

Matthew R. Bernier ASSOCIATE GENERAL COUNSEL

April 28, 2023

VIA ELECTRONIC FILING

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

Re: Cost of Service Load Research Study; Undocketed

Dear Mr. Teitzman:

Pursuant to Rule 25-6.0437(7), F.A.C., please find enclosed for filing Duke Energy Florida, LLC's ("DEF") Cost of Service Load Research Study Results for the twelve-month period ending December 31, 2022.

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

MRB/mw Enclosures

DUKE ENERGY FLORIDA, LLC ("DEF") LOAD RESEARCH STUDY RESULTS JANUARY 2022 THROUGH DECEBMER 2022 SUBMITTED APRIL 28, 2023

FPSC RULE 25-6.0437(7), F.A.C.

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Study Background and Objectives

The purpose of this study is to meet the requirements of the Cost of Service Load Research Rule, Docket No. 820491-EU, Order No. 13026, adopted as Rule 25-6.0437 ("the Rule") on February 23, 1984, by the Florida Public Service Commission ("FPSC or "Commission") and as amended on January 6, 2004.

Section 3 of the Rule requires that all rate classes that account for more than one percent of an investor-owned utility's annual retail sales be sampled and submitted to the Commission. Section 7 of the Rule directs that all investor-owned electric utilities submit this information to the Commission every three years. Per the direction of Section 3, the studies must be designed to provide estimates of the average of the 12 monthly coincident peaks for each rate class within plus or minus 10% relative precision at the 90% confidence level. The samples shall also be designed to provide estimates of the summer and winter peak demands for each rate class within plus or minus 10% relative precision at the 90% confidence level, except for the General Service Non-Demand rate class which shall be designed to provide estimates of the summer and winter peak demands within plus or minus 15% relative precision at the 90% confidence interval.

Study Period

DEF completed deployment of AMI meters for 1.9 million customers in the spring of 2021. Therefore, in lieu of statistically designed samples, all available interval data for the population was used for the Load Research Study. for the period of January through December 2022. The original sample plan was submitted to FPSC Staff on July 25, 2022, with a study period of April 2023 to March 2024, but a revised study period of January 2022 through December 2022 was requested on September 22, 2022 and approved by Commission administrative authority Staff via letter on November 18, 2022.

Load Research Study Results

Interval data from the population was compiled to provide averages of the 12 monthly coincident peaks and the summer and winter peak demands for each rate class. The data retrieval rate was over 99% for every hour and group, except Interruptible (IS). The Interruptible class had a few hours in the year with a 98% retrieval rate. When interval data was unavailable, it was estimated, therefore, the final reporting represents 100% of the population for each rate class. Statistics are provided for the following rate classes, which account for more than one percent of DEF's annual retail sales:

Rate Class	Population
Residential (RS)	1,684,998
General Service Non-Demand (GS)	148,999
General Service Demand (GSD)	48,543
Interruptible (IS)	163

The winter peak hour occurred on Sunday, January 30, 2022, at hour ending 8:00 AM, and the summer peak occurred on Tuesday, August 1, 2022, at hour ending 5:00 PM.

Tables 4 – 7 attached hereto contain the class demands for the system peak hour, the class coincident peak hour, and the non-coincident peaks for the Residential, General Service Non-Demand, General Service Demand, and Interruptible Service rate classes for each month and the averages of the twelve-monthly system peaks for all rate classes.

RESIDENTIAL SERVICE (RS) CLASS

		Class (Coincident Pe	ak	Coincident with System Peak		Peak	Non-Coincident Peak
Month	KWH Usage	(MW)	Date	Time	(MW)	Date	Time	(MW)
Jan-22	1,658,799,960	5649.2	1/30/2022	8:00	5,649.2	1/30/2022	8:00	12,409.8
Feb-22	1,354,454,988	3992.4	2/10/2022	8:00	3,962.1	2/1/2022	8:00	11,194.7
Mar-22	1,445,855,806	3642.3	3/19/2022	18:00	3,321.5	3/8/2022	17:00	10,707.6
Apr-22	1,547,628,014	4220.6	4/17/2022	17:00	4,015.6	4/6/2022	18:00	10,514.4
May-22	2,008,838,367	4839.1	5/22/2022	18:00	4,658.5	5/5/2022	18:00	10,737.0
Jun-22	2,228,633,558	5269.3	6/15/2022	18:00	5,157.9	6/15/2022	17:00	10,833.9
Jul-22	2,399,695,128	5312.8	7/31/2022	18:00	5,098.2	7/29/2022	17:00	11,084.2
Aug-22	2,334,116,907	5334.6	8/1/2022	19:00	5,103.4	8/1/2022	17:00	10,824.8
Sep-22	1,963,715,143	5127.7	9/5/2022	17:00	4,903.2	9/6/2022	17:00	10,586.1
Oct-22	1,602,280,831	4122.3	10/16/2022	18:00	3,806.8	10/11/2022	17:00	10,327.1
Nov-22	1,446,054,462	4005.4	11/1/2022	18:00	3,876.1	11/1/2022	17:00	10,467.9
Dec-22	1,605,602,084	5821.3	12/25/2022	9:00	5,821.3	12/25/2022	9:00	12,765.0

Twelve Coincident Peak Statistics: 4614.5

Table 4 - RS Class Results

GENERAL SERVICE (GS) CLASS

		Class	Class Coincident Peak		Peak Coincident with System Pea		Peak	Non-Coincident Peak
Month	KWH Usage	(MW) Date Time		Time	(MW)	Date	Time	(MW)
Jan-22	183,310,288	444.5	1/31/2022	9:00	342.4	1/30/2022	8:00	1,070.5
Feb-22	170,820,552	435.9	2/24/2022	15:00	362.1	2/1/2022	8:00	1,021.4
Mar-22	195,545,153	470.7	3/8/2022	15:00	417.3	3/8/2022	17:00	1,007.2
Apr-22	199,041,788	500.6	4/6/2022	15:00	419.8	4/6/2022	18:00	1,004.9
May-22	234,960,605	557.9	5/18/2022	15:00	454.6	5/5/2022	18:00	1,045.6
Jun-22	252,449,723	610.2	6/16/2022	15:00	572.1	6/15/2022	17:00	1,071.4
Jul-22	260,509,403	587.8	7/6/2022	15:00	528.0	7/29/2022	17:00	1,059.5
Aug-22	270,298,803	608.5	8/24/2022	15:00	554.6	8/1/2022	17:00	1,087.1
Sep-22	230,623,159	607.5	9/6/2022	15:00	561.6	9/6/2022	17:00	1,076.4
Oct-22	209,804,862	509.1	10/11/2022	15:00	460.0	10/11/2022	17:00	1,010.6
Nov-22	187,246,284	513.6	11/2/2022	15:00	464.8	11/1/2022	17:00	978.4
Dec-22	185,542,859	428.0	12/8/2022	15:00	289.1	12/25/2022	9:00	1,069.6
	ŀ	Twelve Coincident Peak Statistics:			452.2			

Table 5 - GS Class Results

GENERAL SERVICE DEMAND (GSD) CLASS

		Class Coincident Peak		ak	Coincident with System Peak			Non-Coincident Peak	
Month	KWH Usage	(MW)	Date	Time	(MW)	Date	Time	(MW)	
Jan-22	956,215,185	1,740.3	1/10/2022	14:00	1,377.1	1/30/2022	8:00	2,555.1	
Feb-22	898,372,491	1,910.6	2/24/2022	15:00	1,519.4	2/1/2022	8:00	2,536.8	
Mar-22	1,047,173,661	2,031.4	3/8/2022	15:00	1,940.6	3/8/2022	17:00	2,589.0	
Apr-22	1,056,127,684	2,108.7	4/6/2022	15:00	2,006.1	4/6/2022	18:00	2,646.5	
May-22	1,200,396,766	2,235.6	5/18/2022	15:00	2,086.7	5/5/2022	18:00	2,766.9	
Jun-22	1,254,075,733	2,401.7	6/16/2022	15:00	2,323.6	6/15/2022	17:00	2,893.2	
Jul-22	1,312,453,967	2,338.1	7/13/2022	15:00	2,276.3	7/29/2022	17:00	2,882.7	
Aug-22	1,330,761,183	2,361.5	8/31/2022	15:00	2,301.5	8/1/2022	17:00	2,924.6	
Sep-22	1,180,603,041	2,376.0	9/6/2022	14:00	2,305.9	9/6/2022	17:00	2,876.4	
Oct-22	1,101,420,472	2,154.2	10/11/2022	15:00	2,078.4	10/11/2022	17:00	2,654.6	
Nov-22	1,017,380,335	2,127.3	11/2/2022	15:00	2,047.4	11/1/2022	17:00	2,629.3	
Dec-22	977,250,985	1,875.1	12/8/2022	15:00	1,243.0	12/25/2022	9:00	2,597.6	
		Twelve Coinci	dent Peak Stat	istics:	1,958.8				

Table 6 - GSD Class Results

INTERRUPTIBLE (IS) CLASS

		Class Coincident Peak			Coinciden	t with System	Peak	Non-Coincident Peak	
Month	KWH Usage	(MW)	Date	Time	(MW)	Date	Time	(MW)	
Jan-22	233,829,876	421.9	1/4/2022	15:00	281.9	1/30/2022	8:00	531.9	
Feb-22	219,531,590	406.6	2/4/2022	17:00	323.3	2/1/2022	8:00	505.4	
Mar-22	239,284,908	440.5	3/23/2022	22:00	366.2	3/8/2022	17:00	525.6	
Apr-22	245,936,111	412.6	4/27/2022	15:00	278.6	4/6/2022	18:00	540.7	
May-22	244,929,979	410.0	5/27/2022	2:00	326.9	5/5/2022	18:00	529.9	
Jun-22	244,660,422	422.4	6/13/2022	7:00	335.6	6/15/2022	17:00	532.9	
Jul-22	248,866,517	422.0	7/1/2022	17:00	357.0	7/29/2022	17:00	554.7	
Aug-22	266,497,106	439.5	8/22/2022	6:00	362.4	8/1/2022	17:00	567.2	
Sep-22	232,962,557	427.4	9/19/2022	22:00	340.5	9/6/2022	17:00	547.2	
Oct-22	224,381,236	388.3	10/15/2022	7:00	330.5	10/11/2022	17:00	508.1	
Nov-22	223,873,700	400.8	11/8/2022	13:00	301.8	11/1/2022	17:00	517.3	
Dec-22	232,039,054	397.4	12/28/2022	7:00	261.5	12/25/2022	9:00	527.3	
		Twelve Coincid	ent Peak Statisti	cs:	322.2				

Table 7 - IS Class Results

APPENDIX

Development of Load Factors

value and 90% confi COMPANY: Duke Energy Florida system peaks (coinc maximum demand (I meters provide actua values. Also, provide			e and 90% confidence interval by em peaks (coincident), (2) monthly mum demand (billing demand for rs provide actual monthly values	nat is not 100% interval metered, provide the estimonth from the latest load research for (1) contribution of the aforementioned demands and identify such as well as the 12 CP Load Factor, Class NCP Linds.	oution to monthly nly customer vith interval h as actual	Type of Data Shown: _X Historical Test Year Ended 12/31/22Projected Test Year Ended//Prior Year Ended//		
Rate Schedule	Month and Year	Estimated Coincident Peak	90% Confidence Interval	Estimated Noncoincident Peak	90% Confidence Interval	Estimated Customer Maximum Demand	90% Confidence Interval	
Residential Servi	ce							
	Jan 2022	5,649.2	N/A	5,649.2	N/A	12409.8	N/A	
	Feb 2022	3,962.1	N/A	3,992.4	N/A	11194.7	N/A	
	Mar 2022	3,321.5	N/A	3,642.3	N/A	10707.6	N/A	
	Apr 2022	4,015.6	N/A	4,220.6	N/A	10514.4	N/A	
	May 2022	4,658.5	N/A	4,839.1	N/A	10737.0	N/A	
	Jun 2022	5,157.9	N/A	5,269.3	N/A	10833.9	N/A	
	Jul 2022	5,098.2	N/A	5,312.8	N/A	11084.2	N/A	
	Aug 2022	5,103.4	N/A	5,334.6	N/A	10824.8	N/A	
	Sep 2022	4,903.2	N/A	5,127.7	N/A	10586.1	N/A	
	Oct 2022	3,806.8	N/A	4,122.3	N/A	10327.1	N/A	
	Nov 2022	3,876.1	N/A	4,005.4	N/A	10467.9	N/A	
	Dec 2022	5,821.3	N/A	5,821.3	N/A	12765.0	N/A	
Annual Peak:	5,821 MW			Annual KWH:	21,595,675,247			
12 Month Coincid	12 Month Coincident Peak Average: 4,614 MW			12 CP Load Factor:	0.534			
90% Confidence Interval: NA			Class (NCP) Load Factor:	0.423				
Sum of individual	l customer annual max den	nand 14,356 M	W	Customer (Billing or Maximum I	0.172			

COMPANY: Duke Energy Florida system maxim meters values			e and 90% confidence interval by em peaks (coincident), (2) monthly mum demand (billing demand for ers provide actual monthly values t	nat is not 100% interval metered, provide the estir month from the latest load research for (1) contrib or noncoincident peak (class peaks) and (3) month demand classes). For classes, 100% metered w for the aforementioned demands and identify sucl l as well as the 12 CP Load Factor, Class NCP Lo h class.	oution to monthly ly customer ith interval h as actual	Type of Data Shown: _X Historical Test Year Ended 12/31/22 Projected Test Year Ended//Prior Year Ended//			
Rate Schedule	Month and Year	Estimated Coincident Peak	90% Confidence Interval	Estimated Noncoincident Peak	90% Confidence Interval	Estimated Customer Maximum Demand	90% Confidence Interval		
General Service	Non-Demand								
	Jan 2022	342.4	N/A	444.5	N/A	1070.5	N/A		
	Feb 2022	362.1	N/A	435.9	N/A	1021.4	N/A		
	Mar 2022	417.3	N/A	470.7	N/A	1007.2	N/A		
	Apr 2022	419.8	N/A	500.6	N/A	1004.9	N/A		
	May 2022	454.6	N/A	557.9	N/A	1045.6	N/A		
	Jun 2022	572.1	N/A	610.2	N/A	1071.4	N/A		
	Jul 2022	528.0	N/A	587.8	N/A	1059.5	N/A		
	Aug 2022	554.6	N/A	608.5	N/A	1087.1	N/A		
	Sep 2022	561.6	N/A	607.5	N/A	1076.4	N/A		
	Oct 2022	460.0	N/A	509.1	N/A	1010.6	N/A		
	Nov 2022	464.8	N/A	513.6	N/A	978.4	N/A		
	Dec 2022	289.1	N/A	428.0	N/A	1069.6	N/A		
Annual Peak:	610 MW			Annual KWH:	2,580,153,478				
12 Month Coincid	lent Peak Average:	452 MW		12 CP Load Factor:	0.651				
90% Confidence	Interval: NA			Class (NCP) Load Factor:	0.483				
Sum of individual	Sum of individual customer annual max demand 1395 MW				Customer (Billing or Maximum Demand) Load Factor: 0.211				

value and 90% confidence interval by r COMPANY: Duke Energy Florida system peaks (coincident), (2) monthly maximum demand (billing demand for o meters provide actual monthly values for			at is not 100% interval metered, provide the esti- month from the latest load research for (1) contri- r noncoincident peak (class peaks) and (3) month demand classes). For classes, 100% metered w for the aforementioned demands and identify suc- as well as the 12 CP Load Factor, Class NCP Li h class.	oution to monthly nly customer vith interval h as actual	Type of Data Shown: _X Historical Test Year Ended 12/31/22 Projected Test Year Ended// Prior Year Ended//			
Rate Schedule	Month and Year	Estimated Coincident Peak	90% Confidence Interval	Estimated Noncoincident Peak	90% Confidence Interval	Estimated Customer Maximum Demand	90% Confidence Interval	
General Service	 Demand							
	Jan 2022	1,377.1	N/A	1,740.3	N/A	2555.1	N/A	
	Feb 2022	1,519.4	N/A	1,910.6	N/A	2536.8	N/A	
	Mar 2022	1,940.6	N/A	2,031.4	N/A	2589.0	N/A	
	Apr 2022	2,006.1	N/A	2,108.7	N/A	2646.5	N/A	
	May 2022	2,086.7	N/A	2,235.6	N/A	2766.9	N/A	
	Jun 2022	2,323.6	N/A	2,401.7	N/A	2893.2	N/A	
	Jul 2022	2,276.3	N/A	2,338.1	N/A	2882.7	N/A	
	Aug 2022	2,301.5	N/A	2,361.5	N/A	2924.6	N/A	
	Sep 2022	2,305.9	N/A	2,376.0	N/A	2876.4	N/A	
	Oct 2022	2,078.4	N/A	2,154.2	N/A	2654.6	N/A	
	Nov 2022	2,047.4	N/A	2,127.3	N/A	2629.3	N/A	
	Dec 2022	1,243.0	N/A	1,875.1	N/A	2597.6	N/A	
Annual Peak:	2,402 MW			Annual KWH:	13,332,231,502			
12 Month Coincid	12 Month Coincident Peak Average: 1,959 MW			12 CP Load Factor:	0.777			
90% Confidence Interval: NA			Class (NCP) Load Factor:	0.634				
Sum of individual customer annual max demand 3,188 MW				Customer (Billing or Maximum Demand) Load Factor: 0.477				

EXPLANATION: For each rate class that is not 100% interval metered, provide the estimated historic

Type of Data Shown:

COMPANY: Duke Energy Florida		syste maxi mete value	em peaks (coincident), (2) monthly mum demand (billing demand for ers provide actual monthly values t	month from the latest load research for (1) contribution noncoincident peak (class peaks) and (3) month demand classes). For classes, 100% metered wor the aforementioned demands and identify such as well as the 12 CP Load Factor, Class NCP Load Factor.	_X Historical Test Year Ended 12/31/22 Projected Test Year Ended// Prior Year Ended//		
Rate Schedule	Month and Year	Actual Coincident Peak	90% Confidence Interval	Actual Noncoincident Peak	90% Confidence Interval	Actual Customer Maximum Demand	90% Confidence Interval
Curtailable Service	 ce						
	Jan 2022	6.7	N/A	7.4	N/A	7.6	N/A
	Feb 2022	6.7	N/A	7.6	N/A	7.7	N/A
	Mar 2022	6.7	N/A	7.6	N/A	7.7	N/A
	Apr 2022	6.8	N/A	7.5	N/A	7.6	N/A
	May 2022	7.0	N/A	9.6	N/A	9.6	N/A
	Jun 2022	7.9	N/A	8.9	N/A	9.0	N/A
	Jul 2022	8.0	N/A	9.1	N/A	9.2	N/A
	Aug 2022	8.3	N/A	8.8	N/A	8.9	N/A
	Sep 2022	8.2	N/A	8.7	N/A	9.2	N/A
	Oct 2022	7.5	N/A	8.5	N/A	8.8	N/A
	Nov 2022	8.0	N/A	8.9	N/A	9.1	N/A
	Dec 2022	7.7	N/A	8.5	N/A	8.8	N/A
Annual Peak:	9.6 MW			Annual KWH:	65,522,710		
12 Month Coincid	12 Month Coincident Peak Average: 7.5 MW			12 CP Load Factor:	1.002		
90% Confidence	Interval: N/A	A		Class (NCP) Load Factor:	0.778		
Sum of individual	customer annual max der	nand 9.6 MW	1	Customer (Billing or Maximum D	emand) Load Factor:	0.778	

Supporting Schedules:

COMPANY: Duke Energy Florida system maxim meter values			and 90% confidence interval by m peaks (coincident), (2) monthly mum demand (billing demand for rs provide actual monthly values t	nat is not 100% interval metered, provide the estir month from the latest load research for (1) contrib y noncoincident peak (class peaks) and (3) month demand classes). For classes, 100% metered w for the aforementioned demands and identify such as well as the 12 CP Load Factor, Class NCP Lo h class.	oution to monthly ly customer ith interval n as actual	Type of Data Shown: _X Historical Test Year Ended 12/31/22 Projected Test Year Ended//Prior Year Ended//		
Rate Schedule	Month and Year	Actual Coincident Peak	90% Confidence Interval	Actual Noncoincident Peak	90% Confidence Interval	Actual Customer Maximum Demand	90% Confidence Interval	
Interruptible Serv	rice							
	Jan 2022	281.9	N/A	421.9	N/A	531.9	N/A	
	Feb 2022	323.3	N/A	406.6	N/A	505.4	N/A	
	Mar 2022	366.2	N/A	440.5	N/A	525.6	N/A	
	Apr 2022	278.6	N/A	412.6	N/A	540.7	N/A	
	May 2022	326.9	N/A	410.0	N/A	529.9	N/A	
	Jun 2022	335.6	N/A	422.4	N/A	532.9	N/A	
	Jul 2022	357.0	N/A	422.0	N/A	554.7	N/A	
	Aug 2022	362.4	N/A	439.5	N/A	567.2	N/A	
	Sep 2022	340.5	N/A	427.4	N/A	547.2	N/A	
	Oct 2022	330.5	N/A	388.3	N/A	508.1	N/A	
	Nov 2022	301.8	N/A	400.8	N/A	517.3	N/A	
	Dec 2022	261.5	N/A	397.4	N/A	527.3	N/A	
Annual Peak:	441 MW			Annual KWH:	2,856,793,056			
12 Month Coincident Peak Average: 322 MW			12 CP Load Factor:	1.012				
90% Confidence	Interval: N/A	A		Class (NCP) Load Factor:	0.740			
Sum of individual	l customer annual max den	nand 614.9 MW		Customer (Billing or Maximum Demand) Load Factor: 0.530				

COMPANY: Duke Energy Florida sys ma me valu			e and 90% confidence interval by em peaks (coincident), (2) monthly mum demand (billing demand for rrs provide actual monthly values t	nat is not 100% interval metered, provide the estimenonth from the latest load research for (1) contribution on coincident peak (class peaks) and (3) month demand classes). For classes, 100% metered wfor the aforementioned demands and identify such as well as the 12 CP Load Factor, Class NCP Load Loads.	oution to monthly ly customer ith interval h as actual	Type of Data Shown: _X Historical Test Year Ended 12/31/22 Projected Test Year Ended// Prior Year Ended//		
Rate Schedule	Month and Year	Actual Coincident Peak	90% Confidence Interval	Actual Noncoincident Peak	90% Confidence Interval	Actual Customer Maximum Demand	90% Confidence Interval	
Firm Standby Ser	rvice							
SS-1	Jan 2022	3.5	N/A	12.3	N/A	16.1	N/A	
	Feb 2022	6.5	N/A	10.1	N/A	16.1	N/A	
	Mar 2022	5.1	N/A	12.4	N/A	17.3	N/A	
	Apr 2022	2.3	N/A	7.3	N/A	12.5	N/A	
	May 2022	2.7	N/A	9.3	N/A	20.0	N/A	
	Jun 2022	2.3	N/A	12.6	N/A	29.4	N/A	
	Jul 2022	4.9	N/A	12.2	N/A	21.3	N/A	
	Aug 2022	9.9	N/A	16.8	N/A	20.9	N/A	
	Sep 2022	13.8	N/A	16.0	N/A	27.0	N/A	
	Oct 2022	6.7	N/A	13.7	N/A	19.1	N/A	
	Nov 2022	6.9	N/A	16.0	N/A	17.3	N/A	
	Dec 2022	6.0	N/A	11.1	N/A	14.1	N/A	
Annual Peak:	16.8 MW			Annual KWH:	50,732,848			
12 Month Coincident Peak Average: 5.9 MW			12 CP Load Factor:	0.985				
90% Confidence	Interval: N//	A		Class (NCP) Load Factor:	0.345			
Sum of individual	customer annual max der	mand 34.2 MW	•	Customer (Billing or Maximum D	Demand) Load Factor: (0.169		

FLORIDA PUBLIC SE COMPANY: Duke	ERVICE COMMISSION Energy Florida	value syste maxi mete value	e and 90% confidence interval by em peaks (coincident), (2) monthly mum demand (billing demand for ers provide actual monthly values t	at is not 100% interval metered, provide the esting month from the latest load research for (1) contriber noncoincident peak (class peaks) and (3) metered where the aforementioned demands and identify such as well as the 12 CP Load Factor, Class NCP Load class.	oution to monthly ly customer ith interval n as actual	Type of Data Shown: _X Historical Test Year Ended 12/31/22 Projected Test Year Ended// Prior Year Ended//		
Rate Schedule	Month and Year	Actual Coincident Peak	90% Confidence Interval	Actual Noncoincident Peak	90% Confidence Interval	Actual Customer Maximum Demand	90% Confidence Interval	
Interruptible Stan	dby Service							
SS-2	Jan 2022	3.5	N/A	14.3	N/A	20.3	N/A	
	Feb 2022	10.1	N/A	18.8	N/A	20.9	N/A	
	Mar 2022	8.2	N/A	16.1	N/A	18.2	N/A	
	Apr 2022	10.0	N/A	14.4	N/A	19.0	N/A	
	May 2022	7.0	N/A	19.1	N/A	25.8	N/A	
	Jun 2022	18.0	N/A	16.5	N/A	20.6	N/A	
	Jul 2022	4.6	N/A	17.1	N/A	22.8	N/A	
	Aug 2022	3.5	N/A	24.1	N/A	28.0	N/A	
	Sep 2022	8.2	N/A	24.5	N/A	28.0	N/A	
	Oct 2022	5.5	N/A	13.7	N/A	20.5	N/A	
	Nov 2022	7.3	N/A	25.9	N/A	29.0	N/A	
	Dec 2022	2.2	N/A	21.8	N/A	28.1	N/A	
Annual Peak:	25.9 MW			Annual KWH:	53,896,151			
12 Month Coincident Peak Average: 7.3 MW				12 CP Load Factor:	12 CP Load Factor: 0.838			
90% Confidence Interval: N/A		A		Class (NCP) Load Factor:	0.237			
Sum of individual customer annual max demand 30.7 MW				Customer (Billing or Maximum Demand) Load Factor: 0.201				

EXPLANATION: For each rate class that is not 100% interval metered, provide the estimated historic

Type of Data Shown:

COMPANY: Duke Energy Florida			em peaks (coincident), (2) monthly imum demand (billing demand for ers provide actual monthly values f	month from the latest load research for (1) contribution noncoincident peak (class peaks) and (3) month demand classes). For classes, 100% metered wor the aforementioned demands and identify such as well as the 12 CP Load Factor, Class NCP Load Factor,	ly customer ith interval n as actual	_X Historical Test Year Ended 12/31/22 Projected Test Year Ended// Prior Year Ended//		
Rate Schedule	Month and Year	Actual Coincident Peak	90% Confidence Interval	Actual Noncoincident Peak	90% Confidence Interval	Actual Customer Maximum Demand	90% Confidence Interval	
Curtailable Stand	by Service							
SS-3	Jan 2022	10.3	N/A	19.4	N/A	19.4	N/A	
	Feb 2022	12.4	N/A	21.1	N/A	21.1	N/A	
	Mar 2022	16.8	N/A	23.2	N/A	23.2	N/A	
	Apr 2022	5.2	N/A	20.9	N/A	20.9	N/A	
	May 2022	15.5	N/A	21.5	N/A	21.5	N/A	
	Jun 2022	15.5	N/A	20.7	N/A	20.7	N/A	
	Jul 2022	14.2	N/A N/A	21.5 22.4	N/A N/A	21.5 22.4	N/A N/A	
	Aug 2022	10.4						
	Sep 2022	11.0	N/A	21.7	N/A	21.7	N/A	
	Oct 2022	5.3	N/A	21.5 20.3	N/A	21.5 20.3	N/A N/A	
	Nov 2022	3.4	N/A		N/A			
	Dec 2022	13.0	N/A	22.8	N/A	22.8	N/A	
Annual Peak:	23.2 MW			Annual KWH:	117,160,952			
12 Month Coincident Peak Average: 11.1 MW			12 CP Load Factor:	1.207				
90% Confidence I	nterval: N/A	A		Class (NCP) Load Factor:	0.576			
Sum of individual	customer annual max den	nand 23.2 MV	/	Customer (Billing or Maximum D	emand) Load Factor:	0.576		

Supporting Schedules:

DOCKET NO.:

DUKE ENERGY FLORIDA ANALYSIS OF COINCIDENT LOADING FOR THE LIGHTING CLASS FOR THE TEN YEARS ENDED DECEMBER 31, 2022

RATE SCHEDULE LIGHTING - LS

Percentage of Lighting Load Occurring at Time of Monthly System Peak

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u> I	TEN YR AVG % LIGHT LOAD
JAN FEB	28% 15%	28% 11%	- 2%	21% 7%	26% -	25% -	18% -	7% -	23% 12%	17% 15%	19.30% 6.20%
MAR APR	-	-	-	-	-	-	-	-	-	-	0.00% 0.00%
MAY	-	-	-	-	-	-	-	-	-	-	0.00%
JUN JUL	-	-	-	-	-	-	-	-	-	-	0.00% 0.00%
AUG	- -	-	-	-	-	-	-	-	-	-	0.00%
SEP OCT	-	-	-	-	-	-	-	-	-	-	0.00% 0.00%
NOV	- -	-	-	-	-	-	-	-	-	-	0.00%
DEC	97%	2%	-	-	8%	7%	13%	-	-	-	<u>12.70%</u> 38.20%
									===		
	AVG MONTHLY COINCIDENCE								=	3.2%	
					A	ANNUAL BURNING HOURS LOAD FACTOR: BASED ON AVG. 12 CP BASED ON CLASS ANNUAL MAX DEMAND					4,200
					В						14.969 0.479