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April 28, 2014

VIA ELECTRONIC FILING

Gail L. Mount
Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4325

Re: Petition for Approval to Revise Outdoor Lighting Schedules - Area Lighting Service Schedule ALS, Street Lighting Service Schedule SLS and Street Lighting Service (Residential Subdivisions and Neighborhoods) Schedule SL
Docket No. E-2, Sub 1041

Dear Ms. Mount:

Enclosed for filing in connection with the referenced matter are Duke Energy Progress, Inc.'s ("DEP" or the "Company") revised Area Lighting Service Schedule ALS-26A, Street Lighting Service Schedule SLS-26A, and Street Lighting Service (Residential Subdivisions and Neighborhoods) Schedule SLR-26A (attached as Exhibits 1-3). These schedules are being revised to enhance the deployment of Light Emitting Diode ("LED") technology and to support the Company's Lighting Modernization Program as it relates to the phase-out of mercury vapor ("MV") lighting fixtures. The major components of this Petition, if approved, are (1) the Company will begin replacing MV fixtures and luminaires with LED technology at no additional cost to the customer; in fact, many if not all customers will see a price decrease as a result of the replacements;¹ (2) the Company will begin replacing 5,800 lumen sodium vapor fixtures with LED technology upon failure of the ballast, lamp, photocell or fixture, which may result in a price increase to customers; and (3) the Company will close its current customer-owned LED option included in Schedule SLS to future subscription now that the Company is embarking on a utility-scale LED offering for customers. DEP plans to continue—service unchanged—under the tariff for customers who have previously subscribed and installed LED lights pursuant to this option, as well as for customers who have current installations underway and documented with

¹ There could be a charge if the customer requests a MV replacement prior to the Company's automated replacement effort if the contract term hasn't been fulfilled or earlier than 20 years under Schedule SLS.

the Company prior to this filing; and (4) the Company will include new and additional LED options in the enclosed tariffs.

Also, in February 2014, the Company communicated its intentions for its Lighting Modernization Plan described herein with the League of Municipalities, and also held a municipal forum in February in which the Company invited cities in Duke Energy Progress service territory. Through those interactions, the Company explained not only plans for this filing, but the direction of the Company's Lighting Modernization Plan, plus many other issues surrounding lighting, including new fixture options, future potential capabilities and outage reporting.

MV Phase-Out

In its July 12, 2007 *Order Approving Area and Street Lighting Rate Revisions* in the above-referenced docket, the North Carolina Utilities Commission ("the Commission") approved changes to the Company's lighting schedules to restrict the future installation of MV lighting and to allow DEP to automatically replace MV fixtures at such time that the ballast or fixture failed to operate. This action was in response to the Energy Policy Act of 2005 which required effective January 1, 2008 that MV ballasts not be manufactured or imported in the United States. (42 USCS § 6295 (2005)). The Company's current approach slowly phases out MV lighting.

The Company believes it is undisputed within the industry that MV fixtures and lights are rapidly approaching obsolescence, both from a legal point of view and from a practical point of view. In either case, given that over a quarter of outdoor lights on the Company's system are MV, this is of concern to the Company. From a legal point of view, this path toward obsolescence began in 2005, but since that time the United States Department of Energy ("DOE") has initiated a rulemaking process for all high-intensity discharge lamps.² It is expected that this rulemaking will result in efficiency standards that MV lamps will not be able to meet. The Company believes that this rulemaking indicates that the DOE's view is that MVs are no longer viable options. For example, slide 64 of a recent DOE presentation at a public meeting on April 12, 2013 in the previously mentioned rulemaking indicated that MVs won't even be available in the next couple of years (Exhibit 4).³ From a practical point of view, the MV lighting installed on the Company's system is nearing the end of its useful life and it is time to replace it. The average rated life of a MV lamp is 24,000 hours or about six years. MV lamps gradually dim until they eventually fail. The Company believes it will be more cost effective, and in customers' best interest, to deploy a full scale replacement by geographic regions, replacing MV lights with more modern and sustainable LED lighting which will consume less energy with improved illumination.

² http://www1.eere.energy.gov/buildings/appliance_standards/product.aspx/productid/60

³ <http://www.regulations.gov/#!documentDetail;D=EERE-2010-BT-STD-0043-0021>

The Company's Lighting Modernization Program fits squarely within Commission Rule R8-47(a) which urges utilities "to investigate new, more efficient lighting systems as they are developed and, where such systems are efficient and economical to the consumer, to request approval of newer systems as standard tariff items." (Requirements of Minimum Standard Offerings of Lighting Luminaires, 4 N.C.A.C. 11.R8-47). The Lighting Modernization Program targets proactive replacement of all MV and retrofit sodium vapor fixtures with more energy efficient fixtures at no charge to the customer beginning no later than third quarter 2014 with a goal of replacing these fixtures within approximately two years. Retrofit sodium vapor fixtures are MV fixtures that have been retrofitted to allow the installation of sodium vapor lamps. Commission Rule R8-47(d) further provides:

As newer, more efficient types of lighting sources become available and in substantial or predominant use, utilities will not be required to continue to offer the older, less efficient types of lighting for new service. Upon approval of the Commission, one or more sizes of the older types may be removed at one time from the schedule of offerings.

DEP requests that its policy be revised as described herein pursuant to Commission Rule R8-47(d) to require replacement of MV fixtures whenever the fixture becomes inoperable and requires service. This could involve failure of the ballast, fixture, photocell or lamp. Furthermore, enhanced availability of LED technology offers customers a more comparable "white light source" than sodium vapor at a comparable monthly rate; therefore, the default replacement fixtures are requested to be revised to require LED default replacements, provided a comparable LED fixture is available. When an LED fixture is not available, a sodium vapor fixture will be utilized.

If approved, the Company's new policy would allow replacement of MV fixtures at the customer's request, prioritized according to the Company's resources, whenever the light ceases operation, or as scheduled in the Company's two-year replacement efforts. The customer's monthly rate will be adjusted to reflect the new fixture at the time of replacement. Non-standard and custom design fixtures are not included in the Company's program and therefore will continue to only be replaced upon failure of the fixture. Schedules SLS, ALS and SLR are revised to reflect this new approach and the new default LED replacement fixtures.

Default Replacement of 5,800 Lumen Sodium Vapor Fixtures

In addition to the gradual replacement of MV fixtures, the Company also requests that the LED 50 fixture be designated as a default replacement for a 5,800 lumen sodium vapor fixture upon failure of the ballast, lamp, photocell or fixture. This fixture was closed to new applicants in the Company's recent rate case in Docket E-2, Sub 1023; therefore, the Company believes that efforts to slowly encourage its removal is appropriate.

Light Emitting Diode Technology – Fixture Rates

LED fixtures were first offered in DEP tariffs in 2010 and at that time were viewed as an emerging technology that had not yet been widely accepted within the utility industry. DEP worked closely with lighting manufacturers to improve the quality of their products, to develop fixture options that would meet customers' needs, to encourage lower fixture prices to be competitive with other light sources, and to develop "utility grade" fixtures suitable for long-term installation on utility systems. It was hoped that encouraging LED technology would result in better products at competitive prices in the future. DEP now recognizes that LED technology is no longer an emerging technology, but a current technology, and is now offered by most lighting manufacturers at prices that enable a beneficial replacement solution. The Company therefore believes it is no longer necessary to continue the pricing approaches it adopted in 2010 to mitigate risk associated with offering an emerging technology.

The Company requests that the existing rate option using a basic rate plus a variable monthly charge in both schedule ALS and SLS for roadway lighting be closed to new installations effective with approval of this request. This will impact the LED 75, LED 105 and LED 215 fixtures. This pricing approach is no longer necessary because the overall rate for these fixtures is now competitive with other light sources. Additionally, this pricing approach has caused confusion for customers because they can't find their total billing rate in the tariff since the monthly variable charge is established at the time the fixture is installed based upon current fixture purchase prices. For all other DEP non-LED fixtures, the entire monthly rate is clearly stated in the tariff thereby eliminating confusion. Schedules ALS and SLS are therefore requested to be revised to offer an "all-in" Basic Rate for the LED 75, LED 105 and LD 215 fixtures. The monthly rate will be the sum of the current tariff Basic Rate plus the current variable monthly charge which will allow the tariff rate to match the total billing rate stated on customer bills. The LED 205 Site Lighter, however, will continue to be offered using the variable approach, because the cost of this fixture has not yet declined sufficiently to be competitive with other light sources.

Additionally, these schedules are revised to make three new LED fixture options available to DEP's customers: LED 50, LED 150 and LED 280. This will result in offering an LED alternative to most of the existing sodium vapor roadway fixtures at a comparable monthly rate. The Company continues to study post-type and floodlight LED fixtures and hopes to offer these fixture types at a future date under the non-standard fixture provisions of the tariff, similar to the pricing structure retained for the LED 205 Site Lighter.

Light Emitting Diode Technology – Schedule SLS Customer-Ownership Option

The Company requests that the Customer-Ownership rate option included in Schedule SLS be closed to new installations as of the date of this filing. From the Company's point of view, the Customer-Ownership option is unique to LED fixtures and was offered at a time when LED technology was unproven and therefore created risk for other ratepayers if they failed to perform. LED technology has since experienced significant advancements in pricing, product warranty, color rendition, light distribution, energy efficiency and maintenance issues that indicate that it is now a mature technology that should therefore be viewed like all other light sources. Accordingly, the Company is proposing its utility-scale LED offering. While the Company was willing to voluntarily offer a customer-ownership rate option in years past, it is no longer needed or part of the Company's business and technology plans. First, the Company does not earn any return on the assets owned by the cities, and is obligated to provide operations and maintenance ("O&M") on those assets. Second, the Company was willing to propose, and support, this option during the last few years as it provided knowledge gain for the Company and enabled municipal customers to take advantage of low cost debt available to municipalities; however, that option has fulfilled its purpose. The Company's closing the option to future subscription does not shut the door on customer ownership, as municipal customers can purchase their own fixtures and the Company will meter the usage. However, the Company is no longer willing to provide O&M to assets it does not own, and believes at this time that it is most appropriate that the O&M responsibilities for the assets follow ownership of the asset.

The Company therefore requests that its Schedule SLS be revised to offer LED solely on a company-owned basis for new installations consistent with how all other outdoor lighting is offered, but current installations will be "grandfathered" (subject to applicable and appropriate rate adjustments) and projects currently submitted and planned with the Company as of the date of this filing will be honored. The Company believes that this is a reasonable path given that it has been communicating the termination of the customer owner option for over two months now, as well as the fact that the option has been available for four years with very little interest. All customers will continue to have the currently available option to own and install their own lighting system under an applicable metered general service schedule if they believe customer-owned lighting is beneficial.

Schedule ALS – Contract Term for LED Lighting

The Contract Term in Schedule ALS is currently 10 years for all LED fixtures. Since LED fixtures are now a standard option, the contract term is revised to support a one year, three year or five year contract term, depending upon the installation parameters. This matches the contract term offered for all other standard fixtures. The current 10-year contract term is retained

for the LED 205 Site Lighter fixture since it continues to bill a basic rate plus a variable monthly charge.

Schedule SLR – New LED Rate Option

Schedule SLR is applicable to neighborhoods and subdivisions where a monthly charge is paid by every resident for street light service. Currently, only a 9,500 lumen sodium vapor fixture is available for new installations. The Company requests that the schedule be revised to offer an LED 50 option for new installations. This fixture will be offered at a price below the current rate applicable to 7,000 lumen and 9,500 lumen fixtures to recognize the fixture's lower energy usage. As noted above, Schedule SLR is also revised to support the default replacement of 7,000 lumen MV fixtures with the LED 50, whenever a comparable fixture is available. The Schedule is also included in the Lighting Modernization Program which will replace existing MV fixtures over the next two years. The customer's rate will be reduced as MV fixtures are replaced with new LED technology.

No further changes are requested at this time. Enclosed is a copy of the revised Area Lighting Service Schedule ALS-26A, Street Lighting Service Schedule SLS-26A, and Street Lighting Service (Residential Subdivisions and Neighborhoods) Schedule SLR-26A as Exhibit Nos. 1, 2 and 3, respectively. DEP respectfully requests that the Commission approve this Petition and that these revised tariffs become effective on and after 30 days from filing subject to billing capability.

Please let me know, at your earliest convenience, if you have any questions regarding this matter.

Sincerely,

Heather Shirley Smith

Heather Shirley Smith

Enclosures

Copy: Robert Gillam, Public Staff (w/encl.)

Charlotte Mitchell, North Carolina League of Municipalities (w/encl.)

Duke Energy Progress, Inc.
(North Carolina Only)

L-3

AREA LIGHTING SERVICE
SCHEDULE ALS-26A

AVAILABILITY

This Schedule is available for service supplied in the lighting of outdoor areas, private streets, and private driveways by means of mercury vapor, metal halide, light emitting diode, and sodium vapor lighting units. Lighting units will be bracket-mounted on Company-owned poles, and the mercury vapor lamps will be color-corrected.

This Schedule is not available for the lighting of dedicated streets or highways.

SERVICE

Prior to installing area lighting facilities, Customer and Company must enter into an agreement for Area Lighting Service. The service supplied by Company will include the installation and operation, according to Company standards and requirements, of the area lighting units and will include the furnishing of electricity required for the illumination of the lamps from dusk to dawn. After Customer has notified Company that a lamp is not burning, Company will perform as soon as practicable, during regular working hours, the necessary maintenance to restore illumination. The lumen rating of the lighting units listed under the MONTHLY RATE indicates the class of lamp.

MONTHLY RATE

1. Overhead Service

Basic Rate: The basic rate per fixture defined below will be billed for installations of standard area lighting fixtures installed on Company's system distribution poles. The basic rate does not include the monthly charges for additional facilities, area lighting poles, underground service, Masterpiece Series Standard Facilities, or any contribution required under this Schedule.

	Monthly Charge Per Fixture	Monthly kWh Per Fixture
<u>Sodium Vapor Units</u>		
9,500 lumen	\$11.52	46
16,000 lumen	13.54	59
28,500 lumen	16.95	109
50,000 lumen	23.49	152
50,000 lumen flood	26.33	168
<u>Metal Halide Units</u>		
9,000 lumen	\$13.45	41
20,000 lumen	19.85	94
33,000 lumen	25.89	133
110,000 lumen	52.44	370
<u>Light Emitting Diode Units</u>		
LED 50	\$8.04	18
LED 75	8.27	25
LED 105	10.23	35
LED 150	13.27	54
LED 215	16.23	73
LED 280	18.64	101

	Monthly Charge Per Fixture	Monthly kWh Per Fixture
<u>Lighting Fixtures - No Longer Available to New Applicants</u>		
5,800 lumen ¹	\$ 7.23	29
7,000 lumen semi-enclosed (Mercury Vapor) ¹	9.26	69
7,000 lumen (Mercury Vapor) ¹	10.60	69
12,000 lumen (Retrofit Sodium Vapor) ¹	13.09	59
21,000 lumen (Mercury Vapor) ¹	17.20	149
21,000 lumen flood (Mercury Vapor) ¹	20.82	160
22,000 lumen (Sodium Vapor) ²	14.74	86
38,000 lumen (Retrofit Sodium Vapor) ¹	19.56	135
40,000 lumen (Metal Halide) ¹	27.37	160
60,000 lumen (Mercury Vapor) ¹	35.28	382
60,000 lumen flood (Mercury Vapor) ¹	38.04	382

¹ Not available for new installations. For all fixtures other than Masterpiece, non-standard, and customer design, upon failure of the lamp, photocell, fixture or ballast or earlier pursuant to Commission Rule R8-47, the fixture shall be replaced at no charge with a similar style fixture as shown in the table below and the monthly rate for the new fixture will apply. Mercury vapor fixtures shall also be replaced, prior to failure, upon Customer's request.

Restricted Lumen Classification	Default Replacement Classification*
5,800 lumen sodium vapor	LED 50
7,000 lumen MV	LED 50
21,000 lumen MV	LED 150
60,000 lumen MV	LED 280
12,000 lumen RSV	LED 50
38,000 lumen RSV	LED 215

* Whenever a comparable LED fixture is available, an LED fixture shall be installed; otherwise, the default fixture will be a comparable high pressure sodium source.

² Not available for new installations, except to existing customers for additional units of the same type on the same or contiguous property.

³ Not available for new installations, unless available in inventory. Upon failure of a 40,000 lumen fixture, it will be replaced at no charge with a similar style 33,000 lumen fixture and the monthly rate for the new fixture will apply.

II. Overhead Service to Light Emitting Diode (LED) Lighting

The rate per fixture defined below will be billed for installations of DEP-approved lighting fixtures installed on Company's system distribution poles. Upon notification by Customer that 35% or greater of the light emitting diodes contained within the fixture are not burning, Company will perform as soon as practicable, during regular working hours, the necessary maintenance to restore illumination. The rate does not include the monthly charges for additional facilities, special lighting poles or posts, underground service, or any contribution required under this Schedule.

LED Rate (Standard Option):

	Monthly Charge Per Fixture*	Monthly kWh Per Fixture
Fixture	Fixture*	Fixture
LED 75	\$6.42 ¹	25
LED 105	9.20 ¹	35
LED 215	13.54 ¹	73
LED 205 Site Lighter	13.59	69

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* In addition to the Rate, Customer shall pay a monthly charge of 1.3% times the cost* difference between the estimated installed cost of a ~~DEP~~-approved fixture and the LED fixture cost allowance for the stated lumen category in accordance with the ADDITIONAL FACILITIES paragraph below. The monthly charge shall not be less than zero.

~~¹ The LED 75, LED 105, and LED 215 are not available to new installations under the Standard Option effective (date of Commission's order).~~

III. Renewable Energy Portfolio Standard (REPS) Adjustment:

The monthly bill shall include a REPS Adjustment based upon the revenue classification:

Residential Classification -	\$0.20/month
Commercial/Governmental Classification -	\$8.10/month
Industrial/Public Authority Classification -	\$30.65/month

Upon written request, only one REPS Adjustment shall apply to each premise serving the same customer for all accounts of the same revenue classification. If a customer has accounts which serve in an auxiliary role to a main account on the same premise, no REPS charge should apply to the auxiliary accounts regardless of their revenue classification (see Annual Billing Adjustments Rider BA).

IV. Underground Service

For underground service, the monthly bill will be increased by \$3.48 per pole or, in lieu thereof, a one-time contribution of \$521.00 per pole. The monthly pole charge, if selected, may be terminated at any time upon payment by Customer of the one-time contribution. The monthly pole charge defined below will also be applicable to underground service.

V. Special Area Lighting Poles and Posts

A special area lighting pole or post is any Company-owned pole or post, except those installed under Additional Facilities Item IV. below, installed as a part of an area lighting system and on which no other Company overhead distribution facilities are installed except those necessary to provide service to an area lighting system or a pole or post installed as a part of a Company-owned underground area lighting system.

	Monthly Charge Per Pole or Post
Wood	\$2.12
Metal*, Fiberglass, or Post	5.03
12-Foot Smooth Concrete Post**	9.81
16-Foot Smooth Concrete Post**	10.79
Decorative Square Metal	10.79
13-Foot Fluted Concrete Post**	14.72
Decorative Aluminum 12-Foot Post	17.66
Decorative 35- or 39-Foot Tapered Metal Pole	28.04

* Metal will be installed in locations where fiberglass cannot be used as determined by Company.

** Concrete posts will not be available for new installations on and after August 1, 2007. Concrete posts or similar material posts, as determined by Company, will be offered in accordance with the Additional Facilities paragraph.

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V. Masterpiece Series Standard Facilities

Masterpiece Series Standard Facilities are deluxe decorative fixtures, posts, and brackets that are normally maintained in inventory by Company to meet the lighting needs of customers. The initial Contract Period for All Masterpiece Series facilities is 10 years. The MONTHLY RATE for Masterpiece Series Standard Facilities is as follows:

Masterpiece Series Fixtures: In addition to the MONTHLY RATE, Item I., for a 9,000 or 9,500 lumen fixture, Customer pays:

Masterpiece Series A Fixture	\$ 3.00
Masterpiece Series B Fixture	\$ 5.00

Masterpiece Series Decorative Posts:

Masterpiece Series A 12-Foot decorative metal post	\$17.66
Masterpiece Series A 16-Foot decorative metal post	\$21.58

Masterpiece Series Bracket:

Masterpiece Series A Twin Mounting Bracket	\$ 7.50
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ADDITIONAL FACILITIES

In addition to the MONTHLY RATE, Customer shall pay a monthly facilities charge when facilities are requested that exceed facilities normally supplied by Company to render lighting service. Customer shall pay a Monthly Facilities Charge of 1.3 percent of the estimated original installed cost of the Special Facilities. In lieu of the Monthly Facilities Charge of 1.3 percent, Customer may elect to make a nonrefundable contribution of the cost of the Special Facilities and shall pay a Monthly Facilities Charge of 0.5 percent of the estimated original installed cost of the special facilities thereafter, except as provided below. Special Facilities that are considered to be above normal include, but are not limited to, the following:

- I. Upon Company review and approval, multiple lighting fixtures may be installed per pole. Special facilities shall be considered as the estimated installed cost of the facilities necessary to serve the multiple fixture installation in excess of that normally required to provide standard area lighting service.
- II. Special facilities shall include any distribution transformer and/or primary conductor extension.
- III. For a work request installing an underground circuit, special facilities shall include any conductor length in excess of an average of 250 feet per span. Customer may elect to make a nonrefundable contribution of the estimated installed cost of an underground circuit deemed to be Special facilities without being required to pay a monthly facilities charge.
- IV. Special Facilities shall include special nonstandard poles and posts not listed above in MONTHLY RATE.
- V. For nonstandard fixtures not included in the MONTHLY RATE provision above, the monthly charge will be the charge in accordance with the MONTHLY RATE and the Special Facilities shall be the difference between the estimated installed cost of the nonstandard fixture and the estimated installed cost of the equivalent standard fixture.
- VI. The cost of a bracket or mast arm in excess of the standard facilities for a given fixture type shall be considered as Special Facilities.

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NONREFUNDABLE CONTRIBUTION

- I. In the event that rock, unstable soil, or other conditions require the use of materials and methods of installation other than Company's normal materials and methods, Customer will contribute the additional cost except when the Service Extension Provision as stated below is applicable.
- II. Customer will contribute the estimated cost of installing cables under paved or landscaped surface areas; however, Customer may cut and replace the pavement or surface in lieu of making the contribution.
- III. Service supplied under the MONTHLY RATE in this Schedule does not include the conversion of existing overhead secondary conductors to underground. Should Customer desire such a conversion under this Schedule, Customer will contribute to Company, in addition to the applicable contributions above, the estimated net loss in salvage value of the overhead facilities being removed. The Customer will thereafter pay the applicable rate for underground service.

SERVICE EXTENSIONS

The installation of lighting fixtures or poles shall be in a location that is readily accessible by a Company truck to support installation and maintenance of Company facilities.

SALES TAX

To the above charges will be added any applicable North Carolina Sales Tax.

PAYMENTS

Bills are due when rendered and are payable within 15 days from the date of the bill. If any bill is not so paid, Company has the right to suspend service in accordance with its Service Regulations. In addition, any bill not paid on or before the expiration of twenty-five (25) days from the date of the bill is subject to an additional charge of 1% per month as provided in Rule R12-9 of the Rules and Regulations of the North Carolina Utilities Commission.

CONTRACT PERIOD

The initial Contract Period for lighting units shall be one of the following:

- (a) One year when the lighting unit will be mounted on Company's existing distribution pole (excluding temporary service poles), no more than one additional span of overhead secondary conductor is required, and no additional facilities are required;
- (b) Three years for overhead service other than those which comply with the one-year term provisions, and (d) or (e) does not apply; or
- (c) Five years for underground service; or
- (d) Ten years for service to all Masterpiece Series facilities, LED facilities (but only if installed under the Rate plus a monthly charge option), and for service utilizing fixtures, poles, and posts determined by Company as Special Order nonstandard; or
- (e) Twenty years for service utilizing fixtures, poles, and posts determined by Company as Custom Design nonstandard.
- (f) For temporary lighting facilities, the Customer shall pay the total estimated installed cost plus removal cost minus salvage value of the facilities installed to provide such service in lieu of a Contract Period.

The Contract Period shall extend from year to year thereafter until terminated by Customer or Company. Customer may terminate the Agreement before the expiration of the initial Contract Period by paying to Company a sum of money equal to 40% of the bills which otherwise would have been rendered for the unexpired months of the initial Contract Period.

Company may require Customer to initially make a termination deposit which will not exceed the termination amount computed in accordance with the above paragraph. Such termination deposit will be refunded in equal amounts at the end of each full year service is rendered. This annual refund will be the termination deposit divided by the number of years in the Contract Period.

GENERAL

Service rendered under this Schedule is subject to the provisions of Company's Service Regulations filed with the state regulatory commission.

ADDITIONAL CHARGES

The Monthly Rate, shown above, includes the rate impact of Merger Capacity Mitigation Rider MCM, Coal Inventory Rider CI, and Sutton Decremental Rider SD. The MONTHLY RATE also includes fuel and DSM/EE rates set forth in Annual Billing Adjustments Rider BA.

Supersedes Schedule ALS-26

Effective for service rendered on and after 2014

NCUC Docket No. E-2, Sub 1

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Duke Energy Progress, Inc.
(North Carolina Only)

L-4

STREET LIGHTING SERVICE
SCHEDULE SLS-26^A

AVAILABILITY

This Schedule is available for service supplied in the lighting of dedicated public streets, highways, municipally owned and operated public parking lots, and municipally owned and operated public parks by lighting fixtures mounted on Company-owned poles or government-owned traffic signal poles. This Schedule is also available for continuous service to other installations which were being served on April 1, 1973, under superseded Schedules SL-1G and SL-2C.

SERVICE

The service supplied by Company will include the installation of a street lighting system, according to Company's standards and requirements, which will be owned, maintained, and operated by Company, including the furnishing of the electricity required for the illumination of the lamps from dusk to dawn. The lumen ratings of lighting units listed under the MONTHLY RATE indicate the general class of lamp.

MONTHLY RATE

I. Overhead Service

Basic Rate: The basic rate per fixture defined below will be billed for installations of standard street lighting fixtures. The basic rate does not include the monthly charges for additional facilities, street lighting poles, underground service, Masterpiece Series Standard Facilities, or any contribution required under this Schedule and under the Street Lighting Service Regulations.

	Monthly Charge Per Fixture	Monthly kWh Per Fixture
Sodium Vapor		
9,500 lumen	\$9.91	46
16,000 lumen	13.23	59
28,500 lumen	17.20	109
50,000 lumen	20.55	152
Metal Halide Units		
9,000 lumen	\$12.77	41
20,000 lumen	19.02	94
33,000 lumen	24.81	133
110,000 lumen	51.02	370
Light Emitting Diode Units		
LED 50	\$8.04	18
LED 75	8.27	25
LED 105	10.23	35
LED 150	13.27	54
LED 215	16.23	73
LED 280	18.64	101

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Lighting Fixtures - No Longer Available to New Applicants

5,800 lumen (sodium vapor) ¹	\$ 7.21	29
7,000 lumen semi-enclosed (mercury vapor) ¹	9.71	69
7,000 lumen (mercury vapor) ¹	10.44	69
12,000 lumen (retrofit sodium vapor) ¹	11.50	59
21,000 lumen (mercury vapor) ¹	16.61	149
22,000 lumen (sodium vapor) ²	14.41	86
38,000 lumen (retrofit sodium vapor) ¹	17.68	135
40,000 lumen (metal halide) ³	26.32	160
60,000 lumen (mercury vapor) ¹	34.88	382

¹ Not available for new installations. For all fixtures other than Masterpiece, non-standard or custom design, upon failure of the lamp, photocell, fixture or ballast or earlier pursuant to Commission Rule R8-47, the fixture shall be replaced at no charge with a similar style fixture as shown in the table below and the monthly rate for the new fixture will apply. Mercury vapor fixtures shall also be replaced, prior to failure, upon Customer's request.

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Restricted Lumen Classification	Default Replacement Classification*
5,800 lumen SV	LED 50
7,000 lumen MV	LED 50
21,000 lumen MV	LED 150
60,000 lumen MV	LED 280
12,000 lumen RSV	LED 50
38,000 lumen RSV	LED 215

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* Whenever a comparable LED fixture is available, an LED fixture shall be installed; otherwise, the default fixture will be a comparable high pressure sodium source.

² Not available for new installations, except to existing customers for additional units of the same type on the same or contiguous property.

³ Not available for new installations, unless available in inventory. Upon failure of a 40,000 lumen fixture, it will be replaced at no charge with a similar style 33,000 lumen fixture and the monthly rate for the new fixture will apply.

II. Overhead Service to Light Emitting Diode (LED) Lighting

The rate per fixture defined below will be billed for installations of DEP-approved lighting fixtures installed on Company's system distribution poles. Upon notification by Customer that 35% or greater of the light emitting diodes contained within the fixture are not burning, Company will perform as soon as practicable, during regular working hours, the necessary maintenance to restore illumination. The rate does not include the monthly charges for additional facilities, special lighting poles or posts, underground service, or any contribution required under this Schedule.

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A. LED Rate (Standard Option):

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Fixture	Monthly Charge Per Fixture*	Monthly kWh Per Fixture
LED 75	\$6.42 ¹	25
LED 105	9.20	35
LED 215	13.54 ¹	73
LED 205 Site Lighter	13.59	69

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* In addition to the Rate, Customer shall pay a monthly charge of 1.3% times the cost difference between the estimated installed cost of a DEP-approved fixture and the LED fixture cost allowance for the stated lumen category in accordance with the ADDITIONAL FACILITIES paragraph below. The monthly charge shall not be less than zero.

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¹ The LED 75, LED 105, and LED 215 are not available to new installations under the Standard Option effective (date of Commission's order).

B. LED Rate (Customer-Ownership Option): The Customer-Ownership Option is not available for new installations effective (date of Commission's order). Customer with existing installations installed prior to this date shall provide a DEP-approved LED fixture at no cost to Company for installation on Company's system distribution poles. Customer retains full ownership of the fixture and after removal from service will be picked up by the Customer. The rate defined below will be billed for installation, operation and maintenance of Customer-owned lighting fixture. Customer shall provide a replacement fixture, if required,

to maintain the lighting service.

	<u>Monthly Charge Per</u>	<u>Monthly kWh Per</u>
<u>Fixture</u>	<u>Fixture</u>	<u>Fixture</u>
LED 75	\$5.59	25
LED 105	6.07	35
LED 215	7.72	73
LED 205 Site Lighter	7.55	69

III. Renewable Energy Portfolio Standard (REPS) Adjustment:

The monthly bill shall include an REPS Adjustment based upon the revenue classification:

Commercial/Governmental Classification - \$8.10/month
Industrial/Public Authority Classification - \$30.65/month

Upon written request, only one REPS Adjustment shall apply to each premise serving the same customer for all accounts of the same revenue classification. If a customer has accounts which serve in an auxiliary role to a main account on the same premise, no REPS charge should apply to the auxiliary accounts regardless of their revenue classification (see Annual Billing Adjustments Rider BA).

IV. Underground Service

For underground service, the monthly bill will be increased by \$3.48 per pole, or in lieu thereof, a one-time contribution of \$521.00 per pole. The monthly charge, if selected, may be terminated at any time upon payment by Customer of the one-time contribution. The monthly pole charge defined below will also be applicable to underground service.

V. Special Street Lighting Poles and Posts

	<u>Monthly Charge</u> <u>Per Pole or Post</u>
Wood	\$ 1.60
Metal*, Fiberglass, or Post	2.80
12-Foot Smooth Concrete Post**	9.81
Decorative Square Metal	11.62
16-Foot Smooth Concrete Post**	10.79
13-Foot Fluted Concrete Post**	14.72
Decorative Aluminum 12-Foot Post	17.66
Decorative 35- or 39-Foot Tapered Metal Pole	28.04
System Metal	0.96

* Metal will be installed in locations where fiberglass cannot be used as determined by Company.

** Concrete posts will not be available for new installations on and after August 1, 2007. Concrete posts or similar material posts, as determined by Company, will be offered in accordance with the Additional Facilities paragraph.

VI. Masterpiece Series Standard Facilities

Masterpiece Series Standard Facilities are deluxe decorative fixtures, posts, and brackets that are normally maintained in inventory by Company to meet the lighting needs of customers. The MONTHLY RATE for Masterpiece Series Standard Facilities is as follows:

Masterpiece Series Fixtures: In addition to the MONTHLY RATE Item 1, for a 9,000 or 9,500 lumen fixture, Customer pays:

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Masterpiece Series A Fixture	\$ 3.00
Masterpiece Series B Fixture	\$ 5.00

Masterpiece Series Decorative Posts:

Masterpiece Series A 12-Foot decorative metal post	\$17.66
Masterpiece Series A 16-Foot decorative metal post	\$21.58

Masterpiece Series Bracket:

Masterpiece Series A Twin Mounting Bracket	\$7.50
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ADDITIONAL FACILITIES

In addition to the MONTHLY RATE, Customer shall pay a monthly facilities charge when facilities are requested that exceed facilities normally supplied by Company to render lighting service. Customer shall pay a Monthly Facilities Charge of 1.3 percent of the estimated original installed cost of the Special Facilities. In lieu of the Monthly Facilities Charge of 1.3 percent, Customer may elect to make a nonrefundable contribution of the cost of the Special Facilities and shall pay a Monthly Facilities Charge of 0.5 percent of the estimated original installed cost of the special facilities thereafter, except as provided below. Special Facilities that are considered to be above normal include, but are not limited to, the following:

- I. Upon Company review and approval, multiple lighting fixtures may be installed per pole. Special facilities shall be considered as the estimated installed cost of the facilities necessary to serve the multiple fixture installation in excess of that normally required to provide standard area lighting service.
- II. Special facilities shall include any distribution transformer and/or primary conductor extension.
- III. For a work request installing an underground circuit, special facilities shall include any conductor length in excess of an average of 250 feet per span. Customer may elect to make a nonrefundable contribution of the estimated installed cost of an underground circuit deemed to be Special facilities without being required to pay a monthly facilities charge.
- IV. Special Facilities shall include special nonstandard poles and posts not listed above in MONTHLY RATE.
- V. For nonstandard fixtures not included in the MONTHLY RATE provision above, the monthly charge will be the charge in accordance with the MONTHLY RATE and the Special Facilities shall be the difference between the estimated installed cost of the nonstandard fixture and the estimated installed cost of the equivalent standard fixture.
- VI. The cost of a bracket or mast arm in excess of the standard facilities for a given fixture type shall be considered as Special Facilities.

NONREFUNDABLE CONTRIBUTION

- I. In the event that rock, unstable soil, or other conditions require the use of materials and methods of installation other than Company's normal materials and methods, Customer will contribute the additional cost except when the Service Extension Provision as stated below is applicable.
- II. Customer will contribute the estimated cost of installing cables under paved or landscaped surface areas; however, Customer may cut and replace the pavement or surface in lieu of making the contribution.
- III. Service supplied under the MONTHLY RATE in this Schedule does not include the

conversion of existing overhead street lighting circuits to underground. Should Customer desire such a conversion under this Schedule, Customer will pay to Company, in addition to the applicable contribution and charges herein, the estimated net investment depreciated, plus removal cost, less salvage value of the overhead conductor being removed.

SERVICE EXTENSION

The installation of lighting fixtures or poles shall be in a location that is readily accessible by a Company truck to support installation and maintenance of Company facilities.

SALES TAX

To the above charges will be added any applicable North Carolina Sales Tax.

PAYMENTS

Bills are due when rendered and are payable within 15 days from the date of the bill. If any bill is not so paid, Company has the right to suspend service in accordance with its Service Regulations. In addition, any bill not paid on or before the expiration of twenty-five (25) days from the date of the bill is subject to an additional charge of 1% per month as provided in Rule R12-9 of the Rules and Regulations of the North Carolina Utilities Commission.

CONTRACT PERIOD

The Contract Period shall not be less than the following:

- (a) Ten years for standard and Masterpiece Series standard fixtures, poles, and posts, and
- (b) Twenty years for service utilizing fixtures, poles, and posts determined by Company as nonstandard or custom-designed.

GENERAL

Service rendered under this Schedule is subject to the provisions of Company's Street Lighting Service Regulations filed with the state regulatory commission.

ADDITIONAL CHARGES

The Monthly Rate, shown above, includes the rate impact of Merger Capacity Mitigation Rider MCM, Coal Inventory Rider CI, and Sutton Decremental Rider SD. The MONTHLY RATE also includes fuel and DSM/EE rates set forth in Annual Billing Adjustments Rider BA.

Supersedes Schedule SLS-26

Effective for service rendered on and after 2014

NCUC Docket No. E-2, Sub

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Duke Energy Progress, Inc.
(North Carolina Only)

L-5

STREET LIGHTING SERVICE SCHEDULE SLR-26^A
(RESIDENTIAL SUBDIVISIONS AND NEIGHBORHOODS)

AVAILABILITY

This Schedule is available for service supplied in the lighting of residential dedicated public streets by means of mercury vapor, ~~light emitting diode~~ or sodium vapor lighting units installed within residential subdivisions or neighborhoods, consisting of single or duplex dwelling units, located (1) outside the corporate limits of a municipality at the time of the installation or (2) inside the corporate limits of a municipality when the area served was subsequently annexed by the municipality after lighting service was first established. This Schedule is also available inside a municipality jointly served by a municipal-owned electric utility when the municipality approves a regulation or ordinance requiring its residents to individually pay for lighting service. The street lighting must conform to the installations set forth in the Monthly Rate paragraph.

This Schedule is not available to supply service for the lighting of parking lots, shopping centers, other public or commercial areas within the residential subdivision or neighborhood, or areas not specifically provided for by the provisions herein.

SERVICE

The service supplied by Company will include the installation of a street lighting system, according to Company's standards and requirements, which will be owned, maintained, and operated by Company, including the furnishing of the electricity required for the illumination of the lamps from dusk to dawn. Lighting units will be located by Company to provide the most uniform lighting possible in the residential area. The lumen ratings of the lighting units furnished under the Monthly Rate indicate the class of lamp.

MONTHLY RATE

The following amount will be added to each monthly bill rendered for residential electric service within the subdivision or neighborhood:

Monthly Charge
Per Customer

OVERHEAD DISTRIBUTION AREA:

Bracket-mounted, enclosed luminaire on approved wood pole:

1 light per 10 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor \$1.25
~~LED 50 light emitting diode \$0.99~~

1 light per 5 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor 2.51
~~LED 50 light emitting diode 1.98~~

1 light per 3 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor 4.11
~~LED 50 light emitting diode 3.25~~

UNDERGROUND DISTRIBUTION AREA:

Bracket-mounted, enclosed luminaire on approved wood pole:

1 light per 10 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor 1.73
~~LED 50 light emitting diode 1.42~~

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1 light per 5 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor, 3.47
LED 50 light emitting diode, 2.84

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1 light per 3 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor, 5.71
LED 50 light emitting diode, 4.67

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Bracket-mounted, enclosed luminaire on standard fiberglass or metal* pole or approved direct burial post:

1 light per 10 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor, 1.96
LED 50 light emitting diode, 1.64

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1 light per 6 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor, 3.28
LED 50 light emitting diode, 2.74

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1 light per 3 customers or major fraction thereof:

7,000 lumen mercury vapor¹ or 9,500 lumen sodium vapor, 6.49
LED 50 light emitting diode, 5.42

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*Metal will be installed in locations where fiberglass cannot be used as determined by Company on or after January 15, 1997.

Mercury vapor units converted before September 19, 1983, to 12,000 lumen retrofit sodium vapor units, add to mercury vapor prices:

If 1 light per 10 customers: 0.15
If 1 light per 5 customers: 0.30
If 1 light per 6 customers: 0.25

¹ Mercury vapor or retrofit sodium vapor fixtures are not available to new installations. Upon failure of the lamp, fixture or ballast or earlier pursuant to Commission Rule R8-47, these fixtures shall be replaced at no charge with a comparable LED 50 fixture. When a comparable LED fixture isn't available, a comparable sodium vapor fixture shall be installed.

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SALES TAX

To the above charges will be added any applicable North Carolina Sales Tax.

ANNEXATION CONSIDERATIONS

- I. If any of the following conditions exist, the developer of the subdivision or neighborhood will be required to obtain from the municipal governing agency its written approval of the street lighting service being provided under this Schedule and the number and location of the lights to be installed:
 - A. The subdivision or neighborhood abuts a boundary of the municipality.
 - B. It is known that the subdivision or neighborhood will be annexed into the municipality.
 - C. The municipal governing agency has enacted a subdivision or neighborhood control ordinance which applies to the subdivision or neighborhood or any portion thereof.
- II. If the subdivision or neighborhood is subsequently annexed and the municipality accepts the street lighting under a street lighting service contract on the rate for the equivalent lighting unit, the following will apply:

- A. Overhead Distribution: If the municipality accepts the street lighting service under Street Lighting Service Schedule SLS, no monthly customer charge will be applied to the subdivision or neighborhood residents.
- B. Underground Distribution: If the municipality accepts the street lighting service under Street Lighting Service Schedule SLS and agrees to pay the contribution under the schedule for the street lighting system, no monthly customer charge will be applied to the subdivision or neighborhood residents. If the municipality accepts the street lighting service but does not agree to pay the contribution for the underground system, the monthly customer charges will be reduced according to the following schedule:

Lights per Customer	Pole type	Monthly Customer Charge		
		7,000 lumen	9,500 lumen	LED 50
1 light per 10	Wood	\$0.31	\$0.42	\$0.39
1 light per 10	Post, Fiberglass or Metal	\$0.37	\$0.52	\$0.41
1 light per 5	Wood	\$0.58	\$0.78	\$0.79
1 light per 6	Post, Fiberglass or Metal	\$0.63	\$0.89	\$0.69
1 light per 3	Wood	\$0.68	\$0.93	\$1.30
1 light per 3	Post, Fiberglass or Metal	\$0.73	\$1.04	\$1.37

The retrofit 12,000 Lumen Sodium Vapor units will be reduced to the corresponding reduced 7,000 Lumen Mercury Vapor Monthly Customer Charge.

- III. If the subdivision or neighborhood is subsequently annexed and the municipality does not accept the installed street lighting under a street lighting service contract, the service will be provided under this Schedule with the applicable monthly charges. If the municipality initially accepts the installed street lighting under a street lighting service contract and subsequently terminates such lighting service contract, the service will be provided under this Schedule only upon approval of an authorizing ordinance requiring the municipal residents to pay the applicable monthly charges.

NONREFUNDABLE CONTRIBUTION

Normally, a contribution will not be required for service under this Schedule. Company will require a nonrefundable contribution from the developer under the following conditions:

- I. Unusual Circumstances: In the event rock, unstable soil, or other conditions require the use of materials and methods of installation other than Company's normal materials and methods, the developer will contribute the additional cost incurred thereby.
- II. Paved Areas: If Company has to install any portion of the street lighting system under existing paved areas, the developer will either cut and replace the pavement or contribute to Company the additional cost incurred to install its facilities under the paved area.
- III. Excess Circuitry: When any lighting unit is located so that the span of underground cable necessary to serve such unit exceeds 250 feet, the developer will contribute the sum of the estimated installed costs of all such overages within the subdivision or neighborhood.

EXISTING SUBDIVISIONS OR NEIGHBORHOODS

Street lighting service under this Schedule will be available in existing residential subdivisions or neighborhoods not previously receiving lighting service provided either Company receives a petition requesting this service signed by all the owners of residential lots within the subdivision or neighborhood or a municipality requests this service and approves an ordinance requiring residents to pay the applicable monthly charges. When the electrical distribution system within the subdivision or neighborhood is installed underground, the persons requesting the installation of the street lighting system will pay to Company, in addition to any contribution required above, a nonrefundable contribution equal to the cost

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\$1.73 charge reduced to \$0.31 . . . \$1.73 charge reduced to \$0.42

\$1.96 charge reduced to \$0.37 . . . \$1.96 charge reduced to \$0.52

\$3.47 charge reduced to \$0.58 . . . \$3.47 charge reduced to \$0.78

\$3.28 charge reduced to \$0.63 . . . \$3.28 charge reduced to \$0.89

\$5.71 charge reduced to \$0.68 . . . \$5.71 charge reduced to \$0.93

\$6.49 charge reduced to \$0.73 . . . \$6.49 charge reduced to \$1.04

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of trenching and backfilling necessary for the installation of the street lighting system. If a contribution is required under Excess Circuitry, that portion of trenching and backfilling included in such contribution will be excluded from the preceding requirement. Relandscaping of the area necessary due to the installation of the street lighting system will be the responsibility of the residents within the subdivision or neighborhood. The appropriate monthly charge as set forth above will be applied to the monthly billings of all residents in the subdivision or neighborhood.

PAYMENTS

The monthly charges set forth under this Schedule will be billed in conjunction with the normal bill for residential service. The total of the bill so rendered shall be subject to the terms and conditions of the Service Regulations approved and on file with the state regulatory commission. Failure to pay the total bill rendered when due and payable shall constitute a failure to pay the bill for residential service.

CONTRACT PERIOD

The applicable monthly charge set forth in this Schedule shall be applied to the monthly billings of all residents in the subdivision or neighborhood as long as street lighting service is provided under any of the conditions as set out herein.

ADDITIONAL CHARGES

The Monthly Rate, shown above, includes the rate impact of Merger Capacity Mitigation Rider MCM, Coal Inventory Rider CI, and Sutton Decremental Rider SD. The MONTHLY RATE also includes fuel and DSM/EE rates set forth in Annual Billing Adjustments Rider BA.

| Supersedes Schedule SLR-26
Effective for service rendered on and after _____, 2014
| NCUC Docket No. E-2, Sub _____

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Shipments Analysis Results

- In general, HID lamp shipments decrease over time due to retirement and emerging technologies that replace their use.

Historical and Projected HID Lamp Shipments, 2000 - 2046

