



Matthew R. Bernier
Associate General Counsel
Duke Energy Florida, LLC.

July 21, 2020

VIA ELECTRONIC FILING

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

Re: *Review of 2020-2029 Storm Protection Plan Pursuant to Rule 25-6.030, F.A.C. Duke Energy Florida, LLC; Docket No. 20200069-EI*

Dear Mr. Teitzman:

Please find attached for filing Revised Exhibit No. ____ (JWO-6), to the rebuttal testimony of Jay W. Oliver, filed on July 1, 2020.

Page 4 of 12 has been revised to:

- Change costs to total 10-year sum of program costs – previous costs were present value to 2020 \$'s.
- Costs have been updated to include previously omitted costs: VM Programs (Transmission and Distribution), pole replacement/inspections, and Connectivity and Capacity for SOG.
- Previous costs also included removal costs; removal costs are not included in the revised version.
- The notes below the table have been updated to clearly state that blue sky is not included in CMI reduction or outage restoration cost benefits.

Thank you for your assistance in this matter. Please feel free to call me at (850) 521-1428 should you have any questions concerning this filing.

Respectfully,

s/Matthew R. Bernier

Matthew R. Bernier
Matt.Bernier@duke-energy.com

MRB/mw
Enclosures

CERTIFICATE OF SERVICE

Docket No. 20200069-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished to the following by electronic mail this 21st day of July, 2020, to all parties of record as indicated below.

/s/ Matthew R. Bernier

Attorney

<p>C. Murphy / R. Dziechciarz Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 cmurphy@psc.state.fl.us rdziehc@psc.state.fl.us</p> <p>James W. Brew / Laura Wynn Baker 1025 Thomas Jefferson St., N.W. Suite 800 West Washington, DC 20007-5201 jbrew@smxblaw.com lwb@smxblaw.com</p> <p>Jon C. Moyle, Jr. / Karen A. Putnal 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com kputnal@moylelaw.com mqualls@moylelaw.com</p>	<p>J.R. Kelly / Charles J. Rehwinkel Office of Public Counsel c/o The Florida Legislature 111 West Madison St., Rm. 812 Tallahassee, FL 32399-1400 kelly.jr@leg.state.fl.us rehwinkel.charles@leg.state.fl.us</p> <p>Stephanie U. Eaton 110 Oakwood Dr., Ste. 500 Winston-Salem, NC 27103 seaton@spilmanlaw.com</p> <p>Derrick P. Williamson / Barry A. Naum 1100 Bent Creed Blvd., Ste. 101 Mechanicsburg, PA 17050 dwilliamson@spilmanlaw.com bnaum@spilmanlaw.com</p>
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Discount Rate 7.61%

Step 1: Combine cost and benefit data for Non-Enabling Programs and Enabling Programs

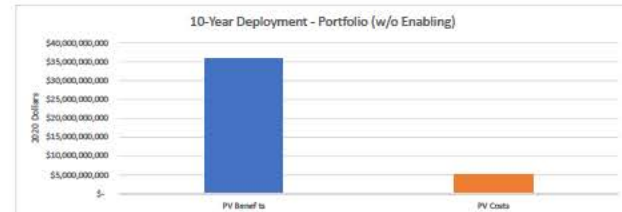
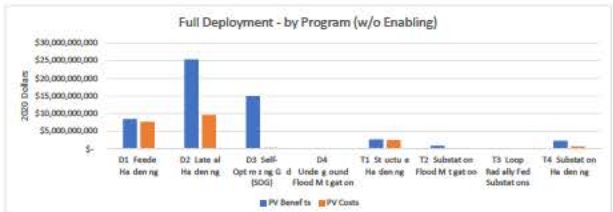
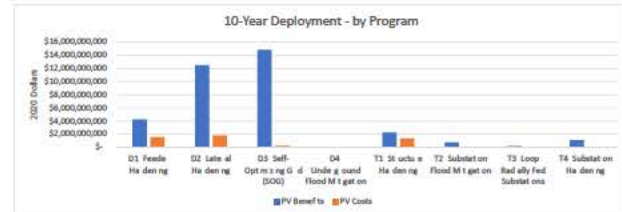
Program Category	Program (Normal)	Filing Program (Normal)	10-Year		Full Deployment	
			PV Benefits	PV Costs	PV Benefits	PV Costs
Non-Enabling Programs - from "Master Output" tab	D1: Feeder Hardening	D1: Feeder Hardening	\$ 4,242,138,029	\$ 1,324,387,923	\$ 8,412,080,300	\$ 7,679,151,162
	D2: Lateral Hardening (UG)	D2: Lateral Hardening	\$ 12,491,968,228	\$ 2,062,782,804	\$ 25,325,104,316	\$ 9,610,126,917
	D3: Self-Optimizing Grid (SOG)	D3: Self-Optimizing Grid (SOG)	\$ 14,818,051,332	\$ 374,004,344	\$ 14,962,598,798	\$ 298,336,842
	D4: Underground Flood Mitigation	D4: Underground Flood Mitigation	\$ 43,177,747	\$ 10,803,349	\$ 36,836,759	\$ 26,831,332
	T1: Structure Hardening	T1: Structure Hardening	\$ 2,266,242,443	\$ 1,333,421,445	\$ 2,666,441,644	\$ 2,433,980,820
	T2: Substation Flood Mitigation	T2: Substation Flood Mitigation	\$ 762,511,417	\$ 29,640,000	\$ 820,233,683	\$ 32,440,000
	T3: Loop Radially Fed Substations	T3: Loop Radially Fed Substations	\$ 167,430,977	\$ 38,014,000	\$ 193,809,228	\$ 170,669,000
	T4: Substation Hardening	T4: Substation Hardening	\$ 1,074,843,733	\$ 104,392,800	\$ 2,267,602,211	\$ 632,426,400
	T1: Wood Pole Program	T1: Structure Hardening	\$ 1,117,092,729	\$ 869,794,979	\$ 1,291,991,649	\$ 1,442,664,676
	T2: Tower Replacements	T1: Structure Hardening	\$ 449,674,728	\$ 132,479,820	\$ 603,277,029	\$ 260,331,400
	T3: Overhead Ground Wires	T1: Structure Hardening	\$ 178,639,682	\$ 103,396,833	\$ 250,377,662	\$ 343,479,706
	T4: Substation Flood Mitigation	T2: Substation Flood Mitigation	\$ 762,511,417	\$ 29,640,000	\$ 820,233,683	\$ 32,440,000
	T3: Loop Radially Fed Substations	T3: Loop Radially Fed Substations	\$ 167,430,977	\$ 38,014,000	\$ 193,809,228	\$ 170,669,000
	T6: Substation Hardening	T4: Substation Hardening	\$ 1,074,843,733	\$ 104,392,800	\$ 2,267,602,211	\$ 632,426,400
Enabling Programs - from "Program Spend" tab	D1: Pole Replacement and Treatment (Feeder)	D1: Feeder Hardening	\$ -	\$ -	\$ 96,292,217	\$ -
	D2: Pole Replacement and Treatment (Lateral)	D2: Lateral Hardening	\$ -	\$ -	\$ 247,608,537	\$ -
	D3b: Self-Optimizing Grid (SOG) - C&C	D3: Self-Optimizing Grid (SOG)	\$ -	\$ -	\$ 118,376,002	\$ -
	T1: Structure Inspections	T1: Structure Hardening	\$ -	\$ -	\$ 2,168,080	\$ -
	T2: Tower Drone Inspections	T1: Structure Hardening	\$ -	\$ -	\$ 666,693	\$ -
	VM1: Distribution VM	VM1: Distribution VM	\$ -	\$ -	\$ 272,673,510	\$ -
VM2: Transmission VM	VM2: Transmission VM	\$ -	\$ -	\$ 113,433,180	\$ -	

Spend for Enabling Programs is not available after 2028; therefore the full deployment cost only considers the spend from 2020-2029

Step 2a: Generate data to feed graphs (NOT INCLUDING enabling programs)

Program	10-Year				Full Deployment			
	PV Benefits	PV Costs	NPV	B/C Ratio	PV Benefits	PV Costs	NPV	B/C Ratio
D1: Feeder Hardening	\$ 4,242,138,029	\$ 1,324,387,923	\$ 2,917,750,105	2.78	\$ 8,412,080,300	\$ 7,679,151,162	\$ 732,929,138	1.10
D2: Lateral Hardening	\$ 12,491,968,228	\$ 2,062,782,804	\$ 10,429,185,424	6.06	\$ 25,325,104,316	\$ 9,610,126,917	\$ 15,714,977,399	2.64
D3: Self-Optimizing Grid (SOG)	\$ 14,818,051,332	\$ 374,004,344	\$ 14,444,047,188	39.62	\$ 14,962,598,798	\$ 298,336,842	\$ 14,664,261,956	50.15
D4: Underground Flood Mitigation	\$ 43,177,747	\$ 10,803,349	\$ 34,374,398	4.18	\$ 36,836,759	\$ 26,831,332	\$ 30,005,407	2.12
T1: Structure Hardening	\$ 2,266,242,443	\$ 1,333,421,445	\$ 932,820,998	1.70	\$ 2,666,441,644	\$ 2,433,980,820	\$ 233,000,824	1.09
T2: Substation Flood Mitigation	\$ 762,511,417	\$ 29,640,000	\$ 732,871,417	23.73	\$ 820,233,683	\$ 32,440,000	\$ 787,893,683	13.63
T3: Loop Radially Fed Substations	\$ 167,430,977	\$ 38,014,000	\$ 109,416,977	2.89	\$ 193,809,228	\$ 170,669,000	\$ 23,140,228	1.14
T4: Substation Hardening	\$ 1,074,843,733	\$ 104,392,800	\$ 970,450,933	10.30	\$ 2,267,602,211	\$ 632,426,400	\$ 1,635,175,811	3.59
Total	\$ 35,868,364,108	\$ 5,128,629,331	\$ 30,739,734,777	6.99	\$ 54,735,006,989	\$ 20,923,402,492	\$ 33,811,604,497	2.62

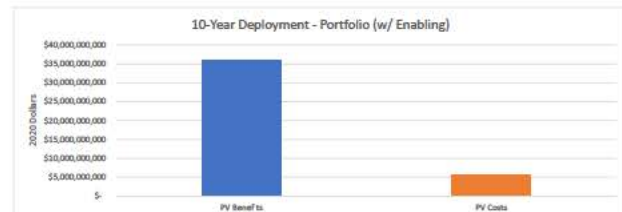
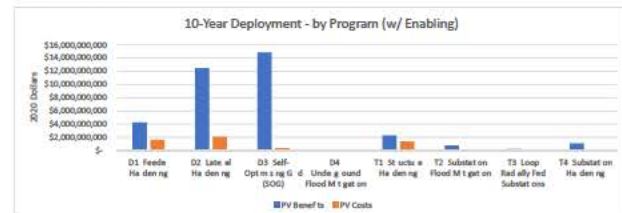
Note: Present values for distribution programs are calculated over a 30-year analysis horizon; transmission programs are over 40 years.



Step 2b: Generate data to feed graphs (INCLUDING enabling programs)

Program	10-Year			
	PV Benefits	PV Costs	NPV	B/C Ratio
D1: Feeder Hardening	\$ 4,242,138,029	\$ 1,620,680,140	\$ 2,621,457,889	2.62
D2: Lateral Hardening	\$ 12,491,968,228	\$ 2,062,782,804	\$ 10,429,185,424	6.06
D3: Self-Optimizing Grid (SOG)	\$ 14,818,051,332	\$ 374,004,344	\$ 14,444,047,188	39.62
D4: Underground Flood Mitigation	\$ 43,177,747	\$ 10,803,349	\$ 34,374,398	4.18
T1: Structure Hardening	\$ 2,266,242,443	\$ 1,333,421,445	\$ 932,820,998	1.70
T2: Substation Flood Mitigation	\$ 762,511,417	\$ 29,640,000	\$ 732,871,417	23.73
T3: Loop Radially Fed Substations	\$ 167,430,977	\$ 38,014,000	\$ 109,416,977	2.89
T4: Substation Hardening	\$ 1,074,843,733	\$ 104,392,800	\$ 970,450,933	10.30
Total	\$ 35,868,364,108	\$ 5,593,740,882	\$ 30,274,623,226	6.41

Note: Present values for distribution programs are calculated over a 30-year analysis horizon; transmission programs are over 40 years.



Reduced CMI

Category	Total	D1: Feeder Hardening	D2: Lateral Hardening	D3: Self-Optimizing Grid (SOG)	D4: Underground Flood Mitigation	T1: Structure Hardening	T2: Substation Flood Mitigation	T3: Loop Radially Fed Substations	T4: Substation Hardening
High Wind Tropical Storm	216 051 717	16 259 261	96 560 578	96 624 341	-	3 649 483	-	36 139	2 922 115
High Wind Cat 1	119 449 281	10 477 863	52 637 774	51 399 595	-	3 264 783	-	40 838	1 628 427
High Wind Cat 2	48 812 554	4 645 281	21 138 607	20 529 718	-	1 800 689	-	27 613	670 645
High Wind Cat 3	38 232 401	3 782 848	15 743 975	16 030 637	-	2 106 455	-	33 539	534 947
High Wind Cat 4	17 957 715	1 639 690	6 776 060	7 673 168	-	1 562 597	-	29 939	276 261
High Wind Cat 5	5 332 854	336 839	1 714 153	2 561 491	-	444 906	-	41 779	233 686
Flood Any	2 268 487	149 456	190 261	1 483	3 823	-	1 906 966	16 491	7
Storm Surge Any	9 354 940	1 341 434	1 245 903	1 529	436 335	-	6 160 730	168 988	22
Total	457 459 949	38 632 673	196 007 311	194 821 764	440 158	12 828 912	8 067 696	395 326	6 266 110

Reduced SAIDI

Category	Total	D1: Feeder Hardening	D2: Lateral Hardening	D3: Self-Optimizing Grid (SOG)	D4: Underground Flood Mitigation	T1: Structure Hardening	T2: Substation Flood Mitigation	T3: Loop Radially Fed Substations	T4: Substation Hardening
High Wind Tropical Storm	115.27	8.67	51.52	51.55	-	1.95	-	0.02	1.56
High Wind Cat 1	63.73	5.59	28.08	27.42	-	1.74	-	0.02	0.87
High Wind Cat 2	26.04	2.48	11.28	10.95	-	0.96	-	0.01	0.36
High Wind Cat 3	20.40	2.02	8.40	8.55	-	1.12	-	0.02	0.29
High Wind Cat 4	9.58	0.87	3.62	4.09	-	0.83	-	0.02	0.15
High Wind Cat 5	2.85	0.18	0.91	1.37	-	0.24	-	0.02	0.13
Flood Any	1.21	0.08	0.10	0.00	0.00	-	1.02	0.01	0.00
Storm Surge Any	4.99	0.72	0.66	0.00	0.23	-	3.29	0.09	0.00
Total	244	21	105	104	0	7	4	0	3

Notes:

Based on projects deployed over the 10-year study period
 The SAIDI reduction value in this tab is based on a customer count from 2020 (1 874 269; from "psc_feeder_customer_type_report_01082020.xlsx")
 All values based on the Average Storm Frequency weather scenario

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Outage Restoration Cost

Category	Total	D1 Feeder Hardening	D2 Lateral Hardening	D3 Self-Optimizing Grid (SOG)	D4 Underground Flood Mitigation	T1 Structure Hardening	T2 Substation Flood Mitigation	T3 Loop Radially Fed Substations	T4 Substation Hardening
High Wind Blue Sky	1,542,296	356,102	1,159,762	-	-	17,347	-	-	9,085
High Wind Tropical Storm	22,148,142	1,571,931	9,954,366	-	-	10,621,844	-	-	-
High Wind Cat 1	9,915,088	951,727	5,843,546	-	-	3,119,775	-	-	40
High Wind Cat 2	3,901,861	407,550	2,514,377	-	-	979,854	-	-	80
High Wind Cat 3	3,074,404	322,433	2,061,178	-	-	690,414	-	-	379
High Wind Cat 4	1,498,369	136,199	1,013,560	-	-	347,259	-	-	1,351
High Wind Cat 5	431,029	26,662	326,189	-	-	67,291	-	-	10,887
Flood Any	111,236	0	62,418	-	8,031	-	40,787	-	-
Storm Surge Any	1,607,127	(0)	452,193	-	896,594	-	258,340	-	-

Notes

Based on projects deployed over the 10-year study period

Values represent average outage restoration costs per year (2020 dollars), includes both capital and O&M

All values based on the Average Storm Frequency weather scenario

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Program	Total 10-Year Sum of Program Costs			Annual CMI Reduction - After 10 Year Period			Annual Outage Restoration Cost Benefits - After 10 Year Period		
	Normal	Above Avg	Increased	Normal	Above Avg	Increased	Normal	Above Avg	Increased
D1: Feeder Hardening	\$ 1,590,844,266	\$ 1,590,844,266	\$ 1,590,844,266	38,632,673	42,495,940	48,290,841	\$ 3,416,502	\$ 3,758,152	\$ 4,270,628
D2: Lateral Hardening	\$ 2,284,616,132	\$ 2,284,616,132	\$ 2,284,616,132	196,007,311	215,608,042	245,009,139	\$ 22,227,827	\$ 24,450,610	\$ 27,784,784
D3: Self-Optimizing Grid (SOG)	\$ 423,300,000	\$ 423,300,000	\$ 423,300,000	194,821,764	214,303,940	243,527,205	\$ -	\$ -	\$ -
D4: Underground Flood Mitigation	\$ 10,500,000	\$ 10,500,000	\$ 10,500,000	440,158	484,173	550,197	\$ 904,625	\$ 995,087	\$ 1,130,781
T1: Structure Hardening	\$ 1,327,892,660	\$ 1,327,892,660	\$ 1,327,892,660	12,828,912	14,111,803	16,036,140	\$ 15,826,437	\$ 17,409,081	\$ 19,783,046
T2: Substation Flood Mitigation	\$ 26,600,000	\$ 26,600,000	\$ 26,600,000	8,067,696	8,874,465	10,084,619	\$ 299,127	\$ 329,040	\$ 373,909
T3: Loop Radially Fed Substations	\$ 51,500,000	\$ 51,500,000	\$ 51,500,000	395,326	434,858	494,157	\$ -	\$ -	\$ -
T4: Substation Hardening	\$ 98,500,000	\$ 98,500,000	\$ 98,500,000	6,266,110	6,892,721	7,832,637	\$ 12,737	\$ 14,010	\$ 15,921
VM1: Veg Management - Distribution*	\$ 407,050,167	\$ 407,050,167	\$ 407,050,167	-	-	-	-	-	-
VM2: Veg Management - Transmission*	\$ 169,016,686	\$ 169,016,686	\$ 169,016,686	-	-	-	-	-	-

Costs include capital and O&M *Includes reduced CMI from storm conditions only* *Includes reduced restoration costs from storm conditions only*

Notes

- *Vegetation Management programs provide no incremental benefit to the current plan
- Based on projects deployed over the 10-year study period
- Costs include capital and O&M
- Reduced CMI includes impacts during storm conditions only (excludes blue sky)
- Outage restoration cost benefits include impacts during storm conditions only (excludes blue sky)

Program	(a) CMI Benefit	(b) Restoration Cost Benefit	(c) Life-cycle Gross Benefit	(d) Life-cycle Net Benefit	(e2) Life-cycle B/C w/o ICE	Life-cycle Costs	Life-cycle Benefits w/o ICE	
D1 Feeder Hardening	4,016,326,192 \$	3,772,604 \$	4,242,138,029 \$	2,717,750,105 \$	2.78	0.15 \$	1,524,387,923 \$	225,811,837
D2 Lateral Hardening	11,332,116,439 \$	23,387,590 \$	12,491,968,228 \$	10,676,793,981 \$	6.88	0.64 \$	1,815,174,247 \$	1,159,851,789
D3 Self-Optimizing Grid (SOG)	14,818,051,532 \$	- \$	14,818,051,532 \$	14,562,423,191 \$	57.97	- \$	255,628,341 \$	-
D4 Underground Flood Mitigation	29,221,879 \$	904,625 \$	45,177,747 \$	34,372,398 \$	4.18	1.48 \$	10,805,349 \$	15,955,869
T1 Structure Hardening	1,462,441,611 \$	15,843,784 \$	2,266,242,443 \$	935,655,773 \$	1.70	0.60 \$	1,330,586,670 \$	803,800,832
T2 Substation Flood Mitigation	755,657,764 \$	299,127 \$	762,511,417 \$	732,871,417 \$	25.73	0.23 \$	29,640,000 \$	6,853,653
T3 Loop Radially Fed Substations	166,759,807 \$	- \$	167,430,977 \$	109,416,977 \$	2.89	0.01 \$	58,014,000 \$	671,170
T4 Substation Hardening	1,067,738,596 \$	21,822 \$	1,074,843,735 \$	970,450,935 \$	10.30	0.07 \$	104,392,800 \$	7,105,139

Notes

Based on projects deployed over the 10-year study period

All values based on the Average Storm Frequency weather scenario

All values are present values (2020 dollars) over the assumed useful lifetime (30 years for distribution, 40 years for transmission)

(b) restoration cost benefits include both MED and non-MED

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ROG 8-255. Please provide the benefit/cost ratio for each selected SPP project with and without monetized CMI (ICE Calculator-based outage reduction values).

Response:

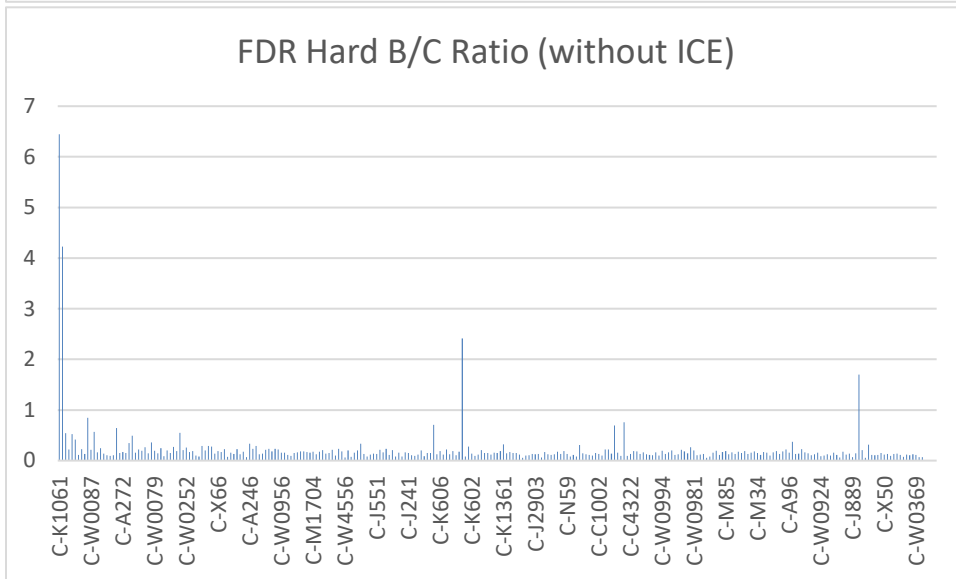
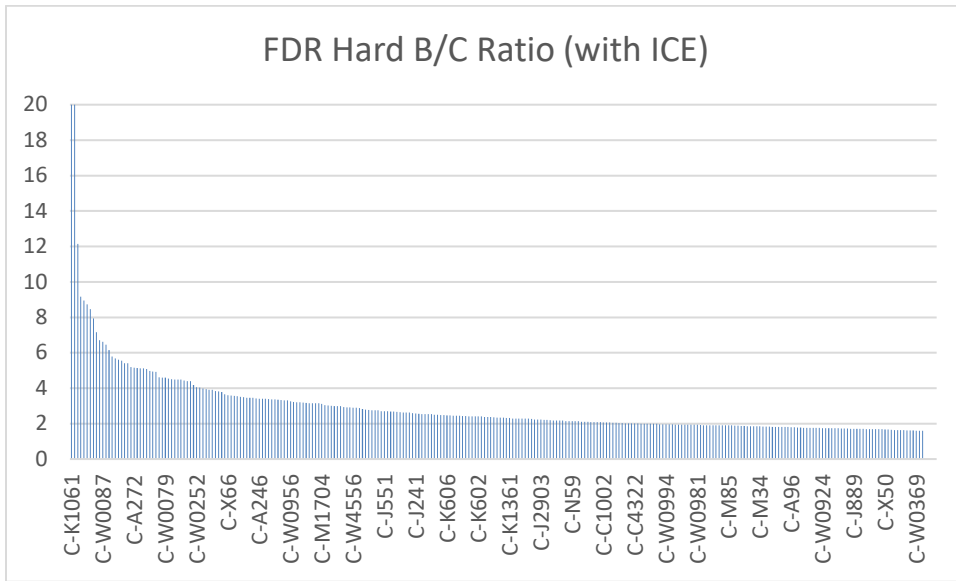
Subject to and without waiving the objections filed on May 11, 2020, the attached charts show the benefit/cost ratio for each of the SPP project with and without monetized CMI reduction. Prioritization is based on all benefit streams. Further prioritization adjustment is expected based on subject matter expertise, resource availability, or other regional impacts.

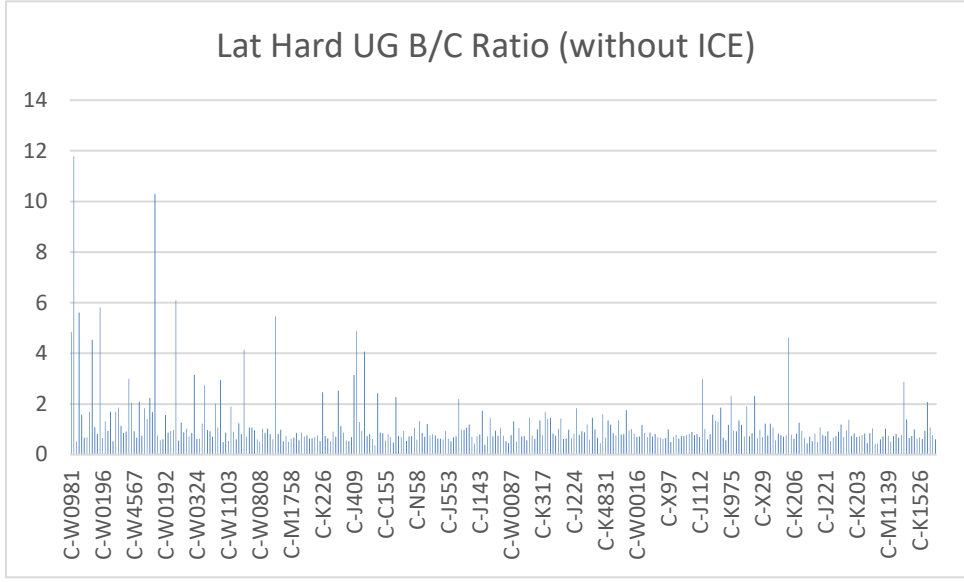
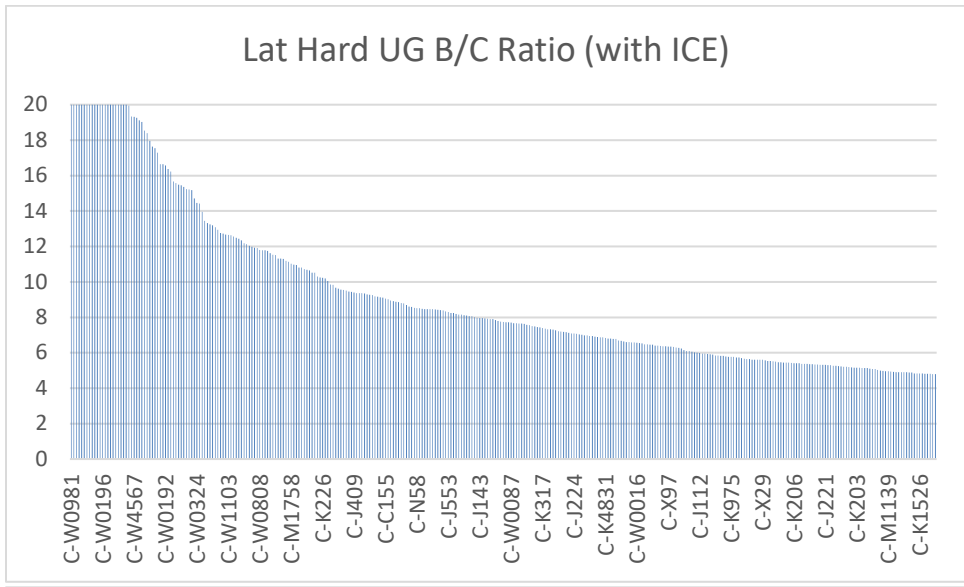
The benefit from completion of the SOG program is a reduction of customers affected by long duration outages and does not eliminate an outage, therefore there is no benefit calculated without customer benefits. Circuits without CMI reduction potential have low to zero BC ratios or have partial or full SOG implementation in place since we are a few years into the program.

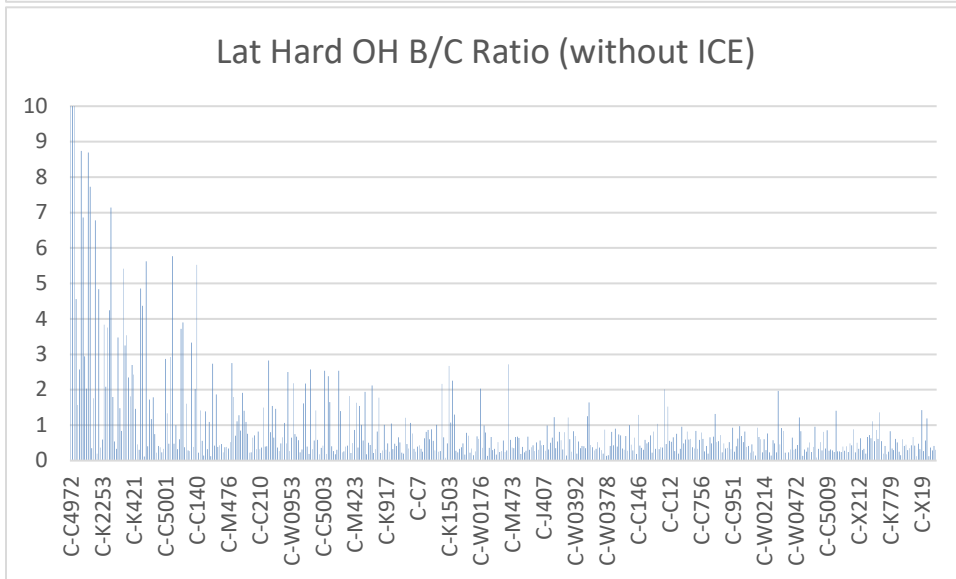
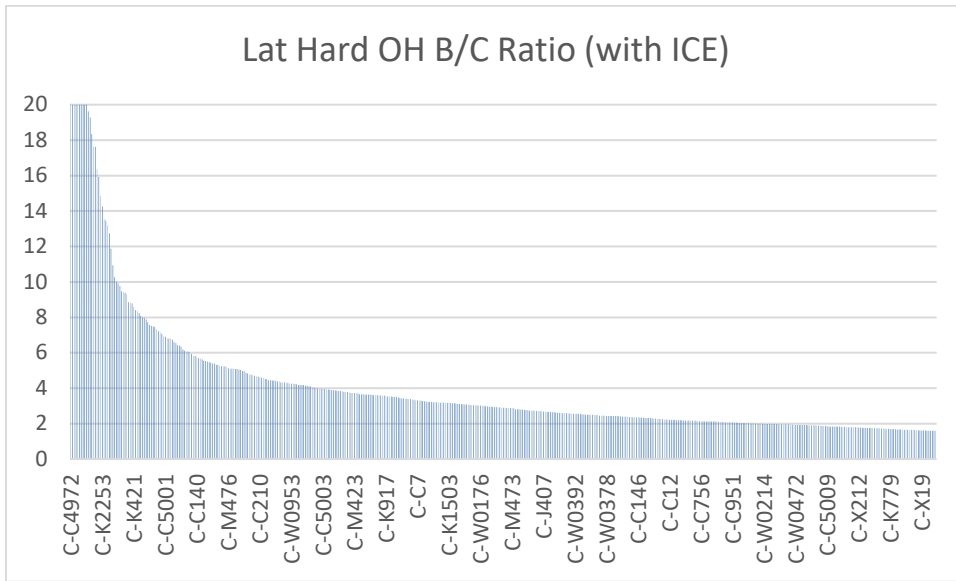
The benefit from completion of the Loop Radially Fed Substations program is a reduction of customers affected by long duration outages and does not eliminate an outage, alternately provides a secondary source to switch to much like SOG.

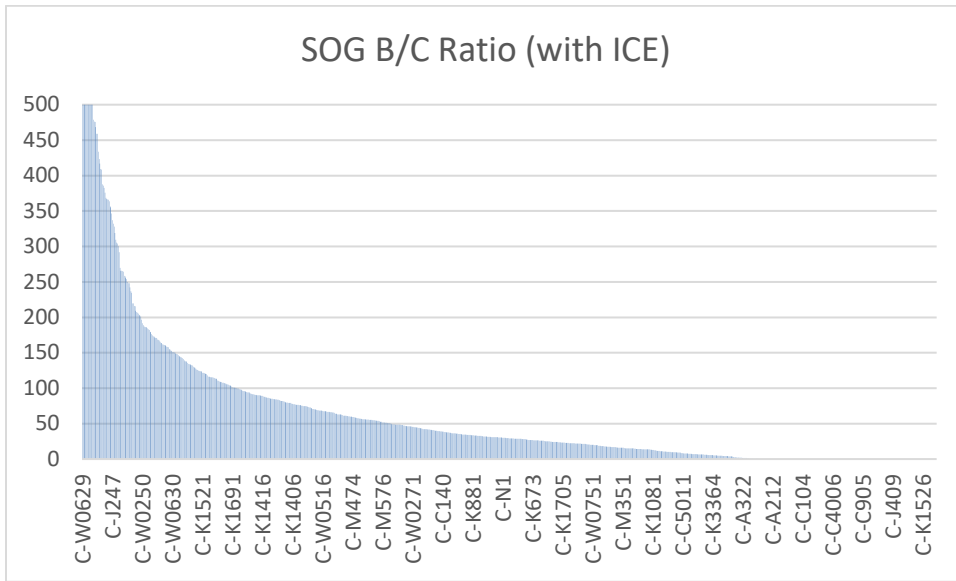
Note: Not all project labels fit within the x-axis due to the volume of projects, please see attached documents bearing bates numbers 20200069-DEF-003340 through 20200069-DEF-003401, for full list.

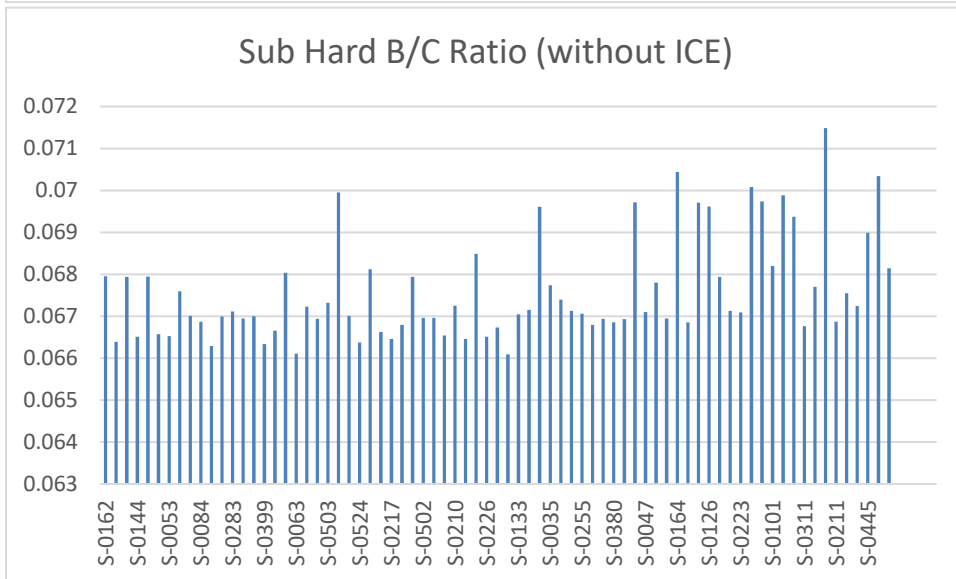
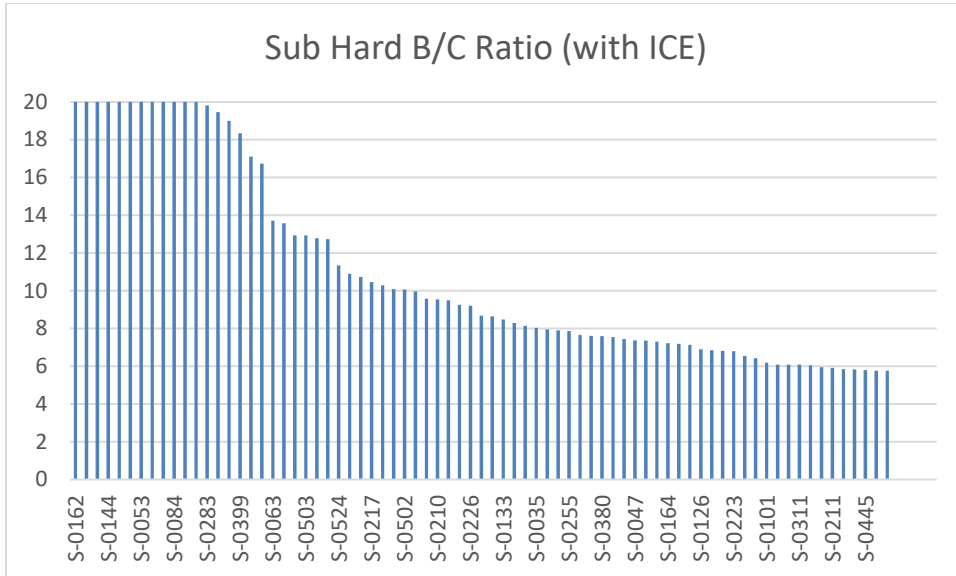
The program CBA charts below have been updated to reflect the modeling change and show the effects on the CBA.











Total 10 Year BCA Streams by Program

Filing Program (Normal)	Benefit										Cost			
	Customer Outage Benefits from Failures (Normal)	Customer Outage Benefits from Other (Normal)	Reduced Restoration Capital Costs (Normal)	Reduced Restoration O&M Costs (Normal)	Avoided VM Capital Costs (Normal)	Avoided VM O&M Costs (Normal)	Equipment Life Extens on (Normal)	Deferred Replacement Credit (Normal)	Program Deployment Upfront Capital (Normal)	Program Deployment Upfront O&M (Normal)	Program Deployment Ongoing Capital (Normal)	Program Deployment Ongoing O&M (Normal)	Program Deployment Removal Cost (Normal)	
D1 Feeder Handling	\$ 4,016,326,192	\$ -	\$ 59,895,184	\$ 1,091,912	\$ -	\$ -	\$ -	\$ 164,824,741	\$ 1,209,831,686	\$ 48,393,263	\$ -	\$ -	\$ 266,162,974	
D2 Late Arrival Handling	\$ 8,870,116,271	\$ 2,462,000,168	\$ 372,774,253	\$ 5,304,407	\$ 1,083,020	\$ 27,368,971	\$ -	\$ 753,321,138	\$ 1,647,352,613	\$ 19,242,990	\$ -	\$ -	\$ 148,578,644	
D3 Self-Clearing of SDOG	\$ -	\$ 14,818,951,530	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 232,620,871	\$ -	\$ -	\$ -	\$ 17,884,888	
D4 Underground Flooding Mitigation	\$ 29,221,879	\$ -	\$ 14,447,600	\$ 176,367	\$ -	\$ -	\$ -	\$ 1,331,902	\$ 10,176,126	\$ -	\$ -	\$ -	\$ 629,223	
T1 Structure Handing	\$ 1,179,653,188	\$ 282,788,423	\$ 294,717,463	\$ 5,013,649	\$ -	\$ -	\$ 106,112,789	\$ 397,956,931	\$ 1,131,253,341	\$ 47,365,624	\$ -	\$ -	\$ 151,967,706	
T2 Substation Flooding Mitigation	\$ 755,697,764	\$ -	\$ 5,389,490	\$ -	\$ -	\$ -	\$ -	\$ 1,454,202	\$ 24,700,000	\$ -	\$ -	\$ -	\$ 4,940,000	
T3 Loop Radially Fed Substations	\$ -	\$ 166,759,807	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 671,170	\$ 54,924,000	\$ -	\$ -	\$ -	\$ 3,090,000	
T4 Substation Handing	\$ 195,206,911	\$ 872,531,685	\$ 393,899	\$ -	\$ -	\$ -	\$ -	\$ 6,711,240	\$ 86,994,000	\$ -	\$ -	\$ -	\$ 17,898,800	

BCA Stream Description

- Customer Outage Benefits from Failures (Normal)** Benefit stream that accrues due to reduced outage duration and frequency from fewer equipment failures during storm conditions. This reduces CML and is valued at the customer cost of interruption.
- Customer Outage Benefits from Other (Normal)** Benefit stream that accrues due to program benefits other than reduced failures, such as connectivity. This reduces CML and is valued at the customer cost of interruption.
- Reduced Restoration Capital Costs (Normal)** Benefit stream that accrues due to reduced equipment failures. This reduces equipment replacement capital costs in storm and blue sky conditions.
- Reduced Restoration O&M Costs (Normal)** Benefit stream that accrues due to reduced equipment failures. This reduces equipment replacement O&M costs in storm and blue sky conditions.
- Avoided VM Capital Costs (Normal)** Benefit stream that accrues due to reduction in VM related equipment. This reduces VM capital costs of damage and hazard removal.
- Avoided VM O&M Costs (Normal)** Benefit stream that accrues due to reduction in VM related equipment. This reduces VM O&M costs of remaining.
- Equipment Life Extens on (Normal)** Benefit stream that accrues due to the addition of equipment that increases asset lifetimes, reducing the present value of capital expenditures.
- Deferred Replacement Credit (Normal)** Benefit stream that accrues due to replacing existing equipment before end of life with new equipment that needs less maintenance and delays the need for replacement in the future, resulting in a cash flow benefit.
- Program Deployment Upfront Capital (Normal)** Capital cost stream that accrues upfront on installation of the equipment.
- Program Deployment Upfront O&M (Normal)** O&M cost stream that accrues upfront on installation of the equipment.
- Program Deployment Ongoing Capital (Normal)** Capital cost stream that accrues periodically throughout the equipment lifetime.
- Program Deployment Ongoing O&M (Normal)** O&M cost stream that accrues periodically throughout the equipment lifetime.
- Program Deployment Removal Cost (Normal)** Cost stream that accrues at the end of equipment life, accounting for the cost of removal/dismposal from the installation site.

Duke Energy Florida, LLC
Docket no. 20200069-EI
Witness: Oliver
Exhibit No. ____ (JWO-6)
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