

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 Fourth Revised Sheet No. 50
Canceling **P.S.C. MO. No.** 7 Third Revised Sheet No. 50

For Missouri Retail Service Area

FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
(Applicable to Service Provided September 29, 2015 Through June 7, 2017)

DEFINITIONS

ACCUMULATION PERIODS, FILING DATES AND RECOVERY PERIODS: An accumulation period is the six 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”). The two six-month accumulation periods each year through September 30, 2019, the two corresponding twelve-month recovery periods and the filing dates are as shown below. Each filing shall include detailed work papers in electronic format with formulas intact to support the filing.

Accumulation Periods

January – June
July – December

Filing Dates

By August 1
By February 1

Recovery Periods

October – September
April – March

A recovery period consists of the months during which the FAR is applied to retail customer billings on a per kilowatt-hour (kWh) basis.

COSTS AND REVENUES: Costs eligible for the Fuel and Purchased Power Adjustment (“FPA”) will be the Company’s allocated jurisdictional costs for the fuel component of the Company’s generating units, purchased power energy charges including applicable Southwest Power Pool (“SPP”) charges, emission allowance costs and amortizations, cost of transmission of electricity by others associated with purchased power and off-system sales, and the costs described below associated with the Company’s hedging programs - all as incurred during the accumulation period. These costs will be offset by jurisdictional off-system sales revenues, applicable SPP revenues, and revenue from the sale of Renewable Energy Certificates or Credits (“REC”). Eligible costs do not include the purchased power demand costs associated with purchased power contracts in excess of one year. Likewise revenues do not include demand or capacity receipts associated with power contracts in excess of one year.

APPLICABILITY

The price per kWh of electricity sold to retail customers will be adjusted (up or down) periodically subject to application of the Rider FAC and approval by the Missouri Public Service Commission (“MPSC” or “Commission”).

The FAR is the result of dividing the FPA by forecasted Missouri retail net system input (“SRP”) for the recovery period, expanded for Voltage Adjustment Factors (“VAF”), rounded to the nearest \$0.00001, and aggregating over two accumulation periods. The amount charged on a separate line on retail customers’ bills is equal to the current annual FAR multiplied by kWh billed.

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 Third Revised Sheet No. 50.1
Canceling P.S.C. MO. No. 7 Second Revised Sheet No. 50.1

For Missouri Retail Service Area

FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
(Applicable to Service Provided September 29, 2015 Through June 7, 2017)

FORMULAS AND DEFINITIONS OF COMPONENTS

FPA = $95\% * ((ANEC - B) * J) + T + I + P$

ANEC = Actual Net Energy Costs = $(FC + E + PP + TC - OSSR - R)$

FC = Fuel Costs Incurred to Support Sales:
The following costs reflected in Federal Energy Regulatory Commission (“FERC”) Account Number 501:

Subaccount 501000: coal commodity and transportation, side release and freeze conditioning agents, dust mitigation agents, accessorial charges as delineated in railroad accessorial tariffs [additional crew, closing hopper railcar doors, completion of loading of a unit train and its release for movement, completion of unloading of a unit train and its release for movement, delay for removal of frozen coal, destination detention, diversion of empty unit train (including administration fee, holding charges, and out-of-route charges which may include fuel surcharge), diversion of loaded coal trains, diversion of loaded unit train fees (including administration fee, additional mileage fee or out-of-route charges which may include fuel surcharge), fuel surcharge, held in transit, hold charge, locomotive release, miscellaneous handling of coal cars, origin detention, origin re-designation, out-of-route charges (including fuel surcharge), out-of-route movement, pick-up of locomotive power, placement and pick-up of loaded or empty private coal cars on railroad supplied tracks, placement and pick-up of loaded or empty private coal cars on shipper supplied tracks, railcar storage, release of locomotive power, removal, rotation and/or addition of cars, storage charges, switching, trainset positioning, trainset storage, and weighing], unit train maintenance and leases, applicable taxes, natural gas costs, fuel quality adjustments, fuel hedging costs, fuel adjustments included in commodity and transportation costs, broker commissions and fees (fees charged by an agent, or agent's company to facilitate transactions between buyers and sellers) and margins (cash or collateral used to secure or maintain the Company's hedge position with a brokerage or exchange), oil costs for commodity, transportation, storage, taxes, fees, and fuel losses, coal and oil inventory adjustments, and insurance recoveries, subrogation recoveries and settlement proceeds for increased fuel expenses in the 501 Accounts.

Subaccount 501020: the allocation of the allowed costs in the 501000, 501300, and 501400 accounts attributed to native load;

Subaccount 501030: the allocation of the allowed costs in the 501000, 501300, and 501400 accounts attributed to off system sales;

Subaccount 501300: fuel additives and consumable costs for Air Quality Control Systems (“AQCS”) operations, such as ammonia, hydrated lime, lime, limestone, powder activated carbon, sulfur, and RESPond, or other consumables which perform similar functions;

Subaccount 501400: residual costs and revenues associated with combustion product, slag and ash disposal costs and revenues including contractors, materials and other miscellaneous expenses.

The following costs reflected in FERC Account Number 518:

Subaccount 518000: nuclear fuel commodity and hedging costs;

Subaccount 518201: nuclear fuel waste disposal expense;

Subaccount 518100: nuclear fuel oil.

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P.S.C. MO. No. 7 Second Revised Sheet No. 50.2
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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

The following costs reflected in FERC Account Number 547:
Subaccount 547000: natural gas, and oil costs for commodity, transportation, storage, taxes, fees and fuel losses, hedging costs for natural gas, oil, and natural gas used to cross-hedge purchased power or sales, and settlement proceeds, insurance recoveries, subrogation recoveries for increased fuel expenses, and broker commissions and fees (fees charged by an agent, or agent's company to facilitate transactions between buyers and sellers), and margins (cash or collateral used to secure or maintain the Company's hedge position with a brokerage or exchange).
Subaccount 547020: the allocation of the allowed costs in the 547000 and 547300 accounts attributed to native load;
Subaccount 547030: the allocation of the allowed costs in the 547000 and 547300 accounts attributed to off system sales;
Subaccount 547300: fuel additives.

E = Net Emission Costs:
The following costs and revenues reflected in FERC Account Number 509:
Subaccount 509000: NO_x and SO₂ emission allowance costs and revenue amortizations offset by revenues from the sale of NO_x and SO₂ emission allowances including any associated hedging costs, and broker commissions and fees (fees charged by an agent, or agent's company to facilitate transactions between buyers and sellers) and margins (cash or collateral used to secure or maintain the Company's hedge position with a brokerage or exchange).

PP = Purchased Power Costs:
The following costs or revenues reflected in FERC Account Number 555:
Subaccount 555005: capacity charges for capacity purchases one year or less in duration;
Subaccount 555000: purchased power costs, energy charges from capacity purchases of any duration, insurance recoveries, and subrogation recoveries for purchased power expenses, hedging costs including broker commissions and fees (fees charged by an agent, or agent's company to facilitate transactions between buyers and sellers) and margins (cash or collateral used to secure or maintain the Company's hedge position with a brokerage or exchange), charges and credits related to the SPP Integrated Marketplace ("IM") including, energy, revenue neutrality, make whole and out of merit payments and distributions, over collected losses payments and distributions, Transmission Congestion Rights ("TCR") and Auction Revenue Rights ("ARR") settlements, virtual energy costs, revenues and related fees where the virtual energy transaction is a hedge in support of physical operations related to a generating resource or load, load/export charges, ancillary services including non-performance and distribution payments and charges and other miscellaneous SPP Integrated Market charges including uplift charges or credits;
Subaccount 555021: the allocation of the allowed costs in the 555000 account attributed to intercompany purchases for native load;
Subaccount 555030: the allocation of the allowed costs in the 555000 account attributed to purchases for off system sales;
Subaccount 555031: the allocation of the allowed costs in the 555000 account attributed to intercompany purchases for off system sales.

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P.S.C. MO. No. 7 Second Revised Sheet No. 50.3
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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

- TC = Transmission Costs:
The following costs reflected in FERC Account Number 565:
Subaccount 565000: non-SPP transmission used to serve off system sales or to make purchases for load and 7.3% of the SPP transmission service costs which includes the schedules listed below as well as any adjustments to the charges in the schedules below:
Schedule 7 – Long Term Firm and Short Term Point to Point Transmission Service
Schedule 8 – Non Firm Point to Point Transmission Service
Schedule 9 – Network Integration Transmission Service
Schedule 10 – Wholesale Distribution Service
Schedule 11 – Base Plan Zonal Charge and Region Wide Charge
Subaccount 565020: the allocation of the allowed costs in the 565000 account attributed to native load;
Subaccount 565027: the allocation of the allowed costs in the 565000 account attributed to transmission demand charges;
Subaccount 565030: the allocation of the allowed costs in account 565000 attributed to off system sales.
- OSSR = Revenues from Off-System Sales:
The following revenues or costs reflected in FERC Account Number 447:
Subaccount 447020: all revenues from off-system sales. This includes charges and credits related to the SPP IM including, energy, ancillary services, revenue sufficiency (such as make whole payments and out of merit payments and distributions), revenue neutrality payments and distributions, over collected losses payments and distributions, TCR and ARR settlements, demand reductions, virtual energy costs and revenues and related fees where the virtual energy transaction is a hedge in support of physical operations related to a generating resource or load, generation/export charges, ancillary services including non-performance and distribution payments and SPP uplift revenues or credits. Off-system sales revenues from full and partial requirements sales to municipalities that are served through bilateral contracts in excess of one year shall be excluded from OSSR component;
Subaccount 447012: capacity charges for capacity sales one year or less in duration;
Subaccount 447030: the allocation of the includable sales in account 447020 not attributed to retail sales.
- R = Renewable Energy Credit Revenue:
Revenues reflected in FERC account 509000 from the sale of Renewable Energy Credits that are not needed to meet the Renewable Energy Standard.

Any cost identified above which is a Missouri-only cost shall be grossed up by the current kWh energy factor, included in the ANEC calculation and allocated as indicated in component J below. Any cost identified above which is a Kansas-only cost shall be excluded from the ANEC calculation.

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P.S.C. MO. No. 7 Second Revised Sheet No. 50.4
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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

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

Costs and revenues not specifically detailed in Factors FC, PP, E, TC, OSSR, or R shall not be included in the Company's FAR filings; provided however, in the case of Factors PP, TC or OSSR, the market settlement charge types under which SPP or another centrally administered market (e.g., PJM or MISO) bills/credits a cost or revenue need not be detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; and provided further, should the SPP or another centrally administered market (e.g. PJM or MISO) implement a new market settlement charge type not listed below or a new schedule not listed in TC:

- A. The Company may include the new schedule, charge type cost or revenue in its FAR filings if the Company believes the new schedule, charge type cost or revenue possesses the characteristics of, and is of the nature of, the costs or revenues listed below or in the schedules listed in TC, as the case may be, subject to the requirement that the Company make a filing with the Commission as outlined in B below and also subject to another party's right to challenge the inclusion as outlined in E. below;
- B. The Company will make a filing with the Commission giving the Commission notice of the new schedule or charge type no later than 60 days prior to the Company including the new schedule, charge type cost or revenue in a FAR filing. Such filing shall identify the proposed accounts affected by such change, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP, TC or OSSR as the case may be, and identify the preexisting schedule, or market settlement charge type(s) which the new schedule or charge type replaces or supplements;
- C. The Company will also provide notice in its monthly reports required by the Commission's fuel adjustment clause rules that identifies the new schedule, charge type costs or revenues by amount, description and location within the monthly reports;
- D. The Company shall account for the new schedule, charge type costs or revenues in a manner which allows for the transparent determination of current period and cumulative costs or revenues;

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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

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

- F. A party other than the Company may seek the inclusion of a new schedule or charge type in a FAR filing by making a filing with the Commission no less than 60 days before the Company's next FAR filing date of August 1 or February 1. Such a filing shall give the Commission notice that such party believes the new schedule or charge type should be included because it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP, TC or OSSR, as the case may be. The party's filing shall identify the proposed accounts affected by such change, provide a description of the new schedule or charge type demonstrating that it possesses the characteristics of, and is of the nature of, the schedules, costs or revenues listed in factors PP, TC or OSSR as the case may be, and identify the preexisting schedule or market settlement charge type(s) which the new schedule or charge type replaces or supplements. If a party makes the filing provided for by this paragraph F and a party (including the Company) challenges the inclusion, such challenge will not delay inclusion of the new schedule or charge type in the FAR filing or delay approval of the FAR filing. To challenge the inclusion of a new schedule or charge type, the challenging party shall make a filing with the Commission based upon that party's contention that the new schedule or charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the schedules, costs or revenues listed in Factors PP, TC, or OSSR, as the case may be. The challenging party shall make its filing challenging the inclusion and stating the reasons why it believes the new schedule or charge type does not possess the characteristic of the costs or revenues listed in Factors PP, TC or OSSR, as the case may be, within 30 days of the filing that seeks inclusion of the new schedule or charge type. In the event of a timely challenge, the party seeking the inclusion of the new schedule or charge type shall bear the burden of proof to support its contention that the new schedule or charge type should be included in the Company's FAR filings. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P.

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P.S.C. MO. No. 7 Second Revised Sheet No. 50.6
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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

SPP IM charge/revenue types that are included in the FAC are listed below:

- Day Ahead Regulation Down Service Amount
- Day Ahead Regulation Down Service Distribution Amount
- Day Ahead Regulation Up Service Amount
- Day Ahead Regulation Up Service Distribution Amount
- Day Ahead Spinning Reserve Amount
- Day Ahead Spinning Reserve Distribution Amount
- Day Ahead Supplemental Reserve Amount
- Day Ahead Supplemental Reserve Distribution Amount
- Real Time Contingency Reserve Deployment Failure Amount
- Real Time Contingency Reserve Deployment Failure Distribution Amount
- Real Time Regulation Service Deployment Adjustment Amount
- Real Time Regulation Down Service Amount
- Real Time Regulation Down Service Distribution Amount
- Real Time Regulation Non-Performance
- Real Time Regulation Non-Performance Distribution
- Real Time Regulation Up Service Amount
- Real Time Regulation Up Service Distribution Amount
- Real Time Spinning Reserve Amount
- Real Time Spinning Reserve Distribution Amount
- Real Time Supplemental Reserve Amount
- Real Time Supplemental Reserve Distribution Amount
- Day Ahead Asset Energy
- Day Ahead Non-Asset Energy
- Day Ahead Virtual Energy Amount
- Real Time Asset Energy Amount
- Real Time Non-Asset Energy Amount
- Real Time Virtual Energy Amount
- Transmission Congestion Rights Funding Amount
- Transmission Congestion Rights Daily Uplift Amount
- Transmission Congestion Rights Monthly Payback Amount
- Transmission Congestion Rights Annual Payback Amount
- Transmission Congestion Rights Annual Closeout Amount
- Transmission Congestion Rights Auction Transaction Amount
- Auction Revenue Rights Funding Amount
- Auction Revenue Rights Uplift Amount
- Auction Revenue Rights Monthly Payback Amount
- Auction Revenue Annual Payback Amount
- Auction Revenue Rights Annual Closeout Amount
- Day Ahead Virtual Energy Transaction Fee Amount
- Day Ahead Demand Reduction Amount
- Day Ahead Grandfathered Agreement Carve Out Daily Amount
- Grandfathered Agreement Carve Out Distribution Daily Amount

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P.S.C. MO. No. 7 Second Revised Sheet No. 50.7
Canceling P.S.C. MO. No. 7 First Original Sheet No. 50.7
For Missouri Retail Service Area

FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
(Applicable to Service Provided September 29, 2015 Through June 7, 2017)

FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

- SPP IM charge/revenue types that are included in the FAC (continued)
- Day Ahead Grandfathered Agreement Carve Out Monthly Amount
- Grandfathered Agreement Carve Out Distribution Monthly Amount
- Day Ahead Grandfathered Agreement Carve Out Yearly Amount
- Grandfathered Agreement Carve Out Distribution Yearly Amount
- Day Ahead Make Whole Payment Amount
- Day Ahead Make Whole Payment Distribution Amount
- Day Ahead Over Collected Losses Distribution Amount
- Miscellaneous Amount
- Reliability Unit Commitment Make Whole Payment Amount
- Real Time Out of Merit Amount
- Reliability Unit Commitment Make Whole Payment Distribution Amount
- Over Collected Losses Distribution Amount
- Real Time Joint Operating Agreement Amount
- Real Time Reserve Sharing Group Amount
- Real Time Reserve Sharing Group Distribution Amount
- Real Time Demand Reduction Amount
- Real Time Demand Reduction Distribution Amount
- Real Time Pseudo Tie Congestion Amount
- Real Time Pseudo Tie Losses Amount
- Unused Regulation Up Mileage Make Whole Payment Amount
- Unused Regulation Down Mileage Make Whole Payment Amount
- Revenue Neutrality Uplift Distribution Amount

Should FERC require any item covered by components FC, E, PP, TC, OSSR or R to be recorded in an account different than the FERC accounts listed in such components, such items shall nevertheless be included in component FC, E, PP, TC, OSSR or R. 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 the Rider FAC to be recorded in the account.

B = Net base energy costs ordered by the Commission in the last general rate case consistent with the costs and revenues included in the calculation of the FPA. Net Base Energy costs will be calculated as shown below:

$$S_{AP} \times \text{Base Factor ("BF")}$$

S_{AP} = Net system input ("NSI") in kWh for the accumulation period

BF = Company base factor costs per kWh: \$0.01186

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 Second Revised Sheet No. 50.8
Canceling P.S.C. MO. No. 7 First Original Sheet No. 50.8
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FUEL ADJUSTMENT CLAUSE – Rider FAC
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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

J = Missouri Retail Energy Ratio = (MO Retail kWh sales + MO Losses) / (MO Retail kWh Sales + MO Losses + KS Retail kWh Sales + KS Losses + Sales for Resale, Municipals kWh Sales [includes border customers] + Sales for Resale, Municipals Losses)
MO Losses = 6.121%; KS Losses = 6.298%; Sales for Resale, Municipals Losses = 21.50%

T = True-up amount as defined below.

I = Interest applicable to (i) the difference between Missouri Retail ANEC and B for all kWh of energy supplied during an AP until those costs have been recovered; (ii) refunds due to prudence reviews (“P”), if any; and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings (“T”) provided for herein. Interest shall be calculated monthly at a rate equal to the weighted average interest 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 in this tariff.

FAR = FPA/S_{RP}

Single Accumulation Period Secondary Voltage FAR_{Sec} = FAR * VAF_{Sec}
Single Accumulation Period Primary Voltage FAR_{Prim} = FAR * VAF_{Prim}

Annual Secondary Voltage FAR_{Sec} = Aggregation of the two Single Accumulation Period Secondary Voltage FARs still to be recovered

Annual Primary Voltage FAR_{Prim} = Aggregation of the two Single Accumulation Period Primary Voltage FARs still to be recovered

Where:

FPA = Fuel and Purchased Power Adjustment

S_{RP} = Forecasted recovery period Missouri retail NSI in kWh, at the generator

VAF = Expansion factor by voltage level

VAF_{Sec} = Expansion factor for lower than primary voltage customers

VAF_{Prim} = Expansion factor for primary and higher voltage customers

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 Second Revised Sheet No. 50.9
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TRUE-UPS

After completion of each RP, the Company shall make a true-up filing by the filing date of its next FAR filing. Any true-up adjustments shall be reflected in component “T” above. Interest on the true-up adjustment will be included in component “I” above.

The true-up amount shall be the difference between the revenues billed and the revenues authorized for collection during the RP as well as any corrections identified to be included in the current FAR filing. Any corrections included will be discussed in the testimony accompanying the true-up filing.

PRUDENCE REVIEWS

Prudence reviews of the costs subject to this Rider 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 FAC shall be returned to customers. Adjustments by Commission order, if any, pursuant to any prudence review shall be included in the FAR calculation in component “P” above unless a separate refund is ordered by the Commission. Interest on the prudence adjustment will be included in component “I” above.

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 First Original Sheet No. 50.11
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**FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
(Applicable to Service Provided June 8, 2017 and Thereafter)**

DEFINITIONS

ACCUMULATION PERIODS, FILING DATES AND RECOVERY PERIODS: An accumulation period is the six 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”). The two six-month accumulation periods each year through May 27, 2021, the two corresponding twelve-month recovery periods and the filing dates are as shown below. Each filing shall include detailed work papers in electronic format with formulas intact to support the filing.

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

A recovery period consists of the months during which the FAR is applied to retail customer billings on a per kilowatt-hour (kWh) basis.

COSTS AND REVENUES: Costs eligible for the Fuel and Purchased Power Adjustment (“FPA”) will be the Company’s allocated jurisdictional costs for the fuel component of the Company’s generating units, purchased power energy charges including applicable Southwest Power Pool (“SPP”) charges, emission allowance costs and amortizations, cost of transmission of electricity by others associated with purchased power and off system sales – all as incurred during the accumulation period. These costs will be offset by jurisdictional off-system sales revenues, applicable SPP revenues, and revenue from the sale of Renewable Energy Certificates or Credits (“REC”). Eligible costs do not include the purchased power demand costs associated with purchased power contracts in excess of one year. Likewise, revenues do not include demand or capacity receipts associated with power contracts in excess of one year.

APPLICABILITY

The price per kWh of electricity sold to retail customers will be adjusted (up or down) periodically subject to application of the Rider FAC and approval by the Missouri Public Service Commission (“MPSC” or “Commission”).

The FAR is the result of dividing the FPA by forecasted Missouri retail net system input (“SRP”) for the recovery period, expanded for Voltage Adjustment Factors (“VAF”), rounded to the nearest \$0.00001, and aggregating over two accumulation periods. The amount charged on a separate line on retail customers’ bills is equal to the current annual FAR multiplied by kWh billed.

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 First Original Sheet No. 50.12
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(Applicable to Service Provided June 8, 2017 and Thereafter)**

FORMULAS AND DEFINITIONS OF COMPONENTS

FPA = 95% * ((ANEC – B) * J) + T + I + P

ANEC = Actual Net Energy Costs = (FC + E + PP + TC – OSSR - R)

FC = Fuel Costs Incurred to Support Sales:
The following costs reflected in FERC Account Number 501:
Subaccount 501000: coal commodity and transportation, side release and freeze conditioning agents, dust mitigation agents, accessorial charges as delineated in railroad accessorial tariffs [additional crew, closing hopper railcar doors, completion of loading of a unit train and its release for movement, completion of unloading of a unit train and its release for movement, delay for removal of frozen coal, destination detention, diversion of empty unit train (including administration fee, holding charges, and out-of-route charges which may include fuel surcharge), diversion of loaded coal trains, diversion of loaded unit train fees (including administration fee, additional mileage fee or out-of-route charges which may include fuel surcharge), fuel surcharge, held in transit, hold charge, locomotive release, miscellaneous handling of coal cars, origin detention, origin re-designation, out-of-route charges (including fuel surcharge), out-of-route movement, pick-up of locomotive power, placement and pick-up of loaded or empty private coal cars on railroad supplied tracks, placement and pick-up of loaded or empty private coal cars on shipper supplied tracks, railcar storage, release of locomotive power, removal, rotation and/or addition of cars, storage charges, switching, trainset positioning, trainset storage, and weighing], unit train maintenance and leases, applicable taxes, natural gas costs, fuel quality adjustments, fuel adjustments included in commodity and transportation costs, broker commissions and fees (fees charged by an agent, or agent's company to facilitate transactions between buyers and sellers), oil costs for commodity, transportation, storage, taxes, fees, and fuel losses, coal and oil inventory adjustments, and insurance recoveries, subrogation recoveries and settlement proceeds for increased fuel expenses in the 501 Accounts.
Subaccount 501020: the allocation of the allowed costs in the 501000, 501300, and 501400 accounts attributed to native load;
Subaccount 501030: the allocation of the allowed costs in the 501000, 501300, and 501400 accounts attributed to off system sales;
Subaccount 501300: fuel additives and consumable costs for Air Quality Control Systems ("AQCS") operations, such as ammonia, hydrated lime, lime, limestone, powder activated carbon, sulfur, and RESPond, or other consumables which perform similar functions;
Subaccount 501400: residual costs and revenues associated with combustion product, slag and ash disposal costs and revenues including contractors, materials and other miscellaneous expenses.

The following costs reflected in FERC Account Number 518:
Subaccount 518000: nuclear fuel commodity and hedging costs;
Subaccount 518201: nuclear fuel waste disposal expense;
Subaccount 518100: nuclear fuel oil.

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 First Original Sheet No. 50.13
Canceling P.S.C. MO. No. _____ Sheet No. _____
For Missouri Retail Service Area

FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
(Applicable to Service Provided June 8, 2017 and Thereafter)

FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

The following costs reflected in FERC Account Number 547:
Subaccount 547000: natural gas and oil costs for commodity, transportation, storage, taxes, fees and fuel losses, and settlement proceeds, insurance recoveries, subrogation recoveries for increased fuel expenses, and broker commissions and fees (fees charged by an agent, or agent's company to facilitate transactions between buyers and sellers);
Subaccount 547020: the allocation of the allowed costs in the 547000 and 547300 accounts attributed to native load;
Subaccount 547030: the allocation of the allowed costs in the 547000 and 547300 accounts attributed to off system sales;
Subaccount 547300: fuel additives.

E = Net Emission Costs:
The following costs and revenues reflected in FERC Account Number 509:
Subaccount 509000: NOx and SO₂ emission allowance costs and revenue amortizations offset by revenues from the sale of NOx and SO₂ emission allowances, and broker commissions and fees (fees charged by an agent, or agent's company to facilitate transactions between buyers and sellers).

PP = Purchased Power Costs:
The following costs or revenues reflected in FERC Account Number 555:
Subaccount 555000: purchased power costs, energy charges from capacity purchases of any duration, insurance recoveries, and subrogation recoveries for purchased power expenses, broker commissions and fees (fees charged by an agent, or agent's company to facilitate transactions between buyers and sellers), charges and credits related to the SPP Integrated Marketplace ("IM") or other IMs including, energy, revenue neutrality, make whole and out of merit payments and distributions, over collected losses payments and distributions, Transmission Congestion Rights ("TCR") and Auction Revenue Rights ("ARR") settlements, virtual energy costs, revenues and related fees where the virtual energy transaction is a hedge in support of physical operations related to a generating resource or load, load/export charges, ancillary services including non-performance and distribution payments and charges and other miscellaneous SPP Integrated Market charges including uplift charges or credits;
Subaccount 555005: capacity charges for capacity purchases one year or less in duration;
Subaccount 555030: the allocation of the allowed costs in the 555000 account attributed to purchases for off system sales.

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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

- TC = Transmission Costs:**
The following costs reflected in FERC Account Number 565:
Subaccount 565000: non-SPP transmission used to serve off system sales or to make purchases for load and 20.91% of the SPP transmission service costs which includes the schedules listed below as well as any adjustment to the charges in the schedules below:
Schedule 7 – Long Term Firm and Short Term Point to Point Transmission Service
Schedule 8 – Non Firm Point to Point Transmission Service
Schedule 9 – Network Integration Transmission Service
Schedule 10 – Wholesale Distribution Service
Schedule 11 – Base Plan Zonal Charge and Region Wide Charge
Subaccount 565020: the allocation of the allowed costs in the 565000 account attributed to native load;
Subaccount 565027: the allocation of the allowed costs in the 565000 account attributed to transmission demand charges;
Subaccount 565030: the allocation of the allowed costs in account 565000 attributed to off system sales.
- OSSR = Revenues from Off-System Sales:**
The following revenues or costs reflected in FERC Account Number 447:
Subaccount 447020: all revenues from off-system sales. This includes charges and credits related to the SPP IM including, energy, ancillary services, revenue sufficiency (such as make whole payments and out of merit payments and distributions), revenue neutrality payments and distributions, over collected losses payments and distributions, TCR and ARR settlements, demand reductions, virtual energy costs and revenues and related fees where the virtual energy transaction is a hedge in support of physical operations related to a generating resource or load, generation/export charges, ancillary services including non-performance and distribution payments and SPP uplift revenues or credits. Off-system sales revenues from full and partial requirements sales to municipalities that are served through bilateral contracts in excess of one year shall be excluded from OSSR component;
Subaccount 447012: capacity charges for capacity sales one year or less in duration;
Subaccount 447030: the allocation of the includable sales in account 447020 not attributed to retail sales.
- R = Renewable Energy Credit Revenue:**
Revenues reflected in FERC account 509000 from the sale of Renewable Energy Credits that are not needed to meet the Renewable Energy Standards.

Any cost identified above which is a Missouri-only cost shall be grossed up by the current kWh energy factor, included in the ANEC calculation and allocated as indicated in component J below. Any cost identified above which is a Kansas-only cost shall be excluded from the ANEC calculation.

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P.S.C. MO. No. 7 First Original Sheet No. 50.15
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**FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

Costs and revenues not specifically detailed in Factors FC, PP, E, TC, OSSR, or R shall not be included in the Company's FAR filings; provided however, in the case of Factors PP, TC or OSSR, the market settlement charge types under which SPP or another centrally administered market (e.g., PJM or MISO) bills/credits a cost or revenue need not be detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; and provided further, should the SPP or another centrally administered market (e.g. PJM or MISO) implement a new market settlement charge type not listed below or a new schedule not listed in TC:

- A. The Company may include the new schedule, charge type cost or revenue in its FAR filings if the Company believes the new schedule, charge type cost or revenue possesses the characteristics of, and is of the nature of, the costs or revenues listed below or in the schedules listed in TC, as the case may be, subject to the requirement that the Company make a filing with the Commission as outlined in B below and also subject to another party's right to challenge the inclusion as outlined in E. below;
- B. The Company will make a filing with the Commission giving the Commission notice of the new schedule or charge type no later than 60 days prior to the Company including the new schedule, charge type cost or revenue in a FAR filing. Such filing shall identify the proposed accounts affected by such change, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP, TC or OSSR as the case may be, and identify the preexisting schedule, or market settlement charge type(s) which the new schedule or charge type replaces or supplements;
- C. The Company will also provide notice in its monthly reports required by the Commission's fuel adjustment clause rules that identifies the new schedule, charge type costs or revenues by amount, description and location within the monthly reports;
- D. The Company shall account for the new schedule, charge type costs or revenues in a manner which allows for the transparent determination of current period and cumulative costs or revenues;
- E. If the Company makes the filing provided for in B above and a party challenges the inclusion, such challenge will not delay approval of the FAR filing. To challenge the inclusion of a new schedule or charge type, a party shall make a filing with the Commission based upon that party's contention that the new schedule, charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the schedules, costs or revenues listed in Factors PP, TC or OSSR, as the case may be. A party wishing to challenge the inclusion of a schedule or charge type shall include in its filing the reasons why it believes the Company did not show that the new schedule or charge type possesses the characteristics of the costs or revenues listed in Factors TC, PP or OSSR, as the case may be, and its filing shall be made within 30 days of the Company's filing under B above. In the event of a timely challenge, the Company shall bear the burden of proof to support its decision to include a new schedule or charge type in a FAR filing. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P; and

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 First Original Sheet No. 50.16
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For Missouri Retail Service Area

**FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
(Applicable to Service Provided June 8, 2017 and Thereafter)**

FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

F. A party other than the Company may seek the inclusion of a new schedule or charge type in a FAR filing by making a filing with the Commission no less than 60 days before the Company's next FAR filing date of August 1 or February 1. Such a filing shall give the Commission notice that such party believes the new schedule or charge type should be included because it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP, TC or OSSR, as the case may be. The party's filing shall identify the proposed accounts affected by such change, provide a description of the new schedule or charge type demonstrating that it possesses the characteristics of, and is of the nature of, the schedules, costs or revenues listed in factors PP, TC or OSSR as the case may be, and identify the preexisting schedule or market settlement charge type(s) which the new schedule or charge type replaces or supplements. If a party makes the filing provided for by this paragraph F and a party (including the Company) challenges the inclusion, such challenge will not delay inclusion of the new schedule or charge type in the FAR filing or delay approval of the FAR filing. To challenge the inclusion of a new schedule or charge type, the challenging party shall make a filing with the Commission based upon that party's contention that the new schedule or charge type costs or revenues at issue should not have been included, because they do not possess the characteristics of the schedules, costs or revenues listed in Factors PP, TC, or OSSR, as the case may be. The challenging party shall make its filing challenging the inclusion and stating the reasons why it believes the new schedule or charge type does not possess the characteristic of the costs or revenues listed in Factors PP, TC or OSSR, as the case may be, within 30 days of the filing that seeks inclusion of the new schedule or charge type. In the event of a timely challenge, the party seeking the inclusion of the new schedule or charge type shall bear the burden of proof to support its contention that the new schedule or charge type should be included in the Company's FAR filings. Should such challenge be upheld by the Commission, any such costs will be refunded (or revenues retained) through a future FAR filing in a manner consistent with that utilized for Factor P.

SPP IM charge/revenue types that are included in the FAC are listed below:

- Day Ahead Regulation Down Service Amount
- Day Ahead Regulation Down Service Distribution Amount
- Day Ahead Regulation Up Service Amount
- Day Ahead Regulation Up Service Distribution Amount
- Day Ahead Spinning Reserve Amount
- Day Ahead Spinning Reserve Distribution Amount
- Day Ahead Supplemental Reserve Amount
- Day Ahead Supplemental Reserve Distribution Amount
- Real Time Contingency Reserve Deployment Failure Amount
- Real Time Contingency Reserve Deployment Failure Distribution Amount
- Real Time Regulation Service Deployment Adjustment Amount
- Real Time Regulation Down Service Amount
- Real Time Regulation Down Service Distribution Amount
- Real Time Regulation Non-Performance
- Real Time Regulation Non-Performance Distribution
- Real Time Regulation Up Service Amount
- Real Time Regulation Up Service Distribution Amount
- Real Time Spinning Reserve Amount

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P.S.C. MO. No. 7 First Original Sheet No. 50.17
Canceling P.S.C. MO. No. _____ Sheet No. _____
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FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
(Applicable to Service Provided June 8, 2017 and Thereafter)

FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

- SPP IM charge/revenue types that are included in the FAC (continued)
- Real Time Spinning Reserve Distribution Amount
- Real Time Supplemental Reserve Amount
- Real Time Supplemental Reserve Distribution Amount
- Day Ahead Asset Energy
- Day Ahead Non-Asset Energy
- Day Ahead Virtual Energy Amount
- Real Time Asset Energy Amount
- Real Time Non-Asset Energy Amount
- Real Time Virtual Energy Amount
- Transmission Congestion Rights Funding Amount
- Transmission Congestion Rights Daily Uplift Amount
- Transmission Congestion Rights Monthly Payback Amount
- Transmission Congestion Rights Annual Payback Amount
- Transmission Congestion Rights Annual Closeout Amount
- Transmission Congestion Rights Auction Transaction Amount
- Auction Revenue Rights Funding Amount
- Auction Revenue Rights Uplift Amount
- Auction Revenue Rights Monthly Payback Amount
- Auction Revenue Annual Payback Amount
- Auction Revenue Rights Annual Closeout Amount
- Day Ahead Virtual Energy Transaction Fee Amount
- Day Ahead Demand Reduction Amount
- Day Ahead Demand Reduction Distribution Amount
- Day Ahead Grandfathered Agreement Carve Out Daily Amount
- Grandfathered Agreement Carve Out Distribution Daily Amount
- Day Ahead Grandfathered Agreement Carve Out Monthly Amount
- Grandfathered Agreement Carve Out Distribution Monthly Amount
- Day Ahead Grandfathered Agreement Carve Out Yearly Amount
- Grandfathered Agreement Carve Out Distribution Yearly Amount
- Day Ahead Make Whole Payment Amount
- Day Ahead Make Whole Payment Distribution Amount
- Miscellaneous Amount
- Reliability Unit Commitment Make Whole Payment Amount
- Real Time Out of Merit Amount
- Reliability Unit Commitment Make Whole Payment Distribution Amount
- Over Collected Losses Distribution Amount
- Real Time Joint Operating Agreement Amount
- Real Time Reserve Sharing Group Amount
- Real Time Reserve Sharing Group Distribution Amount
- Real Time Demand Reduction Amount
- Real Time Demand Reduction Distribution Amount

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 First Original Sheet No. 50.18
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For Missouri Retail Service Area

FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
(Applicable to Service Provided June 8, 2017 and Thereafter)

FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

SPP IM charge/revenue types that are included in the FAC (continued)

- Real Time Pseudo Tie Congestion Amount
- Real Time Pseudo Tie Losses Amount
- Unused Regulation Up Mileage Make Whole Payment Amount
- Unused Regulation Down Mileage Make Whole Payment Amount
- Revenue Neutrality Uplift Distribution Amount

Should FERC require any item covered by components FC, E, PP, TC, OSSR or R to be recorded in an account different than the FERC accounts listed in such components, such items shall nevertheless be included in component FC, E, PP, TC, OSSR or R. 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 the Rider FAC to be recorded in the account.

B = Net base energy costs ordered by the Commission in the last general rate case consistent with the costs and revenues included in the calculation of the FPA. Net Base Energy costs will be calculated as shown below:

$$S_{AP} \times \text{Base Factor ("BF")}$$

S_{AP} = Net system input ("NSI") in kWh for the accumulation period

BF = Company base factor costs per kWh: \$0.01542

J = Missouri Retail Energy Ratio = (MO Retail kWh sales + MO Losses) / (MO Retail kWh Sales + MO Losses + KS Retail kWh Sales + KS Losses + Sales for Resale, Municipals kWh Sales [includes border customers] + Sales for Resale, Municipals Losses)
MO Losses = 6.32%; KS Losses = 7.52%; Sales for Resale, Municipals Losses = 6.84%

T = True-up amount as defined below.

I = Interest applicable to (i) the difference between Missouri Retail ANEC and B for all kWh of energy supplied during an AP until those costs have been recovered; (ii) refunds due to prudence reviews ("P"), if any; and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings ("T") provided for herein. Interest shall be calculated monthly at a rate equal to the weighted average interest 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 in this tariff.

KANSAS CITY POWER AND LIGHT COMPANY

P.S.C. MO. No. 7 First Original Sheet No. 50.19
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FUEL ADJUSTMENT CLAUSE – Rider FAC
FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
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FORMULAS AND DEFINITIONS OF COMPONENTS (continued)

FAR = FPA/S_{RP}

Single Accumulation Period Transmission/Substation Voltage FAR_{Trans/Sub} = FAR * VAF_{Trans/Sub}

Single Accumulation Period Primary Voltage FAR_{Prim} = FAR * VAF_{Prim}

Single Accumulation Period Secondary Voltage FAR_{Sec} = FAR * VAF_{Sec}

Annual Primary Voltage FAR_{Trans/Sub} = Aggregation of the two Single Accumulation Period

Transmission/Substation Voltage FARs still to be recovered

Annual Primary Voltage FAR_{Prim} = Aggregation of the two Single Accumulation Period Primary Voltage FARs still to be recovered

Annual Secondary Voltage FAR_{Sec} = Aggregation of the two Single Accumulation Period Secondary Voltage FARs still to be recovered

Where:

FPA = Fuel and Purchased Power Adjustment

S_{RP} = Forecasted recovery period Missouri retail NSI in kWh, at the generation level

VAF = Expansion factor by voltage level

VAF_{Trans/Sub} = Expansion factor for transmission/substation and higher voltage level customers

VAF_{Prim} = Expansion factor for between primary and trans/sub voltage level customers

VAF_{Sec} = Expansion factor for lower than primary voltage customers

TRUE-UPS

After completion of each RP, the Company shall make a true-up filing by the filing date of its next FAR filing. Any true-up adjustments shall be reflected in component "T" above. Interest on the true-up adjustment will be included in component "I" above.

The true-up amount shall be the difference between the revenues billed and the revenues authorized for collection during the RP as well as any corrections identified to be included in the current FAR filing. Any corrections included will be discussed in the testimony accompanying the true-up filing.

PRUDENCE REVIEWS

Prudence reviews of the costs subject to this Rider 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 FAC shall be returned to customers. Adjustments by Commission order, if any, pursuant to any prudence review shall be included in the FAR calculation in component "P" above unless a separate refund is ordered by the Commission. Interest on the prudence adjustment will be included in component "I" above.

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P.S.C. MO. No. 7 First Original Sheet No. 50.20
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FUEL ADJUSTMENT CLAUSE – Rider FAC
 FUEL AND PURCHASE POWER ADJUSTMENT ELECTRIC
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Accumulation Period Ending:			KCPL-MO
1	Actual Net Energy Cost (ANEC) = (FC+E+PP+TC-OSSR-R)		\$0
2	Net Base Energy Cost (B)	-	\$0
	2.1 Base Factor (BF)		\$0.00000
	2.2 Accumulation Period NSI (S _{AP})		0
3	(ANEC-B)		\$0
4	Jurisdictional Factor (J)	*	0%
5	(ANEC-B)*J		\$0
6	Customer Responsibility	*	95%
7	95% *((ANEC-B)*J)		\$0
8	True-Up Amount (T)	+	\$0
9	Interest (I)	+	\$0
10	Prudence Adjustment Amount (P)	+	\$0
11	Fuel and Purchased Power Adjustment (FPA)	=	\$0
12	Estimated Recovery Period Retail NSI (S _{RP})	÷	0
13	Current Period Fuel Adjustment Rate (FAR)	=	\$0.00000
14			
15	Current Period FAR _{Trans/Sub} = FAR x VAF _{Trans/Sub}		\$0.00000
16	Prior Period FAR _{Trans/Sub}	+	\$0.00000
17	Current Annual FAR _{Trans/Sub}	=	\$0.00000
18			
19	Current Period FAR _{Prim} = FAR x VAF _{Prim}		\$0.00000
20	Prior Period FAR _{Prim}	+	\$0.00000
21	Current Annual FAR _{Prim}	=	\$0.00000
22			
23	Current Period FAR _{Sec} = FAR x VAF _{Sec}		\$0.00000
24	Prior Period FAR _{Sec}	+	\$0.00000
25	Current Annual FAR _{Sec}	=	\$0.00000
26			
27	VAF _{Trans/Sub} = 1.0195		
28	VAF _{Prim} = 1.0451		
29	VAF _{Sec} = 1.0707		