

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 62nd Revised SHEET NO. 71CANCELLING MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71APPLYING TO MISSOURI SERVICE AREA

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RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE

**** (Applicable To Service Provided Between February 28, 2022 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), 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. Notwithstanding that each RP covers a period of eight months, when an extraordinary event has occurred that results in an increase to actual net energy costs in an accumulation period, for good cause shown, subject to Commission approval after an opportunity for any party to be heard, the Company shall defer recovery beyond eight months over a period determined by the Commission upon a finding that the magnitude of the increase on customers of recovering the difference between actual net energy costs and net base energy costs for that accumulation period should be mitigated. The difference not recovered within the eight-month recovery period applicable to the accumulation period at issue will be added to subsequent recovery periods until recovered with a true-up at the end of the Commission approved extended recovery period.

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.

*Indicates Reissue except **Indicates Change.

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NAME OF OFFICERChairman & President
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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 62nd RevisedSHEET NO. 71.1CANCELLING MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 71.1

APPLYING TO

MISSOURI SERVICE AREA

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

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

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.

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; provided that costs otherwise included in the foregoing associated with coal remaining at a coal plant after the coal plant ceases coal-fired generation shall be excluded from Factor FC;

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

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

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 or any subsequent renewable subscription program that is approved by the Commission in an order that acknowledges that such program's impacts should be excluded from Factor PP, (b) all charges under Midcontinent Independent System Operator, Inc. ("MISO") Schedules 10, 16, 17 and 24 (or any successor to those MISO Schedules), (c) generation capacity charges for contracts with terms in excess of one (1) year, (d) amounts associated with energy purchased from the MISO market to serve digital currency mining by the Company, and (e) amounts for Renewable Energy Standard compliance that are included in Rider RESRAM. 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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RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

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 84/100 percent (1.84%) of transmission service costs reflected in FERC Account 565 and one and 84/100 percent (1.84%) 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 or any subsequent renewable subscription program that is approved by the Commission in an order that acknowledges that such program's impacts should be excluded from this Factor PP, (b) costs or revenues under MISO Schedule 10, or any successor to that MISO Schedule), and (c) for Renewable Energy Standard compliance included in Rider RESRAM. Such transmission service costs and revenues included in Factor PP include:

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APPLYING TO

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

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

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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RIDER FACFUEL 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 or any subsequent renewable subscription program that is approved by the Commission in an order that acknowledges that such program's impacts should be excluded from Factor OSSR, (b) amounts associated with generation assets dedicated, as of the date BF was determined, to specific customers under the Renewable Choice Program tariff or any subsequent renewable subscription program that is approved by the Commission in an order that acknowledges that such program's impacts should be excluded from Factor OSSR, (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 or any subsequent renewable subscription program that is approved by the Commission in an order that acknowledges that such program's impacts should be excluded from Factor OSSR when it began commercial operation, or (d) for Renewable Energy Standard compliance included in Rider RESRAM) 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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RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

FAR DETERMINATION (Cont'd.)

Notwithstanding anything to the contrary contained in the tariff sheets for Rider FAC, factors PP and OSSR shall not include costs and revenues for any undersubscribed portion of a permanent Community Solar Program resource allocated to shareholders under the approved stipulation in File No. ER-2021-0240.

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_{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 \$0.01323 per kWh. The BF applicable to October through May calendar months (BF_{WINTER}) is \$0.01192 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), but excluding kWh for digital currency mining operations by the Company, 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).

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) but excluding kWh for digital currency mining operations by the Company, 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

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

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

FAR DETERMINATION (Cont'd.)

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)

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 1.0455%.

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

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

FAR DETERMINATION (Cont'd.)

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})	1.0539
Primary Voltage Service (VAF _{PRI})	1.0222
High Voltage Service (VAF _{HV})	1.0059
Transmission Voltage Service (VAF _{TRANS})	0.9928

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} = The lesser of (a) the Combined Initial Rate Component for RAC_{LPS} Comparison or (b) RAC_{LPS}.

Combined Initial Rate Component for RAC_{LPS} Comparison = The sum of the products of each of the Primary, High Voltage, and Transmission Initial Rate Components for the Individual Service Classifications and the applicable LPS Weighting Factors (WF):

Primary Voltage LPS Weighting Factor (WF _{PRI})	0.1587
High Voltage LPS Weighting Factor (WF _{HV})	0.3967
Transmission Voltage LPS Weighting Factor (WF _{TRANS})	0.4446

The Weighting Factors are the ratios between each voltage's annual kWh and total annual LPS kWh. The above Combined Initial Rate Component is developed for the purposes of determining if the statutory RAC_{LPS} has been exceeded, and if it has, calculating the FAR Shortfall Adder to be applied across all non-LPS service classifications in the immediately concluded AP.

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

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FAR DETERMINATION (Cont'd.)

Where the Combined Initial Rate Component for RAC_{LPS} Comparison 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 = $((\text{Combined Initial Rate Component For } RAC_{LPS} \text{ Comparison} - FAR_{LPS}) \times SLPS) / (SRP - SRP-LPS)$

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 Non-LPS 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)
 FARHV = Initial Rate Component For High Voltage Customers + (Per kWh FAR Shortfall Adder x VAFHV)
 FARTRANS = Initial Rate Component For Transmission Customers + (Per kWh FAR Shortfall Adder x VAFTRANS)

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

LPSFARPRI = Initial Rate Component For Primary Customers x LPS RAC Cap Multiplier
 LPSFARHV = Initial Rate Component For High Voltage Customers x LPS RAC Cap Multiplier
 LPSFARTRANS = Initial Rate Component For Transmission Customers x LPS RAC Cap Multiplier

Where the LPS RAC Cap Multiplier is the FAR_{LPS} divided by the Combined Initial Rate Component for RAC_{LPS} Comparison.

The FAR applicable to the individual Service Classifications, including the calculations on Lines 24 through 29 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.

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

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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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RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)FAC CHARGE TYPE TABLE (Cont'd.)

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

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 Schedule 49 Distribution
FTR Transaction Amount;	RT Spinning Reserve 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 - (TMETP 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 Reissue except **Indicates Addition.

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ISSUED BY Mark C. Birk
NAME OF OFFICER

Chairman & President
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St. Louis, Missouri
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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.12CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.12APPLYING TO MISSOURI SERVICE AREA

*

RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)FAC CHARGE TYPE TABLE (Cont'd.)

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

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 Reissue except **Indicates Addition.

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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.13CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.13APPLYING TO MISSOURI SERVICE AREA

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RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)FAC CHARGE TYPE TABLE (Cont'd.)

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

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 Contingency Reserve Deployment Failure
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;

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ISSUED BY Mark C. Birk
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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 71.14CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 71.14

APPLYING TO

MISSOURI SERVICE AREA

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RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)FAC CHARGE TYPE TABLE (Cont'd.)

**** (Applicable To Service Provided Between February 28, 2022 And The Day Before The Effective Date Of This Tariff)**

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

Schedule 1A - Tariff Administrative Fee;
Schedule 1A2 - Transmission Congestion Rights Administration
Schedule 1A3 - Integrated Marketplace Clearing Administration
Schedule 1A4 - Integrated Marketplace Facilitation Administration
Schedule 12 - FERC Assessment;

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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

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

7th Revised

SHEET NO. 71.15CANCELLING MO.P.S.C. SCHEDULE NO. 6

6th Revised

SHEET NO. 71.15

APPLYING TO

MISSOURI SERVICE AREA

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RIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)**** (Applicable To services provided on June 1, 2023 through September 30, 2023)**Calculation of Current Fuel Adjustment Rate (FAR):

Accumulation Period Ending:		January 31, 2023
1. Actual Net Energy Cost = (ANEC) (FC+PP+E+R-OSSR)		\$177,359,618
2. (B) = (BF x S _{AP})	-	\$127,009,380
2.1 Base Factor (BF)		\$ 0.01192/kWh
2.2 Accumulation Period Sales (S _{AP})		10,655,149,249 kWh
3. Total Company Fuel and Purchased Power Difference	=	\$ 50,350,238
3.1 Customer Responsibility	x	95%
4. Fuel and Purchased Power Amount to be Recovered	=	\$ 47,832,726
4.1 Interest (I)	+	\$ 688,236
4.2 True-Up Amount (TUP)	+	\$(2,493,100)
4.3 Prudence Adjustment Amount (P)	±	\$ 0
5. Fuel and Purchased Power Adjustment (FPA)	=	\$ 46,027,862
6. Estimated Recovery Period Sales (S _{RP})	÷	22,112,386,277 kWh
7. Current Period Fuel Adjustment Rate (FAR _{RP})	=	\$ 0.00208/kWh
8. Prior Period Fuel Adjustment Rate (FAR _{RP-1})	+	\$ 0.00291/kWh
9. Preliminary Fuel Adjustment Rate (PFAR)	=	\$ 0.00499/kWh
10. Rate Adjustment Cap (RAC)	=	\$ 0.01313/kWh
11. Fuel Adjustment Rate (FAR, lesser of PFAR and RAC)	=	\$ 0.00499/kWh

Initial Rate Component for the Individual Service Classifications

12. Secondary Voltage Adjustment Factor (VAF _{SEC})		1.0539
13. Initial Rate Component for Secondary Customers	=	\$0.00526/kWh
14. Primary Voltage Adjustment Factor (VAF _{PRI})		1.0222
15. Initial Rate Component for Primary Customers	=	\$0.00511/kWh
16. Primary LPS Weighting Factor (WF _{PRI})		0.1587
17. High Voltage Adjustment Factor (VAF _{HV})		1.0059
18. Initial Rate Component for High Voltage Customers	=	\$0.00502/kWh
19. High Voltage LPS Weighting Factor (WF _{HV})		0.3967
20. Transmission Adjustment Factor (VAF _{TRANS})		0.9928
21. Initial Rate Component for Transmission Customers	=	\$0.00496/kWh
22. Transmission Voltage LPS Weighting Factor (WF _{TRANS})		0.4446
23. Combined Initial Rate Component for RAC _{LPS} Comparison	=	\$0.00501/kWh

LPS Rate Adjustment Cap Components & Adder

24. RAC _{LPS}	=	\$0.00672/kWh
25. Weighted Avg FAR for Large Primary Service (FAR _{LPS} , lesser of 23 and 24)	=	\$0.00501/kWh
26. Difference (Line 23 - Line 25) if applicable	=	\$0.00000/kWh
27. Estimated Recovery Period Metered Sales for LPS (S _{LPS})	=	2,493,836,750 kWh
28. FAR Shortfall Adder (Line 26 x Line 27)	=	\$ 0
29. Per kWh FAR Shortfall Adder (Line 28 / (S _{RP} - S _{RP,LPS}))	=	\$0.00000/kWh

FAR Applicable to the Non-LPS Service Classifications

30. FAR for Secondary (FAR _{SEC}) (Line 13 + (Line 29 x Line 12))	=	\$0.00526/kWh
31. FAR for Primary (FAR _{PRI}) (Line 15 + (Line 29 x Line 14))	=	\$0.00511/kWh
32. FAR for High Voltage (FAR _{HV}) (Line 18 + (Line 29 x Line 17))	=	\$0.00502/kWh
33. FAR for Transmission (FAR _{TRANS}) (Line 21 + (Line 29 x Line 20))	=	\$0.00496/kWh

FAR Applicable to the LPS Service Classifications

34. LPS RAC Cap Multiplier (Line 25 / Line 23))	=	1.0
35. FAR for LPS Primary (LPSFAR _{PRI}) (Line 15 x Line 34)	=	\$0.00511/kWh
36. FAR for LPS High Voltage (LPSFAR _{HV}) (Line 18 x Line 34)	=	\$0.00502/kWh
37. FAR for LPS Transmission (LPSFAR _{TRANS}) (Line 21 x Line 34)	=	\$0.00496/kWh

*Indicates Reissue except **Indicates Change.

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July 9, 2023ISSUED BY Mark C. BirkChairman & PresidentSt. Louis, Missouri

NAME OF OFFICER

TITLE

ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.16CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.16APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL 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), and 11(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. Notwithstanding that each RP covers a period of eight months, when an extraordinary event has occurred that results in an increase to actual net energy costs in an accumulation period, for good cause shown, subject to Commission approval after an opportunity for any party to be heard, the Company shall defer recovery beyond eight months over a period determined by the Commission upon a finding that the magnitude of the increase on customers of recovering the difference between actual net energy costs and net base energy costs for that accumulation period should be mitigated. The difference not recovered within the eight-month recovery period applicable to the accumulation period at issue will be added to subsequent recovery periods until recovered with a true-up at the end of the Commission approved extended recovery period.

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.

*Indicates Change vs. Prior FAC.

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NAME OF OFFICERChairman & President
TITLESt. Louis, Missouri
ADDRESS

MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.17CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.17APPLYING 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

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.

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

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

Where:

$$ANEC = FC + PP + E \pm R - OSSR$$

* FC = Fuel costs and revenues associated with the Company's in-service generating plants, but excluding decommissioning and retirement costs, 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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ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 71.18CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 71.18

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.)

- 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) all charges under Midcontinent Independent System Operator, Inc. ("MISO") Schedules 10, 16, 17 and 24 (or any successor to those MISO Schedules), and (b) 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);
 - d. Supplemental reserve service (MISO Schedule 6, or its successor); and
 - e. Short-term reserve service;
 - ix. Demand response:
 - a. Demand response allocation uplift; and
 - b. Emergency demand response cost allocation (MISO Schedule 30, or its successor);
 - x. System Support Resource:
 - a. MISO Schedule 43K.

*Indicates Change vs. Prior FAC.

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NAME OF OFFICERChairman & President
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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.19CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.19APPLYING 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.)

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) Six and 84/100 percent (6.84%) of transmission service costs reflected in FERC Account 565 and six and 84/100 percent (6.84%) 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:

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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 Schedules 26, 26A, 26C, 26D, 26E, 26F, 37 and 38 or their successors;
 - vi. MISO Schedule 33; and
 - vii. 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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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.21CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.21APPLYING 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.)

* 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);
 - E. Ramp capability service; and
 - F. Short-term reserve service;
4. Make-whole payments, including:
 - A. Price volatility; and
 - B. Revenue sufficiency guarantee;
5. Hedging; and
6. System Support Resource:
 - A. MISO Schedule 43K.

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.

Notwithstanding anything to the contrary contained in the tariff sheets for Rider FAC, factors PP and OSSR shall not include costs and revenues for any undersubscribed portion of a permanent Community Solar Program resource allocated to shareholders under the approved stipulation in File No. ER-2021-0240.

** Notwithstanding anything to the contrary contained in the tariff sheets for Rider FAC, factors FC, PP and OSSR shall not include costs and revenues for (a) amounts associated with portions of Power Purchase Agreements dedicated to specific customers under the Renewable Choice Program tariff or any subsequent renewable subscription program that is approved by the Commission in an order that acknowledges that such program's impacts should be excluded from Factor OSSR, (b) amounts associated with generation assets dedicated, as of the date BF was

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NAME OF OFFICERChairman & President
TITLESt. Louis, Missouri
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* determined, to specific customers under the Renewable Choice Program tariff or any subsequent renewable subscription program that is approved by the Commission in an order that acknowledges that such program's impacts should be excluded from Factor OSSR, (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 or any subsequent renewable subscription program that is approved by the Commission in an order that acknowledges that such program's impacts should be excluded from Factors FC, PP, and OSSR when it began commercial operation, (d) for Renewable Energy Standard compliance included in Rider RESRAM, (e) amounts associated with energy purchased from the MISO market to serve digital currency mining by the Company, and (f) those amounts specified by Commission Order approving any tariff, rider or program, to be excluded from Rider FAC. Moreover, if a research and development ("R&D") project would impact the amounts for Factors FC, PP, or OSSR in an upcoming FAR filing, the Company shall file, in the docket in which this Rider FAC was approved, a notice outlining what the research and development project consists of, and how it will impact such factors in the upcoming FAR filing. The Company will bear the burden of proof to show that the impacts of the subject project should be included in Factors FC, PP, or OSSR, as the case may be. Such notice shall be filed no fewer than 60 days prior to the date of the subject FAR filing. Parties shall have thirty days after the filing of the notice to challenge the inclusion of the impacts of such project on such Factors in the determination of the FAR by stating the reasons for the challenge. If a party challenges the inclusion of a cost/revenue, the costs/revenue will be removed from the FAR until the Commission makes a determination regarding the inclusion of the cost/revenue. If the Commission orders a challenged cost be included in the FAC, the costs will be refunded or the revenues returned along with interest in the next periodic adjustment. For purposes of this Rider FAC, a "research and development project" is defined the same as "Research, Development, and Demonstration (RD&D)" as defined in 18 CFR Chapter 1, subchapter C, Part 101, Federal Power Act Definition 32.B, provided that if the project at issue consumes electricity only incidentally, it will not constitute a research and development project.

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.

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UNION ELECTRIC COMPANY

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Thereafter)FAR DETERMINATION (Cont'd.)

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

- * 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 (BFSUMMER) is \$0.01439 per kWh. The BF applicable to October through May calendar months (BFWINTER) is \$0.01328 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), but excluding kWh for research and development projects, the impact of which are challenged or ordered to be excluded by the Commission, 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).
- * 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) but excluding kWh for research and development projects, the impact of which are challenged or ordered to be excluded by the Commission, 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.

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UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 71.24CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 71.24

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.)

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)

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 1.0455%.

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Thereafter)FAR DETERMINATION (Cont'd.)

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})	1.0539
Primary Voltage Service (VAF_{PRI})	1.0222
High Voltage Service (VAF_{HV})	1.0059
Transmission Voltage Service (VAF_{TRANS})	0.9928

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} = The lesser of (a) the Combined Initial Rate Component for RAC_{LPS} Comparison or (b) RAC_{LPS} .

Combined Initial Rate Component for RAC_{LPS} Comparison = The sum of the products of each of the Primary, High Voltage, and Transmission Initial Rate Components for the Individual Service Classifications and the applicable LPS Weighting Factors (WF):

Primary Voltage LPS Weighting Factor (WF_{PRI})	0.1587
High Voltage LPS Weighting Factor (WF_{HV})	0.3967
Transmission Voltage LPS Weighting Factor (WF_{TRANS})	0.4446

The Weighting Factors are the ratios between each voltage's annual kWh and total annual LPS kWh. The above Combined Initial Rate Component is developed for the purposes of determining if the statutory RAC_{LPS} has been exceeded, and if it has, calculating the FAR Shortfall Adder to be applied across all non-LPS service classifications in the immediately concluded AP.

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MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.26CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.26APPLYING 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
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Where the Combined Initial Rate Component for RAC_{LPS} Comparison 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 = $((\text{Combined Initial Rate Component For } RAC_{LPS} \text{ Comparison} - FAR_{LPS}) \times SLPS) / (SRP - SRP - LPS)$

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 Non-LPS 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)
FARHV = Initial Rate Component For High Voltage Customers + (Per kWh FAR Shortfall Adder x VAFHV)
FARTRANS = Initial Rate Component For Transmission Customers + (Per kWh FAR Shortfall Adder x VAFTRANS)

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

LPSFARPRI = Initial Rate Component For Primary Customers x LPS RAC Cap Multiplier
LPSFARHV = Initial Rate Component For High Voltage Customers x LPS RAC Cap Multiplier
LPSFARTRANS = Initial Rate Component For Transmission Customers x LPS RAC Cap Multiplier

Where the LPS RAC Cap Multiplier is the FAR_{LPS} divided by the Combined Initial Rate Component for RAC_{LPS} Comparison.

The FAR applicable to the individual Service Classifications, including the calculations on Lines 24 through 29 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.

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MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.27CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.27APPLYING 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)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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MO.P.S.C. SCHEDULE NO. 61st RevisedSHEET NO. 71.28CANCELLING MO.P.S.C. SCHEDULE NO. 6OriginalSHEET NO. 71.28

APPLYING TO

MISSOURI SERVICE AREA**RIDER FAC****FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)****FAC CHARGE TYPE TABLE**(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And
Thereafter)*** MISO Energy & Operating Reserve Market Settlement Charge Types and Capacity Market
Charges and Credits**

DA Asset Energy Amount;
 DA Congestion Rebate on Carve-out GFA;
 DA Congestion Rebate on Option B GFA;
 DA Financial Bilateral Transaction Congestion Amount;
 DA Financial Bilateral Transaction Loss Amount;
 DA Loss Rebate on Carve-out GFA;
 DA Loss Rebate on Option B GFA;
 DA Non-Asset Energy Amount;
 DA Ramp Capability Amount;
 DA Regulation Amount;
 DA Revenue Sufficiency Guarantee Distribution Amount;
 DA Revenue Sufficiency Guarantee Make Whole Payment
 Amount;
 DA Short-term Reserve Amount;
 DA Spinning Reserve Amount;
 DA Supplemental Reserve Amount;
 DA Virtual Energy Amount;
 FTR Annual Transaction Amount;
 FTR ARR Revenue Amount;
 FTR ARR Stage 2 Distribution;
 FTR Full Funding Guarantee Amount;
 FTR Guarantee Uplift Amount;
 FTR Hourly Allocation Amount;
 FTR Infeasible ARR Uplift Amount;
 FTR Monthly Allocation Amount;
 FTR Monthly Transaction Amount;
 FTR Yearly Allocation Amount;
 FTR Transaction Amount;

RT Asset Energy Amount;
 RT Congestion Rebate on Carve-out GFA;
 RT Contingency Reserve Deployment Failure Charge
 Amount;
 RT Demand Response Allocation Uplift Charge;
 RT Distribution of Losses Amount;
 RT Excessive Energy Amount;
 RT Excessive\Deficient Energy Deployment Charge
 Amount;
 RT Financial Bilateral Transaction Congestion
 Amount;
 RT Financial Bilateral Transaction Loss Amount;
 RT Loss Rebate on Carve-out GFA;
 RT Miscellaneous Amount;
 RT Ramp Capability Amount;
 Real Time MVP Distribution;
 RT Net Inadvertent Distribution Amount;
 RT Net Regulation Adjustment Amount;
 RT Non-Asset Energy Amount;
 RT Non-Excessive Energy Amount;
 RT Price Volatility Make Whole Payment;
 RT Regulation Amount;
 RT Regulation Cost Distribution Amount;
 RT Resource Adequacy Auction Amount;
 RT Revenue Neutrality Uplift Amount;
 RT Revenue Sufficiency Guarantee First Pass Dist
 Amount;
 RT Revenue Sufficiency Guarantee Make Whole Payment
 Amount;
 RT Schedule 49 Distribution;
 RT Short-term Reserve Amount;
 RT Spinning Reserve Amount;
 RT Spinning Reserve Cost Distribution Amount;
 RT Supplemental Reserve Amount;
 RT Supplemental Reserve Cost Distribution Amount;
 RT Virtual Energy Amount;
 Short-term Reserve Cost Distribution Amount;
 Short-term Reserve Deployment Failure Charge
 Amount;

*** MISO Transmission Service Settlement Schedules**

MISO Schedule 1 (System control & dispatch);
 MISO Schedule 2 (Reactive supply & voltage control);
 MISO Schedule 7 & 8 (point to point transmission
 service);
 MISO Schedule 9 (network transmission service);
 MISO Schedules 26, 26A, 37 & 38 (MTEP & MVP Cost
 Recovery);
 MISO Schedules 26-C & 26-D - (TMEP Cost Recovery);
 MISO Schedules 26-E & 26-F (IMEP Cost Recovery);
 MISO Schedule 33 (Black Start Service);

MISO Schedule 41 (Charge to Recover Costs of Entergy
 Strom Securitization);
 MISO Schedule 42A (Entergy Charge to Recover
 Interest);
 MISO Schedule 42B (Entergy Credit associated with
 AFUDC);
 MISO Schedule 45 (Cost Recovery of NERC
 Recommendation or Essential Action);
 MISO Schedule 47 (Entergy Operating Companies
 MISO Transition Cost Recovery);

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MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.29CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.29APPLYING TO MISSOURI SERVICE AREA**RIDER FAC****FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)****FAC CHARGE TYPE TABLE (Cont'd.)**(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And
Thereafter)**MISO Charge Types Which Appear On MISO Settlement Statements Represent
Administrative Charges And Are Specifically Excluded From The FAC**DA Market Administration Amount;
DA Schedule 24 Allocation Amount;
FTR Market Administration Amount;
Schedule 10 - ISO Cost Recovery Adder;RT Market Administration Amount;
RT Schedule 24 Allocation Amount;
RT Schedule 24 Distribution Amount;
Schedule 10 - FERC - Annual Charges Recovery;**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;

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MO.P.S.C. SCHEDULE NO. 61st Revised SHEET NO. 71.30CANCELLING MO.P.S.C. SCHEDULE NO. 6Original SHEET NO. 71.30

APPLYING TO

MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)FAC CHARGE TYPE TABLE (Cont'd.)(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And
Thereafter)PJM Charge Types Which Appear On The Settlement Statements Represent Administrative
Charges Are Specifically Excluded From The FAC

Annual PJM Building Rent;
 Annual PJM Cell Tower;
 FERC Annual Charge Recovery;
 Load Reconciliation for FERC Annual Charge Recovery;
 Load Reconciliation for North American Electric
 Reliability Corporation (NERC);
 Load Reconciliation for Organization of PJM States,
 Inc. (OPSI) Funding;
 Load Reconciliation for Reliability First
 Corporation (RFC);
 Market Monitoring Unit (MMU) Funding;

Michigan - Ontario Interface Phase Angle Regulators;
 North American Electric Reliability Corporation
 (NERC);
 Organization of PJM States, Inc. (OPSI) Funding;
 PJM Annual Membership Fee;
 PJM Settlement, Inc.;
 Reliability First Corporation (RFC);
 RTO Start-up Cost Recovery;
 Virginia Retail Administrative Fee;

* SPP Market Settlement Charge Types

DA Asset Energy Amount;
 DA Non-Asset Energy Amount;
 DA Make-Whole Payment Distribution;
 DA Make-Whole Payment;
 DA Virtual Energy;
 DA Virtual Energy Transaction Fee;
 DA Demand Reduction Amount;
 DA Demand Reduction Distribution Amount;
 DA GFA Carve-Out Daily Amount;
 DA GFA Carve-Out Monthly Amount;
 DA GFA Carve-Out Yearly Amount;
 GFA Carve Out Distribution Daily Amount;
 GFA Carve Out Distribution Monthly Amount;
 GFA Carve Out Distribution Yearly Amount;
 RT Asset Energy Amount;
 RT Over Collected Losses Distribution;
 RT Miscellaneous Amount;
 RT Non-Asset Energy;
 RT Revenue Neutrality Uplift;
 RT Joint Operating Agreement;
 RUC Make Whole Payment Distribution;
 RUC Make Whole Payment;
 RT Virtual Energy Amount;
 RT Demand Reduction Amount;
 RT Demand Reduction Distribution Amount;
 Transmission Congestion Rights Daily Uplift;
 Transmission Congestion Rights Monthly Payback;
 Transmission Congestion Rights Auction Transaction;
 Transmission Congestion Rights Annual Payback;
 Transmission Congestion Rights Funding;
 Auction Revenue Rights Annual Closeout;
 Auction Revenue Rights Funding;
 DA Remp Capability Up Amount;
 DA Ramp Capability Down Amount;
 DA Ramp Capability Up Distribution Amount;
 DA Ramp Capability Down Distribution Amount;
 RT Ramp Capability Non-Performance Amount;

Transmission Congestion Rights Annual Closeout;
 Auction Revenue Rights Uplift;
 Auction Revenue Rights Monthly Payback;
 Auction Revenue Rights Annual Payback;
 DA Regulation Up;
 DA Regulation Down;
 DA Regulation Up Distribution
 DA Regulation Down Distribution
 DA Spinning Reserve;
 DA Spinning Reserve Distribution;
 DA Supplemental Reserve;
 DA Supplemental Reserve Distribution
 RT Regulation Up;
 RT Regulation Up Distribution;
 RT Regulation Down;
 RT Regulation Down Distribution;
 RT Regulation Out of Merit;
 RT Spinning Reserve Amount;
 RT Supplemental Reserve Amount;
 RT Spinning Reserve Cost Distribution Amount;
 RT Supplemental Reserve Distribution Amount;
 RT Regulation Non-Performance;
 RT Regulation Non-Performance Distribution;
 RT Regulation Deployment Adjustment;
 RT Contingency Reserve Deployment Failure;
 RT Contingency Reserve Deployment Failure Distribution;
 RT Reserve Sharing Group;
 RT Reserve Sharing Group Distribution;
 RT Pseudo-Tie Congestion Amount;
 RT Pseudo-Tie Losses Amount;
 RT Unused Regulation -Up Mileage Make Whole Payment;
 RT Ramp Capability Up Amount;
 RT Ramp Capability Down Amount;
 RT Ramp Capability Up Distribution Amount;
 RT Ramp Capability Down Distribution Amount;
 RT Ramp Capability Non-Performance Distribution
 Amount;
 RT Unused Regulation -Down Mileage Make Whole Payment;

* Indicates Change vs. Prior FAC.

Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2022-0337.

DATE OF ISSUE June 19, 2023DATE EFFECTIVE July 9, 2023ISSUED BY Mark C. Birk
NAME OF OFFICERChairman & President
TITLESt. Louis, Missouri
ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 64th Revised SHEET NO. 71.31CANCELLING MO.P.S.C. SCHEDULE NO. 63rd Revised SHEET NO. 71.31APPLYING TO MISSOURI SERVICE AREARIDER FACFUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (Cont'd.)FAC CHARGE TYPE TABLE (Cont'd.)(Applicable To Service Provided On The Effective Date Of This Tariff Sheet And
Thereafter)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

Schedule 1A - Tariff Administrative Fee;
Schedule 1A2 - Transmission Congestion Rights Administration
Schedule 1A3 - Integrated Marketplace Clearing Administration
Schedule 1A4 - Integrated Marketplace Facilitation Administration
Schedule 12 - FERC Assessment;

* Indicates Change vs. Prior FAC (No change on this sheet).

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ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

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

5th Revised

SHEET NO. 71.32CANCELLING MO.P.S.C. SCHEDULE NO. 6

4th Revised

SHEET NO. 71.32

APPLYING TO

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

(Applicable To services provided on February 1, 2025 through May 31, 2025)

Calculation of Current Fuel Adjustment Rate (FAR):

Accumulation Period Ending:		September 30, 2024
1. Actual Net Energy Cost = (ANEC) (FC+PP+E+R -OSSR)		\$194,686,693
2. (B) = (BF x S _{AP})	-	\$171,172,252
2.1 Base Factor (BF)		\$.01439/kWh
2.2 Accumulation Period Sales (S _{AP})		11,895,222,508 kWh
3. Total Company Fuel and Purchased Power Difference	=	\$23,514,441
3.1 Customer Responsibility	x	95%
4. Fuel and Purchased Power Amount to be Recovered	=	\$22,338,719
4.1 Interest (I)	-	\$3,716,640
4.2 True-Up Amount (TUP)	+	\$(1,319,614)
4.3 Prudence Adjustment Amount (P)	±	\$0
5. Fuel and Purchased Power Adjustment (FPA)	=	\$24,735,745
6. Estimated Recovery Period Sales (S _{RP})	÷	21,680,221,651 kWh
7. Current Period Fuel Adjustment Rate (FAR _{RP})	=	\$0.00114/kWh
8. Prior Period Fuel Adjustment Rate (FAR _{RP-1})	+	\$(0.00006)/kWh
9. Preliminary Fuel Adjustment Rate (PFAR)	=	\$0.00108/kWh
10. Rate Adjustment Cap (RAC)	=	N/A
11. Fuel Adjustment Rate (FAR, lesser of PFAR and RAC)	=	\$0.00108/kWh

Initial Rate Component for the Individual Service Classifications

12. Secondary Voltage Adjustment Factor (VAF _{SEC})		1.0539
13. Initial Rate Component for Secondary Customers	=	\$0.00114/kWh
14. Primary Voltage Adjustment Factor (VAF _{PRI})		1.0222
15. Initial Rate Component for Primary Customers	=	\$0.00110/kWh
16. Primary LPS Weighting Factor (WF _{PRI})		.1587
17. High Voltage Adjustment Factor (VAF _{HV})		1.0059
18. Initial Rate Component for High Voltage Customers	=	\$0.00108/kWh
19. High Voltage LPS Weighting Factor (WF _{HV})		.3967
20. Transmission Adjustment Factor (VAF _{TRANS})		0.9928
21. Initial Rate Component for Transmission Customers	=	\$0.00107/kWh
22. Transmission Voltage LPS Weighting Factor (WF _{TRANS})		.4446
23. Combined Initial Rate Component for RAC _{LPS} Comparison	=	\$0.00108/kWh

LPS Rate Adjustment Cap Components & Adder

24. RAC _{LPS}	=	N/A
25. Weighted Avg FAR for Large Primary Service (FAR _{LPS} , lesser of 23 and 24)	=	\$0.00108/kWh
26. Difference (Line 23 - Line 25) if applicable	=	\$0.00000/kWh
27. Estimated Recovery Period Metered Sales for LPS (S _{LPS})	=	2,553,940,860 kWh
28. FAR Shortfall Adder (Line 26 x Line 27)	=	\$0
29. Per kWh FAR Shortfall Adder (Line 28 / (S _{RP} - SRP _{LPS}))	=	\$0.00000/kWh

FAR Applicable to the Non-LPS Service Classifications

30. FAR for Secondary (FAR _{SEC}) (Line 13 + (Line 29 x Line 12))	=	\$0.00114/kWh
31. FAR for Primary (FAR _{PRI}) (Line 15 + (Line 29 x Line 14))	=	\$0.00110/kWh
32. FAR for High Voltage (FAR _{HV}) (Line 18 + (Line 29 x Line 17))	=	\$0.00108/kWh
33. FAR for Transmission (FAR _{TRANS}) (Line 21 + (Line 29 x Line 20))	=	\$0.00107/kWh

FAR Applicable to the LPS Service Classifications

34. LPS RAC Cap Multiplier (Line 25 / Line 23))	=	1.0
35. FAR for LPS Primary (LPSFAR _{PRI}) (Line 15 x Line 34)	=	\$0.00110/kWh
36. FAR for LPS High Voltage (LPSFAR _{HV}) (Line 18 x Line 34)	=	\$0.00108/kWh
37. FAR for LPS Transmission (LPSFAR _{TRANS}) (Line 21 x Line 34)	=	\$0.00107/kWh

DATE OF ISSUE December 2, 2024DATE EFFECTIVE February 1, 2025ISSUED BY Mark C. Birk
NAME OF OFFICERChairman & President
TITLESt. Louis, Missouri
ADDRESS