

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. A 298th Revised Sheet No. 1

Canceling P.S.C. Mo. No. 5 Sec. A 287th Revised Sheet No. 1

For ALL TERRITORY

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 1 2019th Revised Sheet No. 1

Canceling P.S.C. Mo. No. 5 Sec. 1 18th-19th Revised Sheet No. 1

For ALL TERRITORY

RESIDENTIAL SERVICE
SCHEDULE RG

AVAILABILITY:

This schedule is available for residential service to single-family dwellings or to multi-family dwellings within a single building. This schedule is not available for service through a single meter to two or more separate buildings each containing one or more dwelling units.

MONTHLY RATE:

	Summer Season	Winter Season
Customer Access Charge	\$ <u>13.0019.00</u>	\$ <u>13.0019.00</u>
The first 600-kWh, per kWh	\$ <u>0.130060.12754</u>	\$ <u>0.130060.12754</u>
Additional kWh, per kWh.....	\$ <u>0.130060.12754</u>	\$ <u>0.105740.10369</u>

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00039 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

PAYMENT:

Bills will be due on or before twenty-one (21) days after the date thereof. If not paid on or before the due date, a late payment charge of 0.5% on the unpaid balance will be applied.

GROSS RECEIPTS, OCCUPATION OR FRANCHISE TAXES:

There will be added to the Customer's bill, as a separate item, an amount equal to the proportionate part of any license, occupation, franchise, gross or other similar fee or tax now or hereafter imposed upon the Company by any municipality or any other governmental authority, whether imposed by ordinance, franchise, or otherwise, in which the fee or tax is based upon a flat sum payment, a percentage of gross receipts, net receipts, or revenues from the sale of electric service rendered by the Company to the Customer. When such tax or fee is imposed on the Company as a flat sum or sums, the proportionate amount applicable to each Customer's bill shall be determined by relating the annual total of such sum(s) to the Company's total annual revenue from the service provided by this tariff within the jurisdiction of the governmental body and the number of customers located within that jurisdiction. The amounts shall be converted to a fixed amount per customer, so that the amount, when accumulated from all customers within the geographic jurisdiction of the governmental body, will equal the amount of the flat sum(s). The fixed amount per customer shall be divided by 12 and applied to each monthly bill as a separate line item. The amount shall remain the same until the flat sum may be changed by the governmental body, in which case this process shall be adjusted to the new flat sum. The amount shall be modified prospectively by the Company anytime it appears, on an annual basis, that the Company is either over-collecting or under-collecting the amount of the flat sum(s) by more than five percent (5%) on an annual basis. Bills will be increased in the proportionate amount only in service areas where such tax or fee is applicable.

CONDITIONS OF SERVICE:

1. Voltage, phase and frequency of energy supplied will be as approved by the Company.
2. Service will be furnished for the sole use of the Customer and will not be resold, redistributed or submetered, directly or indirectly.
3. Service will be supplied through a single meter unless otherwise authorized by the Company. The point of delivery and location of the meter will be at the building wall unless otherwise specifically designated and approved in advance by the Company for each exception.
4. If this schedule is used for service through a single meter to multiple-family dwellings within a single building, each Customer charge and kWh block will be multiplied by the number of dwelling units served in calculating each month's bill.
5. Welding, X-ray, or other equipment characterized by severe or fluctuating demands, will not be served.
6. Intermittent or seasonal service will not be provided.
7. Bills for service will be rendered monthly. At the option of the Company, however, the meters may be read bimonthly with the bill for the alternate month based upon an estimated kWh consumption.
8. The Company Rules and Regulations, P.S.C. Mo. No. 5, Section 5, are a part of this schedule.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 1 1st Original Revised Sheet No. 1a

Canceling P.S.C. Mo. No. 5 Sec. 1 Original Sheet No. 1a

For ALL TERRITORY

RESIDENTIAL SERVICE
SCHEDULE RG

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Residential Service — Schedule RG Tax Rate Reduction ————— \$(0.00516)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 18th-19th Revised Sheet No. 1

Canceling P.S.C. Mo. No. 5 Sec. 2 187th Revised Sheet No. 1

For ALL TERRITORY

COMMERCIAL SERVICE
SCHEDULE CB

AVAILABILITY:

This schedule is available to any general service customer on the lines of the Company whose electric load is not consistently in excess of 40 kW, except those who are conveying electric service received to others whose utilization of same is for residential purposes other than transient or seasonal. Motels, hotels, inns, resorts, etc., and others who provide transient rooms and/or board service and/or provide service to dwellings on a transient or seasonal basis are not excluded from the use of this rate. The Company reserves the right to determine the applicability or the availability of this rate to any specific applicant for electric service.

MONTHLY RATE:

	Summer Season	Winter Season
Customer Access Charge.....	\$ <u>22-6925.00</u>	\$ <u>22-6925.00</u>
The first 700-kWh, per kWh.....	\$ <u>0.134680.13326</u>	\$ <u>0.134680.13326</u>
Additional kWh, per kWh.....	\$ <u>0.134680.13326</u>	\$ <u>0.118380.11980</u>

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00071 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

PAYMENT:

Bills will be due on or before twenty-one (21) days after the date thereof. If not paid, the above rate plus 5% then applies.

GROSS RECEIPTS, OCCUPATION OR FRANCHISE TAXES:

There will be added to the Customer's bill, as a separate item, an amount equal to the proportionate part of any license, occupation, franchise, gross or other similar fee or tax now or hereafter imposed upon the Company by any municipality or any other governmental authority, whether imposed by ordinance, franchise, or otherwise, in which the fee or tax is based upon a flat sum payment, a percentage of gross receipts, net receipts, or revenues from the sale of electric service rendered by the Company to the Customer. When such tax or fee is imposed on the Company as a flat sum or sums, the proportionate amount applicable to each Customer's bill shall be determined by relating the annual total of such sum(s) to the Company's total annual revenue from the service provided by this tariff within the jurisdiction of the governmental body and the number of customers located within that jurisdiction. The amounts shall be converted to a fixed amount per customer, so that the amount, when accumulated from all customers within the geographic jurisdiction of the governmental body, will equal the amount of the flat sum(s). The fixed amount per customer shall be divided by 12 and applied to each monthly bill as a separate line item. The amount shall remain the same until the flat sum may be changed by the governmental body, in which case this process shall be adjusted to the new flat sum. The amount shall be modified prospectively by the Company anytime it appears, on an annual basis, that the Company is either over-collecting or under-collecting the amount of the flat sum(s) by more than five percent (5%) on an annual basis. Bills will be increased in the proportionate amount only in service areas where such tax or fee is applicable.

CONDITIONS OF SERVICE:

1. The voltage, phase and frequency of energy supplied will be as approved by the Company.
2. Service will be furnished for the sole use of the Customer and will not be resold, redistributed or submetered, directly or indirectly.
3. Service will be supplied through a single meter unless otherwise authorized by the Company. The point of delivery and location of the meter will be at the building wall unless otherwise specifically designated and approved in advance by the Company for each exception.
4. Where the Customer's use of welding, or other equipment characterized by fluctuating or severe demands, necessitates the installation of additional or increased facilities (including distribution transformers, service conductors or secondaries) solely to serve such Customer, the applicable provisions of Rider XC will apply in amendment to the provisions of this schedule.
5. Living quarters incidental to commercial or industrial operations in the same building will only be served together with these operations through a single meter and billed under this or other applicable commercial industrial rates. Living quarters detached from commercial or industrial buildings will only be served under applicable residential schedules.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 1st Original-~~Revised~~ Sheet No. 1b

Canceling P.S.C. Mo. No. 5 Sec. 2 Original Sheet No. 1b

For ALL TERRITORY

COMMERCIAL SERVICE
SCHEDULE CB

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Commercial Service — Schedule CB Tax Rate Reduction ————— \$(0.00502)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 ~~18th~~19th Revised Sheet No. 2

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~17th-18th~~ Revised Sheet No. 2

For ALL TERRITORY

SMALL HEATING SERVICE
SCHEDULE SH

AVAILABILITY:

This schedule is available to any general service customer on the lines of the Company whose average load is not consistently in excess of 40 kW during the Summer Season and where the electric service supplied is the only source of energy at the service location and the customer permanently installs and regularly uses electric space-heating equipment for all internal space-heating comfort requirements. However, this schedule is not available to those who are conveying electric service received to others whose utilization of same is for residential purposes other than transient or seasonal. Motels, hotels, inns, resorts, etc., and others who provide transient rooms and/or board service and/or provide service to dwellings on a transient or seasonal basis are not excluded from the use of this rate. The Company reserves the right to determine the applicability or the availability of this rate to any specific applicant for electric service.

MONTHLY RATE:

	Summer Season	Winter Season
Customer Access Charge	\$ <u>22.6925.00</u>	\$ <u>22.6925.00</u>
The first 700-kWh, per kWh	\$ <u>0.128720.12987</u>	\$ <u>0.128720.12987</u>
Additional kWh, per kWh.....	\$ <u>0.128720.12987</u>	\$ <u>0.096160.09702</u>

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00071 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

PAYMENT:

Bills will be due on or before twenty-one (21) days after the date thereof. If not paid, the above rate plus 5% then applies.

GROSS RECEIPTS, OCCUPATION OR FRANCHISE TAXES:

There will be added to the Customer's bill, as a separate item, an amount equal to the proportionate part of any license, occupation, franchise, gross or other similar fee or tax now or hereafter imposed upon the Company by any municipality or any other governmental authority, whether imposed by ordinance, franchise, or otherwise, in which the fee or tax is based upon a flat sum payment, a percentage of gross receipts, net receipts, or revenues from the sale of electric service rendered by the Company to the Customer. When such tax or fee is imposed on the Company as a flat sum or sums, the proportionate amount applicable to each Customer's bill shall be determined by relating the annual total of such sum(s) to the Company's total annual revenue from the service provided by this tariff within the jurisdiction of the governmental body and the number of customers located within that jurisdiction. The amounts shall be converted to a fixed amount per customer, so that the amount, when accumulated from all customers within the geographic jurisdiction of the governmental body, will equal the amount of the flat sum(s). The fixed amount per customer shall be divided by 12 and applied to each monthly bill as a separate line item. The amount shall remain the same until the flat sum may be changed by the governmental body, in which case this process shall be adjusted to the new flat sum. The amount shall be modified prospectively by the Company anytime it appears, on an annual basis, that the Company is either over-collecting or under-collecting the amount of the flat sum(s) by more than five percent (5%) on an annual basis. Bills will be increased in the proportionate amount only in service areas where such tax or fee is applicable.

CONDITIONS OF SERVICE:

1. The voltage, phase and frequency of energy supplied will be as approved by the Company.
2. Service will be furnished for the sole use of the Customer and will not be resold, redistributed or submetered, directly or indirectly.
3. Service will be supplied through a single meter unless otherwise authorized by the Company. The point of delivery and location of the meter will be at the building wall unless otherwise specifically designated and approved in advance by the Company for each exception.
4. Where the Customer's use of welding, or other equipment characterized by fluctuating or severe demands, necessitates the installation of additional or increased facilities (including distribution transformers, service conductors or secondaries) solely to serve such Customer, the applicable provisions of Rider XC will apply in amendment to the provisions of this schedule.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 1st Original-~~Revised~~ Sheet No. 2b

Canceling P.S.C. Mo. No. 5 Sec. 2 Original Sheet No. 2b

For ALL TERRITORY

SMALL HEATING SERVICE
SCHEDULE SH

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 (“TCJA”)(Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Small Heating Service — Schedule SH Tax Rate Reduction — \$(0.00475)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 18th-19th Revised Sheet No. 3

Canceling P.S.C. Mo. No. 5 Sec. 2 17th-18th Revised Sheet No. 3

For ALL TERRITORY

GENERAL POWER SERVICE
SCHEDULE GP

AVAILABILITY:

This schedule is available for electric service to any general service Customer except those who are conveying electric service received to others whose utilization of same is purely for residential purposes other than transient or seasonal. Motels, hotels, inns, resorts, etc., and others who provide transient rooms and board service or room service and/or provide service to dwellings on a transient or seasonal basis are ~~not excluded from the use of~~ included in this rate. The Company reserves the right to determine the applicability or the availability of this rate to any specific applicant for electric service.

MONTHLY RATE:

	Summer Season	Winter Season
CUSTOMER ACCESS CHARGE	\$ <u>69-4980.00</u>	\$ <u>69-4980.00</u>
DEMAND CHARGE:		
Per kW of Billing Demand	\$ 7.33	\$ 5.71
FACILITIES CHARGE		
per kW of Facilities Demand.....	\$ 2.07	\$ 2.07
ENERGY CHARGE:		
First 150 hours use of Metered Demand, per kWh.....	\$ 0.09024	\$ 0.07799
Next 200 hours use of Metered Demand, per kWh	\$ 0.07084	\$ 0.06420
All additional kWh, per kWh	\$ 0.06398	\$ 0.06368

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year. If an interval data recorder is required for billing purposes, the Customer Charge will be \$248.77.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00071 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

DETERMINATION OF BILLING DEMAND:

The monthly Metered Demand will be determined from the highest fifteen minute integrated kilowatt demand registered during the month by a suitable demand meter. The monthly Billing Demand will be the monthly Metered Demand or 40 kW, whichever is greater.

DETERMINATION OF MONTHLY FACILITIES DEMAND:

The monthly Facilities Demand will be determined by a comparison of the current month's metered demand and the metered demand recorded in each of the previous 11 months. If there are less than 11 previous months of data, all available data from previous months will be used. The monthly Facilities Demand will be the maximum demand as determined by this comparison or 40 kW, whichever is greater.

TRANSFORMER OWNERSHIP:

Where the Customer supplies all facilities (other than metering equipment) for utilization of service at the voltage of the Company's primary line feeding to such location, a reduction of \$0.355 per kW will apply to the Facilities Charge.

METERING ADJUSTMENT:

The above rate applies for service metered at secondary voltage. Where service is metered at the voltage of the primary line feeding to such location, metered kilowatts and kilowatt-hours will be reduced prior to billing by multiplying metered kilowatts and kilowatt-hours by 0.9806.

MINIMUM MONTHLY BILL:

During any month in which service is rendered, the minimum monthly bill will be the Customer Charge plus the Demand Charge plus the Facilities Charge.

PAYMENT:

The above rate applies only if the bill is paid on or before fourteen (14) days after the date thereof. If not so paid, the above rate plus 5% then applies.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 1st Original-~~Revised~~ Sheet No. 3b

Canceling P.S.C. Mo. No. 5 Sec. 2 Original Sheet No. 3b

For ALL TERRITORY

GENERAL POWER SERVICE
SCHEDULE GP

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— General Power Service — Schedule GP Tax Rate Reduction — \$(0.00370)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 ~~19th~~20th Revised Sheet No. 4

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~18th~~19th Revised Sheet No. 4

For ALL TERRITORY

**LARGE POWER SERVICE
SCHEDULE LP**

AVAILABILITY:

This schedule is available for electric service to any general service Customer except those who are conveying electric service received to others whose utilization of same is for residential purposes other than transient or seasonal. Motels, hotels, inns, resorts, etc., and others who provide transient room and board service or room service and/or provide service to dwellings on a transient or seasonal basis are not excluded from the use of this rate. The Company reserves the right to determine the applicability or the availability of this rate to any specific applicant for electric service.

MONTHLY RATE:

	Summer Season	Winter Season	
CUSTOMER ACCESS CHARGE	\$ 283.55	<u>325.00</u>	\$ 283.55 <u>325.00</u>
DEMAND CHARGE:			
Per kW of Billing Demand	\$ 15.69	\$ 8.66	
FACILITIES CHARGE			
per kW of Facilities Demand	\$ 1.88 <u>2.86</u>	\$ 1.88 <u>2.86</u>	
ENERGY CHARGE:			
First 350 hours use of Metered Demand, per kWh	\$ 0.06809	\$ 0.06048	
All additional kWh, per kWh	\$ 0.03683	\$ 0.03552	

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year.

To be eligible for this schedule, the customer agrees to provide, at the Customer's expense, an analog telephone line to the metering location(s), for use by the Company to retrieve interval metering data for billing and load research purposes. This telephone line must be available to the Company between the hours of midnight and 6:00am each day.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00071 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

DETERMINATION OF BILLING DEMAND:

The monthly Metered Demand will be determined from the highest fifteen minute integrated kilowatt demand registered during the month by a suitable demand meter. The monthly Billing Demand will be the monthly Metered Demand, or 1000 kW, whichever is greater.

DETERMINATION OF MONTHLY FACILITIES DEMAND:

The monthly Facilities Demand will be determined by a comparison of the current month's metered demand and the metered demand recorded in each of the previous 11 months. If there are less than 11 previous months of data, all available data from previous months will be used. The monthly Facilities Demand will be the maximum demand as determined by this comparison or 1000 kW, whichever is greater.

TRANSFORMER OWNERSHIP:

If the Company supplies a standard transformer and secondary facilities, a secondary facility charge of \$0.385 per kW of facilities demand will apply, otherwise, Rider XC will apply, unless Customer supplies their own secondary facilities.

SUBSTATION FACILITIES CREDIT:

The above facilities charge does not apply if the stepdown-substation and transformer are owned by the Customer.

METERING ADJUSTMENT:

The above rate applies for service metered at primary voltage. Where service is metered at secondary voltage, metered kilowatts and kilowatt-hours will be increased prior to billing by multiplying metered kilowatts and kilowatt-hours by 1.0237.

Where service is metered at transmission voltage, metered kilowatts and kilowatt-hours will be reduced prior to billing by multiplying kilowatts and kilowatt-hours by 0.9756.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 1st Original-~~Revised~~ Sheet No. 4b

Canceling P.S.C. Mo. No. 5 Sec. 2 Original Sheet No. 4b

For ALL TERRITORY

LARGE POWER SERVICE
SCHEDULE LP

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Large Power Service — Schedule LP Tax Rate Reduction ————— \$(0.00298)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 ~~18th-19th~~ Revised Sheet No. 6

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~17th-18th~~ Revised Sheet No. 6

For ALL TERRITORY

FEED MILL AND GRAIN ELEVATOR SERVICE
SCHEDULE PFM

AVAILABILITY:

This schedule is available for electric service to any custom feed mill or grain elevator.

MONTHLY RATE:

	Summer Season	Winter Season
Customer Access Charge	\$ <u>27.6528.50</u>	\$ <u>27.6528.50</u>
The first 700-kWh, per kWh	\$ <u>0.180200.17800</u>	\$ <u>0.180200.17800</u>
Additional kWh, per kWh.....	\$ <u>0.180200.17800</u>	\$ <u>0.163700.16170</u>

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year.

PAYMENT:

The above rate applies only if the bill is paid on or before twenty-one (21) days after the date thereof. If not so paid, the above rate plus 5% then applies.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00071 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

GROSS RECEIPTS, OCCUPATION OR FRANCHISE TAXES:

There will be added to the Customer's bill, as a separate item, an amount equal to the proportionate part of any license, occupation, franchise, gross or other similar fee or tax now or hereafter imposed upon the Company by any municipality or any other governmental authority, whether imposed by ordinance, franchise, or otherwise, in which the fee or tax is based upon a flat sum payment, a percentage of gross receipts, net receipts, or revenues from the sale of electric service rendered by the Company to the Customer. When such tax or fee is imposed on the Company as a flat sum or sums, the proportionate amount applicable to each Customer's bill shall be determined by relating the annual total of such sum(s) to the Company's total annual revenue from the service provided by this tariff within the jurisdiction of the governmental body and the number of customers located within that jurisdiction. The amounts shall be converted to a fixed amount per customer, so that the amount, when accumulated from all customers within the geographic jurisdiction of the governmental body, will equal the amount of the flat sum(s). The fixed amount per customer shall be divided by 12 and applied to each monthly bill as a separate line item. The amount shall remain the same until the flat sum may be changed by the governmental body, in which case this process shall be adjusted to the new flat sum. The amount shall be modified prospectively by the Company anytime it appears, on an annual basis, that the Company is either over-collecting or under-collecting the amount of the flat sum(s) by more than five percent (5%) on an annual basis. Bills will be increased in the proportionate amount only in service areas where such tax or fee is applicable.

CONDITIONS OF SERVICE:

1. The voltage, phase and frequency of energy supplied will be as approved by the Company.
2. Service will be supplied through a single meter unless otherwise authorized by the Company. The point of delivery and location of the meter will be at the building wall unless otherwise specifically designated and approved in advance by the Company for each exception.
3. Service will be furnished for the sole use of the Customer and will not be resold, redistributed or submetered, directly or indirectly.
4. The term of service will not be less than one (1) year. Intermittent or seasonal service will not be provided.
5. Bills for service will be rendered monthly.
6. The Company Rules and Regulations, P.S.C. Mo. No. 5, Section 5, are a part of this schedule.
7. No new customers will be accepted on this rate.

DATE OF ISSUE August 15, 2016 14, 2019 DATE EFFECTIVE September 14, 2016 13, 2019
 ISSUED BY Kelly S. Walters, Vice President Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 1st ~~Original- Revised~~ Sheet No. 6a

Canceling P.S.C. Mo. No. 5 Sec. 2 Original Sheet No. 6a

For ALL TERRITORY

FEED MILL AND GRAIN ELEVATOR SERVICE
SCHEDULE PFM

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Feed Mill and Grain Elevator Service — Schedule PFM Tax Rate Reduction — \$(0.00552)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 ~~18th-19th~~ Revised Sheet No. 7

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~17th-18th~~ Revised Sheet No. 7

For ALL TERRITORY

**TOTAL ELECTRIC BUILDING SERVICE
SCHEDULE TEB**

AVAILABILITY:

This schedule is available to any general services customers on the lines of the Company for total electric service except those customers who are conveying electric service to others whose utilization of the same is for residential purposes other than transient or seasonal. Motels, hotels, inns, etc., and others who provide transient room and/or room and board service and/or provide service to dwellings on a transient or seasonal basis are not excluded from the use of this rate. The Company reserves the right to determine the applicability or the availability of this rate to any specific applicant for electric service.

MONTHLY RATE:	Summer Season	Winter Season
CUSTOMER ACCESS CHARGE	\$ <u>69.4972.00</u>	\$ <u>69.4972.00</u>
DEMAND CHARGE:		
Per kW of Billing Demand	\$ <u>3.503.49</u>	\$ <u>2.882.87</u>
FACILITIES CHARGE		
per kW of Facilities Demand.....	\$ <u>2.132.13</u>	\$ <u>2.132.13</u>
ENERGY CHARGE:		
First 150 hours use of Metered Demand, per kWh.....	\$ <u>0.108170.10794</u>	\$ <u>0.082720.08254</u>
Next 200 hours use of Metered Demand, per kWh	\$ <u>0.084720.08454</u>	\$ <u>0.067050.06690</u>
All additional kWh, per kWh.....	\$ <u>0.076650.07648</u>	\$ <u>0.065800.06566</u>

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year. If an interval data recorder is required for billing purposes, the Customer Charge will be \$248.77.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00071 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

DETERMINATION OF BILLING DEMAND:

The monthly Metered Demand will be determined from the highest fifteen minute integrated kilowatt demand registered during the month by a suitable demand meter. The monthly Billing Demand will be the monthly Metered Demand or 40 kW, whichever is greater.

DETERMINATION OF MONTHLY FACILITIES DEMAND:

The monthly Facilities Demand will be determined by a comparison of the current month's metered demand and the metered demand recorded in each of the previous 11 months. If there are less than 11 previous months of data, all available data from previous months will be used. The monthly Facilities Demand will be the maximum demand as determined by this comparison or 40 kW, whichever is greater.

TRANSFORMER OWNERSHIP:

Where the Customer supplies all facilities (other than metering equipment) for utilization of service at the voltage of the Company's primary line feeding to such location, a reduction of \$0.355 per kW will apply to the Facilities charge.

METERING ADJUSTMENT:

The above rate applies for service metered at secondary voltage. Where service is metered at the voltage of the primary line feeding to such location, metered kilowatts and kilowatt-hours will be reduced prior to billing by multiplying metered kilowatts and kilowatt-hours by 0.9806.

MINIMUM MONTHLY BILL:

During any month in which service is rendered, the minimum monthly bill will be the Customer charge plus the demand charge plus the Facilities Charge.

PAYMENT:

The above rate applies only if the bill is paid on or before fourteen (14) days after the date thereof. If not so paid, the above rate plus 5% then applies.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 1st Original-~~Revised~~ Sheet No. 7b

Canceling P.S.C. Mo. No. 5 Sec. 2 Original Sheet No. 7b

For ALL TERRITORY

TOTAL ELECTRIC BUILDING SERVICE
SCHEDULE TEB

FEDERAL TAX RATE REDUCTION

~~This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~Total Electric Building Service — Schedule TEB Tax Rate Reduction — \$(0.00408)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 14th-15th Revised Sheet No. 9

Canceling P.S.C. Mo. No. 5 Sec. 2 13th-14th Revised Sheet No. 9

For ALL TERRITORY

SPECIAL TRANSMISSION SERVICE CONTRACT: PRAXAIR
SCHEDULE SC-P

AVAILABILITY:

This schedule is available for electric service to PRAXAIR, INC. (Customer) as stated in the contract for power service between THE EMPIRE DISTRICT ELECTRIC COMPANY (Company) and PRAXAIR, INC. ("the contract").

MONTHLY RATE:

	Summer Season	Winter Season
CUSTOMER ACCESS CHARGE	\$ 259.04 <u>275.00</u>	\$ 259.04 <u>275.00</u>
ON-PEAK DEMAND CHARGE		
Per kW of Billing Demand	\$ 25.46 <u>25.74</u>	\$ 47.40 <u>17.50</u>
SUBSTATION FACILITIES CHARGE		
Per kW of Facilities Demand.....	\$ 0.50 <u>0.510</u>	\$ 0.50 <u>0.510</u>
ENERGY CHARGE, per kWh:		
On-Peak Period	\$ 0.054120 <u>0.05537</u>	\$ 0.038380 <u>0.03927</u>
Shoulder Period	\$ 0.043740 <u>0.04472</u>	
Off-Peak Period	\$ 0.033730 <u>0.03451</u>	\$ 0.031840 <u>0.03258</u>

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year. The On-Peak hours will be weekdays, excluding holidays, from 12:00 p.m. through 7:00 p.m. during the Summer Season and 6:00 a.m. through 10:00 p.m. during the Winter Season. The Shoulder hours will be weekends from 12:00 p.m. through 9:00 p.m. and weekdays from 9:00 a.m. through 12:00 p.m. and 7:00 p.m. through 10:00 p.m. during the Summer Season. All other hours are Off-Peak. Holidays include New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, as specified by the North American Electric Reliability Council (NERC).

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00071 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

DETERMINATION OF DEMANDS (CPD, MFD, ID):

An appropriate level of demand at the time of the Company's system peak shall be determined for PRAXAIR under this Schedule. This Customer Peak Demand ("CPD") shall be either PRAXAIR's actual maximum measured kW demand during a peak period, or a calculated amount based upon conditions involving PRAXAIR's actual or expected operations, and agreed upon between Company and PRAXAIR.

CURTAILMENT LIMITS:

The number of Curtailment Events in a Curtailment Year shall be no more than thirteen (13). Each Curtailment Event shall be no less than two or no more than eight consecutive hours and no more than one occurrence will be required per day unless needed to address a system reliability event. The cumulative hours of curtailment per Customer shall not exceed ~~fifty (50) hours through October 31, 2016, after which the maximum number of hours of interruption for the November 1, 2016 to October 31, 2017 contract year will be seventy five (75) hours, and the maximum number of hours of interruption after November 1, 2017 will be~~ one hundred (100) hours during any contract year. The Curtailment Contract Year shall be November 1 through October 31.

DETERMINATION OF BILLING DEMAND:

The monthly "On-Peak Demand" shall be determined as being the highest fifteen (15) minute integrated kilowatt demand registered by a suitable demand meter during the peak hours as stated above. In no event shall the Peak Demand be less than the lesser of 6000 kW or Customer's MFD for Customers that have contracted interruptible capacity as specified in the contract or any future amendments thereto.

DETERMINATION OF MONTHLY FACILITIES DEMAND:

The monthly "Substation Facilities Demand" shall be determined as being the highest fifteen (15) minute integrated demand registered by a suitable demand meter during all hours. In no event shall Substation Facility Demand, if applicable be less than the greater of 6000 kW and Customer's CPD for Customers that have contracted interruptible capacity as specified in the contract or any future amendments thereto.

METERING ADJUSTMENT:

The above rates apply for service metered at transmission voltage. Where service is metered at substation voltage, metered kilowatts and kilowatt-hours will be increased prior to billing by multiplying metered kilowatts and kilowatt-hours by 1.0086.

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ISSUED BY Kelly S. Walters, Vice President ~~Sheri Richard, Director Rates and Regulatory Affairs~~, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 1st Original Revised Sheet No. 9c

Canceling P.S.C. Mo. No. 5 Sec. 2 Original Sheet No. 9c

For ALL TERRITORY

SPECIAL TRANSMISSION SERVICE CONTRACT: PRAXAIR
SCHEDULE SC-P

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Special Transmission Service Contract Praxair — Schedule SC-P Tax Rate Reduction — \$(0.00245)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 13th14th Revised Sheet No. 13

Canceling P.S.C. Mo. No. 5 Sec. 2 12th13th Revised Sheet No. 13

For ALL TERRITORY

SPECIAL TRANSMISSION SERVICE
SCHEDULE ST

AVAILABILITY:

This schedule is available for electric service to any general service Customer who has signed a service contract with THE EMPIRE DISTRICT ELECTRIC COMPANY. The Company shall supply, sell and deliver electric power at transmission or substation voltage, and the Customer shall take and pay for said power under the provisions of the contract.

NET MONTHLY RATE:

	Summer Season	Winter Season
CUSTOMER ACCESS CHARGE	\$ 259.01 <u>275.00</u>	\$ 259.01 <u>275.00</u>
ON-PEAK DEMAND CHARGE		
Per kW of Billing Demand	\$ 25.16 <u>26.51</u>	\$ 17.10 <u>18.02</u>
SUBSTATION FACILITIES CHARGE		
Per kW of Facilities Demand	\$ 0.50 <u>00.53</u>	\$ 0.50 <u>00.53</u>
ENERGY CHARGE, per kWh:		
Peak Period.....	\$ 0.0541 <u>20.05703</u>	\$ 0.0383 <u>80.04045</u>
Shoulder Period	\$ 0.0437 <u>10.04606</u>	
Off-Peak Period.....	\$ 0.0337 <u>30.03555</u>	\$ 0.0318 <u>40.03355</u>

The Summer Season will be the first four monthly billing periods billed on and after June 16, and the Winter Season will be the remaining eight monthly billing periods of the calendar year. The Peak hours will be weekdays, excluding holidays, from 12:00 p.m. through 7:00 p.m. during the Summer Season and 6:00 a.m. through 10:00 p.m. during the Winter Season. The Shoulder hours will be weekends from 12:00 p.m. through 9:00 p.m. and weekdays from 9:00 a.m. through 12:00 p.m. and 7:00 p.m. through 10:00 p.m. during the Summer Season. All other hours are Off-Peak.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

ENERGY EFFICIENCY COST RECOVERY:

The above charges will be adjusted to include a charge of \$0.00071 per kWh on all customers who have not declined to participate in Company's energy efficiency programs under P.S.C. Rule 4 CSR 240-20.094(6).

DETERMINATION OF BILLING DEMAND:

The monthly "On-Peak Demand" shall be determined as being the highest fifteen (15) minute integrated kilowatt demand registered by a suitable demand meter during the peak hours as stated above. In no event shall Peak Demand be less than the lesser of 6000 kW or Customer's MFD for Customers that have contracted interruptible capacity as specified in the contract or any future amendments thereto.

DETERMINATION OF MONTHLY FACILITIES DEMAND:

The monthly "Substation Facilities Demand" if applicable, shall be determined as being the highest fifteen (15) minute integrated demand registered by a suitable demand meter during all hours. In no event shall Substation Facility Demand, if applicable, be less than the greater of 6000 kW and Customer's CPD for Customers that have contracted interruptible capacity as specified in the contract or any future amendments thereto.

METERING ADJUSTMENT:

The above rates apply for service metered at transmission voltage. Where service is metered at substation voltage, metered kilowatts and kilowatt-hours will be increased prior to billing by multiplying kilowatts and kilowatt-hours by 1.0086.

MINIMUM MONTHLY BILL:

Except as provided in the above-mentioned contract, the Minimum Monthly Bill shall be the Customer Charge plus the On-Peak Demand Charge plus any applicable Facilities Charge.

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ISSUED BY Kelly S. Walters, Vice President Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 5th6th Revised Sheet No. 14a

Canceling P.S.C. Mo. No. 5 Sec. 2 4th5th Revised Sheet No. 14a

For ALL TERRITORY

SPECIAL TRANSMISSION SERVICE
SCHEDULE ST

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 (“TCJA”)(Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Special Transmission Service — Schedule ST Tax Rate Reduction — \$(0.00245)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 17th-18th
1

Revised Sheet No.

Canceling P.S.C. Mo. No. 5 Sec. 3 16th-17th
1

Revised Sheet No.

For ALL TERRITORY

MUNICIPAL STREET LIGHTING SERVICE
 SCHEDULE SPL

AVAILABILITY:

This schedule is available to municipalities served by the Company under the provisions of an Electric Franchise having an original term of not less than ten (10) years, for outdoor lighting for streets, alleys, parks and public places under the provisions of the Company's standard Municipal Electric Service Agreement, having an original term of not less than two (2) years.

ANNUAL STREET LIGHTING CHARGE:	Annual Charge Per Lamp	Annual kWh	Watts
Incandescent Lamp Sizes (No New Installation Allowed)			
4,000 lumen	\$ 65.55 <u>68.18</u>	1,088	
Mercury-Vapor Lamp Sizes: (No New Installation Allowed)			
7,000 lumen	89.02 <u>92.60</u>	784	175
11,000 lumen	106.85 <u>111.14</u>	1,186	250
20,000 lumen	152.97 <u>159.11</u>	1,868	400
53,000 lumen	258.08 <u>268.44</u>	4,475	1000
High-Pressure Sodium-Vapor Lamp Sizes (Lucalox, etc.):			
6,000 lumen	83.42 <u>86.77</u>	374	70
16,000 lumen	104.43 <u>108.62</u>	694	150
27,500 lumen	135.91 <u>141.37</u>	1,271	250
50,000 lumen	193.68 <u>201.46</u>	1,880	400
130,000 lumen	312.56 <u>325.11</u>	4,313	1000
Metal Halide Lamp Sizes:			
12,000 lumen	130.55 <u>135.79</u>	696	175
20,500 lumen	159.99 <u>166.42</u>	1,020	250
36,000 lumen	214.03 <u>222.63</u>	1,620	400
110,000 lumen	472.96 <u>491.95</u>	4,056	1000

The monthly charge per lamp, is 1/12th of the annual charge.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

DETERMINATION OF ENERGY (kWh) USAGE FOR NON-METERED FIXTURES:

The monthly energy for each type and size of lamp is determined by multiplying the annual kWh listed above, by the monthly usage factor listed in the table below:

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	12 month total
Usage Factor	.103	.089	.087	.075	.070	.064	.067	.073	.079	.091	.098	.104	1.00

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 1st Original-~~Revised~~ Sheet No. 1a.1

Canceling P.S.C. Mo. No. 5 Sec. 3 Original Sheet No. 1a.1

For ALL TERRITORY

MUNICIPAL STREET LIGHTING SERVICE
SCHEDULE SPL

~~**FEDERAL TAX RATE REDUCTION**~~

~~This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~Municipal Street Lighting Service — Schedule SPL Tax Rate Reduction — \$(0.00598)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 21st-22nd Revised Sheet No. 2

Canceling P.S.C. Mo. No. 5 Sec. 3 20th-21st Revised Sheet No. 2

For ALL TERRITORY

PRIVATE LIGHTING SERVICE
SCHEDULE PL

AVAILABILITY:

This schedule is available for outdoor lighting service to any retail Customer.

MONTHLY RATE:

	Per Lamp	Monthly kWh	Watts
STANDARD STREET LIGHTING CONSTRUCTION:			
Mercury-Vapor Lamp Sizes (No new installations allowed):			
6,800 lumen	\$ 15.79 <u>15.83</u>	65	175
20,000 lumen	\$ 26.28 <u>26.34</u>	156	400
54,000 lumen	\$ 50.37 <u>50.48</u>	373	1000
Sodium-Vapor Lamp Sizes:			
6,000 lumen	\$ 14.58 <u>14.61</u>	31	70
16,000 lumen	\$ 21.22 <u>21.27</u>	58	150
27,500 lumen	\$ 30.67 <u>30.74</u>	106	250
50,000 lumen	\$ 35.57 <u>35.65</u>	157	400
Metal Halide Lamp Sizes:			
12,000 lumen	\$ 24.60 <u>24.65</u>		59
175 20,500 lumen	\$ 32.83 <u>32.90</u>	85	250
36,000 lumen	\$ 36.83 <u>36.91</u>	135	400
LED			
7,500-9,500 lumen	\$ 00.00 <u>14.61</u>	31	92
13,000-16,000 lumen	\$ 00.00 <u>21.27</u>	48	143

STANDARD FLOOD LIGHTING CONSTRUCTION:

Mercury-Vapor Lamp Sizes (No new installations allowed):			
20,000 lumen	\$ 36.83 <u>36.91</u>	156	400
54,000 lumen	\$ 60.81 <u>62.63</u> <u>60.95</u>	373	1000
Sodium-Vapor Lamp Sizes:			
27,500 lumen	\$ 35.68 <u>35.76</u>	106	250
50,000 lumen	\$ 48.94 <u>49.05</u>	157	400
140,000 lumen	\$ 71.51 <u>71.67</u>	359	1000
Metal Halide Lamp Sizes:			
12,000 lumen	\$ 25.26 <u>25.58</u>	59	175
20,500 lumen	\$ 33.79 <u>33.87</u>	85	250
36,000 lumen	\$ 49.82 <u>49.93</u>	135	400
110,000 lumen	\$ 72.89 <u>72.96</u>	338	1000
LED			
16,000-19,000 lumen	\$ 00.00 <u>35.76</u>	51	150
28,000-32,000 lumen	\$ 00.00 <u>49.05</u>	74	218

Additional Charge for installations requiring additions to, or rearrangement of, existing facilities:

Regular wood pole, per month	\$ 2.03 <u>2.03</u> <u>2.03</u>
Transformer	\$ 2.03 <u>2.03</u>
Guy and anchor, per month	\$ 2.03 <u>2.03</u>
Overhead conductor, three wire, per foot, per month	\$ 0.02
Other (miscellaneous) per month	1.5% of the estimated installed cost thereof

For installations requiring a large expenditure for additions to, or rearrangements of existing facilities, the total additional charge may be computed at 1.5% of the estimated installed cost thereof per month. Such estimated installed cost excludes the estimated installed cost of materials required for standard construction (see Conditions of Service, No. 1, below).

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

DETERMINATION OF ENERGY (kWh) FOR NON-METERED FIXTURES:

DATE OF ISSUE February 28, 2013 August 14, 2019 DATE EFFECTIVE April 1, 2013 September 13, 2019
ISSUED BY Kelly S. Walters, Vice President Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 ~~21st-22nd~~ Revised Sheet No. 2

Canceling P.S.C. Mo. No. 5 Sec. 3 ~~20th-21st~~ Revised Sheet No.
2

For ALL TERRITORY

PRIVATE LIGHTING SERVICE
SCHEDULE PL

The monthly energy (kWh) for each type and size of lamp is listed above.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 1st ~~Original- Revised~~ Sheet No. 2b

Canceling P.S.C. Mo. No. 5 Sec. 3 Original Sheet No. 2b

For ALL TERRITORY

PRIVATE LIGHTING SERVICE
SCHEDULE PL

~~**FEDERAL TAX RATE REDUCTION**~~

~~This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~Private Lighting Service — Schedule PL Tax Rate Reduction — \$(0.01098)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 ~~16th-17th~~ Revised
 Sheet No. 3

Canceling P.S.C. Mo. No. 5 Sec. 3 ~~15th16th~~ Revised Sheet No. 3

For ALL TERRITORY

SPECIAL LIGHTING SERVICE
 SCHEDULE LS

AVAILABILITY:

This schedule is available for electric service to sport field lighting, holiday decorative lighting or similar nighttime temporary or seasonal use.

MONTHLY RATE:

For the first 1,000 kWh used, per kWh \$ 0.17460.17812
 For all additional kWh used, per kWh 0.13690.13966

MINIMUM:

The net monthly minimum charge for any month during which electrical energy is used will be \$46.66.

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

CONSUMPTION:

Service will normally be delivered and metered hereunder at the secondary voltage available at the service location. Where physical circumstances would normally make it necessary to meter the service at primary voltage, the Company may at its option install a time clock in place of primary metering facilities to measure the hours-use of the service and compute the kilowatt-hours' consumption of the sport field by using the customer's connected load. The connected load used for the calculation will be, determined at the time of installation and at such subsequent times as the Company may deem necessary by actual load check of the customer's facilities. Unmetered dusk to dawn service may be provided, in which case the connected load will be used to determine the kilowatt-hours consumed.

INSTALLATION CHARGE:

In addition to the above charges, a customer of temporary nature will be required to pay the net cost of erection and removal of any special facilities necessary to provide service. Such net cost will include the Company's total expenditure for labor, material, supervision and all other costs necessary to erect and remove facilities for service, less proper credit for actual salvage.

PAYMENT:

Bills will be due on or before twenty-one (21) days after the date thereof.

GROSS RECEIPTS, OCCUPATION OR FRANCHISE TAXES:

There will be added to the Customer's bill, as a separate item, an amount equal to the proportionate part of any license, occupation, franchise, gross or other similar fee or tax now or hereafter imposed upon the Company by any municipality or any other governmental authority, whether imposed by ordinance, franchise, or otherwise, in which the fee or tax is based upon a flat sum payment, a percentage of gross receipts, net receipts, or revenues from the sale of electric service rendered by the Company to the Customer. When such tax or fee is imposed on the Company as a flat sum or sums, the proportionate amount applicable to each Customer's bill shall be determined by relating the annual total of such sum(s) to the Company's total annual revenue from the service provided by this tariff within the jurisdiction of the governmental body and the number of customers located within that jurisdiction. The amounts shall be converted to a fixed amount per customer, so that the amount, when accumulated from all customers within the geographic jurisdiction of the governmental body, will equal the amount of the flat sum(s). The fixed amount per customer shall be divided by 12 and applied to each monthly bill as a separate line item. The amount shall remain the same until the flat sum may be changed by the governmental body, in which case this process shall be adjusted to the new flat sum. The amount shall be modified prospectively by the Company anytime it appears, on an annual basis, that the Company is either over-collecting or under-collecting the amount of the flat sum(s) by more than five percent (5%) on an annual basis. Bills will be increased in the proportionate amount only in service areas where such tax or fee is applicable.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 1st Original-~~Revised~~ Sheet No. 3b

Canceling P.S.C. Mo. No. 5 Sec. 3 Original Sheet No. 3b

For ALL TERRITORY

SPECIAL LIGHTING SERVICE
SCHEDULE LS

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Special Lighting Service — Schedule LS Tax Rate Reduction — \$(0.00676)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 ~~16th~~17th Revised Sheet No. 4

Canceling P.S.C. Mo. No. 5 Sec. 3 ~~15th-16th~~ Revised Sheet No. 4

For ALL TERRITORY

MISCELLANEOUS SERVICE
SCHEDULE MS

AVAILABILITY:

This schedule is available for electric service to signal systems or similar unmetered service and to temporary or seasonal use.

MONTHLY RATE:

Customer charge..... \$ ~~19.54~~21.00
For all energy used, per kWh..... \$ ~~0.10170~~.10573

FUEL ADJUSTMENT CLAUSE:

The above charges will be adjusted in an amount provided by the terms and provisions of the Fuel Adjustment Clause, Rider FAC.

CONSUMPTION:

The connected load will be used to calculate the kilowatt-hours consumed on unmetered service.

INSTALLATION CHARGE:

In addition to the above charges, a customer of temporary nature will be required to pay the net cost of erection and removal of any special facilities necessary to provide service. Such net cost will include the Company's total expenditure for labor, material, supervision and all other costs necessary to erect and remove facilities for service, less proper credit for actual salvage.

PAYMENT:

Bills will be due on or before twenty-one (21) days after the date thereof.

GROSS RECEIPTS, OCCUPATION OR FRANCHISE TAXES:

There will be added to the Customer's bill, as a separate item, an amount equal to the proportionate part of any license, occupation, franchise, gross or other similar fee or tax now or hereafter imposed upon the Company by any municipality or any other governmental authority, whether imposed by ordinance, franchise, or otherwise, in which the fee or tax is based upon a flat sum payment, a percentage of gross receipts, net receipts, or revenues from the sale of electric service rendered by the Company to the Customer. When such tax or fee is imposed on the Company as a flat sum or sums, the proportionate amount applicable to each Customer's bill shall be determined by relating the annual total of such sum(s) to the Company's total annual revenue from the service provided by this tariff within the jurisdiction of the governmental body and the number of customers located within that jurisdiction. The amounts shall be converted to a fixed amount per customer, so that the amount, when accumulated from all customers within the geographic jurisdiction of the governmental body, will equal the amount of the flat sum(s). The fixed amount per customer shall be divided by 12 and applied to each monthly bill as a separate line item. The amount shall remain the same until the flat sum may be changed by the governmental body, in which case this process shall be adjusted to the new flat sum. The amount shall be modified prospectively by the Company anytime it appears, on an annual basis, that the Company is either over-collecting or under-collecting the amount of the flat sum(s) by more than five percent (5%) on an annual basis. Bills will be increased in the proportionate amount only in service areas where such tax or fee is applicable.

CONDITIONS OF SERVICE:

1. Service will be furnished for the sole use of the customer and will not be resold, redistributed, or submetered, directly or indirectly.
2. Voltage, phase, and frequency of service supplied will be as approved by the Company.
3. Bills for service will be rendered monthly. Where service is for temporary use, the bill for the current month's service will be rendered immediately on discontinuance of service.
4. The Company Rules and Regulations, P.S.C. Mo. No. 5, Section 5, are a part of this schedule.

DATE OF ISSUE ~~February 28, 2013~~August 14, 2019 DATE EFFECTIVE ~~April 1, 2013~~September 13, 2019
ISSUED BY Kelly S. Walters, Vice PresidentSheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 3 1st Original-~~Revised~~ Sheet No. 4a

Canceling P.S.C. Mo. No. 5 Sec. 3 Original Sheet No. 4a

For ALL TERRITORY

MISCELLANEOUS SERVICE
SCHEDULE MS

FEDERAL TAX RATE REDUCTION

~~— This bill line item is temporarily being added to allow the Company to pass the benefits of service cost reductions on to customers from the federal Tax Cuts and Jobs Act of 2017 ("TCJA") (Public Law 115-97).~~

~~— The below flat rate will be applied as a credit to all metered kilowatt-hours (kWh) of energy to all Customer Bills.~~

~~— Miscellaneous Service — Schedule MS Tax Rate Reduction — \$(0.00262)~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~ Revised Sheet No. 17u

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 17u

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after ~~September-XXXX 14XX~~, 20162019

The two six-month accumulation periods, the two six-month recovery periods and filing dates are set forth in the following table:

<u>Accumulation Periods</u>	<u>Filing Dates</u>	<u>Recovery Periods</u>
September–February March–August	By April 1 By October 1	June–November December–May

The Company will make a Fuel Adjustment Rate (“FAR”) filing by each Filing Date. The new FAR rates for which a filing is made will be applicable starting with the Recovery Period that begins following the Filing Date. All FAR filings shall be accompanied by detailed workpapers with subaccount detail supporting the filing in an electronic format with all formulas intact.

DEFINITIONS

ACCUMULATION PERIOD:

The six calendar months during which the actual costs and revenues subject to this rider will be accumulated for the purpose of determining the FAR.

RECOVERY PERIOD:

The billing months during which a FAR is applied to retail customer usage on a per kilowatt-hour (“kWh”) basis.

BASE ENERGY COST:

Base energy cost is ordered by the Commission in the last rate case consistent with the costs and revenues included in the calculation of the Fuel and Purchase Power Adjustment (“FPA”).

BASE FACTOR (“BF”):

The base factor is the base energy cost divided by net generation kWh determined by the Commission in the last general rate case. BF = \$0.~~02415~~02488 per kWh for each accumulation period.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~ Revised Sheet No. 17v

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 17v

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after ~~September XXXX 14XX~~, 20196

APPLICATION

FUEL & PURCHASE POWER ADJUSTMENT

$$FPA = \{[(FC + PP + E - OSSR - REC - B) * J] * 0.95\} + T + I + P$$

Where:

FC = Fuel Costs Incurred to Support Sales:

The following costs reflected in Federal Energy Regulatory Commission ("FERC") Accounts 501 and 506: coal commodity and railroad transportation, switching and demurrage charges, applicable taxes, natural gas costs, alternative fuels (i.e. tires, and bio-fuel), fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments assessed by coal suppliers, fuel hedging costs, fuel adjustments included in commodity and transportation costs, broker commissions and fees associated with price hedges, oil costs, combustion product disposal revenues and expenses, consumable costs related to Air Quality Control Systems ("AQCS") operation, such as ammonia, lime, limestone, and powdered activated carbon, and settlement proceeds, insurance recoveries, subrogation recoveries for increased fuel expenses in Account 501.

The following costs reflected in FERC Accounts 547 and 548: natural gas generation costs related to commodity, oil, transportation, fuel losses, hedging costs for natural gas and oil, fuel additives, and settlement proceeds, insurance recoveries, subrogation recoveries for increased fuel expenses, broker commissions and fees.

PP = Purchased Power Costs:

1. Costs and revenues for purchased power reflected in FERC Account 555, ~~excluding all charges under Southwest Power Pool ("SPP") Schedules 1a and 12 and congestion management charges and revenues.~~ Such costs include:

DATE OF ISSUE August ~~15, 2016~~ 14, 2019 DATE EFFECTIVE September ~~14, 2016~~ 13, 2019

ISSUED BY ~~Kelly S. Walters, Vice President~~ Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~ Revised Sheet No. 17w

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 17w

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after ~~September-XXXX 14XX~~, 20162019

A. SPP costs or revenues for SPP's energy and operating market settlement charge types and market settlement clearing costs or revenues including:

- i. Energy;
- ii. Ancillary Services;
 - a. Regulating Reserve Service
 - b. Energy Imbalance Service
 - c. Spinning Reserve Service
 - d. Supplemental Reserve Service
- iii. Revenue Sufficiency;
- iv. Revenue Neutrality;
- v. Demand Reduction;
- vi. Grandfathered Agreements;
- vii. Virtual Energy including Transaction Fees;
- viii. Pseudo-tie; and
- ix. Miscellaneous;
- x. Auction Revenue Rights
- xi. Transmission Congestion Rights

B. Non-SPP costs or revenue as follows:

- i. If received from a centrally administered market (e.g. PJM / MISO), costs or revenues of an equivalent nature to those identified for the SPP costs or revenues specified in sub part A of part 1 above;
- ii. If not received from a centrally administered market:
 - a. Costs for purchases of energy; and
 - b. Costs for purchases of generation capacity, provided such capacity is acquired for a term of one (1) year or less; and

C. Settlements, insurance recoveries, and subrogation recoveries for purchased power expenses.

- 2. Costs of purchased power will be reduced by expected replacement power insurance recoveries qualifying as assets under Generally Accepted Accounting Principles.
- 3. Transmission service costs reflected in FERC Account 565:

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~-Revised Sheet No. 17x

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 17x

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after ~~September-XXXX-14XX~~, 20162019

- A. ~~Thirty-four~~One hundred percent (~~34~~100%) of SPP costs associated with Network Transmission Service:
- i. SPP Schedule 2 – Reactive Supply and Voltage Control from Generation or Other Sources Service;
 - ii. SPP Schedule 3 – Regulation and Frequency Response Service; and
 - iii. SPP Schedule 11 – Base Plan Zonal Charge and Region-wide Charge.
 - ~~iv. SPP Schedule 1a – Tariff Administration~~
 - ~~v. SPP Schedule 12 – FERC Assessment~~
- B. ~~Fifty-One~~One hundred percent (~~50~~100%) of Mid-Continent Independent System Operator (“MISO”) costs associated with:
- i. Network transmission service;
 - ii. Point-to-point transmission service;
 - iii. System control and dispatch; and
 - iv. Reactive supply and voltage control.
- ~~4.~~ Costs and revenues not specifically detailed in Factors FC, PP, E, or OSSR shall not be included in the Company’s FAR filings; provided however, in the case of Factors PP or OSSR the market settlement charge types under which SPP or another market participant bills / credits a cost or revenue need not be detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; ~~and provided further, should the SPP or another market participant implement a new charge type, exclusive of changes in transmission revenue, not included the Stipulation and Agreement, Schedule E, “List of Sub-Accounts Included and Excluded for FAC” approved by Commission order in Case No. ER-2016-0023:~~
- ~~5.4.~~
- A. The Company may include the new charge type cost or revenue in its FAR filings if the Company believes the new charge type cost or revenue possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be, subject to the requirement that the Company make a filing with the Commission as outlined in B below and also subject to another party’s right to challenge the inclusion as outlined in E. below;
- B. The Company will make a filing with the Commission giving the Commission notice of the new charge type no later than 60 days prior to the Company including the new charge type cost or revenue in a FAR filing. Such filing shall identify the proposed accounts affected by such new charge type cost or revenue, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements;
- C. The Company will also provide notice in its monthly reports required by the Commission’s fuel adjustment clause rules that identifies the new charge type costs or revenues by amount, description and location within the monthly reports;
- D. The Company shall account for the new charge type costs or revenues in a manner which allows for the transparent determination of current period and cumulative costs or revenues;

DATE OF ISSUE August 15, 201614, 2019 DATE EFFECTIVE September 14, 201613, 2019

ISSUED BY ~~Kelly S. Walters, Vice President~~ Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~-Revised Sheet No. 17y

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 17y

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after ~~September XXXX-14XX~~, 20162019

- E. If the Company makes the filing provided for by B above and a party challenges the inclusion, such challenge will not delay approval of the FAR filing. To challenge the inclusion of a new charge type, a party shall make a filing with the Commission based upon the contention that the new charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be. A party wishing to challenge the inclusion of a charge type shall include in its filing the reasons why it believes the Company did not show that the new charge type possesses the characteristic of the costs or revenues listed in Factors PP or OSSR, as the case may be, and its filing shall be made within 30 days of the Company's filing under B above. In the event of a timely challenge, the Company shall bear the burden of proof to support its decision to include a new charge type in a FAR filing. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P; and

- F. A party other than the Company may seek the inclusion of a new charge type in a FAR filing by making a filing with the Commission no less than 60 days before the Company's next FAR filing. Such a filing shall give the Commission notice that such party believes the new charge type should be included because it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be. The party's filing shall identify the proposed accounts affected by such new charge type cost or revenue, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements. If a party makes the filing provided for by this paragraph F and a party (including the Company) challenges the inclusion, such challenge will not delay inclusion of the new charge type in the FAR filing or delay approval of the FAR filing. To challenge the inclusion of a new charge type, the challenging party shall make a filing with the Commission based upon that party's contention that the new charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the costs or revenues listed in Factors PP or OSSR, as the case may be. The challenging party shall make its filing challenging the inclusion and stating the reasons why it believes the new charge type does not possess the characteristic of the costs or revenues listed in Factors PP or OSSR, as the case may be, within 30 days of the filing that seeks inclusion of the new charge type. In the event of a timely challenge, the party seeking the inclusion of the new charge type shall bear the burden of proof to support its contention that the new charge type should be included in the Company's FAR filings. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P.

DATE OF ISSUE August 15, 201614, 2019 DATE EFFECTIVE September 14, 201613, 2019

ISSUED BY ~~Kelly S. Walters, Vice President~~ Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~ Revised Sheet No. 17z

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 17z

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after ~~September XXXX-14XX-~~20162019

E = Net Emission Costs: The following costs and revenues reflected in FERC Accounts 509 and 411 (or any other account FERC may designate for emissions expense in the future): emission allowance costs offset by revenues from the sale of emission allowances including any associated hedging.

OSSR = Revenue from Off-System Sales (Excluding revenue from full and partial requirements sales to municipalities and revenue from generation facilities declared Commercially Operational and not yet in rates):

The following revenues or costs reflected in FERC Account 447: all revenues from off-system sales and SPP energy and operating market including (see Note A. below):

- i. Energy;
- ii. Capacity Charges associated with Contracts shorter than 1 year;
- iii. Ancillary Services including:
 - a. Regulating Reserve Service
 - b. Energy Imbalance Service
 - c. Spinning Reserve Service
 - d. Supplemental Reserve Service
- iv. Revenue Sufficiency;
- v. Losses;
- vi. Revenue Neutrality;
- vii. Demand Reduction;
- viii. Grandfathered Agreements;
- ix. Pseudo-tie;
- x. Miscellaneous; and
- xi. Hedging.

REC = Renewable Energy Credit Revenue reflected in FERC Account 456 from the sale of Renewable Energy Credits that are not needed to meet the Renewable Energy Standard.

HEDGING COSTS:

Hedging costs are defined as realized losses and costs (including broker commission fees and margins) minus realized gains associated with mitigating volatility in the Company's cost of fuel, fuel additives, fuel transportation, emission allowances and purchased power costs, including but not limited to, the Company's use of derivatives whether over-the-counter or exchanged traded including, without limitation, futures or forward contracts, puts, calls, caps, floors, collars and swaps.

Note A Should FERC require any item covered by factors FC, PP, E, REC or OSSR to be recorded in an account different than the FERC accounts listed in such factors, such items shall nevertheless be included in factor FC, PP, E, REC or OSSR. In the month that the Company begins to record items in a different account, the Company will file with the Commission the previous account

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ISSUED BY Kelly S. Walters, Vice President, Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~ Revised Sheet No. 17aa

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 17aa

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after ~~September XXXX-14XX-~~20162019

number, the new account number and what costs or revenues that flow through this Rider FAC are to be recorded in the account.

B = Net base energy cost is calculated as follows:

$$B = (S_{AP} * \$0.0241502488)$$

S_{AP} = Actual net system input at the generation level for the accumulation period.

J = $\frac{\text{Missouri retail kWh sales}}{\text{Total system kWh sales}}$

Where Total system kWh sales includes sales to municipalities that are associated with Empire and excludes off-system sales.

T = True-up of over/under recovery of FAC balance from prior recovery period as included in the deferred energy cost balancing account. Adjustments by Commission order pursuant to any prudence review shall also be placed in the FPA for collection unless a separate refund is ordered by the Commission.

I = Interest applicable to (i) the difference between Total energy cost (FC + PP + E – OSSR – REC) and Net base energy costs (“B”) multiplied by the Missouri energy ratio (“J”) for all kWh of energy supplied during an AP until those costs have been billed; (ii) refunds due to prudence reviews (“P”), if any; and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings (“T”) provided for herein. Interest shall be calculated monthly at a rate equal to the weighted average interest paid on the Company’s short-term debt, applied to the month-end balance of items (i) through (iii) in the preceding sentence.

P = Prudence disallowance amount, if any, as defined below.

FUEL ADJUSTMENT RATE

The FAR is the result of dividing the FPA by estimated recovery period S_{RP} kWh, rounded to the nearest \$0.00000. The FAR shall be adjusted to reflect the differences in line losses that occur at primary and secondary voltage by multiplying the average cost at the generator by ~~1.0464~~1.0429 and ~~1.0657~~1.0625, respectively. Any FAR authorized by the Commission shall be billed based upon customers’ energy usage on and after the authorized effective date of the FAR. The formula for the FPA is displayed below

$$FAR = \frac{FPA}{S_{RP}}$$

DATE OF ISSUE August ~~15, 2016~~14, 2019 DATE EFFECTIVE September ~~14, 2016~~13, 2019

ISSUED BY ~~Kelly S. Walters, Vice President~~ Sheri Richard, Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~ Revised Sheet No. 17ab

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 17ab

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after ~~September-XXXX 14XX~~, 20162019

Where:

S_{RP} = Forecasted Missouri NSI kWh for the recovery period.

= Forecasted total system NSI * $\frac{\text{Forecasted Missouri retail kWh sales}}{\text{Forecasted total system kWh sales}}$

Where Forecasted total system NSI kWh sales includes sales to municipalities that are associated with Empire and excludes off-system sales.

PRUDENCE REVIEW

Prudence reviews of the costs subject to this FAC shall occur no less frequently than every eighteen months, and any such costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this rider shall be returned to customers. Adjustments by Commission order, if any, pursuant to any prudence review shall be included in the FAR calculation in P above unless a separate refund is ordered by the Commission. Interest on the prudence adjustment will be included in I above.

TRUE-UP OF FPA

In conjunction with an adjustment to its FAR, the Company will make a true-up filing with an adjustment to its FAC on the first Filing Date that occurs after completion of each Recovery Period. The true-up adjustment shall be the difference between the FPA revenues billed and the FPA revenues authorized for collection during the true-up recovery period, i.e. the true-up adjustment. Any true-up adjustments or refunds shall be reflected in item T above and shall include interest calculated as provided for in item I above.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 ~~6th~~7th Revised Sheet No. 17ac

Canceling P.S.C. Mo. No. 5 Sec. 4 ~~5th~~6th Revised Sheet No. 17ac

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after ~~June-XXXX~~1XX, 2019

	Accumulation Period Ending		February-XXXX
1	Total Energy Cost (TEC) = (FC + PP + E – OSSR - REC)		74,862,132
2	Net Base Energy Cost (B)	-	66,584,207
	2.1 Base Factor (BF)		0.02488 <u>0.02415</u>
	2.2 Accumulation Period NSI (S _{AP})		2,757,110,000
3	(TEC-B)		8,277,925
4	Missouri Energy Ratio (J)	*	82.74%
5	(TEC - B) * J		6,901,802
6	Fuel Cost Recovery	*	95.00%
7	(TEC - B) * J * 0.95		6,556,712
8	True-Up Amount (T)	+	844,601
9	Prudence Adjustment Amount (P)	+	
10	Interest (I)	+	31,323
11	Fuel and Purchased Power Adjustment (FPA)	=	7,432,635
12	Forecasted Missouri NSI (S _{RP})	÷	2,253,608,426
13	Current Period Fuel Adjustment Rate (FAR)	=	0.00330
14	Current Period FAR _{PRIM} = FAR x VAF _{PRIM}		0.00345
15	Current Period FAR _{SEC} = FAR x VAF _{SEC}		0.00351
16	VAF _{PRIM} = 1.0464 <u>1.0429</u>		1.0464 <u>1.0429</u>
17	VAF _{SEC} = 1.0657 <u>1.0625</u>		1.0657 <u>1.0625</u>

DATE OF ISSUE ~~April 1, 2019~~August 14, 2019

DATE EFFECTIVE September 13,

~~2019~~June 1, 2019

ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~ Revised Sheet No. 24

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 24

For ALL TERRITORY

PILOTS, VARIANCES, AND PROMOTIONAL PRACTICES
LOW-INCOME PILOT PROGRAM

PURPOSE:

The goals of the Low-Income Pilot Program (Program) are to: 1) provide electric bill payment assistance to customers meeting the Program's eligibility requirements, and 2) evaluate the impact of the Program on the disconnections and uncollectibles/bad debts amounts for Empire. This Program is provided pursuant to the orders of the Missouri Public Service Commission (MoPSC) in Case Nos. ER-2016-0023 and EO-2017-0041.

AVAILABILITY:

Availability of this Program shall be limited to customers on the Residential Service Rate who have an income level at or below 135% of the Federal Poverty Level (FPL). The designated CAA will be responsible for determining the income level of customers eligible for the Program. No customer with an arrearage that includes a theft of service charge shall be eligible to participate in the Program.

DEFINITIONS:

Designated Community Action Agency ("CAA") - Ozarks Area Community Action Corporation ("OACAC") and Economic Security Corporation ("ESC").

PROVISIONS:

~~The total program budget is \$250,000. The Program shall run until either the budget is exhausted or until rates are implemented from Empire's next general rate case, whichever occurs first.~~

The Program will provide qualified customers with a bill statement which reflects a monthly credit equal to the monthly customer charge and a revised bill payment amount under the following conditions:

1. Customer must be registered with a designated CAA Agency.
2. Customer must remain current within two (2) billing cycles to continue on the Program. Customers that default on payments for two (2) consecutive months will be removed from the Program and not be allowed back into the Program for twelve (12) months, except that a CAA may request a one-time re-enrollment for a defaulted customer experiencing a short-term, unanticipated financial hardship.
3. Customers receiving monthly credits must be enrolled in the Average Payment Plan (Rider AP) with any under or over collection balance existing at the settlement month rolled over and spread equally across all monthly bills in the next APP year.
4. Customers must make all payments on-time (before the delinquent date). 5. Monthly bill credits will be adjusted so that customer's total bill after the monthly credit is a minimum of \$10 (ten dollars) per month. Credits will be calculated in these circumstances once the Rider AP billing amount has been determined.

ADMINISTRATION, REPORTING AND EVALUATION:

Program administration, reporting and evaluation will be conducted consistent with the terms of the orders of the MoPSC in Case Nos. ER-2016-0023 and EO-2017-0041 or as modified and approved by the MoPSC.

THE EMPIRE DISTRICT ELECTRIC COMPANY

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For ALL TERRITORY

WEATHER NORMALIZATION RIDER - WNR

WEATHER NORMALIZATION RIDER (WNR)

PURPOSE

The purpose of the Weather Normalization Rider (WNR) is to establish procedures that allow The Empire District Electric Company, a Liberty Utilities company ("Liberty-Empire" or the "Company"), subject to the jurisdiction of the Missouri Public Service Commission (Commission), to adjust for each customer in each month and in each billing cycle (i.e., on a "real-time" basis), base rate revenues for electric sales in order to reconcile Actual Base Rate Revenues and Weather-Normalized Base Rate Revenues. The WNR adjusts each customer's bill for the difference in electric usage caused by the variation between actual Heating Degree Days (HDDs) and normal HDDs during the Heating billing period, and the variation between actual Cooling Degree Days (CDDs) and normal CDDs during the Cooling billing period. The WNR stabilized customer bills, provides the Company with a more stable stream of revenues, and generally improves the Company's ability to recover its cost of service. The WNR meets the requirements of Missouri Statute 386.266, Section 3.

EFFECTIVE DATE

The WNR shall take effect beginning with the first Heating or Cooling billing period after the effective date of the WNR.

APPLICABILITY

The WNR shall apply to the Company's Residential General (RG), Commercial Service (CB), and Small Heating Service (SH) Rate Schedules, subject to the jurisdiction of the Commission.

DEFINITIONS

The following definitions shall apply throughout the WNR:

Actual Base Rate Revenues represent the actual revenues recovered through the Company's base rates for a given Customer in a given Month. The Company will use the applicable base rates and Actual Customer Usage to determine the Actual Base Rate Revenue for a given Customer in a given Month.

Applicable Customer Classes for the WNR are Residential General (RG), Commercial (CB) and Small Heating (SH). The Commercial and Small Heating classes are not demand metered.

Rate Class is the group of customers taking service pursuant to the same Rate Schedule.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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Real-time normal weather adjustment is the difference between Actual Base Rate Revenue billed to each customer in each month and in each billing cycle or portion thereof, and Weather-Normalized Base Rate Revenue (i.e., what base rate revenues would have been for the same customer in the same month and in the same billing cycle if weather had been normal). The resulting charge or credit is based on the difference between the Actual and Normal Base Rate Revenues, which is added to or subtracted from each customer's bill at the time the bill is rendered (i.e., on a "real time" basis).

Base Load Factor for each customer is the most recent two-year average daily electric usage for actual bills rendered during the "shoulder" months of April, May or June (whichever is lower) and September, October or November (whichever is lower) for that customer. If a customer has less than two-year's billing history, then the customer's available history for shoulder months will be used to calculate the average daily electric usage; and if a customer has no billing history for shoulder months, then the average daily electric usage for shoulder months for the rate schedule under which the customer is served will be used.

Base Usage for each bill is the current Base Load Factor times the number of days in billing period.

Heating Usage for each bill is the difference between the actual electric usage for that bill less the Base Usage for that bill during the Heating period. If the calculated Heating Usage is less than zero, then the Heating Usage for that bill is set equal to zero.

Cooling Usage for each bill is the difference between the actual electric usage for that bill less the Base Usage for that bill during the Cooling period. If the calculated Cooling Usage is less than zero, then the Cooling Usage for that bill is set equal to zero.

Heating Degree Days (HDD) for each day is sixty-five (65) minus the average temperature in degrees Fahrenheit for that day. If the calculated HDD is less than zero, then the HDD for that day is set equal to zero.

Cooling Degree Days (CDD) for each day is the average temperature in degrees Fahrenheit for that day minus sixty-five (65). If the calculated CDD is less than zero, then the CDD for that day is set equal to zero.

Normal Heating Degree Days (Normal HDD) for each day is based on the Normal HDDs approved in the Company's most recent base rate proceeding.

Normal Cooling Degree Days (Normal CDD) for each day is based on the Normal CDDs approved in the Company's most recent base rate proceeding.

Normal Weather Adjustment Slope (NWA Slope) for each bill is the Heating Usage divided by the sum of actual HDD during the Heating billing period, and Cooling Usage divided by the sum of actual CDD during the Cooling billing period.

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For ALL TERRITORY

WEATHER NORMALIZATION RIDER - WNR

Normal Heating Usage for each bill is the NWA Slope times the sum of the Normal HDD for the Heating billing period, and NWA Slope times the sum of the Normal CDD for the Cooling billing period.

Normal Customer Usage for each bill is the sum of the Base Usage and the Normal Heating Usage during Heating period, and the sum of the Base Usage and Normal Cooling Usage during Cooling period.

Weather-Normalized Base Rate Revenues represent revenues that would have been recovered through the Company's base rates for a given Customer in a given Month if weather had been normal. The Company will use the applicable base rates and Normal Customer Usage to determine the Weather-Normalized Base Rate Revenues for a given Customer in a given Month.

Normal Weather Factor (NWF) for each bill is:

$$NWF = \frac{\text{Weather-Normalized Base Rate Revenues}}{\text{Actual Base Rate Revenues}} - 1$$

CALCULATION OF NORMAL WEATHER ADJUSTMENT

The Weather Normalization Adjustment (WNR) for each bill is

$$WNR = \text{Actual Base Rate Revenues} \times NWF$$

APPLICATION OF THE WNR TO CUSTOMER BILLS

The WNR charge or credit will be separately stated and added to or subtracted from each bill as applicable. Each bill will have a separate line titled "Normal Weather Adj.," which will include the total variable electric charges, the NWF percentage, and the resulting charge or credit.

QUARTERLY SURVEILLANCE MONITORING REPORT

Information pertaining to the WNR will be filed quarterly with the Commission and consist of five parts. Each part, except the rate-base quantifications report, shall contain information for the last twelve-month period and the last quarter data for total electric operations and Missouri jurisdictional operations. Rate-base quantifications shall contain only information for the ending date of the period being reported.

1. Part One of the surveillance monitoring report shall be the rate-base quantifications report. The quantification of rate-base items in part one shall be consistent with the methods or procedures used in the most recent rate proceeding unless otherwise specified. The report shall consist of specific rate-base quantifications of:

- a. Plant in service;

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- b. Reserve for depreciation;
 - c. Materials and supplies;
 - d. Cash working capital;
 - e. Fuel inventory, if applicable;
 - f. Prepayments;
 - g. Other regulatory assets;
 - h. Customer advances;
 - i. Customer deposits;
 - j. Accumulated deferred income taxes;
 - k. Any other item included in the electrical corporation's rate base in its most recent rate proceeding;
 - l. Net operating income from part three; and
 - (a) Calculation of the overall return on rate base.
2. Part Two of the surveillance monitoring report shall be the capitalization quantifications report, which shall consist of specific capitalization quantifications of:
- a. Common stock equity (net);
 - b. Preferred stock, par or stated value outstanding;
 - c. Long-term debt, including current maturities;
 - d. Short-term debt; and
 - e. Weighted cost of capital, including component costs.
3. Part Three of the surveillance monitoring report shall be the income statement, which shall consist of an income statement containing specific quantification of:
- a. Operating revenues to include sales to industrial, commercial, and residential customers, sales for resale, and other components of total operating revenues;
 - b. Operating and maintenance expenses for fuel expense, production expenses, purchased power energy and capacity, if applicable;
 - c. Transmission expenses;
 - d. Distribution expenses;

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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For ALL TERRITORY

WEATHER NORMALIZATION RIDER - WNR

- e. Customer accounts expenses;
 - f. Customer service and information expenses;
 - g. Sales expenses;
 - h. Administrative and general expenses;
 - i. Depreciation, amortization, and decommissioning expense;
 - j. Taxes other than income taxes;
 - k. Income taxes; and
 - l. Quantification of heating degree and cooling degree days, actual and normal.
4. Part Four of the surveillance monitoring report shall be the jurisdictional allocation factor report, which shall consist of a listing of jurisdictional allocation factors for the rate base, capitalization quantification reports, and income statement.
5. Part Five of the surveillance monitoring report shall be the financial data notes, which shall consist of notes to financial data including, but not limited to:
- a. Out of period adjustments;
 - b. Specific quantification of material variances between actual and budget financial performance;
 - c. Material variances between current twelve-month period and prior twelve-month period revenue;
 - d. Expense level of items ordered by the commission to be tracked under the order establishing the rate adjustment mechanism;
 - e. Budgeted capital projects; and
 - f. Events that materially affect debt or equity surveillance components.

ANNUAL TRUE-UP

1. Information pertaining to the Annual True-up will be filed annually to demonstrate that the surcharge revenues recovered from customer and credit revenues refunded to customers reconciles with the Company's calculation of weather-normalized base rate revenues. Any over-collection or under-collection of revenues, including interest at the Company's short-term borrowing rate, shall be credited or recovered from customers, respectively, in subsequent periods.

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