THE EMPIRE D	DISTRICT ELECTRIC COMPANY d.b.a.	LIBERTY		
P.S.C. Mo. No.	6 Sec.	4	Original Sheet No. 17i	
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For ALL TER	RRITORY			
		SE POWER ADJUSTMENT	CLAUSE	
		RIDER FAC I after September 16, 2020 X		
	1 of convice on and	Tultor Coptombol To, 2020		
The two six-m following table		o six-month recovery per	riods and filing dates are set forth in the	
	Accumulation Periods	Filing Dates	Recovery Periods	
	September–February	By April 1	June–November	
	March–August	By October 1	December-May	
			ng Date. The new FAR rates for which a	
			s following the Filing Date. All FAR filings orting the filing in an electronic format with	
all formulas int				
	by the Company, and with notice		Company's last general rate case, the r good cause shown.	
DEFINITIONS	1			
ACCUMULAT	· ION PERIOD:			
The six ca		ual costs and revenues s	ubject to this rider will be accumulated for	
RECOVERY F				
The billing	months during which a FAR is app	lied to retail customer usa	age on a per kilowatt-hour ("kWh") basis.	
BASE ENERG				
	rgy cost is ordered by the Commis n the calculation of the Fuel and Pur		consistent with the costs and revenues ("FPA").	
BASE FACTO	PR ("BF"):			
The base t	factor is the base energy cost divide		determined by the Commission in the last	
generai ra	te case. BF = \$0. 02338 - <u>01013</u> per	kvvn for each accumulati	оп регюа.	
	U SALES ADJ FOR LOSSES: eak sales from TOU customers multi	nlied by the NSI divided b	ov Total System kWh sales	Formatted: No underline
		plied by the Nor divided t	Total Oystem KWII Sales	Formatted: No underline
	OU SALES ADJ FOR LOSSES: eak sales from TOU customers multi	plied by the NSI divided by	by Total System kWh sales	Formatted: No underline
On-Peak FAC	FAC BF in the current TOU Tar	<u>iff</u>		
Off-Peak FA	C BF			
DATE OF ISSU		DATE EFFECTIVE	September 16, 2020	
ISSUED BY She	eri Richard, Director Rates and Regulat	ory Attairs, Joplin, MO		

THE EMPIRE DISTRICT E	ELECTRIC COMPA	NY d.b.a.	LIBERTY				
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17i		
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No		
For ALL TERRITORY	-						
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after September 16, 2020 <u>XX-XX-XX</u>							

Off-Peak FAC BF in the current TOU Tariff

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO September 16, 2020

THE EMPIRE DISTRICT E	LECTRIC COMP	PANY d.b.a	. LIBERTY				
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17j		
Canceling P.S.C. Mo. No. For ALL TERRITORY		Sec.			Original Sheet No		
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after September 16, 2020 XX-XX-XX							

APPLICATION

FUEL & PURCHASE POWER ADJUSTMENT

Where:

FC = Fuel Costs Incurred to Support Sales:

The following costs reflected in Federal Energy Regulatory Commission ("FERC") Accounts 501 and 506: coal commodity and railroad transportation, switching and demurrage charges, applicable taxes, natural gas costs, alternative fuels (i.e. tires, and bio-fuel), fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments assessed by coal suppliers, fuel hedging costs, fuel adjustments included in commodity and transportation costs, broker commissions and fees associated with price hedges, oil costs, combustion product disposal revenues and expenses, consumable costs related to Air Quality Control Systems ("AQCS") operation, such as ammonia, lime, limestone, and powdered activated carbon, and settlement proceeds, insurance recoveries, subrogation recoveries for increased fuel expenses in Account 501.

The following costs reflected in FERC Accounts 547 and 548: natural gas generation costs related to commodity, oil, transportation, fuel losses, hedging costs for natural gas and oil, fuel additives, and settlement proceeds, insurance recoveries, subrogation recoveries for increased fuel expenses, broker commissions and fees.

PP = Purchased Power Costs:

1. Costs and revenues for purchased power reflected in FERC Account 555, excluding including all charges under Southwest Power Pool ("SPP") Schedules 1a and 12. Such costs include:

THE EMPIRE DISTRICT E	ELECTRIC COMP	PANY					
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17k		
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No		
For ALL TERRITORY	-						
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after September 16, 2020 <u>XX-XX-XX</u>							

- A. SPP costs or revenues for SPP's energy and operating market settlement charge types and market settlement clearing costs or revenues including:

 - i. Energy;ii. Ancillary Services;
 - a. Regulating Reserve Service
 - b. Energy Imbalance Service
 - c. Spinning Reserve Service
 - d. Supplemental Reserve Service
 - iii. Revenue Sufficiency;
 - iv. Revenue Neutrality;
 - v. Demand Reduction;

 - v. Demand Reduction, vi. Grandfathered Agreements; vii. Virtual Energy including Transaction Fees; viii. Pseudo-tie; and

 - ix. Miscellaneous;
- B. Non-SPP costs or revenue as follows:
 - i. If received from a centrally administered market (e.g. PJM / MISO), costs or revenues of an equivalent nature to those identified for the SPP costs or revenues specified in sub part A of part 1 above;
 - ii. If not received from a centrally administered market:
 - a. Costs for purchases of energy; and
 - b. Costs for purchases of generation capacity, provided such capacity is acquired for a term of one (1) year or less; and
- C. Settlements, insurance recoveries, and subrogation recoveries for purchased power expenses.
- 2. Costs of purchased power will be reduced by expected replacement power insurance recoveries qualifying as assets under Generally Accepted Accounting Principles.
- 3. Transmission service costs reflected in FERC Account 565:

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY								
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17I			
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No			
For ALL TERRITORY								
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after September 16, 2020 XX-XX-XX								

- A. Thirty-fourOne hundred percent (34100%) of SPP costs associated with Network Transmission Service:
 - SPP Schedule 2 Reactive Supply and Voltage Control from Generation or Other Sources Service;
 - ii. SPP Schedule 3 Regulation and Frequency Response Service; and
 - iii. SPP Schedule 11 Base Plan Zonal Charge and Region-wide Charge.
- B. <u>Fifty One hundred</u> percent (50100%) of Mid-Continent Independent System Operator ("MISO") costs associated with:
 - i. Network transmission service;
 - ii. Point-to-point transmission service;
 - iii System control and dispatch: and
 - iv. Reactive supply and voltage control.
- C. One hundred percent (100%) of the SPP revenue associated with:
 - Point to point transmission service;
 - i. Schedule 11 transmission service; and
 - iii. Schedule 1 transmission service (relative to native load),
- 4. Costs and revenues not specifically detailed in Factors FC, PP, E, or OSSR shall not be included in the Company's FAR filings; provided however, in the case of Factors PP or OSSR the market settlement charge types under which SPP or another market participant bills / credits a cost or revenue need not be detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; and provided further, should the SPP or another market participant implement a new charge type, exclusive of changes in transmission revenue. The list of sub-accounts included will be provided in the FAC Monthly Reports.
 - A. The Company may include the new charge type cost or revenue in its FAR filings if the Company believes the new charge type cost or revenue possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be, subject to the requirement that the Company make a filing with the Commission as outlined in B below and also subject to another party's right to challenge the inclusion as outlined in E. below:
 - B. The Company will make a filing with the Commission giving the Commission notice of the new charge type no later than 60 days prior to the Company including the new charge type cost or revenue in a FAR filing. Such filing shall identify the proposed accounts affected by such new charge type cost or revenue, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements;
 - C. The Company will also provide notice in its monthly reports required by the Commission's fuel adjustment clause rules that identifies the new charge type costs or revenues by amount, description and location within the monthly reports;

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Commented [AD1]: @Diana Carter I suppose we need some language about a waiver here so we can avoid the situation we had from this year. I think Jeff said something like that exists in Evergy or UE tariff

Commented [DC2R1]: @Aaron Doll, added a sentence. Will need to be reworked during the case, but it should get us started.

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY								
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17I			
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No			
For ALL TERRITORY	-							
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after September 16, 2020 XX-XX-XX								

The Company shall account for the new charge type costs or revenues in a manner which allows for the transparent determination of current period and cumulative costs or revenues;

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO September 16, 2020

THE EMPIRE DISTRICT E	ELECTRIC COMP.	ANY d.b.a.	LIBERTY				
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17m		
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No		
For ALL TERRITORY	_						
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC							
For service on and after September 16, 2020 <u>XX-XX-XX</u>							

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

DATE OF ISSUE DATE OF ISSUE August 17, 2020 DATE EFFEC ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO DATE EFFECTIVE September 16, 2020

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY								
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17n			
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No			
For ALL TERRITORY	-							
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after September 16, 2020XX-XX-XX								

Net Emission Costs: The following costs and revenues reflected in FERC Accounts 509 and 411 (or any other account FERC may designate for emissions expense in the future): emission allowance costs offset by revenues from the sale of emission allowances including any associated hedging.

Revenue from Off-System Sales (Excluding revenue from full and partial requirements sales to municipalities with the exception of the revenue received net of cost from the sale of energy to the Southwest Missouri Power Electric Pool for service from June 1, 2020 - May 31, 2025 and including the net wind revenues from North Fork Ridge, Neosho Ridge, and Kings Point):

The following revenues or costs reflected in FERC Account 447: all revenues from off-system sales and SPP energy and operating market including (see Note A. below):

- Capacity Charges associated with Contracts shorter than 1 year;
- Ancillary Services including;
 - a. Regulating Reserve Service
 - b. Energy Imbalance Service
 - c. Spinning Reserve Service
 - d. Supplemental Reserve Service
 - Revenue Sufficiency;
- Losses:
- Revenue Neutrality: vi
- vii Demand Reduction;
- Grandfathered Agreements;
- ix. Pseudo-tie;
- Miscellaneous; and
- Hedging.

Renewable Energy Credit Revenue reflected in FERC Account 456 from the sale of Renewable Energy Credits that are not needed to meet the Renewable Energy Standard.

HEDGING COSTS:

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

Should FERC require any item covered by factors FC, PP, E, REC or OSSR to be recorded in an account different than the FERC accounts listed in such factors, such items shall nevertheless be included in factor FC, PP, E, REC or OSSR. In the month that the Company begins to record items in a different account, the Company will file with the Commission the previous account 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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For <u>ALL TERRITORY</u>	-							
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after September 16, 2020XX-XX-XX								
With respect to the Co	ompany's North I	Fork Rida	e Neosho Rid	ne and Kings Po	pint wind projects, costs associated			

With respect to the Company's North Fork Ridge, Neosho Ridge, and Kings Point wind projects, costs associated with the wind projects and revenue generated from the wind projects shall not be passed through to customers via the Fuel Adjustment Clause before the wind projects' revenue requirements are included in rates.

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO September 16, 2020

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For ALL TERRITORY		
	/ER ADJUSTMENT CLAUSE :R FAC	
	sptember 16, 2020 <u>XX-XX-XX</u>	
<u>UB</u> = <u>Unadjusted Net net</u> base energy cost is	calculated as follows:	
$\underline{U}B = (S_AP * \$0.9233891013)$		
Adj for losses * Off-Peak F	or losses * On-Peak FAC BF + Off-Peak TOU Sales FAC BF) + [(S _{AP} - On-Peak TOU Sales Adj for les adj for losses)*BF] – UB	Formatted: Indent: Left: 0.5", Hanging: 1.19", Tab stops 1.69", Left
B = UB + TOU NBEC Adj		
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S _{AP} = Actual net system input at the generation	n level for the accumulation period.	
J = <u>Missouri retail kWh sales</u> Total system kWh sales		
Where Total system kWh sales includes and excludes off-system sales.	s sales to municipalities that are associated with Empire	Formatted: Font: (Default) Arial
deferred energy cost balancing accoun	balance from prior recovery period as included in the it. Adjustments by Commission order pursuant to any the FPA for collection unless a separate refund is ordered	
and Net base energy costs ("B") multiplie supplied during an AP until those costs ("P"), if any; and (iii) all under- or over-re as determined in the true-up filings ("T")	etween Total energy cost (FC + PP + E - OSSR - REC) ed by the Missouri energy ratio ("J") for all kWh of energy have been billed; (ii) refunds due to prudence reviews ecovery balances created through operation of this FAC, provided for herein. Interest shall be calculated monthly interest paid on the Company's short-term debt, applied ough (iii) in the preceding sentence.	
P = Prudence disallowance amount, if any, a	as defined below.	
FUEL ADJUSTMENT RATE		
\$0.00000. The FAR shall be adjusted to reflect the d voltage by multiplying the average cost at the genera	mated recovery period S_{RP} kWh, rounded to the nearest ifferences in line losses that occur at primary and secondary tor by 1.0429 and 1.0625, respectively. Any FAR authorized comers' energy usage on and after the authorized effective ed below	
FAR = <u>F</u>	PA Srp	
	N.V.	
DATE OF ISSUE August 17, 2020 ISSUED BY Sheri Richard, Director Rates and Regulatory Affai	DATE EFFECTIVE September 16, 2020 rs, Joplin, MO	

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY								
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17p			
Canceling P.S.C. Mo. No. For ALL TERRITORY		Sec.			Original Sheet No			
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after September 16, 2020 XX-XX-XX								

Where:

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

= Forecasted total system NSI * Forecasted Missouri retail kWh sales Forecasted total system kWh sales

Where Forecasted total system NSI kWh sales includes sales to municipalities that are associated with Empire and excludes off-system sales.

GENERAL RATE CASE/PRUDENCE REVIEW

The following shall apply to this FAC, in accordance with Section 386.266.5, 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.

TRUE-UP OF FPA

In conjunction with an adjustment to its FAR, the Company will make a true-up filing with an adjustment to its FAC on the first Filing Date that occurs after completion of each Recovery Period. The true-up adjustment shall be the difference between the FPA revenues billed and the FPA revenues authorized for collection during the true-up recovery period, i.e. the true-up adjustment. Any true-up adjustments or refunds shall be reflected in item T above and shall include interest calculated as provided for in item I above.

DATE OF ISSUE DATE OF ISSUE August 17, 2020 DATE EFFEC ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO DATE EFFECTIVE September 16, 2020

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY								
P.S.C. Mo. No6	Sec.	4	1st	Original Sheet No. 17q				
Canceling P.S.C. Mo. No6	Sec.	4		Original Sheet No. 17q				
For <u>ALL TERRITORY</u>								
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after December 1, 2020XX-XX-XX-								

	Accumulation Period Ending		August 31, 2020
1	Total Energy Cost (TEC) = (FC + PP + E – OSSR - REC)		56,521,028
2	Net Base Energy Cost (B) = (UB + TOU NBEC Adj)	-	60,082,592
	2.1 Base Factor (BF)		0.02415
	2.2 Unadjusted Net Based Energy Cost (UB)		
	2.3 Time-of-use Net Base Energy Cost Adjustment (TOU NBEC Adj)		
	2.42 Accumulation Period NSI (SAP)		2,487,892,000
3	(TEC-B)		(3,561,564)
4	Missouri Energy Ratio (J)	*	85.52 ¹
5	(TEC - B) * J		(2,860,278) ²
6	Fuel Cost Recovery	*	95.00%
7	(TEC - B) * J * 0.95		(2,575,706)
8	True-Up Amount (T)	+	(1,423,471)
9	Prudence Adjustment Amount (P)	+	
10	Interest (I)	+	(17,232)
11	Fuel and Purchased Power Adjustment (FPA)	=	(4,016,409)
12	Forecasted Missouri NSI (SRP)	÷	2,257,566,452
13	Current Period Fuel Adjustment Rate (FAR)	=	(.00178)
14	Current Period FARPRIM = FAR x VAFPRIM		(.00186)
15	Current Period FAR _{SEC} = FAR x VAF _{SEC}		(.00190)
16	VAF _{PRIM} = 1.0464		1.0464
17	VAF _{SEC} = 1.0657		1.0657

¹The Missouri Energy Ratio (J), on line 4, is calculated by dividing the Missouri retail kWh sales by the Total system kWh sales for the current accumulation period as specified by the tariff.

DATE OF ISSUE October 1, 2020 DATE EFFECTIVE December 1, 2020

ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO

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²The (TEC-B)*J, on line 5, is calculated by taking the sum of (TEC-B)*J for each month of the accumulation period. Therefore, because each month is weighted differently, the amount on line 5 will not necessarily equal the product of lines three and four.

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY											
P.S.C. Mo. No	6	Sec.	4	1st	Original Sheet No	17q					
Canceling P.S.C. Mo. No	Canceling P.S.C. Mo. No6 Sec4 Original Sheet No17q										
For ALL TERRITORY	For ALL TERRITORY_										
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE											
RIDER FAC											
For service on and after December 1, 2020XX-XX-XX-											

DATE OF ISSUE____October 1, 2020 DATE EFFECTIVE___ ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO December 1, 2020

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	FUEL	& PURCHAS	SE POWER AD	JUSTMENT C	LAUSE			
		For servi	ce on and afte					
The two six-mon following table:	th accumulation peri	ods, the two	six-month r	ecovery perio	ds and filing dates are set forth i	in the		
	Accumulation Period	<u>ods</u>	Filing D	<u>ates</u>	Recovery Periods			
	September–Februa March–August	ry	By Apr By Oct		June–November December–May			
The Company will make a Fuel Adjustment Rate ("FAR") filing by each Filing Date. The new FAR rates for which a filing is made will be applicable starting with the Recovery Period that begins following the Filing Date. All FAR filings shall be accompanied by detailed workpapers with subaccount detail supporting the filing in an electronic format with all formulas intact. Upon request by the Company, and with notice to all parties from the Company's last general rate case, the								
	grant a variance from					,		
<u>DEFINITIONS</u>								
			ıal costs and	revenues sub	eject to this rider will be accumulate	ed for		
RECOVERY PER The billing me		FAR is appli	ied to retail c	ustomer usag	e on a per kilowatt-hour ("kWh") b	asis.		
					consistent with the costs and rever "FPA").	enues		
BASE FACTOR ("BF"): The base factor is the base energy cost divided by net generation kWh determined by the Commission in the last general rate case. BF = \$0.01013 per kWh for each accumulation period.								
ON-PEAK TOU SALES ADJ FOR LOSSES:The on-peak sales from TOU customers multiplied by the NSI divided by Total System kWh sales								
	SALES ADJ FOR LC sales from TOU cust		olied by the N	ISI divided by	Total System kWh sales			
On-Peak FAC F On-Peak FA	BF AC BF in the curren	t TOU Tari	ff					
Off-Peak FAC BF								

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY										
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Canceling P.S.C. Mo. No.		Sec.			Original Sheet No					
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FUEL & PURCHASE POWER ADJUSTMENT CLAUSE										
RIDER FAC										
For service on and after XX-XX										

Off-Peak FAC BF in the current TOU Tariff

DATE OF ISSUE <u>August 17, 2020</u> DATE EFFECT ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO DATE EFFECTIVE_ September 16, 2020

THE EMPIRE DISTRICT ELECTRIC COMPANY d.D.a. LIBERTY									
P.S.C. Mo. No.	_	6	Sec.	4		Original Sheet No. 17j			
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FUEL & PURCHASE POWER ADJUSTMENT CLAUSE									
RIDER FAC									
For service on and after XX-XX-XX									

APPLICATION

FUEL & PURCHASE POWER ADJUSTMENT

 $FPA = \{[(FC + PP + E - OSSR - REC - B) * J] * 0.95\} + T + I + P$

Where:

FC = Fuel Costs Incurred to Support Sales:

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The following costs reflected in Federal Energy Regulatory Commission ("FERC") Accounts 501 and 506: coal commodity and railroad transportation, switching and demurrage charges, applicable taxes, natural gas costs, alternative fuels (i.e. tires, and bio-fuel), fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments assessed by coal suppliers, fuel hedging costs, fuel adjustments included in commodity and transportation costs, broker commissions and fees associated with price hedges, oil costs, combustion product disposal revenues and expenses, consumable costs related to Air Quality Control Systems ("AQCS") operation, such as ammonia, lime, limestone, and powdered activated carbon, and settlement proceeds, insurance recoveries, subrogation recoveries for increased fuel expenses in Account 501.

The following costs reflected in FERC Accounts 547 and 548: natural gas generation costs related to commodity, oil, transportation, fuel losses, hedging costs for natural gas and oil, fuel additives, and settlement proceeds, insurance recoveries, subrogation recoveries for increased fuel expenses, broker commissions and fees.

PP = Purchased Power Costs:

1. Costs and revenues for purchased power reflected in FERC Account 555, including all charges under Southwest Power Pool ("SPP") Schedules 1a and 12. Such costs include:

DATE OF ISSUE August 17,2020 DATE EFFECTIVE September 16, 2020

THE EMPIRE DISTRICT ELECTRIC COMPANY									
P.S.C. Mo. No	6	Sec	4		Original Sheet No. 17k				
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FUEL & PURCHASE POWER ADJUSTMENT CLAUSE									
RIDER FAC									
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- A. SPP costs or revenues for SPP's energy and operating market settlement charge types and market settlement clearing costs or revenues including:
 - i. Energy;

THE EMPIRE DISTRICT ELECTRIC COMPANY

- ii. Ancillary Services;
 - a. Regulating Reserve Service
 - b. Energy Imbalance Service
 - c. Spinning Reserve Service
 - d. Supplemental Reserve Service
- iii. Revenue Sufficiency;
- iv. Revenue Neutrality;
- v. Demand Reduction;
- vi. Grandfathered Agreements;
- vii. Virtual Energy including Transaction Fees;
- viii. Pseudo-tie; and
- ix. Miscellaneous;
- B. Non-SPP costs or revenue as follows:
 - If received from a centrally administered market (e.g. PJM / MISO), costs or revenues
 of an equivalent nature to those identified for the SPP costs or revenues specified in
 sub part A of part 1 above;
 - ii. If not received from a centrally administered market:
 - a. Costs for purchases of energy; and
 - b. Costs for purchases of generation capacity, provided such capacity is acquired for a term of one (1) year or less; and
- C. Settlements, insurance recoveries, and subrogation recoveries for purchased power expenses.
- 2. Costs of purchased power will be reduced by expected replacement power insurance recoveries qualifying as assets under Generally Accepted Accounting Principles.
- 3. Transmission service costs reflected in FERC Account 565:

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P.S.C. Mo. No	6	Sec.	4		Original Sheet No	171			
Canceling P.S.C. Mo. No		Sec.			Original Sheet No				
For ALL TERRITORY									
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE									
RIDER FAC									
For service on and after XX-XX									

- A. One hundred percent (100%) of SPP costs associated with Network Transmission Service:
 - SPP Schedule 2 Reactive Supply and Voltage Control from Generation or Other Sources Service;
 - ii. SPP Schedule 3 Regulation and Frequency Response Service; and
 - iii. SPP Schedule 11 Base Plan Zonal Charge and Region-wide Charge.
- B. One hundred percent (100%) of Mid-Continent Independent System Operator ("MISO") costs associated with:
 - i. Network transmission service;

THE EMPIRE DISTRICT ELECTRIC COMPANY 4 h a LIBERTY

- ii. Point-to-point transmission service;
- iii. System control and dispatch; and
- iv. Reactive supply and voltage control.
- C. One hundred percent (100%) of the SPP revenue associated with:
 - i. Point to point transmission service;
 - ii. Schedule 11 transmission service; and
 - iii. Schedule 1 transmission service (relative to native load).
- 4. Costs and revenues not specifically detailed in Factors FC, PP, E, or OSSR shall not be included in the Company's FAR filings; provided however, in the case of Factors PP or OSSR the market settlement charge types under which SPP or another market participant bills / credits a cost or revenue need not be detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; and provided further, should the SPP or another market participant implement a new charge type, exclusive of changes in transmission revenue. The list of sub-accounts included will be provided in the FAC Monthly Reports.
 - A. The Company may include the new charge type cost or revenue in its FAR filings if the Company believes the new charge type cost or revenue possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR, as the case may be, subject to the requirement that the Company make a filing with the Commission as outlined in B below and also subject to another party's right to challenge the inclusion as outlined in E. below;
 - B. The Company will make a filing with the Commission giving the Commission notice of the new charge type no later than 60 days prior to the Company including the new charge type cost or revenue in a FAR filing. Such filing shall identify the proposed accounts affected by such new charge type cost or revenue, provide a description of the new charge type demonstrating that it possesses the characteristics of, and is of the nature of, the costs or revenues listed in factors PP or OSSR as the case may be, and identify the preexisting market settlement charge type(s) which the new charge type replaces or supplements:
 - C. The Company will also provide notice in its monthly reports required by the Commission's fuel adjustment clause rules that identifies the new charge type costs or revenues by amount, description and location within the monthly reports;
 - D. The Company shall account for the new charge type costs or revenues in a manner which

DATE OF ISSUE	August 17, 2020	DATE EFFECTIVE_	September 16, 2020	
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THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY									
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17I				
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No				
For ALL TERRITORY									
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after XX-XX-XX									
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allows for the transparent determination of current period and cumulative costs or revenues;

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THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY									
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17m				
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No				
For ALL TERRITORY									
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC									

For service on and after XX-XX-XX

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

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE September 16, 2020

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY										
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17n					
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No					
For ALL TERRITORY	For ALL TERRITORY									
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after XX-XX-XX										

- E = Net Emission Costs: The following costs and revenues reflected in FERC Accounts 509 and 411 (or any other account FERC may designate for emissions expense in the future): emission allowance costs offset by revenues from the sale of emission allowances including any associated hedging.
- OSSR = Revenue from Off-System Sales (Excluding revenue from full and partial requirements sales to municipalities with the exception of the revenue received net of cost from the sale of energy to the Southwest Missouri Power Electric Pool for service from June 1, 2020 May 31, 2025 and including the net wind revenues from North Fork Ridge, Neosho Ridge, and Kings Point):

The following revenues or costs reflected in FERC Account 447: all revenues from off-system sales and SPP energy and operating market including (see Note A. below):

- i. Energy;
- ii. Capacity Charges associated with Contracts shorter than 1 year;
- iii. Ancillary Services including;
 - a. Regulating Reserve Service
 - b. Energy Imbalance Service
 - c. Spinning Reserve Service
 - d. Supplemental Reserve Service
- iv. Revenue Sufficiency;
- v. Losses:
- vi. Revenue Neutrality;
- vii. Demand Reduction;
- viii. Grandfathered Agreements;
- ix. Pseudo-tie;
- x. Miscellaneous; and
- xi. Hedging.

REC = Renewable Energy Credit Revenue reflected in FERC Account 456 from the sale of Renewable Energy Credits that are not needed to meet the Renewable Energy Standard.

HEDGING COSTS:

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

Should FERC require any item covered by factors FC, PP, E, REC or OSSR to be recorded in an account different than the FERC accounts listed in such factors, such items shall nevertheless be included in factor FC, PP, E, REC or OSSR. In the month that the Company begins to record items in a different account, the Company will file with the Commission the previous account number, the new account number and what costs or revenues that flow through this Rider FAC are to be recorded in the account.

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE September 16, 2020

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY								
P.S.C. Mo. No. <u>6</u>	Sec.	4		Original Sheet No. 170				
Canceling P.S.C. Mo. No.	Sec.			Original Sheet No				
For ALL TERRITORY								
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC								
	For service on and after XX-XX-XX							

UB = Unadjusted net base energy cost is calculated as follows:

 $UB = (S_{AP} * \$0.01013)$

TOU NBEC Adj = (On-Peak TOU Sales Adj for losses * On-Peak FAC BF + Off-Peak TOU Sales Adj for losses * Off-Peak FAC BF) + [(SAP - On-Peak TOU Sales Adj for losses - Off-Peak TOU Sales adj for losses)*BF] - UB

B = UB + TOU NBEC Adj

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

J = Missouri retail kWh sales
Total system kWh sales

Where Total system kWh sales includes sales to municipalities that are associated with Empire and excludes off-system sales.

- T = True-up of over/under recovery of FAC balance from prior recovery period as included in the deferred energy cost balancing account. Adjustments by Commission order pursuant to any prudence review shall also be placed in the FPA for collection unless a separate refund is ordered by the Commission.
- I = Interest applicable to (i) the difference between Total energy cost (FC + PP + E OSSR REC) and Net base energy costs ("B") multiplied by the Missouri energy ratio ("J") for all kWh of energy supplied during an AP until those costs have been billed; (ii) refunds due to prudence reviews ("P"), if any; and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings ("T") provided for herein. Interest shall be calculated monthly at a rate equal to the weighted average interest paid on the Company's short-term debt, applied to the month-end balance of items (i) through (iii) in the preceding sentence.
- P = Prudence disallowance amount, if any, as defined below.

FUEL ADJUSTMENT RATE

The FAR is the result of dividing the FPA by estimated recovery period S_{RP} kWh, rounded to the nearest \$0.00000. The FAR shall be adjusted to reflect the differences in line losses that occur at primary and secondary voltage by multiplying the average cost at the generator by 1.0429 and 1.0625, respectively. Any FAR authorized by the Commission shall be billed based upon customers' energy usage on and after the authorized effective date of the FAR. The formula for the FPA is displayed below

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

DATE OF ISSUE	Aug	gust 17, 20	020	DATE EFFECTIVE	E September 16	, 2020

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY							
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17p		
Canceling P.S.C. Mo. No.		Sec.			Original Sheet No		
For ALL TERRITORY	<u></u>						
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC For service on and after XX-XX-XX							

Where:

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

= Forecasted total system NSI * Forecasted Missouri retail kWh sales
Forecasted total system kWh sales

Where Forecasted total system NSI kWh sales includes sales to municipalities that are associated with Empire and excludes off-system sales.

GENERAL RATE CASE/PRUDENCE REVIEW

The following shall apply to this FAC, in accordance with Section 386.266.5, 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.

TRUE-UP OF FPA

In conjunction with an adjustment to its FAR, the Company will make a true-up filing with an adjustment to its FAC on the first Filing Date that occurs after completion of each Recovery Period. The true-up adjustment shall be the difference between the FPA revenues billed and the FPA revenues authorized for collection during the true-up recovery period, i.e. the true-up adjustment. Any true-up adjustments or refunds shall be reflected in item T above and shall include interest calculated as provided for in item I above.

DATE OF ISSUE August 17, 2020 DATE EFFECTIVE September 16, 2020

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY P.S.C. Mo. No. 6 Sec. 4 1st Original Sheet No. 17q Canceling P.S.C. Mo. No. 6 Sec. 4 Original Sheet No. 17q For ALL TERRITORY FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC

For service on and after XX-XX-XX-

Accumulation Period Ending		
Total Energy Cost (TEC) = (FC + PP + E – OSSR - REC)		
Net Base Energy Cost (B) = (UB + TOU NBEC Adj)	-	
2.1 Base Factor (BF)		
2.2 Unadjusted Net Based Energy Cost (UB)		
2.3 Time-of-use Net Base Energy Cost Adjustment (TOU NBEC Adj)		
2.4 Accumulation Period NSI (SAP)		
(TEC-B)		
Missouri Energy Ratio (J)	*	
(TEC - B) * J		
Fuel Cost Recovery	*	
(TEC - B) * J * 0.95		
True-Up Amount (T)	+	
Prudence Adjustment Amount (P)	+	
Interest (I)	+	
Fuel and Purchased Power Adjustment (FPA)	=	
Forecasted Missouri NSI (SRP)	÷	
Current Period Fuel Adjustment Rate (FAR)	=	
Current Period FAR _{PRIM} = FAR x VAF _{PRIM}		
Current Period FAR _{SEC} = FAR x VAF _{SEC}		
VAF _{PRIM} = 1.0464		
VAF _{SEC} = 1.0657		
	Total Energy Cost (TEC) = (FC + PP + E - OSSR - REC) Net Base Energy Cost (B) = (UB + TOU NBEC Adj) 2.1 Base Factor (BF) 2.2 Unadjusted Net Based Energy Cost (UB) 2.3 Time-of-use Net Base Energy Cost Adjustment (TOU NBEC Adj) 2.4 Accumulation Period NSI (SAP) (TEC-B) Missouri Energy Ratio (J) (TEC - B) * J Fuel Cost Recovery (TEC - B) * J * 0.95 True-Up Amount (T) Prudence Adjustment Amount (P) Interest (I) Fuel and Purchased Power Adjustment (FPA) Forecasted Missouri NSI (SRP) Current Period Fuel Adjustment Rate (FAR) Current Period FAR _{PRIM} = FAR x VAF _{PRIM} Current Period FAR _{SEC} = FAR x VAF _{SEC} VAF _{PRIM} = 1.0464	Total Energy Cost (TEC) = (FC + PP + E - OSSR - REC) Net Base Energy Cost (B) = (UB + TOU NBEC Adj) 2.1 Base Factor (BF) 2.2 Unadjusted Net Based Energy Cost (UB) 2.3 Time-of-use Net Base Energy Cost Adjustment (TOU NBEC Adj) 2.4 Accumulation Period NSI (SAP) (TEC-B) Missouri Energy Ratio (J) (TEC - B) * J Fuel Cost Recovery (TEC - B) * J * 0.95 True-Up Amount (T) + Prudence Adjustment Amount (P) Interest (I) Fuel and Purchased Power Adjustment (FPA) Forecasted Missouri NSI (SRP) Current Period Fuel Adjustment Rate (FAR) = Current Period FAR _{PRIM} = FAR x VAF _{PRIM} Current Period FAR _{SEC} = FAR x VAF _{SEC} VAF _{PRIM} = 1.0464

¹The Missouri Energy Ratio (J), on line 4, is calculated by dividing the Missouri retail kWh sales by the Total system kWh sales for the current accumulation period as specified by the tariff.

DATE OF ISSUE October 1, 2020 DATE EFFECTIVE December 1, 2020

²The (TEC-B)*J, on line 5, is calculated by taking the sum of (TEC-B)*J for each month of the accumulation period. Therefore, because each month is weighted differently, the amount on line 5 will not necessarily equal the product of lines three and four.

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY							
P.S.C. Mo. No.	6	Sec.	4	1st	Original Sheet No. 17q		
Canceling P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 17q		
For ALL TERRITORY	-						
FUEL & PURCHASE POWER ADJUSTMENT CLAUSE RIDER FAC							
For service on and after XX-XX-							

DATE OF ISSUE October 1, 2020 DATE EFFECTIVE ISSUED BY Sheri Richard, Director Rates and Regulatory Affairs, Joplin, MO December 1, 2020