extreme weather events. Mr. Kollen and Mr. Mara
6 essentially urge the adoption of arbitrary reductions that
7 lack any legitimate basis or foundation, and that appear to
8 be based on a desire simply to slow down the pace of
9 investments, which will further delay realization of
10 benefits from those future investments.

11

12 **REBUTTAL TO DIRECT TESTIMONY OF LANE KOLLEN:**

13

14 **Q.** [REDACTED]
15 [REDACTED]
16 [REDACTED]

17

18 **A.** [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]

24

25 **Q.** [REDACTED]

1 A.

[Redacted]

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[REDACTED]

Q. In addition to his proposal for universal specific decision criteria, Mr. Kollen critiques the company's benefits assessment on page 15 by alleging that it does not include cost-benefit analysis as a "threshold decision criterion" and asserts that the company's

1 analysis results in "excessive dollar benefits." He also
2 presents his own cost-benefit analysis on page 7 of his
3 testimony. Do you have any issues with his critiques and
4 his own cost-benefit assessment?

5
6 **A.** Yes, I have several issues. First, his assessment on
7 page 7 ignores the second benefit stream required by the
8 statute, the decrease in customer outages. His assessment
9 only reflects the decrease in storm restoration costs.
10 Major events impact Tampa Electric's customers in terms
11 of the high cost to restore the system and significant
12 personal impact from being without electrical service for
13 extended periods of time. The statute is rightly customer
14 centric in the benefits requirements. Tampa Electric's
15 SPP takes both of these benefit streams into consideration
16 and ensures each program and project is aligned to the
17 statute's customer centric approach.

18
19 Second, on page 15 of his testimony, he incorrectly
20 asserts that Tampa Electric did not use a cost benefit
21 analysis to screen projects. Projects were prioritized
22 based on the highest resiliency benefit cost ratio, where
23 resilience benefits are the sum of the avoided restoration
24 costs and monetized avoided customer outages. Witness De
25 Stigter describes this approach on pages 11-12 of his

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direct testimony.

Q. [REDACTED]

A. [REDACTED]

Q. [REDACTED]

A. [REDACTED]

Q. [REDACTED]

A. [REDACTED]

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A.

[REDACTED]

REBUTTAL TO DIRECT TESTIMONY OF KEVIN J. MARA:

Q. On Page 6, line 19, Mr. Mara states that there are two criteria that must be central in each SPP program and

1 project: (1) Reduce restoration costs, and (2) Reduce
2 outage times. Do you agree with this statement?

3

4 **A.** Yes, I do. All of Tampa Electric's proposed SPP programs
5 and projects are designed to reduce restoration costs and
6 to reduce outage times.

7

8 **Q.** On Page 7, line 4, Mr. Mara states that any program can
9 claim to reduce outage costs and outage time; however, the
10 program must be cost-effective for customers to benefit.
11 To summarize, the Rule require a two-prong test for
12 consideration of a program; reduction in outage costs and
13 reduction in outage time. Do you agree with this assessment
14 and summary?

15

16 **A.** As I stated before, I do agree that each SPP program and
17 project should reduce restoration costs and reduce outage
18 times. I do not, however, believe the distinction has
19 been made that these two benefits from each SPP program
20 and project fall into a strict two prong test. I also
21 disagree with what I believe is Mr. Mara's perspective of
22 what is cost-effective. In short, I believe Mr. Kollen
23 and Mr. Mara view cost-effectiveness solely in terms of
24 whether the program pays for itself in terms of avoided
25 restoration costs. As I explained above, the SPP Statute

1 is clearly taking a much larger view of the benefits to
2 the State as a whole.

3
4 **Q.** On Page 13, Mr. Mara proposes to cut \$570 million from
5 Tampa Electric's Distribution Lateral Undergrounding
6 Program. Do you agree with Mr. Mara's proposed limits to
7 this program?

8
9 **A.** No, I do not. Mr. Mara's limits are arbitrary and should
10 be rejected. On page 26, Mr. Mara explains that his
11 proposed cuts to the lateral undergrounding program are
12 based only on his judgment that the proposed cut "better
13 balances the rate impact of the spending with the
14 benefits." The arbitrary nature of this reduction can be
15 seen in several ways. First, he does not identify
16 specific lateral undergrounding projects that he believes
17 should be excluded from the plan. Second, he does not
18 identify specific facts that reflect unique attributes of
19 the Tampa Electric system that would justify the cuts to
20 this program. Third, Mr. Mara fails to recognize that
21 while the company has filed a plan covering 10 years, the
22 Commission will have an opportunity to revisit the
23 company's plan in three years when the company submits a
24 revised plan for review. To propose sweeping 10-year
25 reductions when the statute contemplates a three-year

1 review seems arbitrary to me.

2

3 **Q.** Also on page 13, Mr. Mara recommends cutting \$217 million
4 from the Distribution Overhead Feeder Hardening Program. Do
5 you agree with this proposed cut?

6

7 **A.** No, I do not. On page 21, Mr. Mara explains that he would
8 limit investment in the feeder strengthening component of
9 this program to the budget presented in the company's
10 2020-2029 SPP. He does not offer any reasoning or
11 justification based on the company's current SPP or the
12 record in this docket to support this cut. In my opinion
13 it is completely arbitrary.

14

15 Mr. Mara also proposes elimination of the automation
16 component of this Program. I agree with and support the
17 response to this proposal in the Rebuttal Testimony of
18 David L. Plusquellic.

19

20 **Q.** On page 13 of his testimony, Mr. Mara proposes to exclude
21 the Substation and Transmission Access Programs entirely
22 on the grounds that they do not comply with Rule 25-6.030.
23 Do you agree with these cuts?

24

25 **A.** No, I do not. I agree with the points made by David L.

1 Plusquellic in his Rebuttal Testimony on this topic.

2

3 **Q.** Does this conclude your rebuttal testimony?

4

5 **A.** Yes.

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1 with Mr. Mara about his recommendation, though, should
2 it be TECO that -- or shouldn't it be TECO that is the
3 one to decide which laterals to exclude?

4 A Yes, absolutely. It would be, yes.

5 Q Okay. And in reference to your rebuttal
6 testimony, again on page 13, lines 20 through 23, you
7 stated that the SPP is a 10-year program and that the
8 Commission will have the opportunity to revisit the plan
9 in three years, correct?

10 A That's right.

11 Q If the Commission adopts Mr. Mara's
12 recommendation, then in the three years the Commission
13 could -- or in three years, the Commission could agree
14 to increase the budget for the distribution lateral
15 undergrounding program if the Commission believed that
16 the resiliency improvements from the undergrounding
17 program are better qualified at that time, correct?

18 A Yes, they would have that authority.

19 Q And as a whole, this 2023 -- or I don't know
20 if you refer to it as 2022 or --

21 A 2022 through 2031.

22 Q Okay. Tampa's plan that they filed in this
23 docket has changed in some degrees since the 2020 plan
24 that Tampa filed, correct?

25 A Very minimally, but slightly, yes.

1 Q It's adapted?

2 A Yes.

3 Q Okay. So it's possible for this plan to
4 change, as well?

5 A It certainly could be recommended to be
6 changed, yes.

7 MS. WESSLING: Okay. Nothing further at this
8 time for this section.

9 CHAIRMAN FAY: Thank you Ms. Wessling. FIPUG.

10 MR. MOYLE: No questions.

11 CHAIRMAN FAY: Ms. Eaton.

12 MS. EATON: No questions.

13 CHAIRMAN FAY: Staff.

14 MR. IMIG: Staff has no questions.

15 CHAIRMAN FAY: With that, Mr. Means, redirect?

16 MR. MEANS: No redirect.

17 CHAIRMAN FAY: Okay. And no exhibits entered.

18 MR. MEANS: No exhibits.

19 CHAIRMAN FAY: Mr. Means, we will recognize
20 you for the proffered testimony.

21 MR. MEANS: Thank you, Mr. Chairman. In
22 response to the Office of Public Counsel's proffer
23 of the prefiled direct testimony of Mr. Kollen, we
24 would ask that the rebuttal testimony of Mr.
25 Pickles, originally filed on June 21st 2022, be

1 entered into the proffered record.

2 CHAIRMAN FAY: Okay. Show that proffered.

3 (Whereupon, prefiled rebuttal proffered
4 testimony of David A. Pickles was inserted.)

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**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION**

DOCKET NO. 20220048-EI

**TAMPA ELECTRIC'S
2022-2031
STORM PROTECTION PLAN**

REBUTTAL TESTIMONY

OF

DAVID A. PICKLES

FILED: June 21, 2022

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

REBUTTAL TESTIMONY

OF

DAVID A. PICKLES

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INTRODUCTION

Q. Please state your name, address, occupation and employer.

A. My name is David A. Pickles. My business address is 702 North Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "the company") as Vice President of Electric Delivery and Asset Management for Electric Delivery/Energy Supply.

Q. Are you the same David A. Pickles who filed direct testimony in this proceeding?

A. Yes, I am.

1 **Q.** What is the purpose of your rebuttal testimony in this
2 proceeding?

3

4 **A.** The purpose of my rebuttal testimony is to address the
5 deficiencies and misconceptions in the direct testimony
6 of Lane Kollen and Kevin J. Mara, both of whom are
7 testifying on behalf of the Office of Public Counsel.

8

9 **Q.** Do you have any general comments regarding the overall
10 direct testimony of Lane Kollen and Kevin J. Mara?

11

12 **A.** Yes. The Office of Public Counsel's witnesses generally
13 make three recommendations to the Commission. First, they
14 suggest that the Commission should develop guidelines of
15 general applicability for all four investor-owned utility
16 Storm Protection Plans ("SPPs"). Second, they advocate for
17 the use of a traditional utility cost-benefit analysis in
18 evaluating SPP Programs and Projects. Third, they propose
19 exclusion of some of Tampa Electric's SPP programs and
20 budget reductions for other programs. As I explain in my
21 testimony, the Commission should reject each of these
22 proposals as inconsistent with Section 366.96 of the
23 Florida Statutes (the "SPP Statute") and because these
24 proposals lack a reasoned basis in the record for this
25 docket.

1 I am confident that the company is managing the SPP program
2 in compliance with the statute and is committed to storm
3 hardening the system. These investments are made in full
4 support of reducing restoration costs and outage times
5 during extreme weather events. Mr. Kollen and Mr. Mara
6 essentially urge the adoption of arbitrary reductions that
7 lack any legitimate basis or foundation, and that appear to
8 be based on a desire simply to slow down the pace of
9 investments, which will further delay realization of
10 benefits from those future investments.

11
12 **REBUTTAL TO DIRECT TESTIMONY OF LANE KOLLEN:**

13
14 ~~Q. You previously stated that Mr. Kollen recommends guidelines~~
15 ~~of general applicability for the Commission's review of~~
16 ~~utility SPPs. Can you explain what this means?~~

17
18 ~~A. On page 7 of his testimony, Mr. Kollen argues that the~~
19 ~~Commission should develop "threshold decision criteria for~~
20 ~~the selection, ranking, and magnitude of the SPP programs~~
21 ~~and projects." On page 21, he suggests that these should be~~
22 ~~"specific decision criteria for the selection, ranking, and~~
23 ~~magnitude of the utilities' SPP programs and projects."~~

24
25 ~~Q. Do you agree with this proposal?~~

1 ~~A. I do not, for three reasons.~~

2
3 ~~First, although I am not a lawyer, I do not read the SPP~~
4 ~~Statute as requiring the Commission to adopt "specific~~
5 ~~decision criteria." Rather, the SPP Statute directs the~~
6 ~~utilities to submit plans and directs the Commission to~~
7 ~~evaluate them. The Commission opened four separate~~
8 ~~dockets - one for each investor-owned utility - for this~~
9 ~~purpose. The SPP Statute does include factors that the~~
10 ~~Commission must consider in evaluating plans, but none of~~
11 ~~these factors includes "threshold decision criteria" of~~
12 ~~the type suggested by Mr. Kollen. For example, the SPP~~
13 ~~Statute directs the Commission to consider the "estimated~~
14 ~~costs and benefits" of the SPP but does not require the~~
15 ~~Commission to adopt a universally applicable threshold~~
16 ~~ratio for costs and benefits.~~

17
18 ~~Second, each of the utilities is unique, so it is unlikely~~
19 ~~that a one-size-fits-all approach would be appropriate.~~
20 ~~Tampa Electric's electrical system is different than the~~
21 ~~systems for Florida Power and Light and Duke Energy~~
22 ~~Florida. The company has different costs, different~~
23 ~~proportions of urban and rural areas, differing coast~~
24 ~~lines, differing areas with and without vegetation, and~~
25 ~~many other attributes including electrical systems that~~

1 contain different equipment. Common criteria would place
2 favoritism on some customers and even the utility, and
3 what works for one utility may be very problematic for
4 another.

5
6 Third, although it may be useful to develop guidelines of
7 general applicability at some point, we are still in the
8 first three years of the life of the SPP Statute and,
9 from Tampa Electric's perspective, we do not have enough
10 experience implementing a SPP to adopt such guidelines.
11 For instance, the company has proposed several
12 improvements to the Distribution Lateral Undergrounding
13 Program in the 2022 SPP based on the company's experience
14 with implementing that program over the last two years.

15
16 For these reasons, Tampa Electric urges the Commission to
17 evaluate the company's 2022 SPP based on the evidence in
18 the record, the unique characteristics and circumstances
19 of its system, and the SPP Statute.

20
21 Q. In addition to his proposal for universal specific
22 decision criteria, Mr. Kollen critiques the company's
23 benefits assessment on page 15 by alleging that it does
24 not include cost-benefit analysis as a "threshold
25 decision criterion" and asserts that the company's

1 analysis results in "excessive dollar benefits." He also
2 presents his own cost-benefit analysis on page 7 of his
3 testimony. Do you have any issues with his critiques and
4 his own cost-benefit assessment?

5
6 **A.** Yes, I have several issues. First, his assessment on
7 page 7 ignores the second benefit stream required by the
8 statute, the decrease in customer outages. His assessment
9 only reflects the decrease in storm restoration costs.
10 Major events impact Tampa Electric's customers in terms
11 of the high cost to restore the system and significant
12 personal impact from being without electrical service for
13 extended periods of time. The statute is rightly customer
14 centric in the benefits requirements. Tampa Electric's
15 SPP takes both of these benefit streams into consideration
16 and ensures each program and project is aligned to the
17 statute's customer centric approach.

18
19 Second, on page 15 of his testimony, he incorrectly
20 asserts that Tampa Electric did not use a cost benefit
21 analysis to screen projects. Projects were prioritized
22 based on the highest resiliency benefit cost ratio, where
23 resilience benefits are the sum of the avoided restoration
24 costs and monetized avoided customer outages. Witness De
25 Stigter describes this approach on pages 11-12 of his

1 direct testimony.

2
3 Q. Does Mr. Kollen suggest adoption of a specific cost-benefit
4 ratio?

5
6 A. Yes, Mr. Kollen suggests that the Commission should screen
7 any project with a cost-benefit ratio of less than 100
8 percent. On page 17, he suggests that this ratio should be
9 calculated with benefits defined as avoided restoration
10 costs and avoided O&M costs and cost defined as the sum of
11 annual revenue requirements for the program or project.

12
13 Q. What is Mr. Kollen's basis for this proposed cost-benefit
14 screen?

15
16 A. On page 21, Mr. Kollen asserts that a specific cost-benefit
17 screening criterion is necessary because SPP programs and
18 projects are "discretionary."

19
20 Q. Do you agree with this characterization of the SPP
21 activities as discretionary?

22
23 A. No, I do not. The SPP Statute makes it clear that
24 completion of storm protection activities is mandatory.
25 First, it states that each public utility "shall file" a

1 SPP. Next, it states that this SPP "must explain the
2 systematic approach the utility will follow to achieve
3 the objectives of reducing restoration costs and outage
4 times associated with extreme weather."

5
6 **Q.** Do you agree with the proposed 100 percent cost-benefit
7 ratio screen for SPP programs and projects?

8
9 **A.** No. I generally agree with Mr. Kollen's principles that
10 benefits should outweigh costs in investment decision
11 making, however, restricting that to only a financial
12 metric is not sound in all circumstances. Since SPP
13 activities are mandatory, I think Mr. Kollen and Mr. Mara
14 should look beyond a traditional, financial cost-benefit
15 analysis.

16
17 Although I am not a lawyer, my reading of the SPP Statute
18 leads me to believe that the Florida Legislature
19 understood that outages associated with extreme weather
20 have an economic impact on the State of Florida and
21 electric customers that does not show up in a comparison
22 of project costs with avoided restoration costs. For
23 instance, Tampa Electric considered the safety of
24 employees and the general public, the duty to serve, and
25 other factors on top of the financial cost when evaluating

1 the benefits of investment. For the SPP, the duty to
2 serve benefit stream was quantified based on the avoided
3 outages from storms. While not overtly quantified, it
4 should be noted that decreasing storm outage impact will
5 also decrease safety risk as fewer crews are exposed to
6 dangerous circumstances during storm events. Restricting
7 a benefits assessment for storm protection purposes to
8 only a financial evaluation will drive outcomes that are
9 contrary to the best interest of Tampa Electric's
10 customers and contrary to the intent of the SPP Statute.

11
12 **R.** On Page 9 line 15, Mr. Kollen states that "the utilities
13 did not, with limited exceptions, explicitly exclude the
14 costs presently recovered in base rates or expressly
15 account for any avoided cost saving", do you agree with
16 his assessment?

17
18 **A.** No, Mr. Kollen is incorrect. In Tampa Electric's initial
19 2020-2029 SPP and in the company's initial SPPCRC
20 projection filing, the Commission approved the company's
21 2020 Stipulation and Settlement which required the
22 company to reduce the amount of costs charged to the
23 SPPCRC in 2020 by \$10.4 Million and to make a reduction
24 to base rates at the beginning of 2021 in the amount of
25 \$15.0 Million to shift cost recovery for some existing

1 ~~storm hardening activities to the SPPCRC going forward~~
2 ~~and to avoid any type of double recovery. Both of these~~
3 ~~adjustments were transparently made. In addition, since~~
4 ~~that time the company has completed a rate case in which~~
5 ~~all SPPCRC costs were removed as required from base rates,~~
6 ~~again to ensure there would be no chance of double~~
7 ~~recovery.~~

8
9 ~~Mr. Kollen also alleges that the company would retain the~~
10 ~~benefit of any costs avoided by SPP projects. This is~~
11 ~~inaccurate. One of the main benefits of the SPP will be~~
12 ~~a reduction in storm restoration costs. Restoration costs~~
13 ~~during extreme weather events, such as named hurricanes,~~
14 ~~are not included in base rates. These costs are charged~~
15 ~~against Tampa Electric's storm reserve. The~~
16 ~~replenishment of the company's storm reserve occurs in a~~
17 ~~separate proceeding in which the costs are reviewed and~~
18 ~~approved by the Commission. In this separate proceeding,~~
19 ~~the company would request a surcharge be placed on~~
20 ~~electric bills to recover the storm costs from all~~
21 ~~customers, so any reduction in outages and restoration~~
22 ~~costs provided by the company's SPP would benefit all~~
23 ~~customers.~~

24
25 ~~Q. On Page 14, Mr. Kollen states that utilities should~~

1 exclude programs and projects that "are within the scope
2 of their existing base rate programs and base rate
3 recoveries" from their SPPs. Do you agree?

4
5 **A.** No, I do not. Mr. Kollen's statement clearly contradicts
6 the Statute and the Commission's obligations requiring
7 Tampa Electric and the other utilities to file SPPs. In
8 fact, his statement would essentially eliminate any SPP
9 from being developed as the majority of the activities
10 that Tampa Electric performs, at one time or another in
11 its history were recovered in base rates. Furthermore,
12 some of the activities included in the company's SPP are
13 recovered through base rates. This is because the SPP
14 Statute requires the SPP to include the company's
15 comprehensive, "systematic approach" to storm hardening
16 and does not require the company to exclude activities
17 included in base rates from the SPP. As explained above,
18 the costs of these activities included in base rates are
19 excluded from the SPPCRC to avoid double recovery. In
20 addition, his statements are not supported by any rigorous
21 analysis or basis in the record of this proceeding.

22
23 **REBUTTAL TO DIRECT TESTIMONY OF KEVIN J. MARA:**

24 **Q.** On Page 6, line 19, Mr. Mara states that there are two
25 criteria that must be central in each SPP program and

1 project: (1) Reduce restoration costs, and (2) Reduce
2 outage times. Do you agree with this statement?

3

4 **A.** Yes, I do. All of Tampa Electric's proposed SPP programs
5 and projects are designed to reduce restoration costs and
6 to reduce outage times.

7

8 **Q.** On Page 7, line 4, Mr. Mara states that any program can
9 claim to reduce outage costs and outage time; however, the
10 program must be cost-effective for customers to benefit.
11 To summarize, the Rule require a two-prong test for
12 consideration of a program; reduction in outage costs and
13 reduction in outage time. Do you agree with this assessment
14 and summary?

15

16 **A.** As I stated before, I do agree that each SPP program and
17 project should reduce restoration costs and reduce outage
18 times. I do not, however, believe the distinction has
19 been made that these two benefits from each SPP program
20 and project fall into a strict two prong test. I also
21 disagree with what I believe is Mr. Mara's perspective of
22 what is cost-effective. In short, I believe Mr. Kollen
23 and Mr. Mara view cost-effectiveness solely in terms of
24 whether the program pays for itself in terms of avoided
25 restoration costs. As I explained above, the SPP Statute

1 is clearly taking a much larger view of the benefits to
2 the State as a whole.

3
4 **Q.** On Page 13, Mr. Mara proposes to cut \$570 million from
5 Tampa Electric's Distribution Lateral Undergrounding
6 Program. Do you agree with Mr. Mara's proposed limits to
7 this program?

8
9 **A.** No, I do not. Mr. Mara's limits are arbitrary and should
10 be rejected. On page 26, Mr. Mara explains that his
11 proposed cuts to the lateral undergrounding program are
12 based only on his judgment that the proposed cut "better
13 balances the rate impact of the spending with the
14 benefits." The arbitrary nature of this reduction can be
15 seen in several ways. First, he does not identify
16 specific lateral undergrounding projects that he believes
17 should be excluded from the plan. Second, he does not
18 identify specific facts that reflect unique attributes of
19 the Tampa Electric system that would justify the cuts to
20 this program. Third, Mr. Mara fails to recognize that
21 while the company has filed a plan covering 10 years, the
22 Commission will have an opportunity to revisit the
23 company's plan in three years when the company submits a
24 revised plan for review. To propose sweeping 10-year
25 reductions when the statute contemplates a three-year

1 review seems arbitrary to me.

2

3 **Q.** Also on page 13, Mr. Mara recommends cutting \$217 million
4 from the Distribution Overhead Feeder Hardening Program. Do
5 you agree with this proposed cut?

6

7 **A.** No, I do not. On page 21, Mr. Mara explains that he would
8 limit investment in the feeder strengthening component of
9 this program to the budget presented in the company's
10 2020-2029 SPP. He does not offer any reasoning or
11 justification based on the company's current SPP or the
12 record in this docket to support this cut. In my opinion
13 it is completely arbitrary.

14

15 Mr. Mara also proposes elimination of the automation
16 component of this Program. I agree with and support the
17 response to this proposal in the Rebuttal Testimony of
18 David L. Plusquellic.

19

20 **Q.** On page 13 of his testimony, Mr. Mara proposes to exclude
21 the Substation and Transmission Access Programs entirely
22 on the grounds that they do not comply with Rule 25-6.030.
23 Do you agree with these cuts?

24

25 **A.** No, I do not. I agree with the points made by David L.

1 Plusquellic in his Rebuttal Testimony on this topic.

2

3 **Q.** Does this conclude your rebuttal testimony?

4

5 **A.** Yes.

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1 **investments, and the other being the avoided O&M**
2 **expenses due to the SPP plan investments and SPP O&M**
3 **expenses?**

4 A Not specifically. But, yes, I do recall that.

5 Q **Generally?**

6 A Generally, yes.

7 Q **Okay. In fact, in Tampa Electric's filing to**
8 **estimate the SPP revenue requirement, the company makes**
9 **an adjustment to remove depreciation expense on plant**
10 **that is retired due to SPP plant investments, correct?**

11 A Can you repeat that question?

12 Q **Sure. In Tampa Electric's filing to estimate**
13 **the SPP revenue requirement, the company makes an**
14 **adjustment to remove depreciation expense on plant that**
15 **is retired due to SPP plant investment.**

16 A I would ask that the witness, Richard Latta,
17 answer that question.

18 Q **All right. When the SPP plant and SPP O&M**
19 **expense investments are made, do you expect that that**
20 **will lead to a savings in annual O&M expense due to the**
21 **newer hardened transmission and distribution systems?**

22 A We will continue to evaluate that. It is very
23 early in the program. Unable to say specifically.

24 Q **But those -- are you able to say that you do**
25 **expect savings in those areas from this hardening?**

1 A We will continue to evaluate. And, again, I
2 can't say for sure if there will be or not, but if there
3 are we will certainly implement them.

4 Q And base rates will remain in effect for Tampa
5 Electric until the next base rate case, right?

6 A Correct.

7 Q And the base rates currently in effect are
8 based in part on the level of O&M expense in the test
9 year, correct?

10 A Yes.

11 Q So if there are savings, from O&M expense due
12 to the SPP program investments, those savings won't be
13 passed along to customers until the rates from the next
14 base rate case are authorized, correct?

15 A I believe so.

16 MS. WESSLING: Okay. Nothing further.

17 CHAIRMAN FAY: Thank you. Nucor.

18 MR. MATTHEIS: Not a part of this.

19 CHAIRMAN FAY: Ms. Eaton.

20 MS. EATON: No questions.

21 MR. MOYLE: FIPUG has no questions.

22 CHAIRMAN FAY: Okay. Staff.

23 MR. IMIG: Staff has no questions.

24 CHAIRMAN FAY: Commissioners? Any redirect?

25 MR. MEANS: No redirect, Mr. Chairman. We

1 just ask that Mr. Pickles be excused.

2 CHAIRMAN FAY: Mr. Pickles, you are excused.

3 Travel safe.

4 THE WITNESS: Thank you.

5 (Witness excused.)

6 (Transcript continues in sequence in Volume

7 8.)

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CERTIFICATE OF REPORTER

STATE OF FLORIDA)
COUNTY OF LEON)

I, DANA W. REEVES, Professional 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 12th day of August, 2022.



DANA W. REEVES
NOTARY PUBLIC
COMMISSION #GG970595
EXPIRES MARCH 22, 2024