

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

APPLICABILITY

This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 11(M), 12(M), and 13(M).

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation and emissions costs and revenues, net of off-system sales revenues (OSSR) (i.e., Actual Net Energy Costs (ANEC)) and Net Base Energy Costs (B), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

<u>Accumulation Period (AP)</u>	<u>Recovery Period (RP)</u>
February through May	October through May
June through September	February through September
October through January	June through January

AP means the four (4) calendar months during which the actual costs and revenues subject to this rider will be accumulated for the purposes of determining the Fuel Adjustment Rate (FAR).

RP means the billing months during which the FAR is applied to retail customer usage on a per kWh basis, as adjusted for service voltage.

The Company will make a FAR filing no later than sixty (60) days prior to the first billing cycle read date of the applicable Recovery Period above. All FAR filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

FAR DETERMINATION

Ninety five percent (95%) of the difference between ANEC and B for each respective AP will be utilized to calculate the FAR under this rider pursuant to the following formula with the results stated as a separate line item on the customers' bills.

\*Indicates Change.

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DATE OF ISSUE March 8, 2017 DATE EFFECTIVE April 1, 2017

ISSUED BY Michael Moehn President St. Louis, Missouri  
 NAME OF OFFICER TITLE ADDRESS

MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 73.1

CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 73.1

APPLYING TO MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

For each FAR filing made, the FAR<sub>RP</sub> is calculated as:

$$FAR_{RP} = [(ANEC - B) \times 95\% \pm I \pm P \pm T] / S_{RP}$$

Where:

ANEC = FC + PP + E - OSSR

FC = Fuel costs and revenues associated with the Company's generating plants. These consist of the following:

1. For fossil fuel plants:
  - A. the following costs and revenues (including applicable taxes) reflected in Federal Energy Regulatory Commission (FERC) Account 501 for: coal commodity, gas, alternative fuels, fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, railroad transportation, switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs, fuel oil adjustments included in commodity and transportation costs, oil costs, ash disposal costs and revenues, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and
  - B. the following costs and revenues reflected in FERC Account 502 for: consumable costs related to Air Quality Control System (AQCS) operation, such as urea, limestone and powder activated carbon; and
  - C. the following costs and revenues reflected in FERC Account 547, excluding fuel costs related to the Company's landfill gas generating plant known as Maryland Heights Energy Center. Such costs and revenues include natural gas generation costs related to commodity, oil, transportation, storage, capacity reservation, fuel losses, hedging, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and
2. The following costs and revenues in FERC Account 518 (Nuclear Fuel Expense) for: nuclear fuel commodity expense, waste disposal expense, and nuclear fuel hedging costs.

PP = Purchased power costs and revenues and consists of the following:

1. The following costs and revenues for purchased power reflected in FERC Account 555, excluding all charges under Midwest Independent Transmission System Operator, Inc. ("MISO") Schedules 10, 16, 17 and 24 (or any successor to those MISO Schedules), and excluding generation capacity charges for contracts with terms in excess of one (1) year. Such costs and revenues include:

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MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 73.2CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 73.2APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

- A. MISO costs or revenues for MISO's energy and operating reserve market settlement charge types and capacity market settlement clearing costs or revenues associated with:
- i. Energy;
  - ii. Losses;
  - iii. Congestion management:
    - a. Congestion;
    - b. Financial Transmission Rights; and
    - c. Auction Revenue Rights;
  - iv. Generation capacity acquired in MISO's capacity auction or market; provided such capacity is acquired for a term of one (1) year or less;
  - v. Revenue sufficiency guarantees;
  - vi. Revenue neutrality uplift;
  - vii. Net inadvertent energy distribution amounts;
  - viii. Ancillary Services:
    - a. Regulating reserve service (MISO Schedule 3, or its successor);
    - b. Energy imbalance service (MISO Schedule 4, or its successor);
    - c. Spinning reserve service (MISO Schedule 5, or its successor);and
    - d. Supplemental reserve service (MISO Schedule 6, or its successor); and
  - ix. Demand response:
    - a. Demand response allocation uplift; and
    - b. Emergency demand response cost allocation (MISO Schedule 30, or its successor);
- B. Non-MISO costs or revenues as follows:
- i. If received from a centrally administered market (e.g. PJM/SPP), costs or revenues of an equivalent nature to those identified for the MISO costs or revenues specified in subpart 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

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MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 73.3CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 73.3APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

- 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 shortfall and for a duration up to the expected length of the period during which the shortfall is expected to exist; and
2. Three and one-half percent (3.5%) of the transmission service costs reflected in FERC Account 565. Such transmission service costs include:
- A. MISO costs and revenues associated with:
- i. network transmission service (MISO Schedule 9 or its successor);
  - ii. point-to-point transmission service (MISO Schedules 7 and 8 or their successors);
  - iii. System control and dispatch, (MISO Schedule 1 or its successor);
  - iv. Reactive supply and voltage control (MISO Schedule 2 or its successor);
  - v. MISO Schedule 11 or its successor;
  - vi. MISO Schedules 26, 26A, 37 and 38 or their successors; and
  - vii. MISO Schedule 33;
  - viii. MISO Schedules 41, 42-A, 42-B, 45 and 47;
- B. Non-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.

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MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 73.4CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 73.4APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

E = Costs and revenues for SO<sub>2</sub> and NO<sub>x</sub> emissions allowances in FERC Accounts 411.8, 411.9, and 509, including those associated with hedging.

OSSR = Costs and revenues in FERC Account 447 for:

1. Capacity;
2. Energy;
3. Ancillary services, including:
  - A. Regulating reserve service (MISO Schedule 3, or its successor);
  - B. Energy Imbalance Service (MISO Schedule 4, or its successor);
  - C. Spinning reserve service (MISO Schedule 5, or its successor); and
  - D. Supplemental reserve service (MISO Schedule 6, or its successor);
4. Make-whole payments, including:
  - A. Price volatility; and
  - B. Revenue sufficiency guarantee; and
5. Hedging.

Adjustment For Reduction of Service Classification 12(M) or 13(M) Billing Determinants:

Should the level of monthly billing determinants under Service Classifications 12(M) or 13(M) fall below the level of normalized 12(M) or 13(M) monthly billing determinants as established in Case No. ER-2014-0258, an adjustment to OSSR shall be made in accordance with the following levels:

- a) A reduction of less than 40,000,000 kWh in a given month
  - No adjustment will be made to OSSR.
- b) A reduction of 40,000,000 kWh or greater in a given month
  - An adjustment excluding off-system sales revenue from OSSR will be made equal to the lesser of (1) all off-system sales revenues derived from all kWh of energy sold off-system due to the entire reduction, or (2) off-system sales revenues up to the reduction of 12(M) or 13(M) revenues compared to normalized 12(M) or 13(M) revenues as determined in Case No. ER-2014-0258.

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MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 73.5CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 73.5APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

For purposes of factors FC, E, and OSSR, "hedging" is defined as realized losses and costs (including broker commissions and fees associated with the hedging activities) minus realized gains associated with mitigating volatility in the Company's cost of fuel, off-system sales and emission allowances, including but not limited to, the Company's use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps.

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 MISO or another centrally administered market (e.g., PJM or SPP) 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 MISO or another centrally administered market (e.g. PJM or SPP) implement a market settlement charge type or schedule not listed in the FAC Charge Type Exhibit filed with the Commission in File No. ER-2014-0258 on May 6, 2015 (a "new charge type"):

- 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 change, 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; and

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MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 73.6CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 73.6

APPLYING TO

MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

- E. If the Company makes the filing provided for in 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 characteristics 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 change, 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

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ISSUED BY Michael Moehn  
NAME OF OFFICER

President  
TITLE

St. Louis, Missouri  
ADDRESS

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APPLYING TO

MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

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.

Should FERC require any item covered by factors FC, PP, E 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 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 number, the new account number and what costs or revenues that flow through this Rider FAC are to be recorded in the account.

$$B = BF \times S_{AP}$$

BF = The Base Factor, which is equal to the normalized value for the sum of allowable fuel costs (consistent with the term FC), plus cost of purchased power (consistent with the term PP), and emissions costs and revenues (consistent with the term E), less revenues from off-system sales (consistent with the term OSSR) divided by corresponding normalized retail kWh as adjusted for applicable losses. The normalized values referred to in the prior sentence shall be those values used to determine the revenue requirement in the Company's most recent rate case. The BF applicable to June through September calendar months ( $BF_{SUMMER}$ ) is \$0.01796 per kWh. The BF applicable to October through May calendar months ( $BF_{WINTER}$ ) is \$0.01729 per kWh.

$S_{AP}$  = kWh during the AP that ended immediately prior to the FAR filing, as measured by taking the most recent kWh data for the retail component of the Company's load settled at its MISO CP node (AMMO.UE or successor node), plus the kWh reductions up to the kWh of energy sold off-system associated with the 12(M) or 13(M) OSSR adjustment above plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company's load settled at its MISO CP node (AMMO.UE or successor node).

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NAME OF OFFICERPresident  
TITLESt. Louis, Missouri  
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MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 73.8CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 73.8

APPLYING TO

MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*(Applicable To Service Provided Between May 30, 2015 And The Day Before The Effective Date Of This Tariff)

FAR DETERMINATION (Cont'd.)

- $S_{RP}$  = Applicable RP estimated kWh representing the expected retail component of the Company's load settled at its MISO CP node (AMMO.UE or successor node) plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company's load settled at its MISO CP node (AMMO.UE or successor node).
- I = Interest applicable to (i) the difference between ANEC and B for all kWh of energy supplied during an AP until those costs have been recovered; (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 rate 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.
- T = True-up amount as defined below.

The FAR, which will be multiplied by the Voltage Adjustment Factors (VAF) set forth below is calculated as:

$$FAR = FAR_{RP} + FAR_{(RP-1)}$$

where:

- FAR = Fuel Adjustment Rate applied to retail customer usage on a per kWh basis starting with the applicable Recovery Period following the FAR filing.
- $FAR_{RP}$  = FAR Recovery Period rate component calculated to recover under- or over-collection during the Accumulation Period that ended immediately prior to the applicable filing.
- $FAR_{(RP-1)}$  = FAR Recovery Period rate component for the under- or over-collection during the Accumulation Period immediately preceding the Accumulation Period that ended immediately prior to the application filing for  $FAR_{RP}$ .

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ISSUED BY Michael Moehn  
NAME OF OFFICER

President  
TITLE

St. Louis, Missouri  
ADDRESS

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APPLYING TO MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

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FAR DETERMINATION (Cont'd.)

The Initial Rate Component For the Individual Service Classifications shall be determined by multiplying the FAR in accordance with the foregoing by the following Voltage Adjustment Factors (VAF):

Secondary Voltage Service (VAF <sub>SEC</sub> )	1.0575
Primary Voltage Service (VAF <sub>PRI</sub> )	1.0252
Transmission Voltage Service (VAF <sub>TRAN</sub> )	0.9917

Customers served by the Company under Service Classification No. 13(M), Industrial Aluminum Smelter (IAS) Service shall be capped such that their FAR<sub>IAS</sub>, adjusted for applicable voltage service, does not exceed \$0.00200/kWh, with FAR<sub>IAS</sub> to be determined as follows:

FAR<sub>IAS</sub> = the lesser of \$0.00200/kWh or the Initial Rate Component For Transmission Customers

Where the Initial Rate Component for Transmission Customers is greater than \$0.00200/kWh, then a Per kWh FAR Shortfall Adder shall apply to each of the respective Initial Rate Components to be determined as follows:

Per kWh FAR Shortfall Adder = (((Initial Rate Component For Transmission Customers - FAR<sub>IAS</sub>) x S<sub>IAS</sub>) / (S<sub>RP</sub> - S<sub>RP-IAS</sub>))

Where:

S<sub>IAS</sub> = Estimated Recovery Period IAS kWh sales at the retail meter  
 S<sub>RP-IAS</sub> = Estimated Recovery Period IAS kWh sales at the Company's MISO CP Node (AMMO.UE or successor node)

The FAR Applicable to the Individual Service Classifications shall be determined as follows:

FAR<sub>SEC</sub> = Initial Rate Component For Secondary Customers + (Per kWh FAR Shortfall Adder x VAF<sub>SEC</sub>)

FAR<sub>PRI</sub> = Initial Rate Component For Primary Customers + (Per kWh FAR Shortfall Adder x VAF<sub>PRI</sub>)

FAR<sub>TRAN</sub> = Initial Rate Component For Transmission Customers + (Per kWh FAR Shortfall Adder x VAF<sub>TRAN</sub>)

The FAR applicable to the individual Service Classifications shall be rounded to the nearest \$0.00001 to be charged on a \$/kWh basis for each applicable kWh billed.

TRUE-UP

After completion of each RP, the Company shall make a true-up filing on the same day as its FAR filing. Any true-up adjustments shall be reflected in T above. Interest on the true-up adjustment will be included in I above.

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APPLYING TO MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

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TRUE-UP (Cont'd.)

The true-up adjustments shall be the difference between the revenues billed and the revenues authorized for collection during the RP.

GENERAL RATE CASE/PRUDENCE REVIEWS

The following shall apply to this FAC, in accordance with Section 386.266.4, RSMo. and applicable Missouri Public Service Commission Rules governing rate adjustment mechanisms established under Section 386.266, RSMo:

The Company shall file a general rate case with the effective date of new rates to be no later than four years after the effective date of a Commission order implementing or continuing this FAC. The four-year period referenced above shall not include any periods in which the Company is prohibited from collecting any charges under this FAC, or any period for which charges hereunder must be fully refunded. In the event a court determines that this FAC is unlawful and all moneys collected hereunder are fully refunded, the Company shall be relieved of the obligation under this FAC to file such a rate case.

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.

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**UNION ELECTRIC COMPANY**

**ELECTRIC SERVICE**

MO.P.S.C. SCHEDULE NO. 6 6th Revised SHEET NO. 73.11

CANCELLING MO.P.S.C. SCHEDULE NO. 6 5th Revised SHEET NO. 73.11

APPLYING TO MISSOURI SERVICE AREA

**RIDER FAC**

**FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)**

(Applicable To Calculation of Fuel Adjustment Rate for the Billing Months of June 2017 through September 2017)

**\*Calculation of Current Fuel Adjustment Rate (FAR):**

Accumulation Period Ending:		January 31, 2017
1. Actual Net Energy Cost = (ANEC) (FC+PP+E-OSSR)		\$210,620,197
2. Net Base Energy Cost (B) = (BF x S <sub>AP</sub> )	-	\$209,251,548
2.1 Base Factor (BF)		\$0.01729/kWh
2.2 Accumulation Period Sales (S <sub>AP</sub> )		12,102,460,901 kWh
3. Total Company Fuel and Purchased Power Difference	=	\$1,368,649
3.1 Customer Responsibility	x	95%
4. Fuel and Purchased Power Amount to be Recovered	=	\$1,300,217
4.1 Interest (I)	+	\$494,654
4.2 True-Up Amount (T)	-	\$562,405
4.3 Prudence Adjustment Amount (P)	±	\$0
5. Fuel and Purchased Power Adjustment (FPA)	=	\$1,232,466
6. Estimated Recovery Period Sales (S <sub>RP</sub> )	÷	23,465,388,463 kWh
7. Current Period Fuel Adjustment Rate (FAR <sub>RP</sub> )	=	\$0.00005/kWh
8. Prior Period Fuel Adjustment Rate (FAR <sub>RP-1</sub> )	+	\$0.00060/kWh
9. Fuel Adjustment Rate (FAR)	=	\$0.00065/kWh

**FAR Applicable to the Individual Service Classifications**

10. Secondary Voltage Adjustment Factor (VAF <sub>SEC</sub> )		1.0575
10.1 Fuel Adjustment Rate(FAR)	x	\$0.00065/kWh
11. FAR for Secondary Customers (FAR <sub>SEC</sub> )	=	\$0.00069/kWh
12. Primary Voltage Adjustment Factor (VAF <sub>PRI</sub> )		1.0252
12.1 Fuel Adjustment Rate(FAR)	x	\$0.00065/kWh
13. FAR for Primary Customers (FAR <sub>PRI</sub> )	=	\$0.00067/kWh
14. Transmission Voltage Adjustment Factor (VAF <sub>TRAN</sub> )		0.9917
14.1 Fuel Adjustment Rate(FAR)	x	\$0.00065/kWh
15. FAR for Transmission Customers (FAR <sub>TRAN</sub> )	=	\$0.00065/kWh

\*Indicates Change.

DATE OF ISSUE	<u>March 23, 2017</u>	DATE EFFECTIVE	<u>May 24, 2017</u>
ISSUED BY	<u>Michael Moehn</u>	TITLE	<u>President</u>
	NAME OF OFFICER		ADDRESS
			<u>St. Louis, Missouri</u>

APPLYING TO MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE

(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

APPLICABILITY

\*This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 11(M), and 12(M).

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation and emissions costs and revenues, net of off-system sales revenues (OSSR) (i.e., Actual Net Energy Costs (ANEC)) and Net Base Energy Costs (B), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

<u>Accumulation Period (AP)</u>	<u>Recovery Period (RP)</u>
February through May	October through May
June through September	February through September
October through January	June through January

AP means the four (4) calendar months during which the actual costs and revenues subject to this rider will be accumulated for the purposes of determining the Fuel Adjustment Rate (FAR).

RP means the billing months during which the FAR is applied to retail customer usage on a per kWh basis, as adjusted for service voltage.

The Company will make a FAR filing no later than sixty (60) days prior to the first billing cycle read date of the applicable Recovery Period above. All FAR filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

FAR DETERMINATION

Ninety five percent (95%) of the difference between ANEC and B for each respective AP will be utilized to calculate the FAR under this rider pursuant to the following formula with the results stated as a separate line item on the customers' bills.

\*Indicates Change.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE March 8, 2017 DATE EFFECTIVE April 1, 2017

ISSUED BY Michael Moehn President St. Louis, Missouri  
NAME OF OFFICER TITLE ADDRESS

MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 74.1

CANCELLING MO.P.S.C. SCHEDULE NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_

APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And  
Thereafter)FAR DETERMINATION (Cont'd.)For each FAR filing made, the FAR<sub>RP</sub> is calculated as:

$$FAR_{RP} = [(ANEC - B) \times 95\% \pm I \pm P \pm T] / S_{RP}$$

Where:

\* ANEC = FC + PP + E ± R - OSSR

\* FC = Fuel costs and revenues associated with the Company's generating plants that are listed in Federal Energy Regulatory Commission ("FERC") Account 151 and recorded in FERC Accounts 501 or 547, and all costs and revenues that are recorded in FERC Account 518. These include the following:

1. For fossil fuel plants:

\*A. the following costs and revenues (including applicable taxes) arising from steam plant operations: coal commodity, gas, alternative fuels, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, railroad transportation, switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs, fuel oil adjustments included in commodity and transportation costs, fuel additive costs included in commodity or transportation costs, oil costs, and expenses resulting from fuel and transportation portfolio optimization activities; and

\*B. the following costs and revenues (including applicable taxes) arising from non-steam plant operations: natural gas generation costs related to commodity, oil, transportation, storage, capacity reservation, fuel losses, hedging, and revenues and expenses resulting from fuel and transportation portfolio optimization activities, but excluding fuel costs related to the Company's landfill gas generating plant known as Maryland Heights Energy Center; and

\*2. The following costs and revenues (including applicable taxes) arising from nuclear plant operations: nuclear fuel commodity expense, waste disposal expense, and nuclear fuel hedging costs.

PP = Purchased power costs and revenues and consists of the following:

\*1. The following costs and revenues for purchased power reflected in FERC Account 555, excluding all charges under Midcontinent Independent System Operator, Inc. ("MISO") Schedules 10, 16, 17 and 24 (or any successor to those MISO Schedules), and excluding generation capacity charges for contracts with terms in excess of one (1) year. Such costs and revenues include:

\*Indicates Change.

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DATE OF ISSUE March 8, 2017 DATE EFFECTIVE April 1, 2017ISSUED BY Michael Moehn President St. Louis, Missouri  
NAME OF OFFICER TITLE ADDRESS

MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 74.2

CANCELLING MO.P.S.C. SCHEDULE NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_

APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

- A. MISO costs or revenues for MISO's energy and operating reserve market settlement charge types and capacity market settlement clearing costs or revenues associated with:
- i. Energy;
  - ii. Losses;
  - iii. Congestion management:
    - a. Congestion;
    - b. Financial Transmission Rights; and
    - c. Auction Revenue Rights;
  - iv. Generation capacity acquired in MISO's capacity auction or market; provided such capacity is acquired for a term of one (1) year or less;
  - v. Revenue sufficiency guarantees;
  - vi. Revenue neutrality uplift;
  - vii. Net inadvertent energy distribution amounts;
  - viii. Ancillary Services:
    - a. Regulating reserve service (MISO Schedule 3, or its successor);
    - b. Energy imbalance service (MISO Schedule 4, or its successor);
    - c. Spinning reserve service (MISO Schedule 5, or its successor); and
    - d. Supplemental reserve service (MISO Schedule 6, or its successor); and
  - ix. Demand response:
    - a. Demand response allocation uplift; and
    - b. Emergency demand response cost allocation (MISO Schedule 30, or its successor);
- B. Non-MISO costs or revenues as follows:
- i. If received from a centrally administered market (e.g. PJM/SPP), costs or revenues of an equivalent nature to those identified for the MISO costs or revenues specified in subpart 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

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DATE OF ISSUE March 8, 2017 DATE EFFECTIVE April 1, 2017ISSUED BY Michael Moehn President St. Louis, Missouri  
NAME OF OFFICER TITLE ADDRESS

MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 74.3

CANCELLING MO.P.S.C. SCHEDULE NO. \_\_\_\_\_

SHEET NO. \_\_\_\_\_

APPLYING TO \_\_\_\_\_

MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

- 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 shortfall and for a duration up to the expected length of the period during which the shortfall is expected to exist; and
- \*2. One and 71/100 percent (1.71%) of transmission service costs reflected in FERC Account 565 and one and 71/100 percent (1.71%) of transmission revenues reflected in FERC Account 456.1 (excluding costs or revenues under MISO Schedule 10, or any successor to that MISO Schedule). Such transmission service costs and revenues included in Factor PP include:
- A. MISO costs and revenues associated with:
- i. Network transmission service (MISO Schedule 9 or its successor);
  - ii. Point-to-point transmission service (MISO Schedules 7 and 8 or their successors);
  - iii. System control and dispatch (MISO Schedule 1 or its successor);
  - iv. Reactive supply and voltage control (MISO Schedule 2 or its successor);
  - v. MISO Schedule 11 or its successor;
  - vi. MISO Schedules 26, 26A, 37 and 38 or their successors;
  - vii. MISO Schedule 33; and
  - viii. MISO Schedules 41, 42-A, 42-B, 45 and 47;
- B. Non-MISO costs and revenues associated with:
- i. Network transmission service;
  - ii. Point-to-point transmission service;
  - iii. System control and dispatch; and
  - iv. Reactive supply and voltage control.

\*Indicates Change.

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DATE OF ISSUE March 8, 2017DATE EFFECTIVE April 1, 2017ISSUED BY Michael Moehn  
NAME OF OFFICERPresident  
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ADDRESS



RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

- E = Costs and revenues for SO<sub>2</sub> and NO<sub>x</sub> emissions allowances in FERC Accounts 411.8, 411.9, and 509, including those associated with hedging.
  
- \*\* R = Net insurance recoveries for costs/revenues included in this Rider FAC (and the insurance premiums paid to maintain such insurance), and subrogation recoveries and settlement proceeds related to costs/revenues included in this Rider FAC.
  
- \* OSSR = Costs and revenues in FERC Account 447 for:
  - 1. Capacity;
  - 2. Energy;
  - 3. Ancillary services, including:
    - A. Regulating reserve service (MISO Schedule 3, or its successor);
    - B. Energy Imbalance Service (MISO Schedule 4, or its successor);
    - C. Spinning reserve service (MISO Schedule 5, or its successor); and
    - D. Supplemental reserve service (MISO Schedule 6, or its successor);
  - 4. Make-whole payments, including:
    - A. Price volatility; and
    - B. Revenue sufficiency guarantee; and
  - 5. Hedging.

\* Indicates Change. \*\* Indicates Addition.

RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

For purposes of factors FC, E, and OSSR, "hedging" is defined as realized losses and costs (including broker commissions and fees associated with the hedging activities) minus realized gains associated with mitigating volatility in the Company's cost of fuel, off-system sales and emission allowances, including but not limited to, the Company's use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps.

\*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 MISO or another centrally administered market (e.g., PJM or SPP) 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 MISO or another centrally administered market (e.g. PJM or SPP) implement a market settlement charge type or schedule not listed in the FAC Charge Type Table included in this rider (a "new charge type"):

- 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 change, 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; and

\* Indicates Change.

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DATE EFFECTIVE April 1, 2017

ISSUED BY Michael Moehn  
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RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

- E. If the Company makes the filing provided for in 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 characteristics 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 change, 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

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RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

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.

Should FERC require any item covered by factors FC, PP, E 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 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 number, the new account number and what costs or revenues that flow through this Rider FAC are to be recorded in the account.

B = BF x S<sub>AP</sub>

\*BF = The Base Factor, which is equal to the normalized value for the sum of allowable fuel costs (consistent with the term FC), plus cost of purchased power (consistent with the term PP), and emissions costs and revenues (consistent with the term E), less revenues from off-system sales (consistent with the term OSSR) divided by corresponding normalized retail kWh as adjusted for applicable losses. The normalized values referred to in the prior sentence shall be those values used to determine the revenue requirement in the Company's most recent rate case. The BF applicable to June through September calendar months (BF<sub>SUMMER</sub>) is \$0.01565 per kWh. The BF applicable to October through May calendar months (BF<sub>WINTER</sub>) is \$0.01536 per kWh.

\*S<sub>AP</sub> = kWh during the AP that ended immediately prior to the FAR filing, as measured by taking the most recent kWh data for the retail component of the Company's load settled at its MISO CP node (AMMO.UE or successor node), plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company's load settled at its MISO CP node (AMMO.UE or successor node).

\*Indicates Change.

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ISSUED BY Michael Moehn President St. Louis, Missouri  
 NAME OF OFFICER TITLE ADDRESS

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And Thereafter)

FAR DETERMINATION (Cont'd.)

- S<sub>RP</sub> = Applicable RP estimated kWh representing the expected retail component of the Company's load settled at its MISO CP node (AMMO.UE or successor node) plus the metered net energy output of any generating station operating within its certificated service territory as a behind the meter resource in MISO, the output of which served to reduce the Company's load settled at its MISO CP node (AMMO.UE or successor node).
- I = Interest applicable to (i) the difference between ANEC and B for all kWh of energy supplied during an AP until those costs have been recovered; (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 rate 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.
- T = True-up amount as defined below.

The FAR, which will be multiplied by the Voltage Adjustment Factors (VAF) set forth below is calculated as:

$$FAR = FAR_{RP} + FAR_{(RP-1)}$$

where:

- FAR = Fuel Adjustment Rate applied to retail customer usage on a per kWh basis starting with the applicable Recovery Period following the FAR filing.
- FAR<sub>RP</sub> = FAR Recovery Period rate component calculated to recover under- or over-collection during the Accumulation Period that ended immediately prior to the applicable filing.
- FAR<sub>(RP-1)</sub> = FAR Recovery Period rate component for the under- or over-collection during the Accumulation Period immediately preceding the Accumulation Period that ended immediately prior to the application filing for FAR<sub>RP</sub>.



APPLYING TO \_\_\_\_\_

MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*FAC CHARGE TYPE TABLE

MISO Energy & Operating Reserve Market Settlement Charge Types and Capacity Market Charges and Credits

DA Asset Energy Amount;	RT Asset Energy Amount;
DA Congestion Rebate on Carve-out GFA;	RT Congestion Rebate on Carve-out GFA;
DA Congestion Rebate on Option B GFA;	RT Contingency Reserve Deployment Failure Charge Amount;
DA Financial Bilateral Transaction Congestion Amount;	RT Demand Response Allocation Uplift Charge;
DA Financial Bilateral Transaction Loss Amount;	RT Distribution of Losses Amount;
DA Loss Rebate on Carve-out GFA;	RT Excessive Energy Amount;
DA Loss Rebate on Option B GFA;	RT Excessive\Deficient Energy Deployment Charge Amount;
DA Non-Asset Energy Amount;	RT Financial Bilateral Transaction Congestion Amount;
DA Ramp Capability Amount;	RT Financial Bilateral Transaction Loss Amount;
DA Regulation Amount;	RT Loss Rebate on Carve-out GFA;
DA Revenue Sufficiency Guarantee Distribution Amount;	RT Miscellaneous Amount;
DA Revenue Sufficiency Guarantee Make Whole Payment Amount;	RT Ramp Capability Amount;
DA Spinning Reserve Amount;	Real Time MVP Distribution;
DA Supplemental Reserve Amount;	RT Net Inadvertent Distribution Amount;
DA Virtual Energy Amount;	RT Net Regulation Adjustment Amount;
FTR Annual Transaction Amount;	RT Non-Asset Energy Amount;
FTR ARR Revenue Amount;	RT Non-Excessive Energy Amount;
FTR ARR Stage 2 Distribution;	RT Price Volatility Make Whole Payment;
FTR Full Funding Guarantee Amount;	RT Regulation Amount;
FTR Guarantee Uplift Amount;	RT Regulation Cost Distribution Amount;
FTR Hourly Allocation Amount;	RT Resource Adequacy Auction Amount;
FTR Infeasible ARR Uplift Amount;	RT Revenue Neutrality Uplift Amount;
FTR Monthly Allocation Amount;	RT Revenue Sufficiency Guarantee First Pass Dist Amount;
FTR Monthly Transaction Amount;	RT Revenue Sufficiency Guarantee Make Whole Payment Amount;
FTR Yearly Allocation Amount;	RT Spinning Reserve Amount;
FTR Transaction Amount;	RT Spinning Reserve Cost Distribution Amount;
Net Revenue from Voluntary Capacity Auction;	RT Supplemental Reserve Amount;
Net Purchase for Voluntary Capacity Auction;	RT Supplemental Reserve Cost Distribution Amount;
	RT Virtual Energy Amount;

MISO Transmission Service Settlement Schedules

MISO Schedule 1 (System control & dispatch);	MISO Schedule 41 (Charge to Recover Costs of Entergy Strom Securitization);
MISO Schedule 2 (Reactive supply & voltage control);	MISO Schedule 42A (Entergy Charge to Recover Interest);
MISO Schedule 7 & 8 (point to point transmission service);	MISO Schedule 42B (Entergy Credit associated with AFUDC);
MISO Schedule 9 (network transmission service);	MISO Schedule 45 (Cost Recovery of NERC Recommendation or Essential Action);
MISO Schedule 11 (Wholesale Distribution);	MISO Schedule 47 (Entergy Operating Companies MISO Transition Cost Recovery);
MISO Schedules 26, 26A, 37 & 38 (MTEP & MVP Cost Recovery);	
MISO Schedule 33 (Black Start Service);	

MISO Charge Types Which Appear On MISO Settlement Statements Represent Administrative Charges And Are Specifically Excluded From The FAC

DA Market Administration Amount;	RT Market Administration Amount;
DA Schedule 24 Allocation Amount;	RT Schedule 24 Allocation Amount;
FTR Market Administration Amount;	RT Schedule 24 Distribution Amount;
Schedule 10 - ISO Cost Recovery Adder;	Schedule 10 - FERC - Annual Charges Recovery;

\* Indicates Addition.

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ISSUED BY Michael Moehn  
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St. Louis, Missouri  
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APPLYING TO \_\_\_\_\_

MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*FAC CHARGE TYPE TABLE (Cont'd.)

PJM Market Settlement Charge Types

Auction Revenue Rights;  
 Balancing Operating Reserve;  
 Balancing Operating Reserve for Load Response;  
  
 Balancing Spot Market Energy;  
 Balancing Transmission Congestion;  
 Balancing Transmission Losses;  
 Capacity Resource Deficiency;  
 Capacity Transfer Rights;  
 Day-ahead Economic Load Response;  
 Day-Ahead Load Response Charge Allocation;  
 Day-ahead Operating Reserve;  
 Day-ahead Operating Reserve for Load Response;  
 Day-ahead Spot Market Energy;  
 Day-ahead Transmission Congestion;  
 Day-ahead Transmission Losses;  
 Demand Resource and ILR Compliance Penalty;  
 Emergency Energy;  
 Emergency Load Response;  
 Energy Imbalance Service;  
 Financial Transmission Rights Auction;  
 Generation Deactivation;  
 Generation Resource Rating Test Failure;  
 Inadvertent Interchange;  
 Incremental Capacity Transfer Rights;  
 Interruptible Load for Reliability;

Load Reconciliation for Inadvertent Interchange;  
 Load Reconciliation for Operating Reserve Charge;  
 Load Reconciliation for Regulation and Frequency Response Service;  
 Load Reconciliation for Spot Market Energy;  
 Load Reconciliation for Synchronized Reserve;  
 Load Reconciliation for Synchronous Condensing;  
 Load Reconciliation for Transmission Congestion;  
 Load Reconciliation for Transmission Losses;  
 Locational Reliability;  
 Miscellaneous Bilateral;  
 Non-Unit Specific Capacity Transaction;  
 Peak Season Maintenance Compliance Penalty;  
 Peak-Hour Period Availability;  
 PJM Customer Payment Default;  
 Planning Period Congestion Uplift;  
 Planning Period Excess Congestion;  
 Ramapo Phase Angle Regulators;  
 Real-time Economic Load Response;  
 Real-Time Load Response Charge Allocation;  
 Regulation and Frequency Response Service;  
 RPM Auction;  
 Station Power;  
 Synchronized Reserve;  
 Synchronous Condensing;  
 Transmission Congestion;  
 Transmission Losses;

PJM Transmission Service Charge Types

Black Start Service;  
 Day-ahead Scheduling Reserve;  
 Direct Assignment Facilities;  
 Expansion Cost Recovery;  
 Firm Point-to-Point Transmission Service;  
 Internal Firm Point-to-Point Transmission Service;  
 Internal Non-Firm Point-to-Point Transmission Service;  
 Load Reconciliation for PJM Scheduling, System Control and Dispatch Service;

Network Integration Transmission Service Offset;  
 Non-Firm Point-to-Point Transmission Service;  
 Non-Zone Network Integration Transmission Service;  
 Other Supporting Facilities;  
 PJM Scheduling, System Control and Dispatch Service Refunds;  
 PJM Scheduling, System Control and Dispatch Services;  
 Qualifying Transmission Upgrade Compliance Penalty;  
 Reactive Services;

\* Indicates Addition.

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 NAME OF OFFICER

President  
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St. Louis, Missouri  
 ADDRESS



MO.P.S.C. SCHEDULE NO. 6

Original

SHEET NO. 74.12

CANCELLING MO.P.S.C. SCHEDULE NO. \_\_\_\_\_

SHEET NO. \_\_\_\_\_

APPLYING TO \_\_\_\_\_

MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

\*FAC CHARGE TYPE TABLE (Cont'd.)

PJM Transmission Service Charge Types (Cont'd.)

Load Reconciliation for PJM Scheduling, System Control and Dispatch Service Refund;	Reactive Supply and Voltage Control from Generation and Other Sources Service;
Load Reconciliation for Reactive Services;	Transmission Enhancement;
Load Reconciliation for Transmission Owner Scheduling, System Control and Dispatch Service;	Transmission Owner Scheduling, System Control and Dispatch Service;
Network Integration Transmission Service;	Unscheduled Transmission Service;
Network Integration Transmission Service (exempt);	

PJM Charge Types Which Appear On The Settlement Statements Represent Administrative Charges Are Specifically Excluded From The FAC

Annual PJM Building Rent;	Michigan - Ontario Interface Phase Angle Regulators;
Annual PJM Cell Tower;	North American Electric Reliability Corporation (NERC);
FERC Annual Charge Recovery;	Organization of PJM States, Inc. (OPSI) Funding;
Load Reconciliation for FERC Annual Charge Recovery;	PJM Annual Membership Fee;
Load Reconciliation for North American Electric Reliability Corporation (NERC);	PJM Settlement, Inc.;
Load Reconciliation for Organization of PJM States, Inc. (OPSI) Funding;	Reliability First Corporation (RFC);
Load Reconciliation for Reliability First Corporation (RFC);	RTO Start-up Cost Recovery;
Market Monitoring Unit (MMU) Funding;	Virginia Retail Administrative Fee;

\* Indicates Addition.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2016-0179.

DATE OF ISSUE March 8, 2017

DATE EFFECTIVE April 1, 2017

ISSUED BY Michael Moehn  
NAME OF OFFICER

President  
TITLE

St. Louis, Missouri  
ADDRESS

MO.P.S.C. SCHEDULE NO. 6

6th Revised

SHEET NO. 74.13

CANCELLING MO.P.S.C. SCHEDULE NO. 6

5th Revised

SHEET NO. 74.13

APPLYING TO MISSOURI SERVICE AREA

**RIDER FAC**

**FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)**

(Applicable To Calculation of Fuel Adjustment Rate for the Billing Months of June 2019 through September 2019)

Calculation of Current Fuel Adjustment Rate (FAR):

Accumulation Period Ending:		January 31, 2019
1. Actual Net Energy Cost = (ANEC) (FC+PP+E-OSSR)		\$145,529,140
2. Net Base Energy Cost (B) = (BF x S <sub>AP</sub> )	-	\$175,752,698
2.1 Base Factor (BF)		\$0.01536/kWh
2.2 Accumulation Period Sales (S <sub>AP</sub> )		11,442,232,892 kWh
3. Total Company Fuel and Purchased Power Difference	=	\$(30,223,558)
3.1 Customer Responsibility	x	95%
4. Fuel and Purchased Power Amount to be Recovered	=	\$(28,712,380)
4.1 Interest (I)	+	\$1,012,498
4.2 True-Up Amount (T)	+	\$(1,673,819)
4.3 Prudence Adjustment Amount (P)	±	\$0
5. Fuel and Purchased Power Adjustment (FPA)	=	\$(29,373,701)
6. Estimated Recovery Period Sales (S <sub>RP</sub> )	÷	23,232,413,455 kWh
7. Current Period Fuel Adjustment Rate (FAR <sub>RP</sub> )	=	\$(0.00126)/kWh
8. Prior Period Fuel Adjustment Rate (FAR <sub>RP-1</sub> )	+	\$(0.00040)/kWh
9. Fuel Adjustment Rate (FAR)	=	\$(0.00166)/kWh

**FAR Applicable to the Individual Service Classifications**

10. Secondary Voltage Adjustment Factor (VAF <sub>SEC</sub> )		1.0549
10.1 Fuel Adjustment Rate (FAR)	x	\$(0.00166)/kWh
11. FAR for Secondary Customers (FAR <sub>SEC</sub> )	=	\$(0.00176)/kWh
12. Primary Voltage Adjustment Factor (VAF <sub>PRI</sub> )		1.0238
12.1 Fuel Adjustment Rate (FAR)	x	\$(0.00166)/kWh
13. FAR for Primary Customers (FAR <sub>PRI</sub> )	=	\$(0.00170)/kWh
14. Transmission Voltage Adjustment Factor (VAF <sub>TRAN</sub> )		0.9921
14.1 Fuel Adjustment Rate (FAR)	x	\$(0.00166)/kWh
15. FAR for Transmission Customers (FAR <sub>TRAN</sub> )	=	\$(0.00165)/kWh

DATE OF ISSUE March 25, 2019 DATE EFFECTIVE May 24, 2019

ISSUED BY Michael Moehn President St. Louis, Missouri  
 NAME OF OFFICER TITLE ADDRESS