

MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 71

CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 71

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 calendar 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 day 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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APPLYING TO MISSOURI SERVICE AREA

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

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FAR DETERMINATION (Cont'd.)

For each FAR filing made, the FAR_{RP} is calculated as:

$$* \text{ FAR}_{\text{RP}} = [(\text{ANEC} - \text{B}) \times 95\% \pm \text{I} \pm \text{P} \pm \text{TUP}] / \text{S}_{\text{RP}}$$

Where:

* ANEC = FC + PP + E ± R - OSSR

* FC = Fuel costs and revenues associated with the Company's generating plants consisting of the following:

1. For fossil fuel plants:

*A. the following costs and revenues (including applicable taxes) arising from steam plant operations recorded in FERC Account 501: 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, ash disposal costs and revenues, and expenses resulting from fuel and transportation portfolio optimization activities;

**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 (including applicable taxes) arising from non-steam plant operations recorded in FERC Account 547: 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, recorded in FERC Account 518: nuclear fuel commodity expense, waste disposal expense, and nuclear fuel hedging costs.

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MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 71.2CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 71.2APPLYING 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.)

*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 (a) amounts associated with the subscribed portions of Power Purchase Agreements dedicated to specific customers under the Renewable Choice Program tariff, (b) 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:

- 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);

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CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 71.3

APPLYING TO MISSOURI SERVICE AREA

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.)

- 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

- 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.

**2) One and 44/100 percent (1.44%) of transmission service costs reflected in FERC Account 565 and one and 44/100 percent (1.44%) of transmission revenues reflected in FERC Account 456.1 (excluding (a) amounts associated with the subscribed portions of Purchased Power Agreements dedicated to specific customers under the Renewable Choice Program tariff and (b) 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:

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APPLYING TO MISSOURI SERVICE AREA

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.)

- *3)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, 26C, 26D, 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.

E = Costs and revenues for SO₂ and NO_x 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.

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APPLYING TO MISSOURI SERVICE AREA

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

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FAR DETERMINATION (Cont'd.)

*OSSR = Costs and revenues in FERC Account 447 (excluding (a) amounts associated with portions of Power Purchase Agreements dedicated to specific customers under the Renewable Choice Program tariff, (b) amounts associated with generation assets dedicated, as of the date BF was determined, to specific customers under the Renewable Choice Program tariff and (c) amounts associated with generation assets that began commercial operation after the date BF was determined and that were dedicated to specific customers under the Renewable Choice Program tariff when it began commercial operation) 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.

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.

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MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 71.6CANCELLING MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 71.6APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

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FAR DETERMINATION (Cont'd.)

* 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 \$0.01259 per kWh. The BF applicable to October through May calendar months (BF_{WINTER}) is \$0.01167 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 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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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.)

- 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 ("TUP") 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.
- *TUP = 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 = The lower of (a) PFAR and (b) RAC.

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} .
- **PFAR = The Preliminary FAR, which is the sum of FAR_{RP} and $FAR_{(RP-1)}$

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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.)

**RAC = Rate Adjustment Cap: applies to the FAR rate and shall apply so long as the rate caps provided for by Section 393.1655, RSMo. are in effect, and shall be calculated by multiplying the rate as determined under Section 393.1655.4 by the 2.85% Compound Annual Growth Rate compounded for the amount of time in days that has passed since the effective date of rate schedules published to effectuate the Commission's Order that approved the Stipulation and Agreement that resolved File No. ER-2016-0179, and subtracting the then-current RESRAM rate under Rider RESRAM and the average base rate determined from the most recent general rate proceeding as calculated pursuant to Section 393.1655, and dividing that result by the weighted average voltage adjustment factor 1.0476%.

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

Secondary Voltage Service (VAF _{SEC})	1.0570
Primary Voltage Service (VAF _{PRI})	1.0224

** Customers served by the Company under Service Classification No. 11(M), Large Primary Service, shall have their rate capped such that their FAR_{LPS} does not exceed RAC_{LPS}, where

** RAC_{LPS} = Rate Adjustment Cap Applicable to LPS Class: applies to the FAR rate applicable to customers in the LPS class and shall apply so long as the rate caps provided for by Section 393.1655, RSMo. are in effect, and shall be calculated by multiplying the class average overall rate as determined under Section 393.1655.6 by the 2.00% Compound Annual Growth Rate compounded for the amount of time that has passed in days since the effective date of rate schedules published to effectuate the Commission's Order that approved the Stipulation and Agreement that resolved File No. ER-2016-0179, and subtracting the then-current RESRAM rate under Rider RESRAM and the class average base rate determined from the most recent general rate proceeding as calculated pursuant to Section 393.1655.

**FAR_{LPS} = Fuel Adjustment Rate applicable to customers taking service under Service Classification No. 11(M), Large Primary Service, which is calculated as the minimum of the Initial Rate Component for the FAR applicable to Primary Voltage Service and RAC_{LPS}

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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.)

*Where the Initial Rate Component for Primary Customers is greater than FAR_{LPS}, 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 =

$$(((\text{Initial Rate Component For Primary Customers} - \text{FAR}_{\text{LPS}}) \times \text{SLPS}) / (\text{SRP} - \text{SRP-LPS}))$$

*Where:

SLPS = Estimated Recovery Period LPS kWh sales at the retail meter
 SRP-LPS = Estimated Recovery Period LPS 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:

FARSEC = Initial Rate Component For Secondary Customers + (Per kWh FAR Shortfall Adder x VAFSEC)
 FARPRI = Initial Rate Component For Primary Customers + (Per kWh FAR Shortfall Adder x VAFPRI)

The FAR applicable to the individual Service Classifications, including the calculations on Lines 16 through 21 of Rider FAC, 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 TUP above. Interest on the true-up adjustment will be included in I above.

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.

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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

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

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FAR DETERMINATION (Cont'd.)

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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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;
	RT Supplemental Reserve Amount;
	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 Schedules 26-C & 26-D - (TMEP 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 Change.

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;
 Load Reconciliation for PJM Scheduling, System Control and Dispatch Service Refund;
 Load Reconciliation for Reactive Services;
 Load Reconciliation for Transmission Owner Scheduling, System Control and Dispatch Service;
 Network Integration Transmission Service;
 Network Integration Transmission Service (exempt);

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 Supply and Voltage Control from Generation and Other Sources Service;
 Transmission Enhancement;
 Transmission Owner Scheduling, System Control and Dispatch Service;
 Unscheduled Transmission Service;
 Reactive Services;

*Indicates Change.

RIDER FAC

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

FAC CHARGE TYPE TABLE (Cont'd.)

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

*SPP Market Settlement Charge Types

DA Asset Energy Amount;	Transmission Congestion Rights Annual Closeout
DA Non-Asset Energy Amount;	Auction Revenue Rights Uplift
DA Make-Whole Payment Distribution;	Auction Revenue Rights Monthly Payback
DA Make-Whole Payment;;	Auction Revenue Rights Annual Payback
DA Virtual Energy;	DA Regulation Up
DA Virtual Energy Transaction Fee;	DA Regulation Down
DA Demand Reduction Amount;	DA Regulation Up Distribution
DA Demand Reduction Distribution Amount;	DA Regulation Down Distribution
DA GFA Carve-Out Daily Amount;	DA Spinning Reserve
DA GFA Carve-Out Monthly Amount;	DA Spinning Reserve Distribution
DA GFA Carve-Out Yearly Amount;	DA Supplemental Reserve
GFA Carve Out Distribution Daily Amount;	DA Supplemental Reserve Distribution
GFA Carve Out Distribution Monthly Amount;	RT Regulation Up
GFA Carve Out Distribution Yearly Amount;	RT Regulation Up Distribution
RT Asset Energy Amount	RT Regulation Down
RT Over Collected Losses Distribution;	RT Regulation Down Distribution
RT Miscellaneous Amount;	RT Regulation Out of Merit
RT Non-Asset Energy;	RT Spinning Reserve Amount
RT Revenue Neutrality Uplift;	RT Supplemental Reserve Amount
RT Joint Operating Agreement;	RT Spinning Reserve Cost Distribution Amount
RUC Make Whole Payment Distribution;	RT Supplemental Reserve Distribution Amount
RUC Make Whole Payment;	RT Regulation Non-Performance
RT Virtual Energy Amount;	RT Regulation Non-Performance Distribution
RT Demand Reduction Amount;	RT Regulation Deployment Adjustment;
RT Demand Reduction Distribution Amount;	RT Regulation Deployment Adjustment;
Transmission Congestion Rights Daily Uplift;	RT Contingency Reserve Deployment Failure Distribution;
Transmission Congestion Rights Monthly Payback;	RT Reserve Sharing Group;
Transmission Congestion Rights Auction Transaction;	RT Reserve Sharing Group Distribution;
Transmission Congestion Rights Annual Payback;	RT Pseudo-Tie Congestion Amount;
Transmission Congestion Rights Funding;	RT Pseudo-Tie Losses Amount;
Auction Revenue Rights Annual Closeout;	RT Unused Regulation -Up Mileage Make Whole Payment;
Auction Revenue Rights Funding;	RT Unused Regulation -Down Mileage Make Whole Payment;

*Indicates Addition.

MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 71.14

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.)

**** SPP Transmission Service Charge Types**

- Schedule 1 - Scheduling, System Control & Dispatch Service;
- Schedule 2 - Reactive Voltage;
- Schedule 7 - Zonal Firm Point-to-Point;
- Schedule 8 - Zonal Non-Firm Point-to-Point;
- Schedule 11 - Base Plan Zonal and Regional;

**** SPP charge types representing administrative charges specifically excluded from the**

FAC

- Transmission Schedule 1A - Tariff Administrative Fee;
- Transmission Schedule 12 - FERC Assessment;

** Indicates Addition.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2019-0335.

DATE OF ISSUE March 18, 2020 DATE EFFECTIVE April 1, 2020

ISSUED BY Martin J. Lyons Chairman & President St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 6 3rd Revised SHEET NO. 71.15

CANCELLING MO.P.S.C. SCHEDULE NO. 6 2nd Revised SHEET NO. 71.15

APPLYING TO MISSOURI SERVICE AREA

RIDER FAC

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

(Applicable To services provided on June 1, 2021 through September 30, 2021)

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

Accumulation Period Ending:	January 31, 2021
1. Actual Net Energy Cost = (ANEC) (FC+PP+E+R -OSSR)	\$175,194,287
2. (B) = (BF x S _{AP})	-
2.1 Base Factor (BF)	\$0.01167/kWh
2.2 Accumulation Period Sales (S _{AP})	10,636,084,499 kWh
3. Total Company Fuel and Purchased Power Difference	= \$51,071,181
3.1 Customer Responsibility	x 95%
4. Fuel and Purchased Power Amount to be Recovered	= \$48,517,622
4.1 Interest (I)	-
*4.2 True-Up Amount (TUP)	+ \$(1,014,918)
4.3 Prudence Adjustment Amount (P)	± \$0
5. Fuel and Purchased Power Adjustment (FPA)	= \$47,874,346
6. Estimated Recovery Period Sales (S _{RP})	÷ 22,403,223,244 kWh
7. Current Period Fuel Adjustment Rate (FAR _{RP})	= \$0.00214/kWh
8. Prior Period Fuel Adjustment Rate (FAR _{RP-1})	+ \$0.00078/kWh
9. Preliminary Fuel Adjustment Rate (PFAR)	= \$0.00291/kWh
10. Rate Adjustment Cap (RAC)	= \$0.01516/kWh
11. Fuel Adjustment Rate (FAR, lesser of PFAR and RAC)	= \$0.00291/kWh

Initial Rate Component for the Individual Service Classifications

12. Secondary Voltage Adjustment Factor (VAF _{SEC})	1.0570
13. Initial Rate Component for Secondary Customers	\$0.00308/kWh
14. Primary Voltage Adjustment Factor (VAF _{PRI})	1.0224
15. Initial Rate Component for Primary Customers	\$0.00298/kWh

FAR Applicable to the Individual Service Classifications

16. RAC _{LPS}	= \$0.00892/kWh
17. FAR for Large Primary Service (FAR _{LPS,Final} , lesser of 15 and 16)	= \$0.00298/kWh
18. Difference (Line 15 - Line 17) if applicable	= \$0.00000/kWh
19. Estimated Recovery Period Metered Sales for LPS (SLPS)	2,570,039,710 kWh
20. FAR Shortfall Adder (Line 18 x Line 19)	\$0
21. Per kWh FAR Shortfall Adder (Line 20 / (Line 6 - SRP-LPS))	= \$0.00000/kWh
22. FAR for Secondary Customers (FAR _{SEC}) (Line 13 + (Line 21 x Line 12))	= \$0.00308/kWh
23. FAR for Primary Customers (FAR _{PRI}) (Line 15 + (Line 21 x Line 14))	= \$0.00298/kWh

DATE OF ISSUE April 1, 2021 DATE EFFECTIVE June 1, 2021

ISSUED BY Martin J. Lyons Chairman & President St. Louis, Missouri
 NAME OF OFFICER TITLE ADDRESS