

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. 5 Sec. 1 ~~17th-18th~~ 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	\$ 12-5213.00	\$ 12-5213.00
The first 600-kWh, per kWh	\$ 0.1225413006	\$ 0.1225413006
Additional kWh, per kWh	\$ 0.1225413006	\$ 0.0996410574

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 \$~~0.00940-00039~~ 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, are a part of this schedule.

DATE OF ISSUE July 7, 2015 August 15, 2016
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE July 26, 2015 September 14, 2016

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 2 ~~17th-18th~~ Revised Sheet No. 1

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~16th-17th~~ 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.....	\$ 22. 0069	\$ 22. 0069
The first 700-kWh, per kWh.....	\$ 0. 4276313168	\$ 0. 4276313168
Additional kWh, per kWh.....	\$ 0. 4276313168	\$ 0. 4447411838

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.~~00040-00071~~ 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.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~16th-17th~~ 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>21.9922.69</u>	\$ <u>21.9922.69</u>
The first 700-kWh, per kWh	\$ <u>0.4231312872</u>	\$ <u>0.4231312872</u>
Additional kWh, per kWh	\$ <u>0.4231312872</u>	\$ <u>0.0919809616</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.~~00040~~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.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~16th-17th~~ 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 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	\$ 68.0769.49	\$ 68.0769.49
DEMAND CHARGE:		
Per kW of Billing Demand	\$ 7.4833	\$ 5.6071
FACILITIES CHARGE		
per kW of Facilities Demand.....	\$ 2.0307	\$ 2.0307
ENERGY CHARGE:		
First 150 hours use of Metered Demand, per kWh.....	\$ 0.0883909024	\$ 0.0764007799
Next 200 hours use of Metered Demand, per kWh	\$ 0.0693907084	\$ 0.0628906420
All additional kWh, per kWh	\$ 0.0626706398	\$ 0.0623606368

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 \$~~0.00040-00071~~ 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 \$~~0.348-355~~ 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 ~~18th19th~~ Revised Sheet No. 4

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~17th18th~~ 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	\$ 251.38 <u>283.55</u>	\$ 251.38 <u>283.55</u>
DEMAND CHARGE:		
Per kW of Billing Demand	\$ 13.90 <u>15.69</u>	\$ 7.68 <u>8.66</u>
FACILITIES CHARGE		
per kW of Facilities Demand	\$ 1.67 <u>88</u>	\$ 1.67 <u>88</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.~~0040~~ 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.~~342~~ 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.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~16th-17th~~ 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.....	\$ 27.65	\$ 27.65
The first 700-kWh, per kWh	\$ 0.18020	\$ 0.18020
Additional kWh, per kWh.....	\$ 0.18020	\$ 0.16370

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.~~00040-00071~~ 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 July 7, 2015 August 15, 2016
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~16th-17th~~ 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	\$ 68-2769.49	\$ 68-2769.49
DEMAND CHARGE:		
Per kW of Billing Demand	\$ 3.3650	\$ 2.7688
FACILITIES CHARGE		
per kW of Facilities Demand.....	\$ 2.0413	\$ 2.0413
ENERGY CHARGE:		
First 150 hours use of Metered Demand, per kWh.....	\$ 0.1035510817	\$ 0.0794908272
Next 200 hours use of Metered Demand, per kWh	\$ 0.0814008472	\$ 0.0644906705
All additional kWh, per kWh.....	\$ 0.0733807665	\$ 0.0629906580

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 \$~~0.00040-00071~~ 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 \$~~0.348-355~~ 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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ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~12th-13th~~ 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	\$ <u>255.97259.01</u>	\$ <u>255.97259.01</u>
ON-PEAK DEMAND CHARGE		
Per kW of Billing Demand	\$ <u>24.8725.160</u>	\$ <u>16.9917.10</u>
SUBSTATION FACILITIES CHARGE		
Per kW of Facilities Demand.....	\$ <u>0.599500</u>	\$ <u>0.599500</u>
ENERGY CHARGE, per kWh:		
On-Peak Period	\$ <u>0.0534905412</u>	\$ <u>0.0379403838</u>
Shoulder Period	\$ <u>0.0432004371</u>	
Off-Peak Period	\$ <u>0.0333403373</u>	\$ <u>0.0314703184</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 \$~~0.00040~~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.

DATE OF ISSUE July 7, 2015 August 15, 2016
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE July 26, 2015 September 14, 2016

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. 5 Sec. 2 ~~11th12th~~ 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	\$ 255.97 <u>259.01</u>	\$ 255.97 <u>259.01</u>
ON-PEAK DEMAND CHARGE		
Per kW of Billing Demand	\$ 24.87 <u>25.160</u>	\$ 46.90 <u>17.10</u>
 SUBSTATION FACILITIES CHARGE		
Per kW of Facilities Demand	\$ 0.500 <u>500</u>	\$ 0.500 <u>500</u>
ENERGY CHARGE, per kWh:		
Peak Period	\$ 0.053490 <u>5412</u>	\$ 0.03794 <u>03838</u>
Shoulder Period.....	\$ 0.043200 <u>4371</u>	
Off-Peak Period.....	\$ 0.033340 <u>03373</u>	\$ 0.034470 <u>03184</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.~~00040-00071~~ 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 Facilities 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.

DATE OF ISSUE July 7, 2015 August 15, 2016
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE July 26, 2015 September 14, 2016

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 ~~3rd~~-4th Revised Sheet No. 8a

Canceling P.S.C. Mo. No. 5 Sec. 4 ~~2nd~~3rd Revised Sheet No. 8a

For ALL TERRITORY

PROMOTIONAL PRACTICES
SCHEDULE PRO

C. Missouri Commercial and Industrial Facility Rebate Program

APPLICATION:

The Missouri Commercial and Industrial Facility Rebate Program (Program) is designed to encourage more effective utilization of electric energy through energy efficiency improvements in the building shell or through the replacement of inefficient electrical equipment with efficient electrical equipment, by providing a rebate for a portion of the costs of the improvements and for energy audit and the related upgrades that improve efficient use of electricity. The Empire District Electric Company's (Company) participation in such financial incentives is limited to the Funds allocated for that purpose and approved by the Customer Program Collaborative (CPC) pursuant to the Stipulation and Agreement approved by the Missouri Public Service Commission (Commission) in Case. No EO-2005-0263.

DEFINITIONS:

Administrator – The Company will administer the program.

Funds – The Company has allotted funds annually to fulfill a portion of audit costs and both prescriptive rebates and custom rebates.

Participant –Electric customer in rate schedules CB, SH, GP, PFM, ~~and~~ TEB, and LP being served by the Company in its Missouri electric service territory that elects to purchase energy auditing services and electrical energy efficiency upgrades through the Program.

Energy Audit Firm – Any vendor which provides commercial energy auditing services that has agreed to perform these services through the Program. The auditor must be a Certified Energy Manager, licensed Professional Engineer, or equivalent.

Energy Audit Rebate – Rebate offered of up to 50% of the cost of the energy audit to customers implementing at least one of the audit recommendations that qualify for a rebate. The energy audit rebate offered will be up to 50% of the audit cost up to \$300 for customers with facilities less than 25,000 square feet and up to \$500 for customers with facilities over 25,000 square feet. Customers with multiple buildings will be eligible for multiple audit rebates.

Prescriptive Rebates -- Certain rebates which have a set rebate amount and that do not have to meet the custom rebate calculation criteria. Only customers in the CB (Small Commercial Building Service) or SH (Small Commercial Total Electric Service) schedules will be eligible for prescriptive rebates.

Custom Rebates – Custom rebates will be available to all Commercial and Industrial customers listed as Participants. Each potential rebate will be individually determined and analyzed to ensure that it passes the Societal Benefit/Cost Test (defined as a test result of 1.05 or higher). The amount of the custom rebate will be calculated as the lesser of the following:

- ~~A buydown to a two-year payback~~ An incentive in the range of \$0.06 - \$0.10 per first year kWh savings
- Fifty (50)%percent of the incremental cost; and
- ~~50% of lifecycle avoided demand and energy costs~~ \$20,000

The Avoided Energy Cost will be the same as the amount in Empire's Cogeneration Purchase Rate Schedule CP tariff. The amount used in the above calculation will be updated as the tariff is updated each odd numbered year.

AVAILABILITY:

The Program is voluntary and available on a first-come, first-served basis to any commercial or industrial facility located in Missouri that is receiving electric service under rate schedules CB, SH, GP, PFM, ~~or~~ TEB, or LP from the Company until funds for that year have been expended. Customers with multiple buildings will be eligible for multiple audit rebates. A customer is still eligible for custom rebates if they qualify for prescriptive rebates. Additionally, one customer may submit multiple rebate applications for different measures, each of which will be evaluated on its own merits. Similar measures that are proposed in different facilities or buildings will be evaluated separately. However, no customer, including those with multiple facilities or buildings, may receive more than \$20,000 in incentives for any program year.

TERMS & CONDITIONS:

This Program will provide rebates to Participants that install, replace or retrofit qualifying electric savings measures including HVAC systems, motors, lighting, pumps, etc. Rebates are also available for energy audits. Terms of the rebate are:

1. Prescriptive Rebates for lighting, cooling, and motors are available to small commercial customers, those in rate schedules CB and SH. A listing of the Prescriptive Rebates may be found on the Company's website, www.empiredistrict.com. If a measure is eligible for a Prescriptive Rebate, it is not eligible for a Custom Rebate on the same measure. A customer may apply for the prescriptive rebates by accessing the application on the Company's website and forwarding the application along with the invoice, if the items have been purchased, to ~~Kelly Chenoweth~~ Energy Efficiency Rebate Program at Empire District Electric Company, P. O. Box 127, Joplin, MO 64802, or faxing the forms to ~~Kelly Chenoweth at 417-625-5169~~ Energy Efficiency Rebate Program at 417-625-5173.

DATE OF ISSUE August 6, 2008 August 15, 2016 DATE EFFECTIVE August 23, 2008 September 14, 2016

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 ~~1st-2nd~~ Revised Sheet No. 8a.1

Canceling P.S.C. Mo. No. 5 Sec. 4 1st ~~Original- Revised~~ Sheet No. 8a.1

For ALL TERRITORY

PROMOTIONAL PRACTICES
SCHEDULE PRO

C. Missouri Commercial and Industrial Facility Rebate Program (Continued)

2. Custom Rebates are available to all Participants. The Custom Rebates will be individually determined and analyzed to ensure that the proposed measure passes the Societal Benefit/Cost Test at a test result of 1.05 or higher. Once it is determined that the proposed measure passes the above test, the rebate will be calculated as the lesser of (1) ~~a buydown to a two-year payback, an incentive in the range of \$0.06 - \$0.10 per first-year kWh savings, as specifically listed on Empire's website, www.empiredistrict.com;~~ (2) Fifty (50) percent of the incremental cost, ~~and/or~~ (3) ~~Fifty (50) percent of lifecycle avoided demand and energy costs \$20,000.~~ A customer may submit multiple rebate applications for different measures. Each individual measure will be evaluated on its own merits. Similar measures that are proposed in different facilities or buildings will be evaluated separately. Customers may apply for Custom Rebates on-line at the Company website, www.empiredistrict.com, or they may request an application by calling 417.625.6519.
3. Empire will offer rebates to Participants to cover up to fifty percent (50%) of the cost of an energy audit. To receive this rebate, the Participant must implement at least one of the audit recommendations that qualify for a rebate. The energy audit rebate will be set at 50% of the audit cost up to three hundred dollars (\$300) for customers with facilities less than 25,000 square feet and up to five hundred dollars (\$500) for customers with facilities over 25,000 square feet. Energy audits must be performed by a certified (CEM, licensed PE, or equivalent) commercial energy auditor. Customers with multiple buildings will be eligible for multiple audit rebates.
4. The maximum amount per customer, including those with multiple facilities or buildings, is \$20,000 in incentives for any program year.

EVALUATION:

A process evaluation could be conducted at the beginning of the third year of implementation.

PROGRAM FUNDING:

To the extent that the annual funds contributed exceeds the total cost expended on the program, the amount of excess shall be "rolled over" to be utilized for the Missouri Commercial and Industrial Facility Rebate Program in the succeeding year; however any remaining unused funds at the end of 2014 shall be made available for other energy efficiency programs. Annual funds available for this program are as follows:

<u>Year</u>	<u>Total</u>
2010	\$412,500
2011	\$414,000
2012	\$414,000
2013	\$414,000

Projects that have been approved may be scheduled in the succeeding program year but not beyond the end of 2014.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 6th-7th Revised Sheet No. 8c

Canceling P.S.C. Mo. No. 5 Sec. 4 5th-6th Revised Sheet No. 8c

For ALL TERRITORY

PROMOTIONAL PRACTICES
SCHEDULE PRO

E. Weatherization Program

APPLICATION:

The Residential Weatherization Program (Program) is designed to provide energy education and weatherization assistance, primarily for lower income customers. This Program is intended to assist customers through conservation, education and weatherization in reducing their use of energy and to reduce the level of bad debts experienced by The Empire District Electric Company (Company). The Company's participation in such financial incentives is limited to the funds allocated for that purpose and approved by the Missouri Public Service Commission (Commission) in Case No. ER-2014-0351.

ADMINISTRATION:

The program will be administered by the Economic Security Corporation, the Ozark Area Community Action Corporation and the West Central Missouri Community Action Agency, also known in this tariff as Social Agencies, in accordance to an established formula. This formula, calculated by Missouri Department of Economic Development, Division of Energy (DED-DE), allocates the dollars between the Social Agencies based on the total Empire accounts enrolled with Social Agency and the percentage of households in poverty within the Social Agency's service region. The formula is: (% of total Empire accounts by Social Agency times 1/2 of the annual funds available to the Social Agencies) plus (% of estimated poverty households accounts by Social Agency times 1/2 of the annual funds available to the Social Agencies).

TERMS & CONDITIONS:

1. The program will offer grants for weatherization services to eligible customers. Customer eligibility will be determined by federal low income weatherization assistance program guidelines published by the U.S. Department of Energy (USDOE). . The program will be primarily directed to lower income customers.
2. The total amount of grants offered to a customer will be determined by the federal low income weatherization assistance program guidelines. These funds will focus on measures that reduce electricity usage associated with electric heat, air conditioning, refrigeration, lighting, etc.
3. Program funds made available to the Social Agencies cannot be used for administrative costs except those incurred by the Social Agencies that are directly related to qualifying and assisting customers under this program. The amount of reimbursable administrative costs per participating household shall not exceed 15% of the total expenditures for each participating household.
4. Social Agencies and Company agree to consult with Staff, the Office of the Public Counsel, DED-DE, and other members of the DSM advisory group during the term of the Program.
5. This Program will continue from the effective date of this tariff, unless otherwise ordered by the Commission. With the assistance of Social Agencies, the Company shall submit a report on the Program to the DSM advisory group on or before April 16, 2016 and on the same date for each succeeding year in which the Program continues. Each report will address the progress of the Program, and provide an accounting of the funds received and spent on the Program during the preceding calendar year. The report will include the following information with breakdowns for each of the participating social agencies:
 - a. Program funds provided by Company.
 - b. Amount of Program funds, if any, rolled over from previous year.
 - c. Amount of administrative funds retained by the social agency.
 - d. Number of weatherization jobs completed and total cost (excluding administrative funds) of jobs completed.
 - e. Number of weatherization jobs "in progress" at the end of the calendar year.
 - f. Number, type and total cost of baseload measures (non-heating) installed.

The report shall be subject to audit by the Commission Staff, the Office of the Public Counsel and DED-DE.

PROGRAM FUNDING:

To the extent that the annual funds contributed exceeds the total cost expended on the Program, the amount of the excess shall be "rolled over" to be utilized for the Weatherization Program in the succeeding year. Annual funding of \$225250,000 is available to the Social Agencies for this Program.

If one of the Social Agencies is unable to place the total dollars allocated, the unspent funds may be reallocated among the remaining Social Agencies.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original- Revised~~ Sheet
No. 16f

Canceling P.S.C. Mo. No. 5 Sec. 4 Sheet-Original Sheet
No. 16f

For ALL TERRITORY

NET METERING RIDER
RIDER NM

Disclaimer: Possible Future Rules and/or Rate Changes
Affecting Your Photovoltaic ("PV") System

1. Your PV system is subject to the Commission's current rates, rules, and regulations. The Missouri Public Service Commission ("Commission") may alter its rules and regulations and/or change rates in the future. If this occurs, your PV system is subject to those changes, and you will be responsible for paying any future increases to electricity rates, charges, or service fees from the Company.

2. The Company's electricity rates, charges, and service fees are determined by the Commission and are subject to change based upon the decisions of the Commission. These future adjustments may positively or negatively impact any potential savings or the value of your PV system.

3. Any future electricity rate projections which may be presented to you are not produced, analyzed, or approved by the Company or the Commission. They are based on projections formulated by external third parties not affiliated with the Company or the Commission.

The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation meets all Missouri Net Metering and Solar Electric Rebate program requirements.

Print Name of Applicant

Print Installer's Name

Applicant's Signature

Installer's Signature

If Applicant is a Business, Print Title/Authority of Person Signing on behalf of Applicant

Date

Date

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015 ~~August 15, 2016~~
14, 2016

DATE EFFECTIVE May 16, 2015 ~~September~~

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 4st2nd Revised Sheet No. 17h

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

For ALL TERRITORY

**FUEL ADJUSTMENT CLAUSE
SCHEDULE FAC**
For service on and after June 15, 2011 and prior to April 1, 2013.

~~The two six-month accumulation periods, the two six-month recovery periods and filing dates will be as follows:~~

<u>ACCUMULATION PERIOD</u>	<u>RECOVERY PERIOD</u>	<u>ACCUMULATION PERIOD</u>	<u>RECOVERY PERIOD</u>
SEPTEMBER	JUNE	MARCH	DECEMBER
OCTOBER	JULY	APRIL	JANUARY
NOVEMBER	AUGUST	MAY	FEBRUARY
DECEMBER	SEPTEMBER	JUNE	MARCH
JANUARY	OCTOBER	JULY	APRIL
FEBRUARY	NOVEMBER	AUGUST	MAY

Filing date: April 1st October 1st

~~The Company will make a Cost Adjustment Factor ("CAF") filing by each Filing Date. The new CAF rates for which the filing is made will be applicable starting with the recovery period that begins following the Filing Date. All CAF filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.~~

DEFINITIONS

ACCUMULATION PERIOD:

~~—The six calendar months during which the actual costs subject to this rider will be accumulated for purposes of determining the CAF.~~

RECOVERY PERIOD:

~~—The billing months during which CAF is applied to retail customer billings on a per kilowatt-hour (kWh) basis.~~

BASE ENERGY COST:

~~—Base Energy Cost in this FAC are calculated using the costs included in the revenue requirement upon which Empire's general rates are set for fuel including the costs associated with the Company's fuel hedging program; purchased power energy charges, including applicable transmission fees; Southwest Power Pool variable costs; Air Quality Control System consumables, such as anhydrous ammonia, limestone, and powder activated carbon, and emission allowance costs, but not purchased power demand costs as off-set by off-system sales revenue, any emission allowance revenues, and renewable energy credit revenues in the accumulation period.~~

BASE ENERGY COST PER kWh:

~~—Base energy cost per kWh at the generator, established in the most recent base rate case. The base energy cost per kWh is \$0.02823 for each accumulation period.~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st2nd Revised Sheet No. 17i

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

For ALL TERRITORY

FUEL ADJUSTMENT CLAUSE
SCHEDULE FAC

For service on and after June 15, 2011 and prior to April 1, 2013.

~~APPLICATION~~

~~FUEL ADJUSTMENT CLAUSE~~

~~The average price per kWh of electricity generated or purchased will be adjusted subject to application of the FAC, and approved by the Public Service Commission. The price will reflect 95 percent of the accumulation period costs either above or below base costs specified below for:~~

- ~~1. Fuel and AQCS consumables consumed in Company electric generating plants;~~
- ~~2. Purchased energy (excluding demand);~~
- ~~3. Off-system sales revenue;~~
- ~~4. Emission allowance costs and revenues; and~~
- ~~5. Renewable energy credit revenues.~~

~~It will also include:~~

- ~~6. An adjustment for the prior recovery period's over/under recovery of FAC Costs;~~
- ~~7. Interest at a rate equal to the Company's short-term interest rate will be applied to the average monthly deferred electric energy costs and will be accumulated during the accumulation period. Deferred electric energy cost shall be determined monthly. The monthly deferred amount may be negative or positive during the accumulation period.~~

~~The formula and components are displayed below.~~

$$FAC = \{[(F + P + E - O - R - B) * J] * 0.95\} + C + I$$

~~Where:~~

~~F = Actual total cost of fuel - FERC Accounts 501 & 547 (excluding fixed pipeline reservation charges and fixed pipeline storage charges), and AQCS consumables - FERC Account 506.2.~~

~~P = Actual total system cost of purchased energy - FERC Account 555 (excluding purchase power demand charges).~~

~~E = Actual total system net emission allowance cost and revenues - FERC Accounts 509 & 254.103.~~

~~O = Actual total system off-system sales revenue.~~

~~B = Base energy cost is calculated as follows:~~

~~1. For each accumulation period $B = (NSI \text{ kWh} * \$0.02823)$~~

~~NSI = Actual net system input at the generation level for the accumulation period.~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st2nd Revised Sheet No. 17j

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

For ALL TERRITORY

~~FUEL ADJUSTMENT CLAUSE
SCHEDULE FAC
For service on and after June 15, 2011 and prior to April 1, 2013.~~

~~R = Renewable energy credit revenues.~~

~~J = Missouri energy ratio calculated as follows:~~

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

~~Where Total system kWh sales excludes off-system sales.~~

~~C = True-up of over/under recovery of FAC balance from prior recovery period as included in the deferred energy cost balancing account. This factor will reflect any modifications made due to prudence reviews.~~

~~I = Interest.~~

COST ADJUSTMENT FACTOR

~~The CAF is the result of dividing the FAC by estimated recovery period Missouri net system input (NSI) kWh, rounded to the nearest \$.00000. The CAF shall be adjusted to reflect the differences in line losses that occur at primary and above voltage and secondary voltage by multiplying the average cost at the generator by 1.0502 and 1.0686, respectively. Any CAF authorized by the Commission shall be billed based upon customers' energy usage on and after the authorized effective date of the CAF. The formula and components are displayed below.~~

$$\frac{\text{CAF} = \text{FAC}}{\text{S}}$$

Where:

~~S = Forecasted Missouri NSI kWh for the recovery period. Missouri NSI kWh is calculated as:~~

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

~~Where Forecasted Total System kWh Sales excludes off-system sales.~~

PRUDENCE REVIEW

~~There shall be a periodic review of fuel and energy costs subject to the FAC and a comparison of the FAC revenue collected. Prudence reviews shall occur no less frequently than at eighteen (18) month intervals.~~

TRUE-UP OF FAC

~~After completion of each recovery period, the Company will make a true-up filing in conjunction 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 revenues billed in the recovery period to the costs authorized for collection in the recovery period, i.e. the true-up adjustment. Any true-up adjustments or refunds shall be reflected in item C above and shall include interest calculated as provided for in item I above.~~

DATE OF ISSUE February 28, 2013 August 15, 2016 DATE EFFECTIVE April 1, 2013 September 14, 2016
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st2nd Revised Sheet No. 17j

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

For ALL TERRITORY

~~FUEL ADJUSTMENT CLAUSE
SCHEDULE FAC
For service on and after June 15, 2011 and prior to April 1, 2013.~~

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DATE OF ISSUE February 28, 2013 August 15, 2016 DATE EFFECTIVE April 1, 2013 September 14, 2016
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 ~~5th6th~~ Revised Sheet No. 17k

Canceling P.S.C. Mo. No. 5 Sec. 4 ~~4th5th~~ Revised Sheet No. 17k

For ALL TERRITORY

~~FUEL ADJUSTMENT CLAUSE
SCHEDULE FAC
For service on and after June 15, 2011 and prior to April 1, 2013.~~

~~ACCUMULATION PERIOD ENDING, (Feb 28, 2013)~~

1. Total energy cost (F + P + E - O - R)	\$70,581,445
2. Base energy cost (B)	\$71,948,220
3. Missouri energy ratio (J)	0.8245
4. Fuel cost recovery [(F + P + E - O - R) - B] * J * 0.95	\$(1,040,454)
5. Adj for over/under recovery for the recovery period ending 11-30-2012 (C)	\$(1,026,324)
6. Interest (I)	\$(17,262)
7. Fuel Adjustment Clause (FAC)	\$(2,084,040)
8. Forecasted Missouri NSI for the recovery period (S)	2,247,709,242
9. Cost Adjustment Factor (CAF) to be applied to bills beginning 06-01-2013	\$(0.00093) / kWh
10. CAF - Primary and above (Line 9 x Primary Expansion Factor)	\$(0.00097) / kWh
11. CAF - Secondary (Line 9 x Secondary Expansion Factor)	\$(0.00099) / kWh

~~Primary Expansion Factor = 1.0502
Secondary Expansion Factor = 1.0686~~

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st ~~Original~~ Revised Sheet No. 171

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 171

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after July 26, 2015 and prior to September 14, 2016

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 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 = \$0.02684 per kWh for each accumulation period.

DATE OF ISSUE July 7, 2015 ~~August 15, 2016~~
14, 2016

DATE EFFECTIVE August 6, 2015 ~~September~~

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

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

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after July 26, 2015 and prior to September 14, 2016

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, oil, and natural gas used to cross-hedge purchased power, 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 Accounts 555 , excluding all charges under Southwest Power Pool ("SPP") Schedules 1a and 12. Such costs and revenues include: purchased power costs, purchased power demand costs associated with purchased power contracts with a duration of one year or less, settlements, insurance recoveries, and subrogation recoveries for purchased power expenses, virtual energy charges, generating unit price adjustments, load/export charges, energy position charges, ancillary services including penalty and distribution charges, broker commissions, fees and margins and SPP energy market charges including:

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ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

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

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after July 26, 2015 and prior to September 14, 2016

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. Losses;
- v. Revenue Neutrality;
- vi. Congestion Management including;
 - a. Congestion
 - b. Transmission Congestion Rights
 - c. Financial Transmission Rights
- vii. Demand Reduction;
- viii. Grandfathered Agreements;
- ix. Virtual Transaction Fee;
- x. Pseudo-tie;
- xi. Miscellaneous;

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. Realized losses and costs (including broker commissions and fees) minus realized gains for financial swap transactions for electrical energy that are entered into for the purpose of mitigating price volatility associated with anticipated purchases of electrical energy for those specific time periods when the Company does not have sufficient economic energy resources to meet its native load obligations, so long as such swaps are for up to a quantity of electrical energy equal to the expected energy short fall and for a duration up to the expected length of the period during which the shortfall is expected to exist;
2. Costs of purchased power will be reduced by expected replacement power insurance recoveries qualifying as assets under Generally Accepted Accounting Principles; and
3. Thirty-four percent of SPP transmission service costs reflected in FERC Account 565, excluding SPP Schedule 1a and Schedule 12 and 50% of Non-SPP transmission service costs reflected in Account 565. Such transmission service costs include:

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DATE EFFECTIVE August 6, 2015 September

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

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

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after July 26, 2015 and prior to September 14, 2016

A. SPP costs associated with Net Integration Transmission Service:

- i. SPP Schedule 11 – Base Plan Zonal Charge and Region-wide Charge;
- ii. SPP Schedule 7 – Long-Term Firm and Short-Term Firm Point-To-Point Transmission Service;
- iii. SPP Schedule 8 – Non-Firm Point-To-Point Transmission Service;
- iv. SPP Schedule 2 – Reactive Supply and Voltage Control from Generation or Other Sources Service; and
- v. SPP Schedule 3 – Regulation and Frequency Response Service.

B. Non-SPP 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 listed in Exhibit 3, "List of Sub-Accounts Included and Excluded for FAC" of the Non-Unanimous Stipulation and Agreement on Certain Issues in Case No. ER-2014-0351:

- 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;

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14, 2016

DATE EFFECTIVE August 6, 2015 September

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

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

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after July 26, 2015 and prior to September 14, 2016

- 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 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. 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.

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ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

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

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after July 26, 2015 and prior to September 14, 2016

E = Net Emission Costs:

The following costs and revenues reflected in FERC Accounts 509, 411.8 and 411.9 (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):

The following revenues or costs reflected in FERC Account 447: all revenues from off-system sales, including capacity charges associated with sales contracts shorter than 1 year, and SPP energy and operating market revenues, including but not limited to the following: (see Note A. below)

- i. Energy;
- ii. Ancillary Services including:
 - a. Regulating Reserve Service
 - b. Energy Imbalance Service
 - c. Spinning Reserve Service
 - d. Supplemental Reserve Service
- iii. Revenue Sufficiency;
- iv. Losses;
- v. Revenue Neutrality;
- vi. Demand Reduction;
- vii. Grandfathered Agreements;
- viii. Pseudo-tie;
- ix. Miscellaneous;
- x. Hedging.

REC = Renewable Energy Credit Revenue:

Revenues 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

DATE OF ISSUE July 7, 2015 August 15, 2016
14, 2016

DATE EFFECTIVE August 6, 2015 September

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

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

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after July 26, 2015 and prior to September 14, 2016

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:

$$B = (S_{AP} * \$0.02684)$$

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

J = Missouri retail kWh sales
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 1.0466 and 1.0662, 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

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

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14, 2016

DATE EFFECTIVE August 6, 2015 September

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

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

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after July 26, 2015 and prior to September 14, 2016

Where:

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

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

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.

DATE OF ISSUE July 7, 2015 ~~August 15, 2016~~
14, 2016

DATE EFFECTIVE August 6, 2015 ~~September~~

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 ~~2nd~~3rd Revised Sheet No. 17t

Canceling P.S.C. Mo. No. 5 Sec. 4 ~~1st~~2nd Revised Sheet No. 17t

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
 RIDER FAC
 For service on and after July 26, 2015 and prior to September 14, 2016

	Accumulation Period Ending		Feb 29, 2016
1	Total Energy Cost (TEC) = (FC + PP + E – OSSR - REC)		63,582,057
2	Net Base Energy Cost (B)	-	68,751,492
	2.1 Base Factor (BF)		0.02684
	2.2 Accumulation Period NSI (SAP)		2,561,531,000
3	(TEC-B)		(5,169,435)
4	Missouri Energy Ratio (J)	*	82.33%
5	(TEC - B) * J		(4,256,020)
6	Fuel Cost Recovery	*	95.00%
7	(TEC - B) * J * 0.95		(4,043,219)
8	True-Up Amount (T)	+	(225,112)
9	Prudence Adjustment Amount (P)	+	
10	Interest (I)	+	(18,443)
11	Fuel and Purchased Power Adjustment (FPA)	=	(4,286,774)
12	Forecasted Missouri NSI (SRP)	÷	2,196,228,827
13	Current Period Fuel Adjustment Rate (FAR) to be applied Beginning Jun 01, 2016	=	(0.00195)
14	Current Period FAR _{PRIM} = FAR x VAF _{PRIM}		(0.00204)
15	Current Period FAR _{SEC} = FAR x VAF _{SEC}		(0.00207)
16	VAF _{PRIM} = 1.0466		1.0466
17	VAF _{SEC} = 1.0622		1.0622

DATE OF ISSUE ~~April 1, 2016~~ August 15, 2016
14, 2016

DATE EFFECTIVE ~~June 1, 2016~~ September

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. _____ Sec. _____ Original Sheet No. _____

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after September 14, 2016

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 per kWh for each accumulation period.

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. _____ Sec. _____ Original Sheet No. _____

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE

RIDER FAC

For service on and after September 14, 2016

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:

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. _____ Sec. _____ Original Sheet No. _____

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE

RIDER FAC

For service on and after September 14, 2016

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

Canceling P.S.C. Mo. No. _____ Sec. _____ Original Sheet No. _____

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after September 14, 2016

- A. Thirty-four percent (34%) 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.
 - B. Fifty percent (50%) 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:
- 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;

THE EMPIRE DISTRICT ELECTRIC COMPANY

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

Canceling P.S.C. Mo. No. _____ Sec. _____ Original Sheet No. _____

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC

For service on and after September 14, 2016

- 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.

THE EMPIRE DISTRICT ELECTRIC COMPANY

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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):

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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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:

$$B = (S_{AP} * \$0.02415)$$

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 and 1.0657, 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

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

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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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For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
 RIDER FAC
 For service on and after September 14, 2016

	Accumulation Period Ending		
1	Total Energy Cost (TEC) = (FC + PP + E – OSSR - REC)		
2	Net Base Energy Cost (B)	-	
	2.1 Base Factor (BF)		\$0.02415
	2.2 Accumulation Period NSI (S _{AP})		
3	(TEC-B)		
4	Missouri Energy Ratio (J)	*	
5	(TEC - B) * J		
6	Fuel Cost Recovery	*	
7	(TEC - B) * J * 0.95		
8	True-Up Amount (T)	+	
9	Prudence Adjustment Amount (P)	+	
10	Interest (I)	+	
11	Fuel and Purchased Power Adjustment (FPA)	=	
12	Forecasted Missouri NSI (S _{RP})	÷	
13	Current Period Fuel Adjustment Rate (FAR) to be applied Beginning December 1, 2016	=	
14	Current Period FAR _{PRIM} = FAR x VAF _{PRIM}		
15	Current Period FAR _{SEC} = FAR x VAF _{SEC}		
16	VAF _{PRIM} = 1.0464		
17	VAF _{SEC} = 1.0657		

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No. 23h

Canceling P.S.C. Mo. No. 5 Sec. 4 Sheet ~~Original~~ Sheet
No. 23h

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

Disclaimer: Possible Future Rules and/or Rate Changes
Affecting Your Photovoltaic ("PV") System

1. Your PV system is subject to the Commission's current rates, rules, and regulations. The Missouri Public Service Commission ("Commission") may alter its rules and regulations and/or change rates in the future. If this occurs, your PV system is subject to those changes, and you will be responsible for paying any future increases to electricity rates, charges, or service fees from the Company.

2. The Company's electricity rates, charges, and service fees are determined by the Commission and are subject to change based upon the decisions of the Commission. These future adjustments may positively or negatively impact any potential savings or the value of your PV system.

3. Any future electricity rate projections which may be presented to you are not produced, analyzed, or approved by the Company or the Commission. They are based on projections formulated by external third parties not affiliated with the Company or the Commission.

The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation meets all Missouri Net Metering and Solar Electric Rebate program requirements.

Print Name of Applicant

Print Installer's Name

Applicant's Signature

Installer's Signature

If Applicant is a Business, Print Title/Authority of Person Signing on behalf of Applicant

Date

Date

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015 August 15, 2016
14, 2016

DATE EFFECTIVE May 16, 2015 September

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO