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IURC 30-Day Filing No.: 50104
Indiana Utility Regulatory Commission

Vectren Corporation
One Vectren Square
Evansville, IN 47708

December 8, 2017

Ms. Mary M. Becerra
Secretary of the Commission
Indiana Utility Regulatory Commission
PNC Center
101 West Washington Street
Suite 1500E
Indianapolis, IN 46204

RE: Thirty Day Filing for Vectren South for Rate SL

Dear Ms. Becerra:

This filing is being made on behalf of Southern Indiana Gas and Electric Company d/b/a Vectren Energy Delivery of Indiana, Inc. ("Vectren South") under the Commission's Thirty-Day Administrative Filing Procedures and Guidelines (Guidelines) to request approval of the following modifications to the Vectren South Tariff for Electric Service:

1. RATE SL-1 STREET LIGHTING SERVICE:
 - a. Sheet No. 30, First Revised Page 2 of 4
 - b. Sheet No. 30, First Revised Page 3 of 4
 - c. Sheet No. 30, First Revised Page 4 of 4
2. RATE SL-2 ORNAMENTAL STREET LIGHTING SERVICE:
 - a. Sheet No. 31, First Revised Page 1 of 2
 - b. Sheet No. 31, First Revised Page 2 of 2
3. RATE SL-3 ORNAMENTAL STREET LIGHTING SERVICE:
 - a. Sheet No. 32, First Revised Page 1 of 2
 - b. Sheet No. 32, First Revised Page 2 of 2
4. RATE SL-5 EXPRESSWAY LIGHTING SERVICE:
 - a. Sheet No. 34, First Revised Page 1 of 3
 - b. Sheet No. 34, First Revised Page 2 of 3
 - c. Sheet No. 34, First Revised Page 3 of 3
5. RATE SL-7 ORNAMENTAL STREET LIGHTING SERVICE:
 - a. Sheet No. 36, First Revised Page 1 of 3
 - b. Sheet No. 36, First Revised Page 3 of 3
6. RATE SL-8 ORNAMENTAL STREET LIGHTING SERVICE:
 - a. Sheet No. 37, First Revised Page 1 of 2
 - b. Sheet No. 37, First Revised Page 2 of 2

Vectren South is making this filing to add to the existing Street Lighting Rate Schedules rates and charges for Light Emitting Diode (LED) infrastructure. Recent advances in LED technology and declining LED prices are making LED for street lighting an attractive alternative to existing street lighting options due to the potential customer and energy savings that could be achieved with more efficient light technology. Vectren South currently

owns and operates over 18,000 street lights for municipal governments in its service territory.

The predominant existing street lighting technology in use today is High Pressure Sodium (HPS) fixtures and bulbs. Vectren is utilizing its current HPS street light rates as a starting point to develop LED street lighting pricing, adjusting for the impact of new capital investments made under a normal replacement cycle (i.e., as lights fail and reach the end of their useful lives) and the expense savings that results with a longer-lived technology. When considering the energy savings, LED versus HPS annual customer impact analyses reflect a positive LED outcome when compared to HPS.

				Table 1		
Annual Customer Impact: HPS (existing Tariff) versus LED				HPS 100W/ LED 60W	HPS 200W/ LED 130W	HPS 400W/ LED 210W
			Exhibit			
Levelized	Incremental	LED	1B	\$10.42	\$15.62	\$41.67
Fixture Cost vs HPS						
O&M Savings			1C	(\$34.68)	(\$34.68)	(\$34.68)
Rate Change			1A, 4	(\$24.26)	(\$19.06)	\$6.99
Estimated Fuel and VPC			2	(\$10.81)	(\$19.81)	(\$48.63)
Savings						
Annual Customer Impact per				(\$35.07)	(\$38.87)	(\$41.64)
Light Fixture						

The attached exhibits contain the support for the proposed rates and charges for the LED technology. Base assumptions throughout the exhibits are identified under Notes 1 and 2. The assumptions coming directly from the books and records of Vectren's Energy Delivery Street Light Division are labeled as Note 1. Other assumptions come from Vectren South's Tariff and most recent general rate case, Cause No. 43839. Those assumptions are labeled as Note 2 and CN43839, respectively.

With the movement to LED fixtures and Vectren South's desire to restrict the installation of new non-LED lights, Vectren South is updating its tariff to reflect an end-date on its currently effective HPS rates to denote the planned phase-out of this technology in calendar year 2018. These rates will apply to existing HPS lights and fixtures until such time as they are replaced under a normal replacement cycle by LED technology. Vectren South will not replace existing functioning non-LED lights without a contractual agreement with the Customer which considers the reimbursement of associated costs.

This filing is an allowable request under the Guidelines because it is both a filing to change rules and regulations of the utility, and to implement rates and charges for new services.

Vectren South affirms that a notice regarding the filing in the form attached hereto will be published on December 8, 2017 in the *Evansville Courier & Press*, a newspaper of general circulation in Vanderburgh County, where the largest number of Vectren South's customers is located. Vectren South also affirms that the notice has been posted on its website. Vectren South does not have a local customer service office in which to post the notice.

Any questions concerning this submission should be directed to J. Cas Swiz, whose contact information is as follows:

J. Cas Swiz
Director, Rates & Regulatory Analysis
One Vectren Square
Evansville, IN 47708
Tel: 812-491-4033
Email: jcs wiz@vectren.com

The proposed tariff sheets will reflect an effective date consistent with the Commission's approval thereof.

Upon approval of the enclosed tariff sheets, please return one (1) file marked and approved copy of the tariff sheets to me for our files.

Please let me know if the Commission Staff has any questions or concerns about this submission.

Sincerely,



J. Cas Swiz

Enclosures

CC:

William Fine, Office of Utility Consumer Counselor

VERIFICATION

I, J. Cas Swiz, Director, Rates & Regulatory Analysis for Southern Indiana Gas and Electric Company d/b/a Vectren Energy Delivery of Indiana, Inc. (Vectren South), affirm under penalties of perjury that, in addition to the attached schedules, the foregoing representations concerning the notice attached hereto are true and correct to the best of my knowledge, information, and belief. The attached notice was published in a newspaper of general circulation encompassing the highest number of the utility's customers affected by the enclosed filing. The attached notice was also published on the Vectren.com website.



J. Cas Swiz

Date: 12/8/2017

LEGAL NOTICE

Notice is hereby given that on or about December 8, 2017, Southern Indiana Gas and Electric Company d/b/a Vectren Energy Delivery of Indiana, Inc. ("Vectren South") will file a request for approval of an update to the following sheets of Vectren South's Tariff for Electric Service:

Sheet No. 30, Rate SL-1 Street Lighting Service
Sheet No. 31, Rate SL-2 Ornamental Street Lighting Service (Post Top Lantern Type Luminaire)
Sheet No. 32, Rate SL-3 Ornamental Street Lighting Service (Contemporary Spherical)
Sheet No. 34, Rate SL-5 Expressway Lighting Service
Sheet No. 36, Rate SL-7 Ornamental Street Lighting Service (Turn of the Century)
Sheet No. 37, Rate SL-8 Ornamental Street Lighting Service (Post Top Lighting Service)

The requested modifications to the Street Lighting tariff sheets are related to offering LED (Light Emitting Diode) technology to applicable Municipal Corporation customers.

Vectren South anticipates approval of the filing in January 2018, but no sooner than 30 days after receipt of the filing by the Commission. Objections to the filing should be made in writing addressed to:

Mary M. Becerra
Secretary to the Commission
Indiana Utility Regulatory Commission
PNC Center
101 W. Washington Street, Suite 1500 East
Indianapolis, Indiana 46204

William Fine
Indiana Utility Consumer Counselor
Indiana Office of Utility Consumer Counselor
PNC Center
115 W. Washington St., Suite 1500 South
Indianapolis, Indiana 46204

Scott E. Albertson
Vice President, Regulatory Affairs and Gas Supply
VECTREN UTILITY HOLDINGS, INC.

LED Street Light Exhibits

Exhibit		
Rate Calculation		1 A
HPS/LED Revenue Requirement Fixture Cost		1 B
O&M Savings		1 C
Cost Benefit Savings		2
Marked Street Light Rate Schedules	14 pages	3
Clean Street Light Rate Schedules	14 pages	4

Vectren South
Street Lights - LED
Rate Calculation
Exhibit 1
Schedule A

<u>Line</u>	<u>Existing Tariff Rate</u>	<u>Pole Type</u>	<u>Bulb Count</u>	<u>Watts HPS</u>	<u>Watts LED</u>	<u>Current HPS Rate</u>	<u>Rate Change [24] to [26]</u>	<u>New LED Rate</u>
Overhead Construction								
[1]	SL-1	Wood	1	100	60	\$76.90	(\$24.26)	\$52.64
[2]	SL-1	Metal	1	100	60	\$125.49	(\$24.26)	\$101.23
[3]	SL-1	Metal	2	100	60	\$224.12	(\$48.52)	\$175.60
[4]	SL-1	Wood	1	200	130	\$127.04	(\$19.06)	\$107.98
[5]	SL-1	Metal	1	200	130	\$152.23	(\$19.06)	\$133.17
[6]	SL-1	Metal	2	200	130	\$261.79	(\$38.12)	\$223.67
[7]	SL-1	Wood	1	400	210	\$178.60	\$6.99	\$185.59
[8]	SL-1	Metal	1	400	210	\$232.55	\$6.99	\$239.54
[9]	SL-1	Metal	2	400	210	\$389.55	\$13.98	\$403.53
Underground Construction								
[10]	SL-1	Metal	1	100	60	\$136.29	(\$24.26)	\$112.03
[11]	SL-1	Metal	2	100	60	\$241.54	(\$48.52)	\$193.02
[12]	SL-1	Metal	1	200	130	\$233.12	(\$19.06)	\$214.06
[13]	SL-1	Metal	2	200	130	\$346.69	(\$38.12)	\$308.57
[14]	SL-1	Metal	1	200	130	\$287.05	(\$19.06)	\$267.99
[15]	SL-1	Metal	1	400	210	\$340.35	\$6.99	\$347.34
[16]	SL-1	Metal	2	400	210	\$464.97	\$13.98	\$478.95
Ornamental								
[17]	SL-2	Wood	1	100	60	\$77.87	(\$24.26)	\$53.61
Ornamental								
[18]	SL-3	Metal	1	200	130	\$209.77	(\$19.06)	\$190.71
Expressway Lighting Service								
[19]	SL-5	Metal	1	400	210	\$483.23	\$6.99	\$490.22
[20]	SL-5	Metal	2	400	210	\$651.78	\$13.98	\$665.76
[21]	SL-5	Metal	1	400	210	\$461.68	\$6.99	\$468.67
Ornamental								
[22]	SL-7	Metal	1	100	60	\$182.36	(\$24.26)	\$158.10
Ornamental								
[23]	SL-8	Metal	1	100	60	\$93.70	(\$24.26)	\$69.44
Net Fixed Charge Rate Change:				<u>Watts HPS</u>	<u>Watts LED</u>	<u>Bulb Cost Difference</u>	<u>Maint. Difference</u>	<u>Net Change</u>
						[31]	[40]	
[24]				100	60	\$10.42	(\$34.68)	(\$24.26)
[25]				200	130	\$15.62	(\$34.68)	(\$19.06)
[26]				400	210	\$41.67	(\$34.68)	\$6.99

Vectren South
Street Lights - LED
HPS/LED Revenue Requirement Fixture Cost
Exhibit 1
Schedule B

		HPS/LED 100/60	HPS/LED 200/130	HPS/LED 400/210
[27]	LED Cost (Note: 1)	[G] \$598.20	\$761.33	\$1,143.66
[28]	HPS Cost (Note: 1)	[G] \$522.95	\$648.55	\$842.81
[29]	Cost Difference	[27]-[28] \$75.25	\$112.78	\$300.85
[30]	Factor	-PMT([32],[33],1) 0.138	0.138	0.138
[31]	Revenue Requirement	[29]*[30] \$10.42	\$15.62	\$41.67

[32]	Pretax Capital Cost	- CN43839	[G]	10.37%
[33]	HPS/LED Fixture Life - years (Note: 1)		[G]	14

Note 1: Provided by Vectren's Energy Delivery Street Light Division

Vectren South
Street Lights - LED
O&M Savings
Exhibit 1
Schedule C

[34]	Annual Street Light O&M - CN43839	\$1,018,121	[G]
[35]	Street Light Count - CN43839	18,183	[G]
[36]		<u>\$56</u>	[34]/[35]
[37]	Percent O&M to replace bulbs (Note: 1)	<u>75%</u>	[G]
[38]	Bulb replacement O&M per year per fixture	<u>\$42</u>	[36]*[37]
[39]	Replacement savings	<u>83%</u>	[47]
[40]	O&M savings	<u><u>\$34.68</u></u>	[38]*[39]

[41]	Inflator	3%	[G]
[42]	Pretax Capital Cost	<u>10.37%</u>	[32]

[43]	One	100%	[G]
[44]	NPV LED \$56.05		NPV([42],[54]:[67])
[45]	NPV HPS <u>\$321.71</u>		NPV([42],[54]:[67])
[46]	LED as a percent of HPS	<u>17%</u>	[44]/[45]
[47]	Savings	<u><u>83%</u></u>	[43]-[46]

[48]	Bulb replacement O&M per year per fixture	<u>\$42</u>	[38]
[49]	Average HPS Bulb Life in years (Note: 1)	<u>3.75</u>	[G]
[50]	Cost to replace a Bulb	<u>\$157</u>	[48]*[49]
[51]	Bulb Cost within a fixture (Note: 1)	<u>(10)</u>	[G]
[52]	Cost to replace a Fixture without the Bulb	<u><u>\$147</u></u>	[50]+[51]

Bulb Replacement Schedule:

Year	LED	HPS	
[53]	<u>0</u>	<u>\$147</u>	[52]
[54]	1	0	
[55]	2	0	
[56]	3	0	
[57]	4	\$166	[53]*(1+[41])^[57]
[58]	5	0	
[59]	6	0	
[60]	7	0	
[61]	8	\$187	[53]*(1+[41])^[61]
[62]	9	0	
[63]	10	0	
[64]	11	\$204	[53]*(1+[41])^[64]
[65]	12	0	
[66]	13	0	
[67]	14	\$223	[53]*(1+[41])^[67]

Note 1: Provided by Vectren's Energy Delivery Street Light Division

Vectren South
Street Lights - LED
Cost/Benefit
Exhibit 2

		HPS 100/ LED 60	HPS 200/ LED 130	HPS 400/ LED 210
[68]	Tariff Rate Change	[24] (\$24.26)	(\$19.06)	\$6.99
[69]	Unbundled Fuel Savings	[77] (\$10.81)	(\$19.81)	(\$48.63)
[70]	Total Customer Annual Savings	[68]+[69] <u>(\$35.07)</u>	<u>(\$38.87)</u>	<u>(\$41.64)</u>

		HPS 100/LED 64	HPS 200/LED 125	HPS 400/LED 209
[71]	LED Watts (Note:1)	[G] 60	130	210
[72]	HPS with 20% ballast (Note: 1)	[G] <u>120</u>	<u>240</u>	<u>480</u>
[73]	Difference	[71]-[72] (60)	(110)	(270)
[74]	Annual Hours (Note: 2)	[G] <u>4,000</u>	<u>4,000</u>	<u>4,000</u>
[75]	kWh savings	[73]*[74] (240)	(440)	(1,080)
[76]	NPV Fuel Cost	[81] <u>\$0.045</u>	<u>\$0.045</u>	<u>\$0.045</u>
[77]	NPV Fuel savings	[75]*[76] <u>(\$10.81)</u>	<u>(\$19.81)</u>	<u>(\$48.63)</u>

[78]		\$0.039 Base Fuel (Note: 2)	
[79]		\$0.005 Variable Production Cost (Note: 2)	NPV
[80]	Year	<u>-\$0.006 Fuel Adjustment Clause (Note: 2)</u>	<u>Fuel Cost</u>
[81]	1	\$0.038 Total	<u>\$0.045</u> PMT([42],[94],-NPV([42],[81]:[94]))
[82]	2	\$0.040 [81]*(1+[41])^[82]	
[83]	3	\$0.041	
[84]	4	\$0.042	
[85]	5	\$0.044	
[86]	6	\$0.045	
[87]	7	\$0.046	
[88]	8	\$0.048	
[89]	9	\$0.049	
[90]	10	\$0.051	
[91]	11	\$0.052	
[92]	12	\$0.054	
[93]	13	\$0.055	
[94]	14	\$0.057	

Note 1: Provided by Vectren's Energy Delivery Street Light Division

Note 2: Vectren South Tariff

EXHIBIT 3

RATE SL-1
STREET LIGHTING SERVICE
(Continued)

(B) Series and/or Multiple Mercury Vapor Lamp Street Lighting Rates Limited to Lamps in Use and/or on order as of December 31, 1980.

<u>Overhead Construction</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Wood Poles</u>	<u>Metal Poles</u>
175 Watt (Approximately 8,000 Lumens)	\$ 67.88	\$ 116.43
Twin arm 175 Watt (Approximately 16,000 Lumens), maximum arm length 15' ... 180° mounting	-	\$ 206.32
250 Watt (Approximately 11,000 Lumens)	\$ 91.47	\$134.64
400 Watt (Approximately 20,000 Lumens)	\$105.74	\$126.10
Twin arm 400 Watt (Approximately 40,000 Lumens), maximum arm length 15' ... 180° mounting	-	\$221.73
1000 Watt (Approximately 54,000 Lumens)	\$116.75	\$170.75

<u>Underground Construction Where Breaking and Replacing Pavement and/or Sidewalk is Not Required</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Metal Poles</u>	
175 Watt (Approximately 8,000 Lumens)	\$127.44	
Twin arm 175 Watt (Approximately 16,000 Lumens), maximum arm length 15' ... 180° mounting	\$223.95	

(C) Series and/or Multiple High Pressure Sodium Street Lighting Rates
(~~Restricted to Lamps in use and/or on order as of ———December 31, 201—8~~)

<u>Overhead Construction</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Wood Poles</u>	<u>Metal Poles</u>
100 Watt (Approximately 8,000 Lumens)	\$76.90	\$125.49
Twin arm 100 Watt (Approximately 16,000 Lumens), maximum arm length 15' ... 180° mounting	-	\$224.12
150 Watt (Approximately 15,000 Lumens)	\$75.53	\$124.08
200 Watt (Approximately 20,000 Lumens)	\$127.04	\$152.23
Twin arm 200 Watt (Approximately 40,000 Lumens), maximum arm length 15' ... 180° mounting	-	\$261.79
400 Watt (Approximately 45,000 Lumens)	\$178.60	\$232.55
Twin arm 400 Watt (Approximately 90,000 Lumens)	-	\$389.55

Effective: ~~May 3, 2011~~

RATE SL-1
STREET LIGHTING SERVICE
(Continued)

<u>Underground Construction Where Breaking and Replacing Pavement and/or sidewalk is Not Required</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Metal Poles</u>	
100 Watt (Approximately 8,000 Lumens)	\$ 136.29	
Twin arm 100 Watt (Approximately 16,000 Lumens), Maximum arm length 15' ... 180° mounting	\$ 241.54	
200 Watt (Approximately 20,000 Lumens) (where direct burial cable and imbedded type pole is used)	\$ 233.12	
Twin arm 200 Watt (Approximately 40,000 Lumens), Maximum arm length 15' ... 180° mounting (where direct burial cable and imbedded type poles is used)	\$ 346.69	
200 Watt (Approximately 20,000 Lumens), (where conduit and anchor base pole is used)	\$ 287.04	
400 Watt (Approximately 45,000 Lumens),	\$ 340.35	
Twin arm 400 Watt (Approximately 90,000 Lumens)	\$ 464.97	

(D) Series and/or Light Emitting Diode (LED) Street Lighting Rates.

<u>Overhead Construction</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Wood Poles</u>	<u>Metal Poles</u>
<u>60</u> Watt (Approximately <u>5,500</u> Lumens)	<u>\$52.64</u>	<u>\$101.23</u>
Twin arm <u>60</u> Watt (Approximately <u>11,000</u> Lumens) maximum arm length 15' ... 180° mounting	-	<u>\$175.60</u>
<u>130</u> Watt (Approximately <u>15,000</u> Lumens)	<u>\$107.98</u>	<u>\$133.17</u>
Twin arm <u>130</u> Watt (Approximately <u>30,000</u> Lumens), maximum arm length 15' ... 180° mounting	-	<u>\$223.67</u>
<u>210</u> Watt (Approximately <u>24,000</u> Lumens)	<u>\$185.59</u>	<u>\$239.54</u>
Twin arm <u>210</u> Watt (Approximately <u>48,000</u> Lumens)	-	<u>\$403.53</u>

<u>Underground Construction Where Breaking and Replacing Pavement and/or sidewalk is Not Required</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Metal Poles</u>	
<u>60</u> Watt (Approximately <u>5,500</u> Lumens)	\$ <u>112.03</u>	
Twin arm <u>60</u> Watt (Approximately <u>11,000</u> Lumens), Maximum arm length 15' ... 180° mounting	\$ <u>193.02</u>	
<u>130</u> Watt (Approximately <u>15,000</u> Lumens) (where direct burial cable and imbedded type pole is used)	\$ <u>214.06</u>	
Twin arm <u>130</u> Watt (Approximately <u>30,000</u> Lumens), Maximum arm length 15' ... 180° mounting (where direct burial cable and imbedded type poles is used)	\$ <u>308.57</u>	
<u>130</u> Watt (Approximately <u>15,000</u> Lumens), (where conduit and anchor base pole is used)	\$ <u>267.99</u>	
<u>210</u> Watt (Approximately <u>24,000</u> Lumens),	\$ <u>347.34</u>	
Twin arm 400 Watt (Approximately <u>48,000</u> Lumens)	\$ <u>478.95</u>	

Effective: May 3, 2011

RATE SL-1
STREET LIGHTING SERVICE
(Continued)

In lieu of the annual rates herein set forth for underground service, Customer may elect to pay to Company prior to the installation of such underground service, the difference between the amount of investment required for the underground system and the amount required for a comparable overhead system. In the event Customer makes such election and payment, the rates herein provided for comparable overhead service shall apply.

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, a total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

Effective: ~~May 3, 2011~~

RATE SL-2
ORNAMENTAL STREET LIGHTING SERVICE
(Post Top Lantern Type Luminaire)

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule shall be applicable for ornamental street lighting service by Company to any Customer which is a Municipal Corporation, but restricted to use in groups for street lighting, in approved areas. This Rate Schedule is applicable only for post-top luminaires equipped with 175 Watt mercury vapor lamps, ~~or~~ 100 Watt high pressure sodium or 60 Watt LED lamps mounted on wood posts suitable for a mounting height of approximately 15 feet and supplied from underground conductor.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system, including posts, fixtures, street lighting circuits, transformers, luminaires and all appurtenances necessary to supply service hereunder. This service is limited to luminaire and post as approved by Company. Company will supply electric energy, replace lamps, repair and maintain all equipment.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charges:

(Payable in twelve (12) equal monthly payments)

<u>Underground Construction</u>	<u>Annual Facilities Charge Per Fixture</u>
175 Watt (Approximately 8,000 Lumens) Mercury Vapor Lamps – Wood Post (Restricted to Lamps in use as of October 6, 1983)	\$68.84
100 Watt (Approximately 8,000 Lumens) High Pressure Sodium Lamp – Wood Post <u>(Restricted to Lamps in use as of December 31, _____, 201–8)</u>	\$77.87
<u>60 Watt (Approximately 5,500 Lumens)</u> <u>Light Emitting Diode (LED) Lamps – Wood Post</u>	<u>\$53.61</u>

This Rate Schedule is restricted to the installation at Company expense of not more than an average of 50 feet of underground feeder per luminaire. Under this Rate Schedule, Company will not be required at its expense to break and replace or to bore under pavement and/or sidewalk. Customer will pay to Company in advance of installation the estimated installed cost of all underground feeder in excess of an average of 50 feet per luminaire and the estimated cost of breaking, replacing, and for boring under pavement and/or sidewalk. The average length of underground feeder per luminaire shall be determined by dividing the total length of underground feeder installed by the number of luminaires installed pursuant to any one request order.

Effective: ~~May 3, 2011~~

RATE SL-2
ORNAMENTAL STREET LIGHTING SERVICE
(Post Top Lantern Type Luminaire)
(Continued)

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, a total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

Effective: ~~May 3, 2011~~

RATE SL-3
ORNAMENTAL STREET LIGHTING SERVICE
(Contemporary Spherical)

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule is applicable for ornamental street lighting service by Company to any Customer which is a Municipal Corporation, but is restricted to use in groups for street lighting, in approved areas. This Rate Schedule is available only for post-top luminaires equipped with high pressure sodium or LED lamps, on metal posts suitable for underground conductor.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system, including posts, fixtures, street lighting circuits, transformers, luminaires and all appurtenances necessary to supply service hereunder. This service is limited to luminaire and post as approved by Company. Company will supply electric energy, replace lamps, repair and maintain all equipment.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charge:

(Payable in twelve (12) equal monthly payments)

Underground Construction – Steel Post

200 Watt high pressure sodium lamp enclosed in approximately
28" diameter sphere mounted on 10' steel pole

(Restricted to Lamps in use as of December 31_____, 201–8)

Annual Facilities Charge
Per Fixture

\$209.77

130 Watt Light Emitting Diode (LED) lamp enclosed in approximately

28" diameter sphere mounted on 10' steel pole

\$190.71

This Rate Schedule is restricted to installation at Company expense of not more than an average of 45' of underground feeder per unit. Under this Rate Schedule, Company will not be required at its expense to break and replace concrete or to bore under pavement and/or sidewalk. Customer will pay to Company in advance of installation the estimated cost of all underground feeder in excess of an average of 45' per unit and the estimated cost of breaking, replacing, and boring under pavement and/or sidewalk. The average length of the underground feeder per unit shall be determined by dividing the total length of underground feeder necessary for installation by the number of units installed pursuant to any one request order.

Effective: ~~May 3, 2011~~

RATE SL-3
ORNAMENTAL STREET LIGHTING SERVICE
(Contemporary Spherical)
(Continued)

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, a total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

Effective: ~~May 3, 2011~~

RATE SL-5 **EXPRESSWAY LIGHTING SERVICE**

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule shall be applicable for expressway lighting service by Company to any Customer which is a Municipal Corporation.

This Rate Schedule is available only for luminaries equipped with mercury vapor, ~~and/or~~ high pressure sodium or LED lamps, on metal poles of extra height suitable for underground conductor.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system including poles, fixtures, street lighting circuits, transformers, luminaires and all appurtenances necessary to supply service hereunder. This service limited to luminaire and poles as approved by Company. Company will supply electric energy, replace lamps, repair and maintain all equipment.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charge:

(Payable in twelve (12) equal monthly payments)

(A) Mercury Vapor Street Lighting Rates Limited to Lamps In Use and/or On Order as of December 31, 1981.

	<u>Annual Facilities</u> <u>Charge Per Fixture</u>
<u>Underground Construction – Metal Pole</u>	
1,000 Watt mercury vapor lamp and fixture with an approximate 40 foot mounting height (Frangible Construction)	\$420.54
1,000 Watt mercury vapor lamp and fixture with an approximate 40 foot mounting height (Non-Frangible Construction)	\$398.97

(B) High Pressure Sodium Street Lighting Rates

~~(Restricted to Lamps in use as of -December 31——, 201–8)~~

<u>Underground Construction – Metal Poles</u>	
400 Watt high pressure sodium lamp and fixture with an approximate 40 foot mounting height (Frangible Construction)	\$483.23

Effective: ~~May 3, 2011~~

RATE SL-5
EXPRESSWAY LIGHTING SERVICE
(Continued)

Twin 400 Watt high pressure sodium lamps and fixtures with an approximate 40 foot mounting height (Frangible Construction)	\$651.78
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400 Watt high pressure sodium lamp and fixture with an approximate 40 foot mounting height (Non-Frangible Construction)	\$461.68
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(C) Light Emitting Diode (LED) Street Lighting Rates

Underground Construction – Metal Poles

<u>210</u> Watt <u>LED</u> lamp and fixture with an approximate 40 foot mounting height (Frangible Construction)	\$ <u>490.22</u>
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Twin <u>210</u> Watt <u>LED</u> lamps and fixtures with an approximate 40 foot mounting height (Frangible Construction)	\$ <u>665.76</u>
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<u>210</u> Watt <u>LED</u> lamp and fixture with an approximate 40 foot mounting height (Non-Frangible Construction)	\$ <u>468.67</u>
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This Rate Schedule is restricted to installation at Company expense of not more than an average of 175 feet of underground feeder per unit. Under this Rate Schedule, Company will not be required at its expense to break and replace concrete or to bore under pavement and/or sidewalk. Customer will pay to Company in advance of installation the estimated cost of all underground feeder in excess of an average of 175 feet per unit and the estimated cost of breaking, replacing, and boring under pavement and/or sidewalk. The average length of the underground feeder per unit shall be determined by dividing the total length of underground feeder necessary for installation by the number of units installed pursuant to any one request order.

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

Effective: ~~May 3, 2011~~

RATE SL-5
EXPRESSWAY LIGHTING SERVICE
(Continued)

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, the total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

Effective: ~~May 3, 2011~~

RATE SL-7
ORNAMENTAL STREET LIGHTING SERVICE
(Turn of the Century)

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule shall be applicable for ornamental street lighting service by Company to any Customer which is a Municipal Corporation, but restricted to use in groups for street lighting, in specified areas that are approved by Company. This Rate Schedule is available only for post-top luminaires equipped with mercury vapor lamps, ~~or~~ high pressure sodium or LED lamps, on metal posts suitable for underground conductor in which Customer has made a contribution in aid of construction in the amount of the material cost of the posts and fixtures.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system, including posts, luminaires, wiring, and all other appurtenances to supply service hereunder, except Customer will furnish and install the anchor bases, grounding systems, conduits and handholds as specified by Company. This service is limited to luminaire and post as approved by Company. Company will supply electric energy, replace lamps, and repair and maintain all equipment unless otherwise agreed to by the parties.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charge:

(Payable in twelve (12) equal monthly payments)

<u>Underground Construction – Metal Post</u>	<u>Annual Facilities Charge</u> <u>Per Fixture</u>
100 Watt high pressure sodium lamp post top fixture on 12.5' steel post with cast iron ornamental top and base <u>(Restricted to Lamps in use as of December 31—, 201–8)</u>	\$182.36
<u>60 Watt Light Emitting Diode (LED) lamp post top fixture</u> <u>on 16' steel post with aluminum ornamental top and base</u>	<u>\$158.10</u>

Effective: ~~May 3, 2011~~

RATE SL-7
ORNAMENTAL STREET LIGHTING SERVICE
(Turn of the Century)
(Continued)

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

Effective: ~~May 3, 2011~~

RATE SL-8
ORNAMENTAL STREET LIGHTING SERVICE
(Post Top Lighting Service)

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule shall be applicable for ornamental street lighting service by Company to any Customer which is a Municipal Corporation, but restricted to use in groups for street lighting, in specified areas that are approved by Company. This Rate Schedule is available only for post-top luminaires equipped with high pressure sodium ~~or LED~~ lamps, on fiberglass posts suitable for underground conductor in which Customer has made a contribution in aid of construction in an amount that will limit the installed cost to Company to the amount included in the rate (\$400).

Customers other than a Municipal Corporation may be required to provide evidence of creditworthiness suitable to Company.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system, including posts, luminaires, wiring, and all other appurtenances to supply service hereunder. This service is limited to luminaire and post as approved by Company. Company will supply electric energy, replace lamps, and repair and maintain all equipment unless otherwise agreed to by the parties.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charges:

(Payable in twelve (12) equal monthly payments)

<u>Underground Construction with Fiberglass Poles</u>	<u>Annual Facilities Charge</u>
<u>100 Watt high pressure sodium (8,000 lumen)</u>	<u>Per Fixture</u>
<u>(Restricted to Lamps in use as of December 31, _____, 201-8)</u>	<u>\$93.70</u>
<u>60 Watt Light Emitting Diode (LED) (5,500 lumen)</u>	<u>\$69.44</u>

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Effective: ~~May 3, 2011~~

RATE SL-8
ORNAMENTAL STREET LIGHTING SERVICE
(Post Top Lighting Service)
(Continued)

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, a total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

The Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of costs associated with replacement facilities.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

EXHIBIT 4

RATE SL-1
STREET LIGHTING SERVICE
 (Continued)

(B) Series and/or Multiple Mercury Vapor Lamp Street Lighting Rates Limited to
 Lamps in Use and/or on order as of December 31, 1980.

<u>Overhead Construction</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Wood Poles</u>	<u>Metal Poles</u>
175 Watt (Approximately 8,000 Lumens)	\$ 67.88	\$ 116.43
Twin arm 175 Watt (Approximately 16,000 Lumens), maximum arm length 15' ... 180° mounting	-	\$ 206.32
250 Watt (Approximately 11,000 Lumens)	\$ 91.47	\$134.64
400 Watt (Approximately 20,000 Lumens)	\$105.74	\$126.10
Twin arm 400 Watt (Approximately 40,000 Lumens), maximum arm length 15' ... 180° mounting	-	\$221.73
1000 Watt (Approximately 54,000 Lumens)	\$116.75	\$170.75

<u>Underground Construction Where Breaking and Replacing Pavement and/or Sidewalk is Not Required</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Metal Poles</u>	
175 Watt (Approximately 8,000 Lumens)	\$127.44	
Twin arm 175 Watt (Approximately 16,000 Lumens), maximum arm length 15' ... 180° mounting	\$223.95	

(C) Series and/or Multiple High Pressure Sodium Street Lighting Rates
 (Restricted to Lamps in use and/or on order as of December 31, 2018)

<u>Overhead Construction</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Wood Poles</u>	<u>Metal Poles</u>
100 Watt (Approximately 8,000 Lumens)	\$76.90	\$125.49
Twin arm 100 Watt (Approximately 16,000 Lumens) maximum arm length 15' ... 180° mounting	-	\$224.12
150 Watt (Approximately 15,000 Lumens)	\$75.53	\$124.08
200 Watt (Approximately 20,000 Lumens)	\$127.04	\$152.23
Twin arm 200 Watt (Approximately 40,000 Lumens), maximum arm length 15' ... 180° mounting	-	\$261.79
400 Watt (Approximately 45,000 Lumens)	\$178.60	\$232.55
Twin arm 400 Watt (Approximately 90,000 Lumens)	-	\$389.55

Effective:

RATE SL-1 **STREET LIGHTING SERVICE**

(Continued)

<u>Underground Construction Where Breaking and Replacing Pavement and/or sidewalk is Not Required</u>	<u>Annual Facilities Charge Per Fixture</u>
	<u>Metal Poles</u>
100 Watt (Approximately 8,000 Lumens)	\$ 136.29
Twin arm 100 Watt (Approximately 16,000 Lumens), Maximum arm length 15' ... 180° mounting	\$ 241.54
200 Watt (Approximately 20,000 Lumens) (where direct burial cable and imbedded type pole is used)	\$ 233.12
Twin arm 200 Watt (Approximately 40,000 Lumens), Maximum arm length 15' ... 180° mounting (where direct burial cable and imbedded type poles is used)	\$ 346.69
200 Watt (Approximately 20,000 Lumens), (where conduit and anchor base pole is used)	\$ 287.04
400 Watt (Approximately 45,000 Lumens),	\$ 340.35
Twin arm 400 Watt (Approximately 90,000 Lumens)	\$ 464.97

(D) Series and/or Light Emitting Diode (LED) Street Lighting Rates.

<u>Overhead Construction</u>	<u>Annual Facilities Charge Per Fixture</u>	
	<u>Wood Poles</u>	<u>Metal Poles</u>
60 Watt (Approximately 5,500 Lumens)	\$52.64	\$101.23
Twin arm 60 Watt (Approximately 11,000 Lumens) maximum arm length 15' ... 180° mounting	-	\$175.60
130 Watt (Approximately 15,000 Lumens)	\$107.98	\$133.17
Twin arm 130 Watt (Approximately 30,000 Lumens), maximum arm length 15' ... 180° mounting	-	\$223.67
210 Watt (Approximately 24,000 Lumens)	\$185.59	\$239.54
Twin arm 210 Watt (Approximately 48,000 Lumens)	-	\$403.53

<u>Underground Construction Where Breaking and Replacing Pavement and/or sidewalk is Not Required</u>	<u>Annual Facilities Charge Per Fixture</u>
	<u>Metal Poles</u>
60 Watt (Approximately 5,500 Lumens)	\$ 112.03
Twin arm 60 Watt (Approximately 11,000 Lumens), Maximum arm length 15' ... 180° mounting	\$ 193.02
130 Watt (Approximately 15,000 Lumens) (where direct burial cable and imbedded type pole is used)	\$ 214.06
Twin arm 130 Watt (Approximately 30,000 Lumens), Maximum arm length 15' ... 180° mounting (where direct burial cable and imbedded type poles is used)	\$ 308.57
130 Watt (Approximately 15,000 Lumens), (where conduit and anchor base pole is used)	\$ 267.99
210 Watt (Approximately 24,000 Lumens),	\$ 347.34
Twin arm 400 Watt (Approximately 48,000 Lumens)	\$ 478.95

Effective:

RATE SL-1
STREET LIGHTING SERVICE
(Continued)

In lieu of the annual rates herein set forth for underground service, Customer may elect to pay to Company prior to the installation of such underground service, the difference between the amount of investment required for the underground system and the amount required for a comparable overhead system. In the event Customer makes such election and payment, the rates herein provided for comparable overhead service shall apply.

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, a total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

Effective:

RATE SL-2
ORNAMENTAL STREET LIGHTING SERVICE
(Post Top Lantern Type Luminaire)

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule shall be applicable for ornamental street lighting service by Company to any Customer which is a Municipal Corporation, but restricted to use in groups for street lighting, in approved areas. This Rate Schedule is applicable only for post-top luminaires equipped with 175 Watt mercury vapor lamps, 100 Watt high pressure sodium or 60 Watt LED lamps mounted on wood posts suitable for a mounting height of approximately 15 feet and supplied from underground conductor.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system, including posts, fixtures, street lighting circuits, transformers, luminaires and all appurtenances necessary to supply service hereunder. This service is limited to luminaire and post as approved by Company. Company will supply electric energy, replace lamps, repair and maintain all equipment.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charges:

(Payable in twelve (12) equal monthly payments)

<u>Underground Construction</u>	<u>Annual Facilities Charge</u> <u>Per Fixture</u>
175 Watt (Approximately 8,000 Lumens) Mercury Vapor Lamps – Wood Post (Restricted to Lamps in use as of October 6, 1983)	\$68.84
100 Watt (Approximately 8,000 Lumens) High Pressure Sodium Lamp – Wood Post (Restricted to Lamps in use as of December 31, 2018)	\$77.87
60 Watt (Approximately 5,500 Lumens) Light Emitting Diode (LED) Lamps – Wood Post	\$53.61

This Rate Schedule is restricted to the installation at Company expense of not more than an average of 50 feet of underground feeder per luminaire. Under this Rate Schedule, Company will not be required at its expense to break and replace or to bore under pavement and/or sidewalk. Customer will pay to Company in advance of installation the estimated installed cost of all underground feeder in excess of an average of 50 feet per luminaire and the estimated cost of breaking, replacing, and for boring under pavement and/or sidewalk. The average length of underground feeder per luminaire shall be determined by dividing the total length of underground feeder installed by the number of luminaires installed pursuant to any one request order.

Effective:

RATE SL-2
ORNAMENTAL STREET LIGHTING SERVICE
(Post Top Lantern Type Luminaire)
(Continued)

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, a total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

Effective:

RATE SL-3
ORNAMENTAL STREET LIGHTING SERVICE
(Contemporary Spherical)

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule is applicable for ornamental street lighting service by Company to any Customer which is a Municipal Corporation, but is restricted to use in groups for street lighting, in approved areas. This Rate Schedule is available only for post-top luminaires equipped with high pressure sodium or LED lamps, on metal posts suitable for underground conductor.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system, including posts, fixtures, street lighting circuits, transformers, luminaires and all appurtenances necessary to supply service hereunder. This service is limited to luminaire and post as approved by Company. Company will supply electric energy, replace lamps, repair and maintain all equipment.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charge:

(Payable in twelve (12) equal monthly payments)

	<u>Annual Facilities Charge</u> <u>Per Fixture</u>
<u>Underground Construction – Steel Post</u>	
200 Watt high pressure sodium lamp enclosed in approximately 28" diameter sphere mounted on 10' steel pole (Restricted to Lamps in use as of December 31, 2018)	\$209.77
130 Watt Light Emitting Diode (LED) lamp enclosed in approximately 28" diameter sphere mounted on 10' steel pole	\$190.71

This Rate Schedule is restricted to installation at Company expense of not more than an average of 45' of underground feeder per unit. Under this Rate Schedule, Company will not be required at its expense to break and replace concrete or to bore under pavement and/or sidewalk. Customer will pay to Company in advance of installation the estimated cost of all underground feeder in excess of an average of 45' per unit and the estimated cost of breaking, replacing, and boring under pavement and/or sidewalk. The average length of the underground feeder per unit shall be determined by dividing the total length of underground feeder necessary for installation by the number of units installed pursuant to any one request order.

Effective:

RATE SL-3
ORNAMENTAL STREET LIGHTING SERVICE
(Contemporary Spherical)

(Continued)

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, a total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

Effective:

RATE SL-5 **EXPRESSWAY LIGHTING SERVICE**

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule shall be applicable for expressway lighting service by Company to any Customer which is a Municipal Corporation.

This Rate Schedule is available only for luminaries equipped with mercury vapor, high pressure sodium or LED lamps, on metal poles of extra height suitable for underground conductor.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system including poles, fixtures, street lighting circuits, transformers, luminaires and all appurtenances necessary to supply service hereunder. This service limited to luminaire and poles as approved by Company. Company will supply electric energy, replace lamps, repair and maintain all equipment.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charge:

(Payable in twelve (12) equal monthly payments)

(A) Mercury Vapor Street Lighting Rates Limited to Lamps In Use and/or On Order as of December 31, 1981.

	<u>Annual Facilities Charge Per Fixture</u>
<u>Underground Construction – Metal Pole</u>	
1,000 Watt mercury vapor lamp and fixture with an approximate 40 foot mounting height (Frangible Construction)	\$420.54
1,000 Watt mercury vapor lamp and fixture with an approximate 40 foot mounting height (Non-Frangible Construction)	\$398.97

(B) High Pressure Sodium Street Lighting Rates
(Restricted to Lamps in use as of December 31, 2018)

<u>Underground Construction – Metal Poles</u>	
400 Watt high pressure sodium lamp and fixture with an approximate 40 foot mounting height (Frangible Construction)	\$483.23

Effective:

RATE SL-5
EXPRESSWAY LIGHTING SERVICE
(Continued)

Twin 400 Watt high pressure sodium lamps and fixtures with an approximate 40 foot mounting height (Frangible Construction)	\$651.78
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400 Watt high pressure sodium lamp and fixture with an approximate 40 foot mounting height (Non-Frangible Construction)	\$461.68
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(C) Light Emitting Diode (LED) Street Lighting Rates

Underground Construction – Metal Poles

210 Watt LED lamp and fixture with an approximate 40 foot mounting height (Frangible Construction)	\$490.22
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Twin 210 Watt LED lamps and fixtures with an approximate 40 foot mounting height (Frangible Construction)	\$665.76
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210 Watt LED lamp and fixture with an approximate 40 foot mounting height (Non-Frangible Construction)	\$468.67
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This Rate Schedule is restricted to installation at Company expense of not more than an average of 175 feet of underground feeder per unit. Under this Rate Schedule, Company will not be required at its expense to break and replace concrete or to bore under pavement and/or sidewalk. Customer will pay to Company in advance of installation the estimated cost of all underground feeder in excess of an average of 175 feet per unit and the estimated cost of breaking, replacing, and boring under pavement and/or sidewalk. The average length of the underground feeder per unit shall be determined by dividing the total length of underground feeder necessary for installation by the number of units installed pursuant to any one request order.

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

Effective:

RATE SL-5
EXPRESSWAY LIGHTING SERVICE
(Continued)

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, the total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

RATE SL-7
ORNAMENTAL STREET LIGHTING SERVICE
(Turn of the Century)

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule shall be applicable for ornamental street lighting service by Company to any Customer which is a Municipal Corporation, but restricted to use in groups for street lighting, in specified areas that are approved by Company. This Rate Schedule is available only for post-top luminaires equipped with mercury vapor lamps, high pressure sodium or LED lamps, on metal posts suitable for underground conductor in which Customer has made a contribution in aid of construction in the amount of the material cost of the posts and fixtures.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system, including posts, luminaires, wiring, and all other appurtenances to supply service hereunder, except Customer will furnish and install the anchor bases, grounding systems, conduits and handholds as specified by Company. This service is limited to luminaire and post as approved by Company. Company will supply electric energy, replace lamps, and repair and maintain all equipment unless otherwise agreed to by the parties.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charge:

(Payable in twelve (12) equal monthly payments)

<u>Underground Construction – Metal Post</u>	<u>Annual Facilities Charge Per Fixture</u>
100 Watt high pressure sodium lamp post top fixture on 12.5' steel post with cast iron ornamental top and base (Restricted to Lamps in use as of December 31, 2018)	\$182.36
60 Watt Light Emitting Diode (LED) lamp post top fixture on 16' steel post with aluminum ornamental top and base	\$158.10

Effective:

RATE SL-7
ORNAMENTAL STREET LIGHTING SERVICE
(Turn of the Century)
(Continued)

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of associated costs.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.

RATE SL-8
ORNAMENTAL STREET LIGHTING SERVICE
(Post Top Lighting Service)

AVAILABILITY

This Rate Schedule shall be available throughout Company's Service Area, subject to the availability of adequate facilities and power supplies, which determinations shall be within Company's reasonable discretion.

APPLICABILITY

This Rate Schedule shall be applicable for ornamental street lighting service by Company to any Customer which is a Municipal Corporation, but restricted to use in groups for street lighting, in specified areas that are approved by Company. This Rate Schedule is available only for post-top luminaires equipped with high pressure sodium or LED lamps, on fiberglass posts suitable for underground conductor in which Customer has made a contribution in aid of construction in an amount that will limit the installed cost to Company to the amount included in the rate (\$400).

Customers other than a Municipal Corporation may be required to provide evidence of creditworthiness suitable to Company.

CHARACTER OF SERVICE

Company will furnish, install, own and operate all equipment comprising the street lighting system, including posts, luminaires, wiring, and all other appurtenances to supply service hereunder. This service is limited to luminaire and post as approved by Company. Company will supply electric energy, replace lamps, and repair and maintain all equipment unless otherwise agreed to by the parties.

Service rendered hereunder is predicated upon the execution by Customer of a suitable agreement specifying the terms and conditions under which street lighting service will be provided by Company.

RATES AND CHARGES

Annual Facilities Charges:

(Payable in twelve (12) equal monthly payments)

<u>Underground Construction with Fiberglass Poles</u>	<u>Annual Facilities Charge</u>
<u>100 Watt high pressure sodium (8,000 lumen)</u>	<u>Per Fixture</u>
(Restricted to Lamps in use as of December 31, 2018)	\$93.70
60 Watt Light Emitting Diode (LED) (5,500 lumen)	\$69.44

Fuel Charge:

\$0.03889 per kWh per month determined based on Hours of Use

Variable Production Charge:

\$0.00475 per kWh per month determined based on Hours of Use

Minimum Monthly Charge:

The Minimum Monthly Charge shall be the sum of one-twelfth of the applicable Annual Facilities Charges for all Street Lights installed for Customer.

Effective:

RATE SL-8
ORNAMENTAL STREET LIGHTING SERVICE
(Post Top Lighting Service)
(Continued)

Adjustments:

The following Adjustments shall be applied monthly to kWh determined based on Hours of Use:

- Appendix A – Fuel Adjustment Clause

Other Charges:

The Other Charges set forth in Appendix D shall be charged to Customer, if applicable.

PAYMENT

Bills are payable monthly on or before the fifteenth day of the month following the calendar month during which service was supplied.

HOURS OF USE

Service shall extend from approximately one-half hour after sunset until one-half hour before sunrise, each and every night of the year, a total of approximately 4,000 hours each year.

CONTRACT

For service hereunder, a written Contract is required for an initial term of not less than ten (10) years or for a longer period where unusual expenditures by Company may be necessary to provide service, and such Contract shall continue for annual successive terms unless cancelled. The Contract may be cancelled by either party by providing written notice to the other party not less than one (1) year prior to the date of termination.

The Company will not replace functioning fixtures with new facilities at the request of Customer without specific Contract terms or addendums addressing the reimbursement of costs associated with replacement facilities.

TERMS AND CONDITIONS OF SERVICE

Service under this Rate Schedule shall be governed by Company's General Terms and Conditions and the Commission's Regulations.