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February 9, 2022

BY E-PORTAL

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

Re: Docket No. 20220011-EI- In re: Petition to modify tariff to close existing lighting tariff to new business and introduce new LED lighting tariff by Florida Public Utilities Company.

Dear Mr. Teitzman:

Attached for electronic filing, please find Florida Public Utilities Company's Responses to Staff's First Data Requests in the referenced docket.

As always, thank you for your assistance in connection with this filing. If you have any questions whatsoever, please do not hesitate to let me know.

Sincerely,



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Cc:// Division of Economics (Forrest)
Office of General Counsel (Brownless)

FPUC's Responses to Staff's First Data Requests

1. As stated in paragraph four of the petition "... the life span of an LED can be more than three times that of a HID lighting sources..." What is the expected life span of an LED?

Company's Response:

The average life expectancy for the LEDs the company is proposing to use is 100,000 hours.

2. In paragraph five of the petition the company states "FPUC could potentially utilize a Networked Lighting Controller in the future to remotely control and communicate with LED fixtures for detection of maintenance and outage events along with utilization of dimming and power cycling features."
 - A. If FPUC were to implement these additional features, when would the company expect to have this up and running?
 - B. Has there been a cost analysis of what implementing this would cost FPUC? If so please describe the findings of that analysis.
 - C. Would FPUC seek to recover the costs through a rate case proceeding? What would be the benefit to lighting customers if this potential controller was put into practice? How would this program help customers bills, if implemented?

Company's Response:

Item A: While FPUC may decide to equip new LED lights with a Networked Lighting Controller (NLC) at some point, but it's too early now to say what the plans would exactly be. No decisions have been on the implementation of this feature.

Item B: This project is in the initial stages of consideration, and thus, has not yet undergone a cost analysis to determine if this would be a viable project for FPUC to implement.

Item C: Yes, it is likely that the Company would seek recovery for the NLC project through a rate case or any other cost recovery mechanism deemed appropriate should the company decide to proceed with the project.

If placed into service, NLC technology can be beneficial to customers in many ways. The light control features would allow for energy management as a means to reduce customers' carbon footprint and increase pass-through cost savings. This technology can enhance the reliability of the system by auto-detecting, communicating, and reducing the response time of maintenance and outage events. Lastly, NLC use with cameras and GPS technology would provide customers with enhanced security features by deterring theft and automatically alerting authorities.

If the company ultimately decides to implement NLCs, the ability to dim or cycle lights off when an area is unoccupied would also reduce energy use by the fixtures. Therefore, the main benefits being considered with the NLCs are their potential to reduce energy usage and potential repair and maintenance savings.

3. Where will FPUC purchase the LED fixture from and are the facilities charges based on manufacturing costs?

Company's Response:

FPUC will purchase the proposed tariff LED fixtures from the following vendors:

- Stuart Irby
- Anixter
- Tri-State Utility
- Electric Supply
- Mayer Electric
- Gresco
- Sesco Lighting

The monthly facilities charges would be current market prices from the vendors stated above.

4. The following questions refer to paragraph nine of the petition.
- A. If a customer who is currently served under Rate Schedule LS had a single light (out of multiple lights) that went out and needed to be replaced, how would FPUC handle that situation? Would FPUC put that single LED light and customer on the new tariff, while keeping the other lights on the LS tariff? Would the customer see multiple line items on their bill for lighting? Please explain how FPUC would handle a situation like this.
 - B. Please explain the process of how a customer would be moved from the current LS Rate Schedule to the new LED Rate Schedule. Please explain how this move would be communicated with the customer.
 - C. If an existing lighting customer would like to convert to LED lighting under the proposed tariff, please explain any additional costs that the customer would incur to convert to the new tariff.
 - D. In paragraph nine the company states “The customers under the new LED outdoor lighting tariff will not incur any additional cost, and in fact, most customers would see a reduction in the lighting service portion of their bills.” Please elaborate if a customer would see a decrease in the total lighting bill.

Company’s Response:

Item A: If a customer under Rate Schedule LS with multiple lights replaces a single light, the company would offer the options of either changing one or all light fixtures to LED. If the customer opts for a complete LED upgrade on all light fixtures, then the customer would migrate to the newly proposed LED tariff rate schedules. In this scenario, the proposed LED tariff rates would replace the LS tariff rates on the customer’s bill and no additional lines would be added. However, if the customer decides to upgrade just one light fixture from HID to LED, then the customer would be served under both tariff rate schedules. The customer’s bill would reflect the type, rate, and quantity of each light fixture.

Item B: If a customer decides to upgrade from HID outdoor lighting to LED outdoor lighting, the migration is handled by the company’s Back Office billing department. Back Office would update the customer’s rate class in ECIS, the company’s software used to manage power customers’ accounts and billing. All changes made to a customer’s account are noted and correspondence is sent to the customer. The changes made to a customer’s account can be communicated in all sorts of ways, such as bill inserts/message, email, and/or a dedicated landing page on the company’s website and social media account, specifically detailing the change process for customers.

Item C: The customer would have to bear the cost of retiring the HID fixture and any undepreciated cost associated with the retired HID.

Item D: Yes, customers would see an overall decrease in their outdoor lighting bill with the new LED lighting tariff due to the higher efficiency of LEDs in contrast to the HID lighting fixtures.

5. If the proposed tariff is approved, has FPUC considered developing a whole-system LED-conversion program for legacy light customers? Please explain.

Company's Response:

Yes, if the lighting program is approved, FPUC would consider petitioning for a conversion program by year's end.

6. For the following questions please refer to Attachment A of the petition.
- A. Please provide the cost support for why 18 percent for additional power in the column labeled "apply 18% for Additional Power"? Why is adder power needed in the calculation?
 - B. Please provide the cost support for the 4.12 percent for "annual failure rate" in calculating the maintenance charge.
 - C. Please provide the cost support for an applied stores cost of 9 percent when calculating the facilities charge.
 - D. Please provide the cost support for 35 percent in the column labeled "apply 35% overhead".
 - E. Please explain why there is a difference in the labor column between the facilities charge w/ rev tax and the labor column in calculating the maintenance charge. Please provided the bases for each labor calculation.

Company's Response:

Item A: Upon further review of the proposed LED lighting installation processes, the company has determined there is no need to incorporate an additional 18% for power loss, as was traditionally done in the past with HID lighting fixtures. Attachment A has been revised to exclude the additional power requirements. See attached tariff sheets with revised rates.

Item B: The average annual failure rate was computed as follow:

$$4,120 \text{ Annual Burn hours} / 100,000 \text{ Bulb Life (in hours)} = 4.12\%$$

Item C: The cost support for the applied 9 percent store handling cost is provided below.

<u>Warehouse Department Allocation Based on 3-Year Average</u>					
Warehouse Dept Costs	Formula	10/01/2018 - 09/30/2019	10/01/2019 - 09/30/2020	10/01/2020 - 09/30/2021	WH Dept Avg
Payroll		10,667.39	15,694.40	5,877.44	10,746.41
Benefit		3,103.77	4,234.35	1,688.55	3,008.89
Payroll Taxes		779.78	1,179.30	434.03	797.70
Department Expenses		4,250.46	8,575.47	3,462.55	5,429.49
Vehicles		1,367.66	671.77	167.46	735.63
Total WH Dept Costs Applied to Lighting WOs	A	20,169.06	30,355.29	11,630.03	20,718.13
Total of All Dept Costs Applied to Lighting WOs	B	70,129.08	77,185.02	40,715.92	62,676.67
% of WH to Total Costs Applied to Lighting WOs	C=A/B				33%
% of Dept Clearing to CWIP Total	D (See Item D)				28%
Stores Handling %	E=C*D				9%

Item D: The cost support for the applied overhead percentage is provided on the next page. The calculation supports an applied overhead rate of 34% instead of 35%. Schedule A has been revised to reflect a one-percent decrease in applied overhead costs.

Item E. The difference in labor costs is the result of the increased crew size utilized during installation. The facilities charges include the labor costs of a two-person crew for approximately 2 man-hours to travel and install the LED fixture and arm. The maintenance charge includes the labor cost of a one-person crew for approximately 2 man-hours to travel and replace an inoperable photocell or LED fixture.

Item D: Supporting Schedule for Applied Overhead

Applied Overhead Based on 3-Year Average		
Description	Formula	Amount
Average Dept Clearing Applied to total CWIP Bal	D	28%
Less WH Store Handling (Direct Input)	Item C	-9%
Less EL Dept Payroll & Benefits (Direct Input)	O	-13%
Remaining Avg Dept Clearing Applied to CWIP Bal	P	6%
Avg Corp OH Clearing Applied to total CWIP Bal	E	28%
Total Applied Overhead	Q=P+E	34%

3-Year Average: Clearing and Overhead Applied to CWIP						
Costs	Formula	10/01/2018 -	10/01/2019 -	10/01/2020 -	Avg	
		09/30/2019	09/30/2020	09/30/2021		
Dept Clearing	A	71,033.64	73,881.40	42,780.23	62,565.09	
Corp Overhead	B	51,718.28	61,255.31	72,579.09	61,850.89	
CWIP	C	322,070.34	210,166.32	137,965.10	223,400.59	
Dept Clearing	D=A/C				28%	
Corp Overhead	E=B/C				28%	

EL Department Payroll and Benefit Percentages							
Costs	Formula	10/01/2018 -	10/01/2019 -	10/01/2020 -	EL Dept Avg	% of Total	Weighted Avg
		09/30/2019	09/30/2020	09/30/2021			
Payroll	F	29,114.88	25,911.76	17,905.53	24,310.72	59%	11%
Benefit	G	5,595.70	5,202.36	3,228.88	4,675.65	11%	2%
Payroll Taxes	H	2,110.37	1,878.07	1,289.43	1,759.29	4%	1%
Department Exp	I	3,324.51	1,656.63	1,319.18	2,100.11	5%	1%
Vehicles	J	9,622.54	9,480.28	5,213.23	8,105.35	20%	4%
Total EL Dept Costs Applied to Lighting WOs	K=(F:J)	49,768.00	44,129.10	28,956.25	40,951.12	100%	18%
Total of All Dept Costs Applied to Lighting WOs	L	70,129.08	77,185.02	40,715.92	62,676.67		
% of EL to Total Costs Applied to Lighting WOs	M=K/L				65%		
% of Dept Clearing to CWIP Total	D				28%		
EL Dept Clearing %	N=M*D				18%		
Payroll	F						11%
Benefit	G						2%
Total	O=(F+G)						13%

Line No.	Facility Type	Initial LED Lumens	Estimated LED Watts	KWH/Mo. Estimate	See page 4 for calculation	+	See page 5 for calculation	+	See page 6 for calculation	=	Total Charge w/ Rev Tax
					Facilities Charge w/ Rev Tax	Maintenance Charge w/ Rev Tax	Base Energy Charge w/ Rev Tax				
1	Cobrahead	5,682	50	17	\$ 6.58		\$ 2.08		\$ 0.89		\$ 9.55
2	Cobrahead	5,944	50	17	\$ 8.31		\$ 2.59		\$ 0.89		\$ 11.79
3											
4											
5	Cobrahead	9,600	82	28	\$ 7.78		\$ 2.43		\$ 1.47		\$ 11.68
6	Cobrahead	14,571	130	45	\$ 7.75		\$ 2.42		\$ 2.36		\$ 12.53
7	Cobrahead	28,653	210	72	\$ 13.55		\$ 3.95		\$ 3.78		\$ 21.28
8	Decorative	2,650	26	9	\$ 7.78		\$ 2.72		\$ 0.47		\$ 10.97
9	Decorative	4,460	44	15	\$ 7.71		\$ 2.69		\$ 0.79		\$ 11.19
10	Decorative	10,157	90	31	\$ 11.14		\$ 3.71		\$ 1.63		\$ 16.48
11	Decorative	7,026	60	21	\$ 19.74		\$ 6.25		\$ 1.10		\$ 27.09
12	Flood	12,500	80	27	\$ 10.80		\$ 3.40		\$ 1.42		\$ 15.62
13	Flood	24,000	170	58	\$ 10.80		\$ 3.40		\$ 3.05		\$ 17.25
14	Flood	20,686	150	52	\$ 10.80		\$ 3.40		\$ 2.73		\$ 16.93
15	Flood	38,500	290	100	\$ 10.80		\$ 3.40		\$ 5.25		\$ 19.45
16	Shoebox	20,050	150	52	\$ 9.52		\$ 3.23		\$ 2.73		\$ 15.48
17	Shoebox	17,144	131	45	\$ 10.72		\$ 3.59		\$ 2.36		\$ 16.67

Line No.	Facility Type	LED Manufacturer	LED Light Description	LED Product No.	HID Replaced	LED Unit Cost
1	Cobrahead	Ceer Lighting	RUL LED Rural Utility	RUL-HT-5ME-C-40K-12-UF-N-ES-K1	70-100W HPS/100-175W MV	\$ 134.60
2		Philips	Lumec RoadFocus LED Cobra Head	RFS-54W16LED3K-G2-R3M-UNV-DMG-PHXL-RCD7-GY3	Cobra Head 100	\$ 215.00
3	Cobrahead	Philips	Lumec RoadFocus LED Cobra Head	RFS-54W16LED3K-G2-R3M-UNV-DMG-RCD7-PHXL-SP2-GY3	Cobra Head 100	\$ 260.00
4		Philips	Lumec RoadFocus LED Cobra Head	RFS-54W16LED3K-G2-R3M-UNV-DMG-RCD7-PHXL-GY3	Cobra Head 100	\$ 235.00
5	Cobrahead	GE	Evolve LED Roadway ERLH	ERLH-0-10-C3-30-A-GRAY-X	Cobra Head 200	\$ 205.10
6	Cobrahead	Philips	Lumec RoadFocus LED Cobra Head	RFM-130W32LED4K-G2-R3M-UNV-DMG-API-RCD7-GY3	Cobra Head 200	\$ 203.53
7	Cobrahead	Philips	Lumec RoadFocus LED Cobra Head	RFL-215W96LED4K-G2-R3M-UNIV-FAWS-PH8-RCD7-GY3	Cobra Head 400	\$ 508.00
8	Decorative	GE	Evolve LED Post Top	EPTT-01-0-02-A-A-27-A-P-BLCK	Amer. Rev. 100	\$ 262.05
9	Decorative	GE	Evolve LED Post Top	EPTT-01-0-04-A-A-27-A-P-BLCK	Amer. Rev. 150	\$ 257.85
10	Decorative	Signify	Hadco MainView LED Post Top	MV-G-CA-G1-600-3-730-A-N-R-N-SP2-BKS	Acorn 150	\$ 460.04
11	Decorative	Amerlux		EDR-8270-D323/WA/AVI-G3-U-SY-XX-P3/LESS FINAL/BLK	ALN440 150	\$ 965.80
12	Flood	Hoard	Utility LED Flood (UFB Series)	HOARD #UFBMD74YB2R71A	Flood 250	\$ 398.00
13	Flood	Hoard	Utility LED Flood (UFB Series)	HOARD #UFBMD74YB2R71A	Flood 400	\$ 398.00
14	Flood	RAB Lighting	RAB LED Floodlight	FXLED150T/PCT	Flood 400W MH	\$ 398.00
15	Flood	Hoard	Utility LED Flood (UFB Series)	HOARD #UFBMD74YB2R71A	Flood 1000	\$ 398.00
16	Shoebox	Cooper Lighting	USSL LED Area/Site/Roadway	USSL-CO2-D-U-T3-SA-BZ-10MSP-4N7-TH-U111830	Shoebox 175	\$ 364.59
17	Shoebox	Cooper Lighting	USSL LED Area/Site/Roadway	USSL-CO29-D-U-T3-SA-BZ-10MSP-4N7-TH	Shoebox 250	\$ 435.42

Line No.	Facility Type	KWH/Mo. Estimate	=	LED Watts	X	Annual Operating Hours	/	(1000	X	12 Months)
1	Cobrahead	17		50		4120		1000		12
2		17		50		4120		1000		12
3	Cobrahead									12
4										12
5	Cobrahead	28		82		4120		1000		12
6	Cobrahead	45		130		4120		1000		12
7	Cobrahead	72		210		4120		1000		12
8	Decorative	9		26		4120		1000		12
9	Decorative	15		44		4120		1000		12
10	Decorative	31		90		4120		1000		12
11	Decorative	21		60		4120		1000		12
12	Flood	27		80		4120		1000		12
13	Flood	58		170		4120		1000		12
14	Flood	52		150		4120		1000		12
15	Flood	100		290		4120		1000		12
16	Shoebox	52		150		4120		1000		12
17	Shoebox	45		131		4120		1000		12

Line No.	Facility Type	Facilities Charge w/ Rev Tax	=	Rev Tax	X	Facilities Charge	=	(((Fixture Cost	+	Arm Costs	+	Photocell Cost)	X	Apply 9% Stores Handling	+	Labor)	+	Apply 34% Overhead)	X	Fixed Charge Rate	/	Months
1	Cobrahead	\$ 6.58		1.00072		\$ 6.57		\$ 134.60		\$ 56.75		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
2		\$ 8.31		1.00072		\$ 8.31		\$ 236.67		\$ 56.75		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
3	Cobrahead																					
4																						
5	Cobrahead	\$ 7.78		1.00072		\$ 7.77		\$ 205.10		\$ 56.75		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
6	Cobrahead	\$ 7.75		1.00072		\$ 7.74		\$ 203.53		\$ 56.75		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
7	Cobrahead	\$ 13.55		1.00072		\$ 13.54		\$ 508.00		\$ 93.80		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
8	Decorative	\$ 7.78		1.00072		\$ 7.77		\$ 262.05		\$ -		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
9	Decorative	\$ 7.71		1.00072		\$ 7.70		\$ 257.85		\$ -		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
10	Decorative	\$ 11.14		1.00072		\$ 11.13		\$ 460.04		\$ -		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
11	Decorative	\$ 19.74		1.00072		\$ 19.72		\$ 965.80		\$ -		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
12	Flood	\$ 10.80		1.00072		\$ 10.79		\$ 398.00		\$ 41.70		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
13	Flood	\$ 10.80		1.00072		\$ 10.79		\$ 398.00		\$ 41.70		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
14	Flood	\$ 10.80		1.00072		\$ 10.79		\$ 398.00		\$ 41.70		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
15	Flood	\$ 10.80		1.00072		\$ 10.79		\$ 398.00		\$ 41.70		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
16	Shoebox	\$ 9.52		1.00072		\$ 9.51		\$ 364.59		\$ -		\$ 12.50		109%		\$ 199.74		134%		13.95%		12
17	Shoebox	\$ 10.72		1.00072		\$ 10.72		\$ 435.42		\$ -		\$ 12.50		109%		\$ 199.74		134%		13.95%		12

Line No.	Facility Type	Maintenance Charge w/ Rev Tax	=	Rev Tax	X	Maintenance Charge	=	(Labor	+	Total Unit Cost Excluding Arm	X	Annual Failure Rate	/	Months
1	Cobrahead	\$ 2.08		1.00072		\$ 2.07		\$ 121.60		\$ 482.50		4.12%		12
2		\$ 2.59		1.00072		\$ 2.59		\$ 121.60		\$ 631.58		4.12%		12
3	Cobrahead													
4														
5	Cobrahead	\$ 2.43		1.00072		\$ 2.43		\$ 121.60		\$ 585.47		4.12%		12
6	Cobrahead	\$ 2.42		1.00072		\$ 2.42		\$ 121.60		\$ 583.18		4.12%		12
7	Cobrahead	\$ 3.95		1.00072		\$ 3.95		\$ 121.60		\$ 1,027.89		4.12%		12
8	Decorative	\$ 2.72		1.00072		\$ 2.71		\$ 121.60		\$ 668.65		4.12%		12
9	Decorative	\$ 2.69		1.00072		\$ 2.69		\$ 121.60		\$ 662.52		4.12%		12
10	Decorative	\$ 3.71		1.00072		\$ 3.71		\$ 121.60		\$ 957.84		4.12%		12
11	Decorative	\$ 6.25		1.00072		\$ 6.24		\$ 121.60		\$ 1,696.55		4.12%		12
12	Flood	\$ 3.40		1.00072		\$ 3.39		\$ 121.60		\$ 867.22		4.12%		12
13	Flood	\$ 3.40		1.00072		\$ 3.39		\$ 121.60		\$ 867.22		4.12%		12
14	Flood	\$ 3.40		1.00072		\$ 3.39		\$ 121.60		\$ 867.22		4.12%		12
15	Flood	\$ 3.40		1.00072		\$ 3.39		\$ 121.60		\$ 867.22		4.12%		12
16	Shoebox	\$ 3.23		1.00072		\$ 3.23		\$ 121.60		\$ 818.42		4.12%		12
17	Shoebox	\$ 3.59		1.00072		\$ 3.58		\$ 121.60		\$ 921.88		4.12%		12

Line No.	Facility Type	Base Energy Charge w/ Rev Tax	=	Rev Tax	X	Base Energy Charge	=	KWH/Mo. Estimate	X	Base Energy Rate c/KWH
1	Cobrahead	\$ 0.89		1.00072		\$ 0.89		17		\$ 0.053
2		\$ 0.89		1.00072		\$ 0.89		17		\$ 0.053
3	Cobrahead									
4										
5	Cobrahead	\$ 1.47		1.00072		\$ 1.47		28		\$ 0.053
6	Cobrahead	\$ 2.36		1.00072		\$ 2.36		45		\$ 0.053
7	Cobrahead	\$ 3.78		1.00072		\$ 3.78		72		\$ 0.053
8	Decorative	\$ 0.47		1.00072		\$ 0.47		9		\$ 0.053
9	Decorative	\$ 0.79		1.00072		\$ 0.79		15		\$ 0.053
10	Decorative	\$ 1.63		1.00072		\$ 1.63		31		\$ 0.053
11	Decorative	\$ 1.10		1.00072		\$ 1.10		21		\$ 0.053
12	Flood	\$ 1.42		1.00072		\$ 1.42		27		\$ 0.053
13	Flood	\$ 3.05		1.00072		\$ 3.05		58		\$ 0.053
14	Flood	\$ 2.73		1.00072		\$ 2.73		52		\$ 0.053
15	Flood	\$ 5.25		1.00072		\$ 5.25		100		\$ 0.053
16	Shoebox	\$ 2.73		1.00072		\$ 2.73		52		\$ 0.053
17	Shoebox	\$ 2.36		1.00072		\$ 2.36		45		\$ 0.053

*RATE SCHEDULE LS
 LIGHTING SERVICE*

Availability

Available within the territory served by the Company in Calhoun, Jackson and Liberty Counties and on Amelia Island in Nassau County.

Applicability

Applicable to any customer for non-metered outdoor lighting service.

Character of Service

Lighting service from dusk to dawn as described herein.

Limitations of Service

Service is limited to lighting by high-pressure sodium vapor, ~~or~~ metal halide, or light emitting diode lamps mounted on company poles as described herein. Company-owned facilities will be installed only on Company-owned poles.

Monthly Rate

When lighting fixtures are mounted on existing poles and served directly from existing overhead secondary distribution lines:

Type <u>Facility</u>	Lamp <u>Lumens</u>	Size <u>Watts</u>	KWH/Mo. <u>Estimate</u>	Facilities <u>Charge</u>	Maintenance* <u>Charge</u>	Energy <u>Charge</u>	Total <u>Charge</u>
<u>High Pressure Sodium Lights (closed to new service)</u>							
Acorn	16,000	150	61	\$19.69	\$2.49	\$3.19	\$25.37
ALN 440	16,000	150	61	\$28.07	\$3.32	\$3.19	\$34.58
Amer. Rev.	9,500	100	41	\$9.66	\$3.29	\$2.15	\$15.10
Amer. Rev.	16,000	150	61	\$9.05	\$3.33	\$3.19	\$15.57
Cobra Head	9,500	100	41	\$7.25	\$2.11	\$2.15	\$11.51
Cobra Head	22,000	200	81	\$9.78	\$2.53	\$4.26	\$16.57
Cobra Head	28,500	250	101	\$11.63	\$3.33	\$5.30	\$20.26
Cobra Head	50,000	400	162	\$10.86	\$2.77	\$8.54	\$22.17
Flood	28,500	250	101	\$11.37	\$2.42	\$5.30	\$19.09
Flood	50,000	400	162	\$17.85	\$2.27	\$8.54	\$28.66
Flood	130,000	1,000	405	\$22.36	\$3.00	\$21.30	\$46.66
SP2 Spectra	9,500	100	41	\$24.81	\$3.10	\$2.15	\$30.06
<u>Metal Halide Lights (closed to new service)</u>							
ALN 440	16,000	175	71	\$26.86	\$2.61	\$3.77	\$33.24
Flood	50,000	400	162	\$12.12	\$2.21	\$8.54	\$22.87
Flood	130,000	1,000	405	\$20.61	\$2.92	\$21.30	\$44.83
Shoebox	16,000	175	71	\$22.68	\$2.93	\$3.77	\$29.38
Shoebox	28,500	250	101	\$24.14	\$3.28	\$5.30	\$32.72
SP2 Spectra	9,500	100	41	\$24.62	\$3.00	\$2.15	\$29.77
Vertical Shoebox	130,000	1,000	405	\$25.45	\$3.32	\$21.30	\$50.07

(Continued on Sheet No. 57)

*RATE SCHEDULE LS
 LIGHTING SERVICE*

(Continued from Sheet No. 56)

Type Facility	Lamp Lumens	Size Watts	KWH/Mo. Estimate	Facilities Charge	Maintenance* Charge	Energy Charge	Total Charge
<u>Light Emitting Diode Lights</u>							
Cobra Head	5,682	50	17	\$6.58	\$2.08	\$0.89	\$9.55
Cobra Head	5,944	50	17	\$8.31	\$2.59	\$0.89	\$11.79
Cobra Head	9,600	82	28	\$7.78	\$2.43	\$1.47	\$11.68
Cobra Head	14,571	130	45	\$7.75	\$2.42	\$2.36	\$12.53
Cobra Head	28,653	210	72	\$13.55	\$3.95	\$3.78	\$21.28
Decorative	2,650	26	9	\$7.78	\$2.72	\$0.47	\$10.97
Decorative	4,460	44	15	\$7.71	\$2.69	\$0.79	\$11.19
Decorative	10,157	90	31	\$11.14	\$3.71	\$1.63	\$16.48
Decorative	7,026	60	21	\$19.74	\$6.25	\$1.10	\$27.09
Flood	12,500	80	27	\$10.80	\$3.40	\$1.42	\$15.61
Flood	24,000	170	58	\$10.80	\$3.40	\$3.05	\$17.24
Flood	20,686	150	52	\$10.80	\$3.40	\$2.73	\$16.93
Flood	38,500	290	100	\$10.80	\$3.40	\$5.25	\$19.45
Shoe Box	20,050	150	52	\$9.52	\$3.23	\$2.73	\$15.48
Shoe Box	17,144	131	45	\$10.72	\$3.59	\$2.36	\$16.67

Charges for other Company-owned facilities:

- 1) 30' Wood Pole \$4.82
- 2) 40' Wood Pole Std \$10.72
- 3) 18' Fiberglass Round \$9.98
- 4) 13' Decorative Concrete \$14.14
- 5) 20' Decorative Concrete \$16.41
- 6) 35' Concrete Square \$15.83
- 7) 10' Deco Base Aluminum \$18.56
- 8) 30' Wood Pole Std \$5.36

For the poles shown above that are served from an underground system, the Company will provide up to one hundred (100) feet of conductor to service each fixture. The customer will provide and install the necessary conduit system to Company specifications.

Purchased Power Charges

Purchased power charges are adjusted annually by the Florida Public Service Commission. For current purchased power costs included in the tariff, see Sheet No. 65 & 66.

Minimum Bill

The above rates times the number of lamps connected.

(Continued on Sheet No. 58)

*RATE SCHEDULE LS
LIGHTING SERVICE*

(Continued from Sheet No. 57)

Terms of Payment

Bills are rendered net and are due and payable within twenty (20) days from date of bill.

Purchased Power Costs

See Sheet No. 65 & 66.

Conservation Costs

See Sheet No. 65 & 66.

Franchise Fee Adjustment

Customers taking service within franchise areas shall pay a franchise fee adjustment in the form of a percentage to be added to their bills prior to the application of any appropriate taxes. This percentage shall reflect the customer's pro rata share of the amount the Company is required to pay under the franchise agreement with the specific governmental body in which the customer is located.

Term of Service

Service under this rate schedule shall be by written contract for a period of five or more years.

Terms and Conditions

1. Service under this rate schedule is subject to the Company's Rules and Regulations applicable to electric service.
 2. The charges set forth above cover the initial installation of overhead lines, poles and fixture assembly including bracket, and the maintenance duty as limited to lamp renewals due to burn outs only, or the repair or replacement of equipment causing lamps not to be illuminated.
- * The Company will repair or replace malfunctioning lighting fixtures maintained by the company in accordance with Section 768.1382, Florida Statutes (2005). Maintenance duty to be undertaken by Florida Public Utilities Company is limited to lamp renewal due to burn outs only, or the repair or replacement of equipment causing lamps not to be illuminated. Such burnt out lamp replacements or repairs causing non-illumination of lamps will be performed only during regular daytime working hours as soon as practical after notification of the burn out or non-illumination conditions of the lamp by the customer. The maintenance duties undertaken herein are expressly limited to our paying customer, and are not to be deemed to create a duty to the general public at large.

*RATE SCHEDULE LS
 LIGHTING SERVICE*

Availability

Available within the territory served by the Company in Calhoun, Jackson and Liberty Counties and on Amelia Island in Nassau County.

Applicability

Applicable to any customer for non-metered outdoor lighting service.

Character of Service

Lighting service from dusk to dawn as described herein.

Limitations of Service

Service is limited to lighting by high-pressure sodium vapor, metal halide, or light emitting diode lamps mounted on company poles as described herein. Company-owned facilities will be installed only on Company-owned poles.

Monthly Rate

When lighting fixtures are mounted on existing poles and served directly from existing overhead secondary distribution lines:

Type	Lamp	Size	KWH/Mo.	Facilities	Maintenance*	Energy	Total
<u>Facility</u>	<u>Lumens</u>	<u>Watts</u>	<u>Estimate</u>	<u>Charge</u>	<u>Charge</u>	<u>Charge</u>	<u>Charge</u>
<u>High Pressure Sodium Lights (closed to new service)</u>							
Acorn	16,000	150	61	\$19.69	\$2.49	\$3.19	\$25.37
ALN 440	16,000	150	61	\$28.07	\$3.32	\$3.19	\$34.58
Amer. Rev.	9,500	100	41	\$9.66	\$3.29	\$2.15	\$15.10
Amer. Rev.	16,000	150	61	\$9.05	\$3.33	\$3.19	\$15.57
Cobra Head	9,500	100	41	\$7.25	\$2.11	\$2.15	\$11.51
Cobra Head	22,000	200	81	\$9.78	\$2.53	\$4.26	\$16.57
Cobra Head	28,500	250	101	\$11.63	\$3.33	\$5.30	\$20.26
Cobra Head	50,000	400	162	\$10.86	\$2.77	\$8.54	\$22.17
Flood	28,500	250	101	\$11.37	\$2.42	\$5.30	\$19.09
Flood	50,000	400	162	\$17.85	\$2.27	\$8.54	\$28.66
Flood	130,000	1,000	405	\$22.36	\$3.00	\$21.30	\$46.66
SP2 Spectra	9,500	100	41	\$24.81	\$3.10	\$2.15	\$30.06
<u>Metal Halide Lights (closed to new service)</u>							
ALN 440	16,000	175	71	\$26.86	\$2.61	\$3.77	\$33.24
Flood	50,000	400	162	\$12.12	\$2.21	\$8.54	\$22.87
Flood	130,000	1,000	405	\$20.61	\$2.92	\$21.30	\$44.83
Shoebox	16,000	175	71	\$22.68	\$2.93	\$3.77	\$29.38
Shoebox	28,500	250	101	\$24.14	\$3.28	\$5.30	\$32.72
SP2 Spectra	9,500	100	41	\$24.62	\$3.00	\$2.15	\$29.77
Vertical Shoebox	130,000	1,000	405	\$25.45	\$3.32	\$21.30	\$50.07

(Continued on Sheet No. 57)

RATE SCHEDULE LS
LIGHTING SERVICE

(Continued from Sheet No. 56)

Type Facility	Lamp Lumens	Size Watts	KWH/Mo. Estimate	Facilities Charge	Maintenance* Charge	Energy Charge	Total Charge
<u>Light Emitting Diode Lights</u>							
Cobra Head	5,682	50	17	\$6.58	\$2.08	\$0.89	\$9.55
Cobra Head	5,944	50	17	\$8.31	\$2.59	\$0.89	\$11.79
Cobra Head	9,600	82	28	\$7.78	\$2.43	\$1.47	\$11.68
Cobra Head	14,571	130	45	\$7.75	\$2.42	\$2.36	\$12.53
Cobra Head	28,653	210	72	\$13.55	\$3.95	\$3.78	\$21.28
Decorative	2,650	26	9	\$7.78	\$2.72	\$0.47	\$10.97
Decorative	4,460	44	15	\$7.71	\$2.69	\$0.79	\$11.19
Decorative	10,157	90	31	\$11.14	\$3.71	\$1.63	\$16.48
Decorative	7,026	60	21	\$19.74	\$6.25	\$1.10	\$27.09
Flood	12,500	80	27	\$10.80	\$3.40	\$1.42	\$15.61
Flood	24,000	170	58	\$10.80	\$3.40	\$3.05	\$17.24
Flood	20,686	150	52	\$10.80	\$3.40	\$2.73	\$16.93
Flood	38,500	290	100	\$10.80	\$3.40	\$5.25	\$19.45
Shoe Box	20,050	150	52	\$9.52	\$3.23	\$2.73	\$15.48
Shoe Box	17,144	131	45	\$10.72	\$3.59	\$2.36	\$16.67

Charges for other Company-owned facilities:

- 1) 30' Wood Pole \$4.82
- 2) 40' Wood Pole Std \$10.72
- 3) 18' Fiberglass Round \$9.98
- 4) 13' Decorative Concrete \$14.14
- 5) 20' Decorative Concrete \$16.41
- 6) 35' Concrete Square \$15.83
- 7) 10' Deco Base Aluminum \$18.56
- 8) 30' Wood Pole Std \$5.36

For the poles shown above that are served from an underground system, the Company will provide up to one hundred (100) feet of conductor to service each fixture. The customer will provide and install the necessary conduit system to Company specifications.

Purchased Power Charges

Purchased power charges are adjusted annually by the Florida Public Service Commission. For current purchased power costs included in the tariff, see Sheet No. 65 & 66.

Minimum Bill

The above rates times the number of lamps connected.

(Continued on Sheet No. 58)