



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

July 17, 2023

VIA ELECTRONIC FILING

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

Re: *Petition for Approval of Smart Outdoor Lighting Services Pilot Program by Duke Energy Florida, LLC; Docket No. 20230068-EI*

Dear Mr. Teitzman:

On behalf of Duke Energy Florida, LLC ("DEF"), please find enclosed for electronic filing DEF's Response to Staff's First Data Request regarding the above-referenced docket.

Thank you for your assistance in this matter. Should have any questions, please feel free to contact me at (727) 820-4692.

Sincerely,

/s/ Dianne M. Triplett

Dianne M. Triplett

DMT/vr
Enclosures

cc: Suzanne Brownless, FPSC, sbrownle@psc.state.fl.us
Oakley Ward, FPSC, oward@psc.state.fl.us

**Duke Energy Florida, LLC’s (“DEF”) Response to
Florida Public Service Commission’s (“Staff”) First Data Request
re. Petition for Approval of Smart Outdoor Lighting Services Pilot Program**

Docket No. 20230068-EI

General Program Questions and Program Cost

1. Please describe the type of information Duke is seeking to gain from the pilot program.

Response:

DEF’s main focus of this pilot is to understand customer preferences for customizing their outdoor lighting schedule in order to design a program that meets their expectations while also being cost effective. DEF is also looking to determine the average amount of kWh savings for participants of the program.

2. Please explain why a minimum of 12 months participation is adequate or appropriate for an 18-month pilot.

Response:

The pilot period proposed allows Duke Energy to measure the customer experience during all seasons and conditions such as daylight savings. It also allows for 12 months of kWh impact measurement. The 12 months is shorter than the 18-month pilot period to allow for sufficient time to sign up interested customers, assuming the Commission approves the pilot.

3. If the proposed pilot program is approved, please discuss how the customers will be informed of the availability of the pilot program.

Response:

DEF plans to notify customers who qualify for the program via a communication (email or phone) from a Duke Energy representative.

4. Please explain if customers would be given notice if the proposed pilot program discontinues. If so, how far in advance would the notice be given?

Response:

Customers will be informed at registration that the pilot duration is 12 months. Duke Energy will contact them before the end of the pilot period to provide them with an update on whether the company will continue the program or discontinue at which time they would then be put back on a normal dusk-to-dawn schedule.

If it is determined that the pilot program will end prior to the established end date, customers will be given 30 days advanced notice by a Duke Energy representative

5. Please provide cost support for the proposed pilot program.

Response:

The program will be implemented using current technology systems so no additional investment is needed. Refer to the response for Question 6.

6. What are the projected administrative costs for the proposed pilot program? Please explain.

Response:

DEF estimates the program would incur approximately \$12,500 in marketing costs to create program communications and a website for customers.

7. Please explain how Duke will recover any incremental costs associated with implementing the pilot program.

Response:

DEF does not anticipate any incremental costs beyond the \$12,500 in marketing costs addressed in the response to Question 6. Costs associated with the pilot, including the \$12,500 in marketing costs, will be recovered through base rates.

8. Would customers who participate in the pilot program incur any costs? If so, please explain what those costs are.

Response:

No, customers will not incur any costs.

Technical Questions

9. For the following questions please refer to proposed tariff sheet no. 6.280, regarding “certain LED fixtures with utility-installed smart nodes.”
 - a. Provide a discussion with additional technical information on the company- installed smart nodes
 - b. Describe the purpose of a smart node.
 - c. Has Duke already installed the smart nodes, or will they need to be installed for the pilot

program? Please explain.

- d. Specify which model of smart node Duke intends to install for the pilot program.
- e. Explain how many lights can be connected to each smart node.
- f. Provide the cost of an individual smart node and the cost to install the equipment.

Response:

- a. Smart lighting control nodes provide two-way communication with outdoor lights. They look similar to current photocells and plug into the NEMA socket of the LED luminaire. Once plugged in, the node uses a LTE-cellular network to send data to a cloud-based software platform.
 - b. The smart node allows for remote monitoring and control of the luminaire thus providing many operational benefits as well as the potential for lighting customization. The software platform allows for the operator to provide better service and maintenance for the outdoor lighting system.
 - c. Duke Energy has begun installing the nodes on all compatible LEDs through our typical installation and maintenance work.
 - d. These smart outdoor lighting controls are LTE-cellular backhauled smart nodes.
 - e. It's a 1:1 installation with one node connecting and controlling one light.
 - f. The total average cost of a smart node is approximately \$100 plus installation cost.
10. Please again refer to proposed tariff sheet no. 6.280, regarding "certain LED fixtures with Company-installed smart nodes."
- a. Please explain why the pilot program is limited to customers with certain LED fixtures.
 - b. Please provide a list of LED fixtures in Duke's currently approved Lighting Service (LS-1) tariff which would be eligible for the pilot program.

Response:

- a. Currently the available smart lighting controls on the market are only compatible with LEDs that have an external NEMA socket which represents the majority of our Florida fleet. Some of the decorative fixtures may not be compatible to this type of node due to the components for connectivity being internal to the fixture or pole. LED light fixtures are the only fixtures that have the ability to vary the lighting intensity and lighting consumption. Thus, LEDs will be the only lights within the pilot program. Duke Energy is currently testing new types of nodes that can be compatible with our decorative luminaires.
 - b. The LEDs to be included in the pilot are Roadway, Shoebox, Flood, and certain decorative light fixtures.
11. Paragraph 6 of the petition states that the purpose of the pilot program is to gather energy usage data to offer an appropriately priced program in the future. Does Duke intend to use customer energy consumption data for any other purposes? Please explain.

Response:

No, DEF does not plan to use consumption data for any other purpose at this time.

12. Paragraph 6 of the petition refers to a dusk to dawn operating schedule of lights under the LS-1 tariff. Please explain how Duke would determine the appropriate time for dusk and dawn?

Response:

DEF's smart nodes will operate the outdoor lights on a standard dusk-to-dawn schedule utilizing the internal photocell as they operate today.

Questions on Program Terms and Conditions

13. Referring to Exhibit C of the petition (Smart Pilot's Terms and Conditions), please explain why the terms and conditions are not tariffed pages.

Response:

The Company views the Terms and Conditions for this pilot program as different from a formalized standard contract for electric services and included it with the petition as an exhibit to provide additional information and context around program operation. Customers would digitally accept the terms and conditions at enrollment that lays out the detailed requirements for program participation.

14. For the following questions, please refer to Exhibit C, subsection A.4, which states that participation in the pilot program must be for a minimum of 12 months within the 18-month pilot period.
- a. Clarify if a customer must participate for 12 months consecutively or for any 12 months within the 18 months? Please explain.
 - b. Explain if subsection A.4 dictates that no customers may sign up after the sixth month of the pilot period.

Response:

- a. Customers must participate for a consecutive 12 months. This will help in determining customer's usage throughout the different seasons of the year.
- b. The pilot enrollment period will end at the pilot's 6th month. This will ensure all participants will be enrolled for the minimum of 12-months during the pilot.

15. Please refer to Exhibit C, subsection A.5 for the following questions.

- a. Clarify whether metered LS-1 customers who participate in the proposed pilot would see a reduction in their street lighting bill if their energy consumption was reduced as a result of participating in the pilot. Please explain.
- b. Explain the benefits for LS-1 customers who participate in the proposed pilot program.

Response:

- a. Pilot program participants on LS-1 with metered accounts would be charged based on their actual kWh usage, so their actual energy consumption would be charged based on their energy usage (which may be higher or lower). Subsection A.5 of the LS-1 tariff pertains to the non-fuel energy rate estimated for unmetered fixtures. The energy consumption will be part of the learnings obtained during the pilot program.
- b. The program will allow the customer to customize the on-off and dimming schedule(s) of their outdoor lights to fit their needs. They may also choose to customize the output of their lights through dimming.

16. Please refer to Exhibit C, subsection B.2 for the following questions.

- a. State whether Duke or the customer would implement any lighting schedule changes and how this is done.
- b. How did Duke determine that lighting schedule changes would be processed in five business days? Please explain.
- c. Explain what Duke considers to be “emergent special event schedule changes that are deemed temporary,” as stated in subsection B.2.b. Please include examples in your response.
- d. Subsection B.2.a, states that lighting schedule change requests can be made through the pilot web form or email. Please discuss if the referenced web form and email are ready to be released for customer use. Please provide a web form address.

Response:

- a. DEF will work with the customer to make the changes to their outdoor lights as they request.
- b. DEF assumes there will be time to process the customer’s request and then make the necessary schedule changes to each light as requested by the customer. The system then takes up to 48 hours to record the schedule change on the node.
- c. Special events customers choose to have their lights operate on for a limited time outside the normal schedule. Examples would include:
 - i. Turning off desired lights during the 4th of July Fireworks for a certain time period.
 - ii. Community concert or outdoor movie events.

d. The website and customer web form are currently being developed and can be made available once the pilot has been approved by the Commission.

17. Please list the criteria to define a “customer who is in good financial standing,” as referenced in tariff sheet no. 6.280.

Response:

Customers with no outstanding balances on their account greater than 30 days or currently on a payment plan.

Program Participation and Eligibility

18. Approximately how many customers currently taking service under the LS-1 tariff have LED lighting? Of those customers, how many are estimated to participate in the proposed pilot? Please explain.

Response:

As of July 2023, approximately 250 customers have LED lighting fixtures with the installed smart nodes. More customers will be eligible by the start of the pilot as the smart node deployment is still underway within Duke Energy Florida. This pilot program estimates that approximately 25 to 50 customers will participate in the pilot. The pilot program is limiting the number fixtures to 10,000 lights to ensure the company can accommodate the logistics of the pilot program. DEF may allow inclusion of additional lights and/or customers if we determine the resources for the pilot can meet the requirement for operation at a greater capacity than 10,000 fixtures.

19. Are both metered and unmetered customers eligible for the pilot program?

Response:

This pilot is only available to customers on the LS-1 tariff. Both unmetered and metered customers are eligible for the pilot program.

20. Approximately how many customers does Duke expect to participate in the pilot program?

Response:

DEF is using the pilot to determine customer interest; therefore, has estimated participation by total number of lights instead of individual customers who have varying numbers of lights on our system. As stated in Question 18, DEF estimates approximately 25 to 50 customers will participate in the pilot program.

21. Have any customers expressed interest in this pilot program? Please explain.

Response:

Yes, DEF has heard from a variety of customers that they would like more options to customize their outdoor lighting for their needs.

22. For the following questions, please refer to Paragraph 7 of the petition, which states that the pilot program is limited to 10,000 lights.
- a. Explain why this is an appropriate number of lights to be included in the proposed pilot program.
 - b. Explain why Duke is using 10,000 lights and not a certain number of LS-1 customers in the pilot program.
 - c. How would Duke determine it is appropriate to increase the number of lights under the pilot program? Please explain.

Response:

- a. Since DEF has not offered this type of service before, participation was limited so that DEF could better understand the number of resources and time required to implement the program. The assumption is 10,000 lights could reasonably be scheduled within 6 months of the program launch to get the full year of testing data.
 - b. Each customer within the LS-1 tariff has varying number of lights – some may have 1 while others have thousands.
 - c. If DEF finds that creating new schedules within the system or making other customizations to the lights is less time intensive than anticipated, DEF may open up the enrollment to additional lights.
23. Please explain if there is any cut off period where customers may no longer enroll in the pilot program.

Response:

DEF would like to enroll customers during the first 6 months of the pilot so that it can get a full 12 months of data.

24. What is Duke's anticipated course of action if program participation does not reach 10,000 lights? Please explain.

Response:

DEF would then refine our overall program strategy and determine if it would be meaningful and achieve the program objectives to move forward with fewer participants.

Other Tariff Modifications

25. For the following questions, please refer to the proposed modifications shown on pages 2 and

3 of Exhibit A to the Petition (Legislative Format Tariffs).

- a. What is the purpose of these proposed modifications? Please explain.
- b. Please clarify whether the four lighting fixtures Duke proposes to move to tariff sheet no. 6.281 are Mercury Vapor or Sodium Vapor fixtures. Please explain.

Response:

- a. The modifications on pages 2 and 3 are necessary to ensure the proposed language additions and changes fit on the respective Sheet Nos. and tariff pages.
- b. The four lighting fixture changes should have remained listed as Mercury Vapor fixtures. Please see the attached updated versions of Exhibit A (“LS-1 Tariff for Smart Lighting Filing – Legislative Updated.pdf”) and Exhibit B (“LS-1 Tariff for Smart Lighting Filing – Clean Updated.pdf”).



SECTION NO. VI

FORTY-FIRST REVISED SHEET NO. 6.280

CANCELS FORTIETH REVISED SHEET NO. 6.280

**RATE SCHEDULE LS-1
LIGHTING SERVICE**

Availability:

Available throughout the entire territory served by the Company.

Applicable:

To any customer for the sole purpose of lighting roadways or other outdoor land use areas; served from either Company or customer owned fixtures of the type available under this rate schedule. Service hereunder is provided for the sole and exclusive benefit of the customer, and nothing herein or in the contract executed hereunder is intended to benefit any third party or to impose any obligation on the Company to any such third party.

Character of Service:

Continuous dusk to dawn automatically controlled lighting service (i.e. photoelectric cell); alternating current, 60 cycle, single phase, at the Company's standard voltage available; provided, however, that Customers electing to participate in the Smart Outdoor Lighting Service Pilot Program may choose a different period of time.

Smart Outdoor Lighting Services Pilot Program:

Any customer, who is in good financial standing and takes service under LS-1 for certain LED fixtures with Company-installed smart nodes, may apply to participate in the Smart Outdoor Lighting Services Pilot Program ("Smart Pilot"). During the 18-month Smart Pilot period, customers can schedule lighting service during the time period from 30 minutes prior to dusk until 30 minutes after dawn. Participants in the Smart Pilot will agree to the Smart Pilot's Terms and Conditions and will continue to be billed through the LS-1 rates. Participation in the Smart Pilot is limited to 10,000 lights, but the Company reserves the right to allow additional participation.

Limitation of Service:

Availability of certain fixture or pole types at a location may be restricted due to accessibility.

Standby or resale service not permitted hereunder. Service under this rate is subject to the Company's currently effective and filed "General Rules and Regulations Governing Electric Service."

Rate Per Month:**Customer Charge:**

Unmetered: \$ 1.65 per line of billing
Metered: \$ 4.71 per line of billing

Energy and Demand Charge:

Non-Fuel Energy Charge: 2.852¢ per kWh

Plus the Cost Recovery Factors listed in Rate Schedule BA-1, *Billing Adjustments*, except the Fuel Cost Recovery Factor and Asset Securitization Charge Factor:

See Sheet No. 6.105 and 6.106

Per Unit Charges:**I. Fixtures:**

BILLING TYPE	DESCRIPTION	LAMP SIZE ²			CHARGES PER UNIT		
		INITIAL LUMENS OUTPUT	LAMP WATTAGE	kWh	FIXTURE	MAINTENANCE	NON-FUEL ENERGY ³
Incandescent: ¹							
110	Roadway	1,000	105	32	\$1.02	\$4.70	\$0.91
115	Roadway	2,500	205	66	1.60	4.32	1.88
170	Post Top	2,500	205	72	20.01	4.32	2.05
Mercury Vapor: ¹							
205	Open Bottom	4,000	100	44	\$2.38	\$1.80	\$1.25
210	Roadway	4,000	100	44	3.06	1.80	1.25
215	Post Top	4,000	100	44	3.60	1.80	1.25
220	Roadway	8,000	175	71	3.10	1.77	2.02
225	Open Bottom	8,000	175	71	2.45	1.77	2.02

(Continued on Page No. 2)

ISSUED BY: Thomas G. Foster, Vice President, Rates & Regulatory Strategy – FL

EFFECTIVE:



SECTION NO. VI

THIRTY-SIXTH REVISED SHEET NO. 6.281

CANCELS THIRTY-FIFTH REVISED SHEET NO. 6.281

**RATE SCHEDULE LS-1
LIGHTING SERVICE**
(Continued from Page No. 1)

I. Fixtures: (Continued)

BILLING TYPE	DESCRIPTION	LAMP SIZE ²			CHARGES PER UNIT		
		INITIAL LUMENS OUTPUT	LAMP WATTAGE	kWh	FIXTURE	MAINTENANCE	NON-FUEL ENERGY ³
	Mercury Vapor: ¹ Continued						
235	Roadway	21,000	400	158	3.75	1.79	4.51
240	Roadway	62,000	1,000	386	5.49	2.07	11.01
245	Flood	21,000	400	158	4.92	1.79	4.51
250	Flood	62,000	1,000	386	5.77	2.07	11.01
	Sodium Vapor: ¹						
300	HPS Deco Rdwy White	50,000	400	168	\$10.50	\$1.87	\$4.79
301	Sandpiper HPS Deco Roadway	27,500	250	104	13.61	1.85	2.97
302	Sandpiper HPS Deco Rdwy Blk	9,500	100	42	13.16	1.84	1.20
305	Open Bottom	4,000	50	21	2.49	1.86	0.60
306	100W HS Deco Rdwy Blk	9,500	100	42	10.19	1.84	1.20
310	Roadway	4,000	50	21	3.06	1.86	0.60
313	Open Bottom	6,500	70	29	4.11	1.84	0.83
314	Hometown II	9,500	100	42	3.83	1.84	1.20
315	Post Top - Colonial/Contemp	4,000	50	21	4.95	1.86	0.60
316	Colonial Post Top	4,000	50	34	3.97	1.86	0.97
318	Post Top	9,500	100	42	2.45	1.84	1.20
320	Roadway-Overhead Only	9,500	100	42	4.04	1.84	1.20
321	Deco Post Top - Monticello	9,500	100	49	12.59	1.84	1.40
322	Deco Post Top - Flagler	9,500	100	49	15.53	1.84	1.40
323	Roadway-Turtle OH Only	9,500	100	42	4.84	1.84	1.20
325	Roadway-Overhead Only	16,000	150	65	4.57	1.85	1.85
326	Deco Post Top - Sanibel	9,500	100	49	18.69	1.84	1.40
330	Roadway-Overhead Only	22,000	200	87	3.40	1.85	2.48
335	Roadway-Overhead Only	27,500	250	104	5.68	1.85	2.97
336	Roadway-Bridge	27,500	250	104	6.28	1.85	2.97
337	Roadway-DOT	27,500	250	104	5.47	1.85	2.97
338	Deco Roadway-Maitland	27,500	250	104	9.65	1.85	2.97
340	Roadway-Overhead Only	50,000	400	169	5.79	1.87	4.82
341	HPS Flood-City of Sebring only	16,000	150	65	3.78	1.85	3.08
342	Roadway-Turnpike	50,000	400	168	8.33	1.87	4.79
343	Roadway-Turnpike	27,500	250	108	8.50	1.85	3.08
345	Flood-Overhead Only	27,500	250	103	5.18	1.85	2.94
347	Clermont	9,500	100	49	20.49	1.84	1.40
348	Clermont	27,500	250	104	21.51	1.85	2.97
350	Flood-Overhead Only	50,000	400	170	5.36	1.87	4.85
351	Underground Roadway	9,500	100	42	5.68	1.84	1.20
352	Underground Roadway	16,000	150	65	6.21	1.85	1.85
353	Underground Roadway	22,000	200	87	6.21	1.85	2.48
354	Underground Roadway	27,500	250	108	7.33	1.85	3.08
356	Underground Roadway	50,000	400	168	7.44	1.87	4.79
357	Underground Flood	27,500	250	108	8.83	1.85	3.05
358	Underground Flood	50,000	400	168	9.01	1.87	4.79
359	Underground Turtle Roadway	9,500	100	42	6.59	1.84	1.20
360	Deco Roadway Rectangular	9,500	100	47	11.93	1.84	1.34
365	Deco Roadway Rectangular	27,500	250	108	11.39	1.85	3.08
366	Deco Roadway Rectangular	50,000	400	168	11.39	1.87	4.79
370	Deco Roadway Round	27,500	250	108	16.48	1.85	3.08
375	Deco Roadway Round	50,000	400	168	16.48	1.87	4.79
380	Deco Post Top - Ocala	9,500	100	49	10.42	1.84	1.40
381	Deco Post Top	9,500	100	49	3.77	1.84	1.40
383	Deco Post Top-Biscayne	9,500	100	49	13.21	1.84	1.40
385	Deco Post Top - Sebring	9,500	100	49	6.67	1.84	1.40
393	Deco Post Top	4,000	50	21	8.13	1.86	0.60
394	Deco Post Top	9,500	100	49	16.92	1.84	1.40

(Continued on Page No. 3)

ISSUED BY: Thomas G. Foster, Vice President, Rates & Regulatory Strategy - FL

EFFECTIVE:



6.280

SECTION NO. VI

~~FORTIETH-FORTY-FIRST~~ REVISED SHEET NO. 6.280CANCELS ~~THIRTY-NINTH~~~~FORTIETH~~ REVISED SHEET NO.

Page 1 of 8

**RATE SCHEDULE LS-1
LIGHTING SERVICE**

Availability:

Available throughout the entire territory served by the Company.

Applicable:

To any customer for the sole purpose of lighting roadways or other outdoor land use areas; served from either Company or customer owned fixtures of the type available under this rate schedule. Service hereunder is provided for the sole and exclusive benefit of the customer, and nothing herein or in the contract executed hereunder is intended to benefit any third party or to impose any obligation on the Company to any such third party.

Character of Service:

Continuous dusk to dawn automatically controlled lighting service (i.e. photoelectric cell); alternating current, 60 cycle, single phase, at the Company's standard voltage available; provided, however, that Customers electing to participate in the Smart Outdoor Lighting Service Pilot Program may choose a different period of time.

Smart Outdoor Lighting Services Pilot Program:

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Limitation of Service:

Availability of certain fixture or pole types at a location may be restricted due to accessibility.

Standby or resale service not permitted hereunder. Service under this rate is subject to the Company's currently effective and filed "General Rules and Regulations Governing Electric Service."

Rate Per Month:**Customer Charge:**

Unmetered:	\$ 1.65 per line of billing
Metered:	\$ 4.71 per line of billing

Energy and Demand Charge:

Non-Fuel Energy Charge:	2.852¢ per kWh
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Plus the Cost Recovery Factors listed in Rate Schedule BA-1, *Billing Adjustments*, except the Fuel Cost Recovery Factor and Asset Securitization Charge Factor:

See Sheet No. 6.105 and 6.106

Per Unit Charges:**I. Fixtures:**

(Continued on Page No. 2)

ISSUED BY: Thomas G. Foster, Vice President, Rates & Regulatory Strategy – FL

EFFECTIVE: **January 1, 2023**



6.280

SECTION NO. VI

~~FORTIETH-FORTY-FIRST~~ REVISED SHEET NO. 6.280CANCELS ~~THIRTY-NINTH~~~~FORTIETH~~ REVISED SHEET NO.

Page 1 of 8

BILLING TYPE	DESCRIPTION	LAMP SIZE ²			CHARGES PER UNIT		
		INITIAL LUMENS OUTPUT	LAMP WATTAGE	kWh	FIXTURE	MAINTENANCE	NON-FUEL ENERGY ³
Incandescent: ¹							
110	Roadway	1,000	105	32	\$1.02	\$4.70	\$0.91
115	Roadway	2,500	205	66	1.60	4.32	1.88
170	Post Top	2,500	205	72	20.01	4.32	2.05
Mercury Vapor: ¹							
205	Open Bottom	4,000	100	44	\$2.38	\$1.80	\$1.25
210	Roadway	4,000	100	44	3.06	1.80	1.25
215	Post Top	4,000	100	44	3.60	1.80	1.25
220	Roadway	8,000	175	71	3.10	1.77	2.02
225	Open Bottom	8,000	175	71	2.45	1.77	2.02
235	Roadway	21,000	400	158	3.75	1.79	4.54
240	Roadway	62,000	1,000	386	5.49	2.07	11.01
245	Flood	21,000	400	158	4.92	1.79	4.54
250	Flood	62,000	1,000	386	5.77	2.07	11.01

(Continued on Page No. 2)

ISSUED BY: Thomas G. Foster, Vice President, Rates & Regulatory Strategy – FL

EFFECTIVE: **January 1, 2023**



6.281

SECTION NO. VI

THIRTY-~~FIFTH~~SIXTH REVISED SHEET NO. 6.281CANCELS THIRTY-~~FOURTH~~FIFTH REVISED SHEET NO.

Page 2 of 8

**RATE SCHEDULE LS-1
LIGHTING SERVICE**
(Continued from Page No. 1)

I. Fixtures: (Continued)

BILLING TYPE	DESCRIPTION	LAMP SIZE ²			CHARGES PER UNIT		
		INITIAL LUMENS OUTPUT	LAMP WATTAGE	kWh	FIXTURE	MAINTENANCE	NON-FUEL ENERGY ³
Mercury Vapor: ¹ Continued							
<u>235</u>	<u>Roadway</u>	<u>21,000</u>	<u>400</u>	<u>158</u>	<u>3.75</u>	<u>1.79</u>	<u>4.51</u>
<u>240</u>	<u>Roadway</u>	<u>62,000</u>	<u>1,000</u>	<u>386</u>	<u>5.49</u>	<u>2.07</u>	<u>11.01</u>
<u>245</u>	<u>Flood</u>	<u>21,000</u>	<u>400</u>	<u>158</u>	<u>4.92</u>	<u>1.79</u>	<u>4.51</u>
<u>250</u>	<u>Flood</u>	<u>62,000</u>	<u>1,000</u>	<u>386</u>	<u>5.77</u>	<u>2.07</u>	<u>11.01</u>
Sodium Vapor: ¹							
300	HPS Deco Rdwy White	50,000	400	168	\$10.50	\$1.87	\$4.79
301	Sandpiper HPS Deco Roadway	27,500	250	104	13.61	1.85	2.97
302	Sandpiper HPS Deco Rdwy Blk	9,500	100	42	13.16	1.84	1.20
305	Open Bottom	4,000	50	21	2.49	1.86	0.60
306	100W HS Deco Rdwy Blk	9,500	100	42	10.19	1.84	1.20
310	Roadway	4,000	50	21	3.06	1.86	0.60
313	Open Bottom	6,500	70	29	4.11	1.84	0.83
314	Hometown II	9,500	100	42	3.83	1.84	1.20
315	Post Top - Colonial/Contemp	4,000	50	21	4.95	1.86	0.60
316	Colonial Post Top	4,000	50	34	3.97	1.86	0.97
318	Post Top	9,500	100	42	2.45	1.84	1.20
320	Roadway-Overhead Only	9,500	100	42	4.04	1.84	1.20
321	Deco Post Top - Monticello	9,500	100	49	12.59	1.84	1.40
322	Deco Post Top - Flagler	9,500	100	49	15.53	1.84	1.40
323	Roadway-Turtle OH Only	9,500	100	42	4.84	1.84	1.20
325	Roadway-Overhead Only	16,000	150	65	4.57	1.85	1.85
326	Deco Post Top – Sanibel	9,500	100	49	18.69	1.84	1.40
330	Roadway-Overhead Only	22,000	200	87	3.40	1.85	2.48
335	Roadway-Overhead Only	27,500	250	104	5.68	1.85	2.97
336	Roadway-Bridge	27,500	250	104	6.28	1.85	2.97
337	Roadway-DOT	27,500	250	104	5.47	1.85	2.97
338	Deco Roadway–Maitland	27,500	250	104	9.65	1.85	2.97
340	Roadway-Overhead Only	50,000	400	169	5.79	1.87	4.82
341	HPS Flood-City of Sebring only	16,000	150	65	3.78	1.85	3.08
342	Roadway-Turnpike	50,000	400	168	8.33	1.87	4.79
343	Roadway-Turnpike	27,500	250	108	8.50	1.85	3.08
345	Flood-Overhead Only	27,500	250	103	5.18	1.85	2.94
347	Clermont	9,500	100	49	20.49	1.84	1.40
348	Clermont	27,500	250	104	21.51	1.85	2.97
350	Flood-Overhead Only	50,000	400	170	5.36	1.87	4.85
351	Underground Roadway	9,500	100	42	5.68	1.84	1.20
352	Underground Roadway	16,000	150	65	6.21	1.85	1.85
353	Underground Roadway	22,000	200	87	6.21	1.85	2.48
354	Underground Roadway	27,500	250	108	7.33	1.85	3.08
356	Underground Roadway	50,000	400	168	7.44	1.87	4.79
357	Underground Flood	27,500	250	108	8.83	1.85	3.05
358	Underground Flood	50,000	400	168	9.01	1.87	4.79
359	Underground Turtle Roadway	9,500	100	42	6.59	1.84	1.20
360	Deco Roadway Rectangular	9,500	100	47	11.93	1.84	1.34
365	Deco Roadway Rectangular	27,500	250	108	11.39	1.85	3.08
366	Deco Roadway Rectangular	50,000	400	168	11.39	1.87	4.79
370	Deco Roadway Round	27,500	250	108	16.48	1.85	3.08
375	Deco Roadway Round	50,000	400	168	16.48	1.87	4.79
380	Deco Post Top – Ocala	9,500	100	49	10.42	1.84	1.40
381	Deco Post Top	9,500	100	49	3.77	1.84	1.40
383	Deco Post Top-Biscayne	9,500	100	49	13.21	1.84	1.40
385	Deco Post Top – Sebring	9,500	100	49	6.67	1.84	1.40
393	Deco Post Top	4,000	50	21	8.13	1.86	0.60
394	Deco Post Top	9,500	100	49	16.92	1.84	1.40

(Continued on Page No. 3)

ISSUED BY: Thomas G. Foster, Vice President, Rates & Regulatory Strategy – FL

EFFECTIVE: **January 1, 2023**