

LISA D. NORDSTROM (ISB No. 5733)
Idaho Power Company
1221 West Idaho Street (83702)
P.O. Box 70
Boise, Idaho 83707
Telephone: (208) 388-5825
Facsimile: (208) 388-6936
Inordstrom@idahopower.com

Attorney for Idaho Power Company

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION)
OF IDAHO POWER COMPANY FOR) CASE NO. IPC-E-19-17
AUTHORITY TO MODIFY SCHEDULE 15,)
DUSK TO DAWN CUSTOMER LIGHTING,) APPLICATION
AND SCHEDULE 41, STREET LIGHTING)
SERVICE, TO ALLOW FOR LIGHT-)
EMITTING DIODE TECHNOLOGY.)
_____)

Idaho Power Company (“Idaho Power” or “Company”), in accordance with *Idaho Code* § 61-502 and RP 52, hereby respectfully makes application to the Idaho Public Utilities Commission (“Commission”) for an order authorizing the Company to (1) modify Schedule 15, Dusk To Dawn Customer Lighting, and Schedule 41, Street Lighting Service, to allow for light-emitting diode (“LED”) technology, eliminate the option for new installations of Company-owned High Intensity Discharge (“HID”) street lights and area lights going forward effective October 1, 2019, and (2) close Option “B” of Schedule 41, customer-owned, Idaho Power-maintained systems as of September 30, 2023.

No rate changes are proposed as part of this filing; if possible, tariff changes are requested to become effective on October 1, 2019.

I. BACKGROUND

1. Idaho Power's lighting services are provided through two tariff schedules: Schedule 15 and Schedule 41.

2. Schedule 15 is applicable to electric service provided for the outdoor dusk to dawn lighting of commercial, industrial, and residential customer grounds, yards, driveways, and premises. Customers taking service under Schedule 15 are charged on a per lamp basis for the type and wattage of lamp. All light fixtures under Schedule 15 are owned and maintained by the Company.

3. Schedule 41 is applicable to electric service provided for lighting of public streets, public alleys, public grounds, and thoroughfares to improve visibility for drivers, as well as to illuminate outdoor pedestrian walkways. Schedule 41 provides three service options for street lighting customers.

a. Option "A" ("Schedule 41A") provides for Idaho Power-owned and Idaho Power-maintained street lighting systems. Street lighting systems under this option are not metered and customers pay monthly lamp charges based on their choice of standard wattage high pressure sodium vapor lamps.

b. Option "B" ("Schedule 41B") provides for customer-owned, Idaho Power-maintained street lighting systems. Option "B" was closed to new service in 2012 as a part of Idaho Power's last general rate case. All new customer-owned lighting systems installed after January 1, 2012, were required to take service under Option C, where the lighting system is owned, operated, and maintained by the customer.

c. Option "C" ("Schedule 41C") provides a service option for customers choosing to own their lighting system. Option "C" allows customers with non-metered lighting systems to provide their own maintenance without being charged for Idaho Power-provided maintenance. Option "C" also provides greater flexibility to customers as they are not limited to the light fixture offered by Idaho Power; rather, the customer can install new and unique lighting systems not offered by the Company.

4. As of March 2019, there were 6,389 customers in Idaho taking service under Schedule 15, 82 customers taking service under Schedule 41A, 42 customers taking service under Schedule 41B, and 631 customers taking service under Schedule 41C. Schedule 41 customers are primarily cities.

5. All Company-owned lighting systems installed under Schedules 15 and 41 currently consist of either high pressure sodium or metal halide light fixtures, collectively referred to as HID light fixtures. Idaho Power currently performs maintenance on approximately 9,742 fixtures owned by roughly 42 customers in Idaho under Option "B" of Schedule 41.

II. CONVERSION TO LED FIXTURES

6. Based on conversations with lighting fixture manufacturers, the industry trend is to manufacture more LED light fixtures and fewer HID fixtures. The Company expects HID street light and area light options to become increasingly obsolete as LED replacements become more widely utilized.

7. As more fully described in the Direct Testimony of Kristy M. Patteson that accompanies this Application, LED light provides significant advantages over traditional

HID lighting options. LED lights use less energy, reduce maintenance costs, can be recycled, reduce light pollution, and provide better lighting quality as compared to HID technology.

8. If all Company-owned lighting systems in Schedule 15 and Schedule 41A are replaced with the proposed LED light fixtures, Idaho Power estimates an annual reduction in energy consumption of approximately 8,581 megawatt-hours. This reduction in energy consumption results in net power supply expense savings of approximately \$250,000 on a levelized basis that will automatically flow back to customers through the Power Cost Adjustment mechanism.

9. With the Commission's approval, the Company will begin replacing the Company-owned HID lighting systems in October 2019. The fixtures that are removed from service will be retired using the Company's normal retirement process. Idaho Power will utilize current staffing to replace all Company-owned HID lighting systems with LED light fixtures and the Company anticipates replacing approximately 25 percent of the existing fixtures per year over the four-year period.

III. PROPOSED CHANGES TO TARIFF OFFERINGS – NOT RATES

10. The Company requests to (1) replace all Company-owned HID lighting systems with LED light fixtures, eliminate the option for new installations of HID street lights and area lights going forward and (2) discontinue maintenance of customer-owned HID street light fixtures by closing Option "B" of Schedule 41 and transition customer-owned HID street light fixtures to either Option "C" or Option "A" of Schedule 41. Almost all cities taking service under Option "B" of Schedule 41 already own other fixtures that they maintain under Option "C" of Schedule 41. Transitioning customer-owned street light

fixtures to either Option “A” or Option “C” at a date of each city’s choosing will properly situate the Company for the impending obsolescence of HID lighting.

11. Idaho Power is not requesting to change rates for Option “A” of Schedule 41 or for Schedule 15, and the Company’s request does not impact rates for Option “C” of Schedule 41. The Company’s request in this case is to modify its tariff to allow for LED technology to be deployed in light of the obsolescence of HID technology. The Company expects it will seek for inclusion any new rate base required to provide service to Schedules 15 and 41 in a future rate proceeding.

12. For tariff Schedule 41, Idaho Power proposes to: (1) add language to Option “A” to indicate that high pressure sodium vapor lighting systems will no longer be available for new installations as of October 1, 2019, (2) add language providing an option for customers to request a shield be installed, at their expense, on an LED fixture, (3) outline the proposed wattage and lumen ranges identified as the LED replacements for existing high pressure sodium vapor lighting systems under Option “A”, (4) add language to indicate the closure of Option “B” effective September 30, 2023, and (5) for housekeeping purposes, (a) where necessary, add language to specify whether the tariff provision applies to high pressure sodium vapor or LED fixtures and (b) remove the “Ornamental Lighting – Customer-Owned System” section of Schedule 41. Ornamental lighting was closed to new service after October 31, 1981, and through attrition, no customers remain under this service offering.

13. For Schedule 15, Idaho Power proposes changes that will (1) add language to indicate that high pressure sodium vapor lighting systems and metal halide lighting systems will no longer be available for new installations as of October 1, 2019, and (2)

outline the proposed wattage and lumen ranges identified as the LED replacements for existing high pressure sodium vapor lighting systems.

14. The proposed tariff changes for Schedule 15 are reflected in Attachment 1 to this Application (in both clean and legislative formats). The proposed tariff changes for Schedule 41 are reflected in Attachment 2 to this Application (in both clean and legislative formats).

IV. MODIFIED PROCEDURE

15. Idaho Power believes that a technical hearing is not necessary to consider the issues presented herein and respectfully requests that this Application be processed under Modified Procedure; i.e., by written submissions rather than by hearing. RP 201, *et seq.* The Company has, however, contemporaneously filed the Patteson Testimony and stands ready to present its testimony and support the Application if the Commission determines that a technical hearing is required.

V. COMMUNICATIONS AND SERVICE OF PLEADINGS

16. As explained in Company witness Patteson's direct testimony, Idaho Power consulted with key street lighting stakeholders prior to filing this Application. To notify and educate impacted customers about this filing, Idaho Power intends to:

- Create a webpage to explain the "LED Street Light and Area Light Conversion Project." The webpage was made available as of the date of this filing and can be found at www.idahopower/LED.com.
- Answer frequently asked questions that customers may have. The frequently asked questions were made available as of the date of this filing on the project

webpage at www.idahopower/LED.com and can be found in Exhibit No. 4 to Ms. Patteson's testimony.

- For Schedule 41, Company representatives will personally contact all customers served under Options "A" and "B" of Schedule 41 to inform them of the filing. The Company representative will provide each customer with a letter to inform Schedule 41A and 41B customers of the filing and how they would be impacted; that is, the Company proposes to replace all Company-owned street light fixtures with an equivalent LED fixture and to discontinue service under Option "B". The letter also provides information as to how those customers could submit a comment for the Commission's consideration. A draft of the letter can be found in Exhibit No. 5 to Ms. Patteson's testimony. If the Company's request is approved, the Company will once again personally contact all customers taking service under Options "A" or "B" of Schedule 41. A Company representative will inform each customer of the Commission's decision in the case and discuss the Company's implementation plan.
- For Schedule 15, Idaho Power will send a bill insert to Schedule 15 customers upon filing this Application to inform them of the filing. The bill insert will include a link to the Commission website, a link to the project webpage, and will provide a phone number to call if they have questions. A copy of the bill insert can be found in Exhibit No. 6 to Ms. Patteson's testimony. Additionally, at the time the Company performs the LED replacement, Idaho Power will leave a doorhanger explaining that the light was replaced with an LED. A copy of the doorhanger can be found in Exhibit No. 7 to Ms. Patteson's testimony.

17. Communications and service of pleadings to Idaho Power regarding this

Application should be sent to:

Lisa D. Nordstrom
Idaho Power Company
1221 West Idaho Street (83702)
P.O. Box 70
Boise, Idaho 83707
lnordstrom@idahopower.com
dockets@idahopower.com

Timothy E. Tatum
Connie Aschenbrenner
Idaho Power Company
1221 West Idaho Street (83702)
P.O. Box 70
Boise, Idaho 83707
ttatum@idahopower.com
caschenbrenner@idahopower.com

VI. CONCLUSION

18. The reduced cost of LED lighting has created parity in lighting options that allow Idaho Power to move to LED street and area lighting. Converting to LED fixtures will allow Idaho Power to better satisfy its customers' preferences, as well as promote energy efficiency and environmental stewardship. As more fully described above, Idaho Power requests that the Commission issue an order authorizing the Company to modify Schedules 15 and 41 to allow for LED technology, to eliminate the option for new installations of Company-owned HID street lights and area lights going forward effective October 1, 2019, and to close Option "B" of Schedule 41 to service effective September 30, 2023. Idaho Power respectfully requests that the tariff changes become effective on October 1, 2019; however, the Company would not oppose a later effective date if the Commission or Commission Staff does not believe the Company's proposed timeline is sufficient to process the issues presented by the Company in this matter.

DATED at Boise, Idaho, this 24th day of May, 2019.



LISA D. NORDSTROM
Attorney for Idaho Power Company

**BEFORE THE
IDAHO PUBLIC UTILITIES COMMISSION
CASE NO. IPC-E-19-17**

IDAHO POWER COMPANY

ATTACHMENT 1

**PROPOSED SCHEDULE 15
(clean and legislative formats)**

CLEAN FORMAT

SCHEDULE 15
DUSK TO DAWN CUSTOMER
LIGHTING
(Continued)

NEW FACILITIES

Where facilities of the Company are not presently available for a lamp installation which will provide satisfactory lighting service for the Customer's Premises, the Company may install overhead or underground secondary service facilities, including secondary conductor, poles, anchors, etc., a distance not to exceed 300 feet to supply the desired service, all in accordance with the charges specified below.

MONTHLY CHARGE

Effective October 1, 2019, High Pressure Sodium Vapor lighting systems are not available for new installation.

The Monthly Charge is the sum of the following charges, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees).

1. Monthly Per Unit Charge on existing facilities:AREA LIGHTING

<u>High Pressure Sodium Vapor</u>		<u>LED Equivalent</u>		<u>Base Rate</u>
<u>Watts</u>	<u>Average Lumens</u>	<u>Watt Range</u>	<u>Lumen Range</u>	
100	8,550	30-40	3,600-4,800	\$ 9.50
200	19,800	70-85	7,200-9,600	\$11.34
400	45,000	175-200	18,000-24,000	\$15.36

FLOOD LIGHTING

<u>High Pressure Sodium Vapor</u>		<u>LED Equivalent</u>		<u>Base Rate</u>
<u>Watts</u>	<u>Average Lumens</u>	<u>Watt Range</u>	<u>Lumen Range</u>	
200	19,800	70-85	8,100-10,800	\$13.58
400	45,000	120-150	18,000-24,000	\$16.02

<u>Metal Halide</u>		<u>LED Equivalent</u>		<u>Base Rate</u>
<u>Watts</u>	<u>Average Lumens</u>	<u>Watt Range</u>	<u>Lumen Range</u>	
400	28,800	120-150	18,000-24,000	\$14.71
1,000	88,000	250-300	32,000-38,000	\$23.38

2. For New Facilities Installed Before June 1, 2004: The Monthly Charge for New Facilities installed prior to June 1, 2004, will continue to be assessed a monthly facilities charge in accordance with the changes specified in Schedule 66.

3. For New Facilities Installed On or After June 1, 2004: The non-refundable charge for New Facilities to be installed, such as underground service, overhead secondary conductor, poles, anchors, etc., shall be equal to the work order cost.

PAYMENT

The monthly bill for service supplied hereunder is payable upon receipt, and becomes past due 15 days from the date on which rendered.

LEGISLATIVE FORMAT

SCHEDULE 15
DUSK TO DAWN CUSTOMER
LIGHTING
 (Continued)

NEW FACILITIES

Where facilities of the Company are not presently available for a lamp installation which will provide satisfactory lighting service for the Customer's Premises, the Company may install overhead or underground secondary service facilities, including secondary conductor, poles, anchors, etc., a distance not to exceed 300 feet to supply the desired service, all in accordance with the charges specified below.

MONTHLY CHARGE

Effective October 1, 2019, High Pressure Sodium Vapor lighting systems are not available for new installation.

The Monthly Charge is the sum of the following charges, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees).

1. Monthly Per Unit Charge on existing facilities:

AREA LIGHTING

<u>Rate</u>	<u>High Pressure Sodium Vapor</u>	<u>LED Equivalent</u>	<u>Average</u>	<u>Base Rate</u>	<u>Base</u>
	<u>Sodium Vapor Watts</u>	<u>Average Lumens</u>	<u>Watt Range</u>	<u>Lumen</u>	<u>Range</u>
	<u>100 Watt</u>	8,550	<u>30-40</u>	<u>3,600-4,800</u>	\$ 9.50
	<u>200 Watt</u>	19,800	<u>70-85</u>	<u>7,200-9,600</u>	\$11.34
	<u>400 Watt</u>	45,000	<u>175-200</u>	<u>18,000-24,000</u>	\$15.36

FLOOD LIGHTING

<u>Rate</u>	<u>High Pressure Sodium Vapor</u>	<u>LED Equivalent</u>	<u>Base Rate</u>	<u>Average</u>	
	<u>Sodium Vapor Watts</u>	<u>Average Lumens</u>	<u>Watt Range</u>	<u>Lumen Range</u>	
	<u>200 Watt</u>	19,800	<u>70-85</u>	<u>8,100-10,800</u>	\$13.58
	<u>400 Watt</u>	45,000	<u>120-150</u>	<u>18,000-24,000</u>	\$16.02

<u>Rate</u>	<u>Metal Halide</u>	<u>LED Equivalent</u>	<u>Base Rate</u>		
	<u>Watts</u>	<u>Average Lumens</u>	<u>Watt Range</u>	<u>Lumen Range</u>	
	<u>400 Watt</u>	28,800	<u>120-150</u>	<u>18,000-24,000</u>	\$14.71
	<u>1,000 Watt</u>	88,000	<u>250-300</u>	<u>32,000-38,000</u>	\$23.38

2. For New Facilities Installed Before June 1, 2004: The Monthly Charge for New Facilities installed prior to June 1, 2004, will continue to be assessed a monthly facilities charge in accordance with the changes specified in Schedule 66.

3. For New Facilities Installed On or After June 1, 2004: The non-refundable charge for New Facilities to be installed, such as underground service, overhead secondary conductor, poles, anchors, etc., shall be equal to the work order cost.

Idaho Power Company ~~Eleventh~~Twelfth Revised Sheet No. 15-2

Cancels

I.P.U.C. No. 29, Tariff No. 101~~Tenth~~Eleventh Revised Sheet No. 15-2

PAYMENT

The monthly bill for service supplied hereunder is payable upon receipt, and becomes past due 15 days from the date on which rendered.

IDAHO

Issued per Order No. 34074

Effective – ~~June~~October 1, 20189

Issued by IDAHO POWER COMPANY

Timothy E. Tatum, Vice President, Regulatory Affairs

1221 West Idaho Street, Boise, Idaho

**BEFORE THE
IDAHO PUBLIC UTILITIES COMMISSION
CASE NO. IPC-E-19-17**

IDAHO POWER COMPANY

ATTACHMENT 2

**PROPOSED SCHEDULE 41
(clean and legislative formats)**

CLEAN FORMAT

SCHEDULE 41
STREET LIGHTING SERVICE

AVAILABILITY

Service under this schedule is available throughout the Company's service area within the State of Idaho where street lighting wires and fixtures can be installed on Customer-provided street lighting facilities or installed on the Company's existing distribution facilities.

APPLICABILITY

Service under this schedule is applicable to service requested or installed by Customers for the lighting of public streets, public alleys, public grounds, and thoroughfares. Street lighting lamps will be energized each night from dusk until dawn.

SERVICE LOCATION AND PERIOD

Street lighting facility locations, type of unit and lamp sizes, as changed from time to time by written request of the Customer and agreed to by the Company, shall be provided for Customers receiving service under Options A and B of this schedule. The in-service date for each street lighting facility shall also be maintained.

The minimum service period for any Company-owned street lighting facility is 10 years. The Company, upon written notification from the Customer, will remove a Company-owned street lighting facility:

1. At no cost to the Customer, if such facility has been in service for no less than the minimum service period. The Company will not grant a request from the Customer for reinstallation of street lighting service at the same location for a minimum period of two years from the date of removal.
2. Upon payment to the Company of the removal cost, if such facility has been in service for less than the minimum service period.

SERVICE OPTIONS

"A" - Idaho Power-Owned, Idaho Power-Maintained System - Effective October 1, 2019, high pressure sodium vapor lighting systems are not available for new installation.

The facilities required for supplying service, including fixture, lamp, control relay, mast arm for mounting on an existing utility pole, and energy for the operation thereof, are supplied, installed, owned and maintained by the Company. All necessary repairs and maintenance work, including group lamp replacement and glassware cleaning, will be performed by the Company during the regularly scheduled working hours of the Company on the Company's schedule. Individual lamps will be replaced on burnout as soon as reasonably possible after notification by the Customer and subject to the Company's operating schedules and requirements.

The Company has two standard high pressure sodium vapor street lighting fixture options, drop-glass or cut-off (shielded lighting). For each initial high pressure sodium vapor lighting fixture installation, the Customer is required to state, in writing, a fixture preference. A maintenance-related replacement of a current high pressure sodium vapor fixture will be made with a similar type of drop-glass or cut-off fixture as the one being replaced unless written notification has been received from the Customer requesting a change in fixture types.

SCHEDULE 41
STREET LIGHTING SERVICE
(Continued)

SERVICE OPTIONS (Continued)

"A" - Idaho Power-Owned, Idaho Power-Maintained System (Continued)

Company-owned lighting systems installed on or after June 1, 2004 shall not be constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage, such as through, but not limited to, the use of wired outlets or useable plug-ins.

Company-owned systems installed prior to June 1, 2004 that are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage may have the estimated annual variations in energy usage charged the Non-Metered Service – Variable Energy Charge until the potential for variations in energy usage has been eliminated. Repair, modification or alteration of these facilities is not permitted.

Accelerated Replacement of Existing Fixtures

In the event a Customer requests the Company perform an accelerated replacement of existing fixtures with the cut-off fixture, the following charges will apply:

1. The designed cost estimate which includes labor, time, and mileage costs for the removal of the existing street lighting fixtures.
2. \$132.00 per fixture removed from service.

The total charges identified in 1 and 2 above must be paid prior to the beginning of the fixture replacement and are non-refundable. The accelerated replacement will be performed by the Company during the regularly scheduled working hours of the Company and on the Company's schedule.

Dark Sky Lighting for High Pressure Sodium Vapor

In the event a Customer requests the Company perform an alteration of existing cut-off fixtures to become dark sky lighting compliant by replacing the existing drop-lens with a dark sky lighting compliant flat-lens, the following charges will apply:

1. The designed cost estimate which includes labor, time, and mileage costs for the alteration of the existing street lighting fixtures.
2. \$23.00 per fixture altered for dark sky lighting.

The total charges identified in 1 and 2 above must be paid prior to the beginning of the fixture alteration and are non-refundable. The fixture alteration to become dark sky lighting compliant will be performed by the Company during the regularly scheduled working hours of the Company and on the Company's schedule.

SCHEDULE 41
STREET LIGHTING SERVICE
 (Continued)

SERVICE OPTIONS (Continued)"A" - Idaho Power-Owned, Idaho Power-Maintained System (Continued)LED Shield

In the event a Customer requests the Company install a shield on an LED fixture, the Customer will be responsible for the material cost of the equipment, as well as the design cost estimate which includes labor, time, and mileage costs for the alteration of the existing LED fixture.

Monthly Charges

The monthly charges are as follows, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees).

Lamp Charges, per lamp (41A)

<u>High Pressure Sodium Vapor</u>		<u>LED Equivalent</u>		<u>Base Rate</u>
<u>Watts</u>	<u>Average Lumens</u>	<u>Watt Range</u>	<u>Lumen Range</u>	
70	5,540	30-40	3,600-4,800	\$11.39
100	8,550	30-40	3,600-4,800	\$10.86
200	19,800	70-85	7,200-9,600	\$14.55
250	24,750	115-140	10,800-14,400	\$15.83
400	45,000	175-200	18,000-24,000	\$18.05

Non-Metered Service – Variable Energy

Energy Charge, per kWh 7.360¢

Pole Charges

For Company-owned poles installed after October 5, 1964 required to be used for street lighting only:

	<u>Charge</u>
Wood pole, per pole	\$1.81
Steel pole, per pole	\$7.18

Facilities Charges

Customers assessed a monthly facilities charge prior to June 1, 2004 will continue to be assessed a monthly facilities charge in accordance with the charges specified in Schedule 66.

Payment

The monthly bill rendered for service supplied hereunder is payable upon receipt, and becomes past due 15 days from the date on which rendered.

SCHEDULE 41
STREET LIGHTING SERVICE
(Continued)

SERVICE OPTIONS (Continued)

"B" - Customer-Owned, Idaho Power-Maintained System - No New Service and Effective September 30, 2023, Option B is closed to service.

The Customer's lighting system, including posts or standards, fixtures, initial installation of lamps and underground cables with suitable terminals for connection to the Company's distribution system, is installed and owned by the Customer and maintained by Idaho Power. Customer-owned lighting systems receiving maintenance under Option B must have Idaho Power standard wattage high pressure sodium vapor lamps installed in all street lighting fixtures.

Customer-owned systems installed on or after June 1, 2004 which are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage, such as through, but not limited to, the use of wired outlets or useable plug-ins, are required to be metered in order to record actual energy usage.

Customer-owned systems installed prior to June 1, 2004 that are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage may have the estimated annual variations in energy usage charged the Non-Metered Service – Variable Energy Charge until the street lighting system is converted to Metered Service, or until the potential for variations in energy usage has been eliminated, whichever is sooner.

Energy and Maintenance Service

Energy and Maintenance Service includes operation of the system, energy, lamp renewals, cleaning of glassware, and replacement of defective photocells which are standard to the Company-owned street light units. Service does not include the labor or material cost of replacing cables, standards, broken glassware or fixtures, painting, or refinishing of metal poles. Individual lamps will be replaced on burnout as soon as reasonably possible after notification by the Customer and subject to the Company's operating schedules and requirements.

Monthly Charges

The monthly charges are as follows, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees).

SCHEDULE 41
STREET LIGHTING SERVICE
 (Continued)

SERVICE OPTIONS (Continued)"B" - Customer-Owned, Idaho Power-Maintained System - No New Service (Continued)Non-Metered Service, per lamp (41B)

<u>Standard High Pressure Sodium Vapor Energy and Maintenance Charges:</u>	<u>Average Lumens</u>	<u>Base Rate</u>
70 Watt	5,450	\$3.07
100 Watt	8,550	\$3.43
200 Watt	19,800	\$4.96
250 Watt	24,750	\$6.11
400 Watt	45,000	\$8.64

Non-Metered Service – Variable Energy

Energy Charge, per kWh	7.360¢
------------------------	--------

Metered Service, per lamp (41BM)

<u>Standard High Pressure Sodium Vapor Maintenance Charges:</u>	
70 Watt	\$1.36
100 Watt	\$1.26
200 Watt	\$1.25
250 Watt	\$1.36
400 Watt	\$1.36
Service Charge, per meter	\$3.36
Energy Charge, per kWh	5.053¢

Payment

The monthly bill rendered for service supplied hereunder is payable upon receipt, and becomes past due 15 days from the date on which rendered.

"C" - Customer-Owned, Customer-Maintained System

The Customer's lighting system, including posts or standards, fixtures, initial installation of lamps and underground cables with suitable terminals for connection to the Company's distribution system, is installed, owned, and maintained by the Customer. The Customer is responsible for notifying the Company of any changes or additions to the lighting equipment or loads being served under Option C – Non-Metered Service. Failure to notify the Company of such changes or additions will result in the termination of non-metered service under Option C and the requirement that service be provided under Option C - Metered Service.

SCHEDULE 41
STREET LIGHTING SERVICE
 (Continued)

SERVICE OPTIONS (Continued)

"C" - Customer-Owned, Customer-Maintained System (Continued)

All new Customer-owned lighting systems installed outside of Subdivisions on or after January 1, 2012 are required to be metered in order to record actual energy usage.

Customer-owned systems installed prior to June 1, 2004 that are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage may have the estimated annual variations in energy usage charged the Non-Metered Service - Energy Charge until the street lighting system is converted to Metered Service, or until the potential for variations in energy usage has been eliminated, whichever is sooner.

Monthly Charges

The monthly charges are as follows, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees). For non-metered service, the average monthly kWh of energy usage shall be estimated by the Company based on the total wattage of the Customer's lighting system and 4,059 hours of operation.

Non-Metered Service (41C)

Energy Charge, per kWh	5.1670¢
------------------------	---------

Metered Service (41CM)

Service Charge, per meter	\$3.36
Energy Charge, per kWh	5.053¢

LEGISLATIVE FORMAT

SCHEDULE 41
STREET LIGHTING SERVICE

AVAILABILITY

Service under this schedule is available throughout the Company's service area within the State of Idaho where street lighting wires and fixtures can be installed on Customer-provided street lighting facilities or installed on the Company's existing distribution facilities.

APPLICABILITY

Service under this schedule is applicable to service requested or installed by Customers for the lighting of public streets, public alleys, public grounds, and thoroughfares. Street lighting lamps will be energized each night from dusk until dawn.

SERVICE LOCATION AND PERIOD

Street lighting facility locations, type of unit and lamp sizes, as changed from time to time by written request of the Customer and agreed to by the Company, shall be provided for Customers receiving service under Options A and B of this schedule. The in-service date for each street lighting facility shall also be maintained.

The minimum service period for any Company-owned street lighting facility is 10 years. The Company, upon written notification from the Customer, will remove a Company-owned street lighting facility:

1. At no cost to the Customer, if such facility has been in service for no less than the minimum service period. The Company will not grant a request from the Customer for reinstallation of street lighting service at the same location for a minimum period of two years from the date of removal.
2. Upon payment to the Company of the removal cost, if such facility has been in service for less than the minimum service period.

SERVICE OPTIONS

"A" - Idaho Power-Owned, Idaho Power-Maintained System - Effective October 1, 2019, high pressure sodium vapor lighting systems are not available for new installation.

The facilities required for supplying service, including fixture, lamp, control relay, mast arm for mounting on an existing utility pole, and energy for the operation thereof, are supplied, installed, owned and maintained by the Company. All necessary repairs and maintenance work, including group lamp replacement and glassware cleaning, will be performed by the Company during the regularly scheduled working hours of the Company on the Company's schedule. Individual lamps will be replaced on burnout as soon as reasonably possible after notification by the Customer and subject to the Company's operating schedules and requirements.

The Company has two standard high pressure sodium vapor street lighting fixture options, drop-glass or cut-off (shielded lighting). For each initial high pressure sodium vapor lighting fixture installation, the Customer is required to state, in writing, a fixture preference. A maintenance-related replacement of a current high pressure sodium vapor fixture will be made with a similar type of drop-glass or cut-off fixture as the one being replaced unless written notification has been received from the Customer requesting a change in fixture types.

SCHEDULE 41
STREET LIGHTING SERVICE
(Continued)

SERVICE OPTIONS (Continued)

"A" - Idaho Power-Owned, Idaho Power-Maintained System (Continued)

Company-owned lighting systems installed on or after June 1, 2004 shall not be constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage, such as through, but not limited to, the use of wired outlets or useable plug-ins.

Company-owned systems installed prior to June 1, 2004 that are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage may have the estimated annual variations in energy usage charged the Non-Metered Service – Variable Energy Charge until the potential for variations in energy usage has been eliminated. Repair, modification or alteration of these facilities is not permitted.

Accelerated Replacement of Existing Fixtures

In the event a Customer requests the Company perform an accelerated replacement of existing fixtures with the cut-off fixture, the following charges will apply:

1. The designed cost estimate which includes labor, time, and mileage costs for the removal of the existing street lighting fixtures.
2. \$132.00 per fixture removed from service.

The total charges identified in 1 and 2 above must be paid prior to the beginning of the fixture replacement and are non-refundable. The accelerated replacement will be performed by the Company during the regularly scheduled working hours of the Company and on the Company's schedule.

Dark Sky Lighting for High Pressure Sodium Vapor

In the event a Customer requests the Company perform an alteration of existing cut-off fixtures to become dark sky lighting compliant by replacing the existing drop-lens with a dark sky lighting compliant flat-lens, the following charges will apply:

1. The designed cost estimate which includes labor, time, and mileage costs for the alteration of the existing street lighting fixtures.
2. \$23.00 per fixture altered for dark sky lighting.

The total charges identified in 1 and 2 above must be paid prior to the beginning of the fixture alteration and are non-refundable. The fixture alteration to become dark sky lighting compliant will be performed by the Company during the regularly scheduled working hours of the Company and on the Company's schedule.

**SCHEDULE 41
STREET LIGHTING SERVICE
(Continued)**

SERVICE OPTIONS (Continued)

"A" - Idaho Power-Owned, Idaho Power-Maintained System (Continued)

LED Shield

In the event a Customer requests the Company install a shield on an LED fixture, the Customer will be responsible for the material cost of the equipment, as well as the design cost estimate which includes labor, time, and mileage costs for the alteration of the existing LED fixture.

Monthly Charges

The monthly charges are as follows, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees).

Lamp Charges, per lamp (41A)

<u>Equivalent</u>	<u>Base Rate</u> <u>Watts</u>	<u>Average Lumens</u>	<u>Watt Range</u>	<u>Lumen Range</u>
			<u>Standard High Pressure Sodium Vapor</u>	<u>LED</u>
			<u>Sodium Vapor</u>	
<u>30-40</u>	<u>3,600-4,800</u>	<u>\$11.39</u>	<u>70-Watt</u>	<u>5,540</u>
	<u>100-Watt</u>		<u>8,550</u>	<u>30-40</u>
	<u>3,600-4,800</u>	<u>\$10.86</u>		
	<u>200-Watt</u>	<u>19,800</u>	<u>70-85</u>	<u>7,200-9,600</u>
	<u>\$14.55</u>			
	<u>250-Watt</u>	<u>24,750</u>	<u>115-140</u>	<u>10,800-14,400</u>
	<u>\$15.83</u>			
	<u>400-Watt</u>	<u>45,000</u>	<u>175-200</u>	<u>18,000-24,000</u>
	<u>\$18.05</u>			

Non-Metered Service – Variable Energy

Energy Charge, per kWh 7.360¢

Pole Charges

For Company-owned poles installed after October 5, 1964 required to be used for street lighting only:

	<u>Charge</u>
Wood pole, per pole	\$1.81
Steel pole, per pole	\$7.18

Facilities Charges

Customers assessed a monthly facilities charge prior to June 1, 2004 will continue to be assessed a monthly facilities charge in accordance with the charges specified in Schedule 66.

Idaho Power Company ~~Ninth~~Tenth Revised Sheet No. 41-3

Cancels

I.P.U.C. No. 29, Tariff No. 101 ~~Eighth~~Ninth Revised Sheet No. 41-3

Payment

The monthly bill rendered for service supplied hereunder is payable upon receipt, and becomes past due 15 days from the date on which rendered.

SCHEDULE 41
STREET LIGHTING SERVICE
 (Continued)

SERVICE OPTIONS (Continued)

"B" - Customer-Owned, Idaho Power-Maintained System - No New Service and Effective September 30, 2023, Option B is closed to service.

The Customer's lighting system, including posts or standards, fixtures, initial installation of lamps and underground cables with suitable terminals for connection to the Company's distribution system, is installed and owned by the Customer and maintained by Idaho Power. Customer-owned lighting systems receiving maintenance under Option B must have Idaho Power standard wattage high pressure sodium vapor lamps installed in all street lighting fixtures.

Customer-owned systems installed on or after June 1, 2004 which are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage, such as through, but not limited to, the use of wired outlets or useable plug-ins, are required to be metered in order to record actual energy usage.

Customer-owned systems installed prior to June 1, 2004 that are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage may have the estimated annual variations in energy usage charged the Non-Metered Service – Variable Energy Charge until the street lighting system is converted to Metered Service, or until the potential for variations in energy usage has been eliminated, whichever is sooner.

Energy ~~A~~ and Maintenance Service

Energy and Maintenance Service includes operation of the system, energy, lamp renewals, cleaning of glassware, and replacement of defective photocells which are standard to the Company-owned street light units. Service does not include the labor or material cost of replacing cables, standards, broken glassware or fixtures, painting, or refinishing of metal poles. Individual lamps will be replaced on burnout as soon as reasonably possible after notification by the Customer and subject to the Company's operating schedules and requirements.

Monthly Charges

The monthly charges are as follows, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees).

~~Non-Metered Service, per lamp (41B)~~

Standard High Pressure Sodium Vapor	Average	Base
Energy and Maintenance Charges:	Lumens	Rate
70 Watt	5,450	\$3.07
100 Watt	8,550	\$3.43
200 Watt	19,800	\$4.96
250 Watt	24,750	\$6.11
400 Watt	45,000	\$8.64

~~Customer-owned systems installed prior to June 1, 2004 that are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage may have the estimated annual variations in energy usage charged the Non-Metered Service Energy Charge until the street lighting system is converted to Metered Service, or until the potential for variations in energy usage has been eliminated, whichever is sooner.~~

SCHEDULE 41
STREET LIGHTING SERVICE
(Continued)

SERVICE OPTIONS (Continued)

"C" - Customer-Owned, Customer-Maintained System (Continued)

All new Customer-owned lighting systems installed outside of Subdivisions on or after January 1, 2012 are required to be metered in order to record actual energy usage.

Customer-owned systems installed prior to June 1, 2004 that are constructed, operated, or modified in such a way as to allow for the potential or actual variation in energy usage may have the estimated annual variations in energy usage charged the Non-Metered Service - Energy Charge until the street lighting system is converted to Metered Service, or until the potential for variations in energy usage has been eliminated, whichever is sooner.

Monthly Charges

The monthly charges are as follows, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees). For non-metered service, the average monthly kWh of energy usage shall be estimated by the Company based on the total wattage of the Customer's lighting system and 4,059 hours of operation.

Non-Metered Service (41C)

Energy Charge, per kWh	5.1670¢
------------------------	---------

Metered Service (41CM)

Service Charge, per meter	\$3.36
Energy Charge, per kWh	5.053¢

NO NEW SERVICE

AVAILABILITY

~~Service under this schedule is available throughout the Company's service area within the State of Idaho to any Customer who, on October 31, 1981, was receiving service under this schedule.~~

APPLICABILITY

~~Service under this schedule is applicable to service required by municipalities for the lighting of public streets, alleys, public grounds, and thoroughfares. Street lighting lamps will be energized each night from dusk until dawn.~~

SERVICE LOCATION AND PERIOD

~~Street lighting facility locations, type of unit and lamp sizes, as changed from time to time by written request of the Customer and agreed to by the Company, shall be provided for Customers receiving service under this schedule. The in-service date for each street lighting facility shall also be maintained.~~

~~— The minimum service period for any street lighting facility is 10 years. The Company, upon written notification from the Customer, will remove a street lighting facility:~~

~~1. — At no cost to the Customer, if such facility has been in service for no less than the minimum service period. The Company will not grant a request from a Customer for reinstallation of street lighting service for a minimum period of two years from the date of removal.~~

SCHEDULE 41
STREET LIGHTING SERVICE
(Continued)

NO NEW SERVICE (Continued)

SERVICE LOCATION AND PERIOD (Continued)

2. Upon payment to the Company of the removal cost, if such facility has been in service for less than the minimum service period.

ORNAMENTAL LIGHTING – CUSTOMER-OWNED SYSTEM

The Customer's lighting system, including posts or standards, fixtures, initial installation of lamps and underground cables with suitable terminals for connection to the Company's distribution system, is installed and owned by the Customer.

Customer-owned non-metered lighting systems that have the potential for variations in energy usage, such as through, but not limited to, the use of wired outlets or useable plug-ins, may have the estimated annual variations in energy usage charged the Non-Metered Service – Variable Energy Charge until the street lighting system is converted to Metered Service, or until the potential for variations in energy usage has been eliminated.

Energy and Maintenance Service

Energy and Maintenance Service includes operation of the system, energy, lamp renewals, cleaning of glassware, and replacement of defective photocells which are standard to the Company-owned street light units. Service does not include the labor or material cost of replacing cables, standards, broken glassware or fixtures, or painting or refinishing of metal poles. Individual lamps will be replaced on burnout as soon as reasonably possible after notification by the Customer and subject to the Company's operating schedules and requirements.

Energy-Only Service

Energy-Only Service is available only to a metered lighting system. Service includes energy supplied from the Company's overhead or underground circuits and does not include any maintenance to the Customer's facilities.

A street lighting system receiving service under the Energy-Only Service offering is not eligible to transfer to any street lighting service option under this schedule that includes maintenance provisions to the Customer's facilities.

SCHEDULE 41**STREET LIGHTING SERVICE****(Continued)****NO NEW SERVICE (Continued)****ORNAMENTAL LIGHTING – CUSTOMER-OWNED SYSTEM (Continued)****Monthly Charges**

The monthly charges are as follows, and may also include charges as set forth in Schedule 55 (Power Cost Adjustment), Schedule 91 (Energy Efficiency Rider), and Schedule 95 (Adjustment for Municipal Franchise Fees).

Non-Metered Service (With Maintenance), per lamp

	<u>Average</u>	<u>Base</u>
	<u>Lumens</u>	<u>Rate</u>
<u>Mercury Vapor</u>		
175 Watt	7,654	\$4.70
400 Watt	19,125	\$8.77

Non-Metered Service – Variable Energy

Energy Charge, per kWh	7.360¢
------------------------	--------

Metered Service (With Maintenance) per lamp

<u>Mercury Vapor</u>	
175 Watt	\$1.31
400 Watt	\$1.32
Service Charge, per meter	\$3.36
Energy Charge, per kWh	5.053¢

Payment

The monthly bill rendered for service supplied hereunder is payable upon receipt, and becomes past due 15 days from the date on which rendered.