

State of Florida



# Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD  
TALLAHASSEE, FLORIDA 32399-0850

## -M-E-M-O-R-A-N-D-U-M-

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**DATE:** February 21, 2019

**TO:** Office of Commission Clerk (Teitzman)

**FROM:** Division of Economics (Guffey) SKG EJD PD JMH  
Office of the General Counsel (Simmons) KS JSC

**RE:** Docket No. 20190023-EI – Petition for approval of modifications to rate schedule LS-1, lighting service, by Duke Energy Florida, LLC.

**AGENDA:** 03/05/19 – Regular Agenda – Tariff Filing – Interested Persons May Participate

**COMMISSIONERS ASSIGNED:** All Commissioners

**PREHEARING OFFICER:** Administrative

**CRITICAL DATES:** 03/18/19 (60-Day Suspension Date)

**SPECIAL INSTRUCTIONS:** None

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### Case Background

On January 17, 2019, Duke Energy Florida, LLC (DEF or utility), filed a petition for approval of modifications to its Lighting Service (LS-1) rate schedule. Specifically, DEF proposed to close the metal halide and sodium vapor fixture options for new installations, add new Light Emitting Diode (LED) fixtures, and add new pole options. The proposed tariffs are shown in legislative format in Attachment 1 to this recommendation.

On February 8, 2019, DEF responded to staff's first data request. The Commission has jurisdiction over this matter pursuant to Section 366.06, Florida Statutes.

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## Discussion of Issues

**Issue 1:** Should the Commission approve DEF's proposed modifications to its LS-1 rate schedule as shown in Attachment 1?

**Recommendation:** Yes. The Commission should approve DEF's proposed modifications to its LS-1 rate schedule as shown in Attachment 1. The proposed new LED fixture and pole options are cost based and expand the fixture and pole options available to customers. Closing the current metal halide and sodium vapor options for new installations allows DEF to recognize energy efficiencies and technological improvements in the lighting industry. The revised tariffs should become effective on March 5, 2019. (Guffey)

**Staff Analysis:** DEF's LS-1 rate schedule is available to customers for the purpose of lighting roadways and other outdoor areas. DEF proposed four revisions to its LS-1 rate schedule which are discussed below.

First, DEF proposed to close the metal halide fixture options for new installations. Existing metal halide lighting customers can continue to use them until either the fixture or the ballast, or both, fails. The ballast regulates the current to the lamps and provides voltage to start the lamps. At the time of fixture or ballast failure, the metal halide fixture will be replaced with a comparable LED fixture and applicable monthly rates will apply. LED fixtures do not require a ballast to regulate the current.

DEF explained that the Energy Independence and Security Act of 2007 requires that ballasts installed in metal halide fixtures meet higher energy efficiency standards, and as of early 2017, certain metal halide lamps of certain wattages cannot contain a probe-start ballast. DEF stated that metal halide fixtures and ballasts have been gradually phased out in order to meet the Energy Independence and Security Act of 2007 guideline requirements; therefore, manufacturers no longer produce metal halide fixtures.

Second, DEF proposed to close the sodium vapor fixture options for new installations. Although the Energy Independence and Security Act of 2007 does not limit the production of ballasts for sodium vapor fixtures, manufacturers are now primarily producing LED fixtures. DEF contends that the market is moving towards higher energy efficiency lighting technology and customers also prefer LED lighting.

Existing sodium vapor lighting customers can continue to use them until the fixture fails or the damaged fixture needs repair along with the replacement of the ballast. At that time, DEF explained that it will work with the customer to find a sodium vapor fixture that matches what is currently in the neighborhood or replace the sodium vapor fixture with a comparable LED fixture. DEF stated that as manufacturers continue to transition away from sodium vapor lights towards LED fixtures, finding a matching sodium vapor fixture may become increasingly difficult.

Third, in order to expand the fixture and pole options available to customers, DEF proposed to add several new LED fixtures and pole options to its existing offerings. The proposed new fixtures and poles are shown in revised Tariff Sheet Nos. 6.2811, 6.2812, 6.282 and 6.2821.

The utility provided cost support information for the newly introduced LED fixtures and poles. The charges for the LED fixtures are comprised of three components: a fixture charge, a maintenance charge, and a non-fuel energy charge, consistent with DEF's other lighting options. The fixture charges were developed based on material, design, labor, storage, and vehicle costs associated with the installation multiplied by the currently approved 1.59 percent fixture rental rate to determine the monthly fixture charge. The maintenance charges were developed based on DEF's estimated maintenance cost for the components (e.g., driver, photo control, luminaire) of the fixtures. The non-fuel energy charge is determined by multiplying the estimated kilowatt-hour usage by fixture type by the currently approved non-fuel energy charge for lighting service (2.547 cents per kilowatt-hour). All other Commission-approved LS-1 recovery clause factors will be applied to the estimated usage.

The monthly pole charges were developed based on the material costs and DEF's labor rates to install a pole multiplied by the currently approved 1.82 percent pole rental rate. The new pole types are aluminum or concrete.

Finally, DEF proposed to update Note 2 under Notes to Per Unit Charges on revised tariff sheet No. 6.283. The proposed revision will make the note more applicable to LED lighting fixtures, which do not contain ballasts, and state that the wattage ratings may vary with lamp configuration.

### **Conclusion**

Staff reviewed the petition, data responses, and the necessary cost support information submitted by DEF, and believes the charges are reasonable and appropriate. The proposed new LED fixture and pole options are cost based and expand the fixture and pole options available to customers. Closing the current metal halide and sodium vapor options to new customers allows DEF to recognize energy efficiencies and technological improvements in the lighting industry. Staff recommends that DEF's proposed modifications to its LS-1 rate schedule as shown in Attachment 1 be approved. The revised tariffs should become effective on March 5, 2019.

**Issue 2:** Should this docket be closed?

**Recommendation:** If a protest is filed within 21 days of the issuance of the order, the tariffs should remain in effect, with any revenues held subject to refund, pending resolution of the protest. If no timely protest is filed, this docket should be closed upon the issuance of a consummating order. (Simmons)

**Staff Analysis:** If a protest is filed within 21 days of the issuance of the order, the tariffs should remain in effect, with any revenues held subject to refund, pending resolution of the protests. If no timely protest is filed, this docket should be closed upon the issuance of a consummating order.



SECTION NO. VI  
 THIRTY-~~SECOND~~-THIRD REVISED SHEET NO. 6.280  
 CANCELS THIRTY-~~FIRST~~-SECOND REVISED SHEET NO.

6.280

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**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.

**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: \$ 1.31 per line of billing  
 Metered: \$ 3.77 per line of billing

**Energy and Demand Charge:**

Non-Fuel Energy Charge: 2.547¢ 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 <sup>2</sup>			CHARGES PER UNIT		
		INITIAL LUMENS OUTPUT	LAMP WATTAGE	kWh	FIXTURE	MAINTENANCE	NON-FUEL ENERGY <sup>3</sup>
<b>Incandescent: <sup>1</sup></b>							
110	Roadway	1,000	105	32	\$1.03	\$4.07	\$0.82
115	Roadway	2,500	205	66	1.61	3.67	1.68
170	Post Top	2,500	205	72	20.39	3.67	1.83
<b>Mercury Vapor: <sup>1</sup></b>							
205	Open Bottom	4,000	100	44	\$2.55	\$1.80	\$1.12
210	Roadway	4,000	100	44	2.95	1.80	1.12
215	Post Top	4,000	100	44	3.47	1.80	1.12
220	Roadway	8,000	175	71	3.34	1.77	1.81
225	Open Bottom	8,000	175	71	2.50	1.77	1.81
235	Roadway	21,000	400	158	4.04	1.81	4.02
240	Roadway	62,000	1,000	386	5.29	1.78	9.83
245	Flood	21,000	400	158	5.29	1.81	4.02
250	Flood	62,000	1,000	386	6.20	1.78	9.83

(Continued on Page No. 2)

ISSUED BY: Javier J. Portuondo, Managing Director Rates & Regulatory Strategy – FL

EFFECTIVE: ~~January 4, 2019~~



SECTION NO. VI  
~~TWENTY-NINTH~~~~THIRTIETH~~ REVISED SHEET NO. 6.281  
 CANCELS ~~TWENTY-EIGHTH~~~~NINTH~~ REVISED SHEET NO.

6.281

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

I. Fixtures: (Continued)

BILLING TYPE	DESCRIPTION	LAMP SIZE <sup>2</sup>			CHARGES PER UNIT		
		INITIAL LUMENS OUTPUT	LAMP WATTAGE	kWh	FIXTURE	MAINTENANCE	NON-FUEL ENERGY <sup>3</sup>
	Sodium Vapor: <sup>1</sup>						
300	HPS Deco Rdwy White	50,000	400	168	\$14.73	\$1.61	\$4.28
301	Sandpiper HPS Deco Roadway	27,500	250	104	13.81	1.72	2.65
302	Sandpiper HPS Deco Rdwy B k	9,500	100	42	14.73	1.58	1.07
305	Open Bottom <sup>4</sup>	4,000	50	21	2.54	2.04	0.53
310	Roadway <sup>4</sup>	4,000	50	21	3.12	2.04	0.53
313	Open Bottom <sup>4</sup>	6,500	70	29	4.19	2.05	0.74
314	Hometown II	9,500	100	42	4.08	1.72	1.07
315	Post Top - Colonial/Contemp <sup>4</sup>	4,000	50	21	5.04	2.04	0.53
316	Colonial Post Top <sup>4</sup>	4,000	50	34	4.05	2.04	0.87
318	Post Top <sup>4</sup>	9,500	100	42	2.50	1.72	1.07
320	Roadway-Overhead Only	9,500	100	42	3.64	1.72	1.07
321	Deco Post Top - Monticello	9,500	100	49	12.17	1.72	1.25
322	Deco Post Top - Flagler	9,500	100	49	16.48	1.72	1.25
323	Roadway-Turtle OH Only	9,500	100	42	4.32	1.72	1.07
325	Roadway-Overhead Only	16,000	150	65	3.78	1.75	1.66
326	Deco Post Top - Sanibel	9,500	100	49	18.16	1.72	1.25
330	Roadway-Overhead Only	22,000	200	87	3.64	1.83	2.22
335	Roadway-Overhead Only	27,500	250	104	4.16	1.72	2.65
336	Roadway-Bridge <sup>4</sup>	27,500	250	104	6.74	1.72	2.65
337	Roadway-DOT <sup>4</sup>	27,500	250	104	5.87	1.72	2.65
338	Deco Roadway-Maitland	27,500	250	104	9.62	1.72	2.65
340	Roadway-Overhead Only	50,000	400	169	5.03	1.76	4.30
341	HPS Flood-City of Sebring only <sup>4</sup>	16,000	150	65	4.06	1.75	1.66
342	Roadway-Turnpike <sup>4</sup>	50,000	400	168	8.95	1.76	4.28
343	Roadway-Turnpike <sup>4</sup>	27,500	250	108	9.12	1.72	2.75
345	Flood-Overhead Only	27,500	250	103	5.21	1.72	2.62
347	Clermont	9,500	100	49	20.65	1.72	1.25
348	Clermont	27,500	250	104	22.65	1.72	2.65
350	Flood-Overhead Only	50,000	400	170	5.19	1.76	4.33
351	Underground Roadway	9,500	100	42	6.22	1.72	1.07
352	Underground Roadway	16,000	150	65	7.58	1.75	1.66
354	Underground Roadway	27,500	250	108	8.10	1.72	2.75
356	Underground Roadway	50,000	400	168	8.69	1.76	4.28
357	Underground Flood	27,500	250	108	9.36	1.72	2.75
358	Underground Flood <sup>4</sup>	50,000	400	168	9.49	1.76	4.28
359	Underground Turtle Roadway	9,500	100	42	6.09	1.72	1.07
360	Deco Roadway Rectangular <sup>4</sup>	9,500	100	47	12.53	1.72	1.20
365	Deco Roadway Rectangular	27,500	250	108	11.89	1.72	2.75
366	Deco Roadway Rectangular	50,000	400	168	12.00	1.76	4.28
370	Deco Roadway Round <sup>4</sup>	27,500	250	108	15.41	1.72	2.75
375	Deco Roadway Round <sup>4</sup>	50,000	400	168	15.42	1.76	4.28
380	Deco Post Top - Ocala	9,500	100	49	8.78	1.72	1.25
381	Deco Post Top <sup>4</sup>	9,500	100	49	4.05	1.72	1.25
383	Deco Post Top-Biscayne	9,500	100	49	14.17	1.72	1.25
385	Deco Post Top - Sebring	9,500	100	49	6.75	1.72	1.25
393	Deco Post Top <sup>4</sup>	4,000	50	21	8.72	2.04	0.53
394	Deco Post Top <sup>4</sup>	9,500	100	49	18.16	1.72	1.25

(Continued on Page No. 3)

ISSUED BY: Javier J. Portuondo, Managing Director Rates & Regulatory Strategy - FL

EFFECTIVE: January 1, 2019



SECTION NO. VI  
~~NINTH-TENTH~~ REVISED SHEET NO. 6.2811  
 CANCELS ~~EIGHTH-NINTH~~ REVISED SHEET NO. 6.2811

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RATE SCHEDULE LS-1  
 LIGHTING SERVICE  
 (Continued from Page No. 2)

I. Fixtures: (Continued)

BILLING TYPE	DESCRIPTION	LAMP SIZE <sup>2</sup>			CHARGES PER UNIT		
		INITIAL LUMENS OUTPUT	LAMP WATTAGE	kWh	FIXTURE	MAINTENANCE	NON-FUEL ENERGY <sup>3</sup>
<b>Metal Halide: <sup>1</sup></b>							
307	Deco Post Top-MH San bel P	11,600	150	65	\$16.85	\$2.68	\$1.66
308	Clermont Tear Drop P	11,600	150	65	19.91	2.68	1.66
309	MH Deco Rectangular P	36,000	320	126	13.07	2.74	3.21
311	MH Deco Cube P	36,000	320	126	15.98	2.74	3.21
312	MH Flood P	36,000	320	126	10.55	2.74	3.21
319	MH Post Top Biscayne P	11,600	150	65	15.24	2.68	1.66
327	Deco Post Top-MH San bel <sup>4</sup>	12,000	175	74	18.39	2.72	1.88
349	Clermont Tear Drop <sup>4</sup>	12,000	175	74	21.73	2.72	1.88
371	MH Deco Rectangular <sup>4</sup>	38,000	400	159	14.26	2.84	4.05
372	MH Deco Circular <sup>4</sup>	38,000	400	159	16.70	2.84	4.05
373	MH Deco Rectangular <sup>4,5</sup>	110,000	1,000	378	15.30	2.96	9.63
386	MH Flood <sup>4,5</sup>	110,000	1,000	378	13.17	2.96	9.63
389	MH Flood-Sportslighter <sup>4,5</sup>	110,000	1,000	378	13.01	2.96	9.63
390	MH Deco Cube <sup>4</sup>	38,000	400	159	17.44	2.84	4.05
396	Deco PT MH San bel Dual <sup>5</sup>	24,000	350	148	33.73	5.43	3.77
397	MH Post Top-Biscayne <sup>4</sup>	12,000	175	74	14.98	2.72	1.88
398	MH Deco Cube <sup>4,5</sup>	110,000	1,000	378	20.34	2.96	9.63
399	MH Flood	38,000	400	159	11.51	2.84	4.05
<b>Light Emitting Diode (LED):</b>							
106	Underground San bel	5,500	70	25	\$20.80	\$1.39	\$0.64
107	Underground Traditional Open	3,908	49	17	13.57	1.39	0.43
108	Underground Traditional w/Lens	3,230	49	17	13.57	1.39	0.43
109	Underground Acorn	4,332	70	25	20.16	1.39	0.64
111	Underground Mini Bell	2,889	50	18	17.88	1.39	0.46
121	<u>Shoebox Bronze III</u>	<u>21,164</u>	<u>213</u>	<u>75</u>	<u>20.42</u>	<u>1.39</u>	<u>1.91</u>
122	<u>Shoebox Bronze IV</u>	<u>20,555</u>	<u>213</u>	<u>75</u>	<u>20.42</u>	<u>1.39</u>	<u>1.91</u>
123	<u>Shoebox Bronze V</u>	<u>21,803</u>	<u>213</u>	<u>75</u>	<u>20.42</u>	<u>1.39</u>	<u>1.91</u>
124	<u>Shoebox Black III</u>	<u>21,164</u>	<u>213</u>	<u>75</u>	<u>20.42</u>	<u>1.39</u>	<u>1.91</u>
126	<u>Shoebox Black IV FWT</u>	<u>20,555</u>	<u>213</u>	<u>75</u>	<u>20.42</u>	<u>1.39</u>	<u>1.91</u>
127	<u>Shoebox Black V</u>	<u>21,803</u>	<u>213</u>	<u>75</u>	<u>20.42</u>	<u>1.39</u>	<u>1.91</u>
130	<u>Monticello 3000 Kelvin</u>	<u>4,430</u>	<u>50</u>	<u>17.5</u>	<u>20.16</u>	<u>1.39</u>	<u>0.45</u>
133	ATBO Roadway	4,521	48	17	6.22	1.39	0.43
134	Underground ATBO Roadway	4,521	48	17	7.71	1.39	0.43
136	Roadway	9,233	108	38	7.05	1.39	0.97
137	Underground Roadway	9,233	108	38	8.55	1.39	0.97
138, 176	Roadway	18,642	216	76	11.61	1.39	1.94
139	Underground Roadway	18,642	216	76	13.11	1.39	1.94
141, 177	Roadway	24,191	284	99	14.08	1.39	2.52
142, 162	Underground Roadway	24,191	284	99	15.58	1.39	2.52
147, 174	Roadway	12,642	150	53	9.74	1.39	1.35
148	Underground Roadway	12,642	150	53	11.24	1.39	1.35
151	ATBS Roadway	4,500	49	17	5.07	1.39	0.43
156	<u>Shoebox Bronze IV FWT</u>	<u>39,078</u>	<u>421</u>	<u>147</u>	<u>29.20</u>	<u>1.39</u>	<u>3.74</u>
157	<u>Shoebox Bronze V</u>	<u>43,317</u>	<u>421</u>	<u>147</u>	<u>29.20</u>	<u>1.39</u>	<u>3.74</u>
158	<u>Shoebox Black IV FWT</u>	<u>39,078</u>	<u>421</u>	<u>147</u>	<u>29.20</u>	<u>1.39</u>	<u>3.74</u>
159	<u>Shoebox Black V</u>	<u>43,317</u>	<u>421</u>	<u>147</u>	<u>29.20</u>	<u>1.39</u>	<u>3.74</u>
163	<u>Shoebox Pedestrian Bronze</u>	<u>3,130</u>	<u>50</u>	<u>17</u>	<u>12.91</u>	<u>1.39</u>	<u>0.43</u>
164	<u>Shoebox Pedestrian Black</u>	<u>3,130</u>	<u>50</u>	<u>17</u>	<u>14.05</u>	<u>1.39</u>	<u>0.43</u>
167	Underground Mitchell	5,186	50	18	21.44	1.39	0.46
168	Underground Mitchell w/Top Hat	4,336	50	18	21.44	1.39	0.46

(Continued on Page No. 4)

ISSUED BY: Javier J. Portuondo, Managing Director Rates & Regulatory Strategy – FL

EFFECTIVE: ~~January 1, 2019~~



SECTION NO. VI  
 ORIGINAL SHEET NO. 6.2812

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RATE SCHEDULE LS-1  
 LIGHTING SERVICE  
 (Continued from Page No. 3)

I. Fixtures: (Continued)

BILLING TYPE	DESCRIPTION	LAMP SIZE <sup>2</sup>			CHARGES PER UNIT		
		INITIAL LUMENS OUTPUT	LAMP WATTAGE	kWh	FIXTURE	MAINTENANCE	NON-FUEL ENERGY <sup>3</sup>
<u>Light Emitting Diode (LED):</u>							
<u>Continued</u>							
169	Teardrop	8,472	150	52	28.54	1.39	1.32
181	Sanibel	10,820	150	52	21.31	1.39	1.32
182	Biscayne	4,655	60	21	19.11	1.39	0.53
183	Clermont	15,375	150	52	29.28	1.39	1.32
184	ATBS Roadway, Overhead Feed	4,195	40	14	4.57	1.39	0.36
185	ATBS Roadway, Underground Feed	4,195	40	14	6.06	1.39	0.36
186	ATBS Roadway, Overhead Feed	8,200	70	24	5.35	1.39	0.61
187	ATBS Roadway, Underground Feed	8,200	70	24	6.85	1.39	0.61
191	Flood Overhead Feed	13,729	130	46	10.57	1.39	1.17
192	Flood Overhead Feed	30,238	260	91	16.86	1.39	2.32
193	Clermont	7,451	50	18	26.91	1.39	0.46
194	Flood Underground Feed	13,729	130	46	12.06	1.39	1.17
195	LED Flood Underground Feed	30,238	260	91	18.35	1.39	2.32
196	Amber Roadway Overhead	4,133	70	25	11.28	1.39	0.64
197	Amber Roadway Underground	4,133	70	25	12.77	1.39	0.64
198	Amber Roadway Overhead	5,408	110	39	13.55	1.39	0.99
199	Amber Roadway Underground	5,408	110	39	15.04	1.39	0.99
361	Roadway <sup>1</sup>	6,000	95	33	16.93	2.43	0.84
362	Roadway <sup>1</sup>	9,600	157	55	20.07	2.43	1.40
363	Shoebox Type 3 <sup>1</sup>	20,664	309	108	41.08	2.84	2.75
364	Shoebox Type 4 <sup>1</sup>	14,421	206	72	32.59	2.84	1.83
367	Shoebox Type 5 <sup>1</sup>	14,421	206	72	31.65	2.84	1.83
369	Underground Biscayne	6,500	80	28	18.60	1.39	0.71

(Continued on Page No. 5)

ISSUED BY: Javier J. Portuondo, Managing Director Rates & Regulatory Strategy – FL  
 EFFECTIVE:





SECTION NO. VI  
~~EIGHTEENTH-NINETEENTH~~ REVISED SHEET NO. 6.282  
 CANCELS ~~SEVENTEENTH-EIGHTEENTH~~ REVISED SHEET

NO. 6.282

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RATE SCHEDULE LS-1  
 LIGHTING SERVICE  
 (Continued from Page No. 34)

II. POLES

BILLING TYPE	DESCRIPTION	CHARGE PER UNIT
404	35' Deco Concrete – Mariner	\$22.35
405	Concrete, 30/35'	5.05
406	16' Deco Conc – Single Sanibel	11.70
407	16' Deco Conc – Double Sanibel	12.61
408	26' Aluminum DOT Style Pole	45.92
409	36' Aluminum DOT Style Pole	54.80
410	Concrete, 15' 1	2.31
411	16' Octagonal Conc 1	2.18
412	32' Octagonal Deco Concrete	16.29
413	25' Tenon Top Concrete	11.84
415	Concrete, Curved 1	4.77
418	35' Tenon Top Black Concrete	20.14
420	Wood, 30/35'	2.17
422	36ft OAL Aluminum Fluted Multi-Use Pole	117.51
423	29ft OAL Aluminum Fluted Multi-Use Pole	113.25
424	36ft OAL Aluminum 10" Multi-Use Pole	101.90
425	Wood, 14' Laminated 1	2.38
428	Deco Fiberglass, 35', Bronze, Reinforced 1	19.11
429	Deco Fiberglass, 41', Bronze, Reinforced 1	31.54
430	Fiberglass, 14', Black 1	2.51
431	Deco Fiberglass, 41', Bronze 1	17.18
432	Deco Fiberglass, 35', Bronze, Anchor Base 1	27.49
433	Deco Fiberglass, 35', Bronze 1	13.60
434	Deco Fiberglass, 20', Black, Deco Base 1	12.47
435	Aluminum, Type A 1	6.59
436	Deco Fiberglass, 16', Black, Fluted 1	19.50
437	Fiberglass, 16', Black, Fluted, Dual Mount 1	21.94
438	Deco Fiberglass, 20', Black 1	5.85
439	Black Fiberglass 16'	19.78
440	Aluminum, Type B 1	7.33
441	15' Black Aluminum	6.54
442	40ft OAL Conc Static Cast Multi-Use Pole	46.18
443	45ft OAL Conc Static Cast Multi-Use Pole	48.73
445	Aluminum, Type C 1	14.33
446	Deco Fiberglass, 30', Bronze 1	11.57
447	Deco Fiberglass, 35', Silver, Anchor Base 1	21.40
448	Deco Fiberglass, 41', Silver 1	18.00
449	Deco Fiberglass, 16', Black, Fluted, Anchor Base 1	17.35
450	Concrete, 1/2 Special	1.75
451	36ft OAL Aluminum Multi-Use Pole	84.19
452	36ft Aluminum Breakaway Pole	43.51
453	46ft Aluminum Breakaway Pole	46.87
454	35ft OAL Promenade Receptacle Pole	40.22
455	Steel, Type A 1	4.11
457	46ft OAL Aluminum I-Drive Multi-Use Pole	75.92
460	Steel, Type B 1	4.41
465	Steel, Type C 1	6.17
466	16' Deco Con Vic II – Dual Mount	18.06
467	16' Deco Conc Washington – Dual	25.87
468	16' Deco Conc Colonial – Dual Mount	13.35
469	35' Tenon Top Quad Flood Mount	13.63
470	45' Tenon Top Quad Flood Mount	18.90
471	22' Deco Concrete	14.99
472	22' Deco Conc Single San bel	16.03
473	22' Deco Conc Double San bel	17.26
474	22' Deco Conc Double Mount	18.74
476	25' Tenon Top Bronze Concrete	17.54
477	30' Tenon Top Bronze Concrete	18.70
478	35' Tenon Top Bronze Concrete	20.14
479	41' Tenon Top Bronze Concrete	24.33
480	Wood, 40/45'	5.25
481	30' Tenon Top Concrete, Single Flood Mount	10.06
482	30' Tenon Top Conc, Double Flood Mount/Includes Bracket	12.29
483	46' Tenon Top Conc, Triple Flood Mount/Includes Bracket	18.80
484	46' Tenon Top Conc, Double Flood Mount/Includes Bracket	18.50
485	Concrete, 40/45'	10.19
486	Tenon Style Concrete 46' Single Flood Mount	15.31
487	35' Tenon Top Conc, Triple Flood Mount/Includes Bracket	13.53

(Continued on Page No. 56)

ISSUED BY: Javier J. Portuondo, Managing Director Rates & Regulatory Strategy – FL

EFFECTIVE: January 5, 2016



SECTION NO. VI  
~~EIGHTEENTH-NINETEENTH~~ REVISED SHEET NO. 6.282  
CANCELS ~~SEVENTEENTH-EIGHTEENTH~~ REVISED SHEET

NO. 6.282

			Page 5 of <del>68</del>
488	35' Tenon Top Conc, Double Flood Mount/Includes Bracket	13.23	
489	35' Tenon Top Concrete, Single Flood Mount	11.00	

(Continued on Page No. ~~58~~)

ISSUED BY: Javier J. Portuondo, Managing Director Rates & Regulatory Strategy – FL  
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SECTION NO. VI  
 ORIGINAL SHEET NO. 6.2821

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**RATE SCHEDULE LS-1  
 LIGHTING SERVICE**  
 (Continued from Page No. 5)

**II. POLES**

490	Special Concrete 13' 1	17.39
491	30' Tenon Top Conc. Triple Flood Mount/Includes Bracket	12.60
492	16' Smooth Decorative Concrete/The Colonial	8.99
493	19' White Aluminum 1	25.87
494	46' Tenon Top Concrete/Non-Flood Mount/1-4 Fixtures	16.27
495	Dual Mount 20' Fiberglass	10.84
496	30' Tenon Top Concrete/Non-Flood Mount/1-4 Fixtures	12.44
497	16' Decorative Concrete w/decorative base/The Washington	21.77

BILLING TYPE	DESCRIPTION	CHARGE PER UNIT
490	Special Concrete 13' 1	17.39
491	30' Tenon Top Conc. Triple Flood Mount/Includes Bracket	12.60
492	16' Smooth Decorative Concrete/The Colonial	8.99
493	19' White Aluminum 1	25.87
494	46' Tenon Top Concrete/Non-Flood Mount/1-4 Fixtures	16.27
495	Dual Mount 20' Fiberglass	10.84
496	30' Tenon Top Concrete/Non-Flood Mount/1-4 Fixtures	12.44
497	16' Decorative Concrete w/decorative base/The Washington	21.77
498	35' Tenon Top Concrete/Non-Flood Mount/1-4 Fixtures	13.37
499	16' Decorative Concrete-Vic II	13.07

(Continued on Page No. 7)

**ISSUED BY:** Javier J. Portuondo, Managing Director Rates & Regulatory Strategy – FL

**EFFECTIVE:**



SECTION NO. VI  
~~ELEVENTH-TWELFTH~~ REVISED SHEET NO. 6.283  
 CANCELS ~~TENTH-ELEVENTH~~ REVISED SHEET NO. 6.283

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**RATE SCHEDULE LS-1  
 LIGHTING SERVICE**  
 (Continued from Page No. ~~64~~)

**III. Additional Facilities**

**BILLING TYPE**

**Electrical Pole Receptacle <sup>4</sup>**

401	Single	\$3.00 per unit
402	Double	\$3.90 per unit

**Notes to Per Unit Charges:**

- (1) Restricted to existing installations.
- (2) Lumens output ~~and wattage ratings may vary with lamp configuration and/or age may vary with lamp configuration and age.~~  
~~Wattage ratings do not include ballast losses. Actual wattage may vary up to +/- 5 watts.~~
- (3) Shown for information only. Energy charges are billed by applying the foregoing energy and demand charges to the total monthly kWh.
- (4) Electric use permitted only during the period of October through January, only on poles designated by the Company. Energy charged separately. Customers must notify Company of installation of customer-owned receptacles prior to such installation.
- (5) Special applications only.

**Additional Charges:**

Fuel Cost Recovery Factor:	See Sheet No. 6.105
Asset Securitization Charge Factor:	See Sheet No. 6.105
Gross Receipts Tax Factor:	See Sheet No. 6.106
Right-of-Way Utilization Fee:	See Sheet No. 6.106
Municipal Tax:	See Sheet No. 6.106
Sales Tax:	See Sheet No. 6.106

**Minimum Monthly Bill:**

The minimum monthly bill shall be the sum of the Customer Charge and applicable Fixture, Maintenance and Pole Charges.

**Terms of Payment:**

Bills rendered hereunder are payable within the time limit specified on bill at Company-designated locations.

**Terms of Service:**

Service under this rate schedule shall be for a minimum initial term of ten (10) years from the commencement of service and shall continue thereafter until terminated by either party by written notice sixty (60) days prior to termination. Upon early termination of service under this schedule, the customer shall pay an amount equal to the remaining monthly lease amount for the term of contract including Contribution in Aid of Construction ("CIAC") under Special Provision No. 16, applicable Customer Charges and removal cost of the facilities.

**Special Provisions:**

1. The customer shall execute a contract on the Company's standard filed contract form for service under this rate schedule.
2. Where the Company provides a fixture or pole type other than those listed above, the monthly charges, as applicable shall be computed as follows:
  - I. Fixture
    - (a) Fixture Charge: 1.59% of the Company's average installed cost.
    - (b) Maintenance Charge: The Company's estimated cost of maintaining fixture.
  - II. Pole
    - Pole Charge: 1.82% of installed cost.
3. The customer shall be responsible for the cost incurred to repair or replace any fixture or pole which has been willfully damaged. The Company shall not be required to make such repair or replacement prior to payment by the customer for damage.
4. Maintenance Service for customer-owned fixtures at charges stated hereunder shall be restricted to fixtures being maintained as of November 1, 1992.

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ISSUED BY: Javier J. Portuondo, Managing Director Rates & Regulatory Strategy – FL

EFFECTIVE: ~~May 8, 2018~~



SECTION NO. VI  
~~SIXTH SEVENTH~~ REVISED SHEET NO. 6.284  
CANCELS ~~FIFTH SIXTH~~ REVISED SHEET NO. 6.284

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**RATE SCHEDULE LS-1  
LIGHTING SERVICE**  
(Continued from Page No. ~~67~~)

**Special Provisions: (Continued)**

5. kWh consumption for Company-owned fixtures shall be estimated in lieu of installing meters. kWh estimates will be made using the following formula:

$$\text{kWh} = \frac{\text{Unit Wattage (including ballast losses)} \times 350 \text{ hours per month}}{1,000}$$

6. kWh consumption for customer-owned fixtures shall be metered. Installation of customer-owned lighting facilities shall be provided for by the customer. Any costs incurred by the Company to provide for consolidation of existing lighting facilities for the purpose of metering shall be at the customer's expense.
7. No Pole Charge shall be applicable for a fixture installed on a company-owned pole which is utilized for other general electrical distribution purposes.
8. The Company will repair or replace malfunctioning lighting fixtures maintained by the Company in accordance with Section 768.1382, Florida Statutes (2005).
9. For a fixture type and/or pole type restricted to existing installations and requiring major renovation or replacement, the fixture and/or pole shall be replaced by an available similar non-restricted fixture and/or pole and the customer shall commence being billed at its appropriate rate. Where the customer requests the continued use of the same fixture type and/or pole type for appearance reasons, the Company will attempt to provide such fixture and/or pole and the customer shall commence being billed at a rate determined in accordance with Special Provision No. 2 for the cost of the renovated or replaced fixture and/or pole.
10. The customer will be responsible for trimming trees and other vegetation that obstruct the light output from fixture(s) or maintenance access to the facilities.
11. After December 31, 1998, all new leased lighting shall be installed on poles owned by the Company.
12. Alterations to leased lighting facilities requested by the customer after date of installation (i.e. redirect, install shields, etc.), will be billed to the customer in accordance with the Company's policy related to "Work Performed for the Public".
13. Service for street or area lighting is normally provided from existing distribution facilities. Where suitable distribution facilities do not exist, it will be the customer's responsibility to pay for necessary additional facilities. Refer to Section III, paragraph 3.01 of the Company's General Rules and Regulations Governing Electric Service to determine the CIAC owed by the customer.
14. Requests for exchanging facilities, upgrades, relocations, removals etc. are subject to Section III, paragraph 3.05, of the Company's General Rules and Regulations Governing Electric Service.
15. For available LEDs, the customer may opt to make an initial, one-time Contribution in Aid of Construction payment of 50% of the installed cost of fixtures rated greater than 200 Watts and/or poles other than standard wood poles, to reduce the Company's installed cost. If a customer chooses this option, the monthly fixture and/or pole charge shall be computed as the reduced installed cost times the corresponding monthly percentage in 2.1.(a) and/or 2.11 above.
16. As an alternative to making an initial one-time CIAC payment to extend distribution facilities to render lighting service, as referenced in Special Provision No. 13, the customer may elect to pay a monthly fee of 1.59% of the calculated CIAC amount.

ISSUED BY: Javier J. Portuondo, Managing Director Rates & Regulatory Strategy – FL

EFFECTIVE: ~~May 8, 2018~~