225

Exhibit No.:

Issues: Fuel

Fuel and Purchased Power

Witness:

David C. Roos

Sponsoring Party:

MO PSC Staff

Type of Exhibit:

Surrebuttal Testimony

File No.:

ER-2011-0028

Date Testimony Prepared:

April 15, 2011

# MISSOURI PUBLIC SERVICE COMMISSION UTILITY OPERATIONS DIVISION

SURREBUTTAL TESTIMONY

**OF** 

**DAVID C. ROOS** 

UNION ELECTRIC COMPANY d/b/a Ameren Missouri

FILE NO. ER-2011-0028

Jefferson City, Missouri April 2011

Staff Exhibit No 225

Date 4/24/11 Reporter Fm3

File No En-2011-0028

## BEFORE THE PUBLIC SERVICE COMMISSION

## OF THE STATE OF MISSOURI

In the Matter of Union Electric Co d/b/a AmerenUE's Tariff to Incre Annual Revenues for Electric Servi	ease its )	File No. ER-2011-0028				
AFFIDA	VIT OF DAVI	D C. ROOS				
STATE OF MISSOURI ) ) ss COUNTY OF COLE )						
preparation of the following Successifing of 5 pages of Surrethat the answers in the following Successified Propagation of Successified Propagation of the following Successified Propagation of Successified Propag	rrebuttal Testin ebuttal Testimo Surrebuttal Test	states: that he has participated in the nony in question and answer form, my to be presented in the above case, imony were given by him; that he has s; and that such matters are true to the				
		Dall Rom				
David C. Roos  Subscribed and sworn to before me this 15th day of April, 2011.						
SUSAN L. SUNDERMEYER Notary Public - Notary Seal State of Missouri Commissioned for Callaway County My Commission Expires: October 03, 201 Commission Number: 10942086	·]	Susan Sundermeyer Notary Public				

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1 2 3 4 5 6 7 8		
5		TYN
8		Ur
10 11		
12	Q.	Please state your
13	A.	David C. Roos, P
14	Q.	Are you the sar
15	Service Co	mmission Staff Ra
16	Report) file	d on February 10, 20
17	A.	Yes.
18	Q.	What is the purp
19	A.	I respond to the
20	Missouri (A	meren Missouri or (
21	provide Sta	ff's revised exempla
22	Clause (FA	C).
23	Q.	Do you agree w
24	tariff chang	se should clearly inc
25	Independen	t Transmission Syst
26	these calcul	lations" where "these
27	energy of the	ne accumulation and
28	Α.	Staff agrees with
29	neriods ene	ergy However Stat

#### URREBUTTAL TESTIMONY

OF

#### DAVID C. ROOS

#### NION ELECTRIC COMPANY d/b/a Ameren Missouri

#### FILE NO. ER-2011-0028

- name and business address?
- P.O. Box 360, Jefferson City, Missouri, 65102.
- me David C. Roos who contributed to the Missouri Public te Design and Class Cost-of-Service Report (Staff CCOS 011?
  - ose of this testimony?
- rebuttal testimonies of Union Electric Company d/b/a Ameren Company) witnesses Lynn M. Barnes and Steven M. Wills and ar tariff sheets for Ameren Missouri's Rider Fuel Adjustment
- rith Mr. Wills' statement on page 19, lines 1 and 2 that "The dicate that only the retail portion of the Company's Midwest tem Operator (MISO) load node should become the basis for e calculations are the Net Base Fuel Cost (NBFC) rates and the recovery periods"?
- h this statement with respect to the accumulation and recovery However, Staff is neither in agreement nor disagreement with this statement

# Surrebuttal Testimony of David C. Roos

with regard to the NBFC rates. Using only the retail portion of the Company's MISO load excludes the load to serve municipalities. Staff's position is that the tariff definitions and tariff calculations must be consistent with the inputs to the fuel model that is used to develop the fuel costs used to calculate the NBFC rates. If the municipal loads are included in the loads used to develop fuel costs and costs are allocated to the municipal loads, then the entire Ameren Missouri load (retail plus municipal) at the MISO load node should be used to calculate the NBFC rates.

Using fuel costs that include the cost of serving the municipals' load and using only the retail load to calculate the NBFC rates would result in NBFC rates that were too high. Similarly, excluding the fuel and purchased power costs of serving the municipals while using the Ameren Missouri retail and municipal load at the MISO load node would result in NBFC rates that were too low. Therefore, it is Staff's recommendation to the Commission that Rider FAC definitions, language, and formulas be consistent with fuel modeling assumptions and inputs used to calculate the NBFC factor.

- Q. Do you agree with Mr. Wills' statement on page 23, lines 16 through 18 that "Factor 'NBFC' can be defined using the existing definition but with one change that is, the phrase 'at the generation level' must be replaced with 'based on the retail kWh from the net output calculation in the true-up fuel run.'"?
- A. Staff agrees that the phrase "at the generation level" must be replaced. Staff's concern with replacing the phrase "at the generation level" with "based on the retail kWh from the net output calculation in the true-up fuel run" is again, a matter of consistency. If fuel costs generated by the fuel model include costs of serving the municipals, and is used to calculate the NBFC rates, then the kWhs used to calculate the NBFC rates should also include

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the kWhs of the municipal loads. It is Staff's recommendation to the Commission that Rider FAC definitions, language, and formulas be consistent with fuel modeling assumptions and inputs used to calculate the NBFC rates.

- Q. What is Staff's response to Mr. Wills' suggestion to change to the definitions of "Factor SPAP", and "Factor SRP" on page 23, lines 2 through 14?
- A. Staff's concern is that the definition of these factors are consistent with the modeling methodology used to calculate the NBFC rates and the definition of the NBFC rates. It is Staff's recommendation to the Commission that Rider FAC definitions, language, and formulas be consistent with fuel modeling assumptions and inputs used to calculate the NBFC rates. In addition, Staff recommends that the word "Supplied" used in the definition of "Factor SAP" be deleted, since this load will be the settled load at the Company's MISO CP node not kWh supplied at that node.
- What is Staff's response to Mr. Wills' suggestion to change to the voltage Q. level adjustment factors to: 1.0557, 1.0234, and 0.9906?
- A. Staff has reviewed Mr. Wills' work papers regarding several different loss factors calculated in this case for use in weather normalization calculations and Rider FAC level adjustment factors. Staff recommends that the Commission adopt the FAC Rider voltage level adjustment factors to: 1.0557, 1.0234, and 0.9906 for secondary, primary, and transmission level voltages, respectively, in this case. These values are based on a two year load weighted average of the MISO losses.
- Q. Ameren Missouri witness Lynn M. Barnes provided exemplar tariff sheets attached to her rebuttal testimony. Does Staff have a position on these exemplar tariff sheets?

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A. Staff has reviewed these exemplar tariff sheets and notes that there are many changes to the tariff sheet that the Company and Staff both agree should be made. There also are changes to the tariff sheet that the Company proposes that the Staff neither supports nor opposes but counsels consistency in definitions, language, and formulas.

There are two changes to the tariff sheets that the Company and Staff do not agree on:

- 1. The percentage of the sharing mechanism. (This issue is discussed in Staff Witness Lena M. Mantle's surrebuttal testimony); and
- 2. The additional language that Ameren Missouri has inserted at the end of the True-Up of FAC section of the rider.

Staff has attached updated exemplar tariff sheets (DCR-1) reflecting Staff's position.

- Q. What language did Ameren Missouri witness Ms. Barnes insert at the end of the True-Up of FAC section?
- A. Ms. Barnes inserted: ", plus amounts necessary to correct over- and undercollections due to errors made in calculating adjustments to the FPAc rate that impacted the Recovery Period."
  - Q. Why does Staff object to this language?
- A. The Fuel and Purchased Power Adjustment (FPA<sub>C</sub>) is the sum of FPAs for the current (FPA<sub>(RP-1)</sub>) and prior 2 FPAs (FPA<sub>(RP-1)</sub> and FPA<sub>(RP-2)</sub>) In addition, the value of each FPA(RP) is dependent on the value of the NBFC rates and each FPA(RP) is adjusted for under/over recovery from prior periods. These three facts mean that each succeeding FPA<sub>C</sub> is linked to all previous FPAc's. The additional text suggested by Ameren Missouri would allow it to claim an adjustment during any true-up for any perceived discrepancy in calculating FPAs, (including fuel costs, MISO charges and NBFC rates) that occurred since March 1, 2009, regardless of rate case proceedings that set the factors. The purpose of the

# Surrebuttal Testimony of David C. Roos

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true-up is to compare the FAC billed during a recovery period to the amount that was to be collected in that recovery period. Adding the wording suggested by Ms. Barnes would open the true-up filings to "fix" all types of "errors".

Since Staff only has 30 days to review a true-up filing, adding this language could result in a delay in returning/billing the difference between what was to be collected and what was actually billed in the accumulation period.

- Q. Does this conclude your surrebuttal testimony?
- A. Yes, it does.

#### UNION ELECTRIC COMPANY ELECTRIC SERVICE

١	MO.P.S.C. SCHEDULE NO. 5 2 <sup>nd</sup> Revised <del>Original</del> SHEET NO. 98.115							
١	CANCELLING MO.P.S.C. SCHEDULE NO. 1st Revised -SHEET NO. 98.1							
AF	PLYING TO MISSOURI SERVICE AREA							
ı	RIDER FAC FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE Applicable To Service Provided On The Effective Date Of This Tariff And Thereafter							
١	APPLICABILITY							
	This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 7(M), 8(M), 11(M), and 12(M).							
	Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation, net of Off-System Sales Revenues (OSSR) (i.e., Actual Net Fuel Costs) and Net Base Fuel Costs (factor NBFC, as defined below), calculated and recovered as provided for herein.							
Ì	The Accumulation Periods and Recovery Periods are as set forth in the following table:							
	Accumulation Period (AP) Filing Date Recovery Period (RP) February through May By August 1 October through MaySeptember							
	June through September By December 1 February through  September January  October through January By April 1 June through January May							
	Accumulation Period (AP) means the historical calendar months during which fuel and purchased power costs, including transportation, net of OSSR for all kWh of energy supplied to Missouri retail customers are determined.							
	Recovery Period (RP) means the billing months as set forth in the above table during which the difference between the Actual Net Fuel Costs during an Accumulation Period and NBFC are applied to and recovered through retail customer billings on a per kWh basis, as adjusted for service voltage level.							
	The Company will make a Fuel and Purchased Power Adjustment (FPA) filing by each Filing Date. The new FPA rates for which the filing is made will be applicable starting with the Recovery Period that begins following the Filing Date. All FPA filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.							
١	FPA DETERMINATION							
	Eighty five Ninety five percent (8595%) of the difference between Actual Net Fuel Costs and NBFC for all kWh of energy supplied to Missouri retail customers during the respective Accumulation Periods shall be reflected as an FPAc credit or debit, stated as a separate line item on the customer's bill and will be calculated according to the following formulas.							
	For the FPA filing made by each Filing Date, the $FPA_C$ rate, applicable starting with the Recovery Period following the applicable Filing Date, to recover fuel and purchased power costs, including transportation, net of OSSR, to the extent they vary from Net Base Fuel Costs (NBFC), as defined below, during the recently-completed Accumulation Period is calculated as:							
[								

DATE OF ISSUE September 3, 2010 DATE EFFECTIVE October 3, 2010 ISSUED BY Warner L. Baxter
NAME OF OFFICER President & CEO St. Louis, Missouri
ADDRESS Schedule DCR 1 - 1

#### E\_LECTRIC SERVICE

ţ	м	IO.P.S.C. SCHEDULE NO. 5	2 <sup>n</sup>	d Revised	SHEET NO.	98.2 <del>16</del>		
CANCELLING MO.P.S.C. SCHEDULE NO.				1 <sup>st</sup> Revised	SHEET NO.	98.2		
AP	PLYING TO	MISSOURI SE	RVICE	AREA				
	RIDER FAC  FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.)  Applicable To Service Provided On The Effective Date Of This Tariff And Thereafter							
ļ	$FPA_{(RP)} = [[$	(CF+CPP-OSSR <del>-TS-S</del> -W) -	(NBFC	x S <sub>AP</sub> )]x <u>85</u> 95% +	I + R - N)/	$S_{RP}$		
		which will be multipli orth below, applicable culated as:						
Į		$FPA_C = FPA_{(RP)} +$	FPA (RE	-1) + FPA <sub>(RP-2)</sub>				
ļ	where:							
	7	Fuel and Purchased Powe with the Recovery Perio Date.						
	1	FPA Recovery Period rate under/over collection condended prior to the application of the section	during	the Accumulation				
		FPA Recovery Period rat calculation, if any.	te com	ponent from prio	r FPA <sub>RP</sub>			
		FPA Recovery Period rate prior to FPA <sub>(RP-1)</sub> , if an		ponent from FPA <sub>Rf</sub>	calculation	1		
	; (	Fuel costs incurred to and Off-System Sales a operations, including to Company's generating posteriors.	llocat transp	ed to Missouri reportation, associ	etail electr ated with th	ic e		
ĺ		a) For fossil fuel	or hyd	iroelectric plant	s:			
		Regulatory Commicommodity, applied additives, suppliers, qualicontent of coal revenues for Soutransportation, railcar repair a depreciation, ra	ssion cable Btu ac ty adj assess and No switch nd ins ilcar	costs reflected in (FERC) Account Notaxes, gas, altered in the control of the costs, respection costs, respection costs, simulation and costs, simulation of the costs, simulation of the costs of the co	number 501: cernative fuel ed by coal to the sulfiers, eosternative fuel echarges, eallcar milar costs	coal s, fur <del>and</del>		
		transportation, factor CF, hedgi costs minus real volatility in th power, including of futures, opti including, witho	fuel had is ized of e Composite ons around the constant of the	nedging costs (for defined as realing gains associated pany's cost of fur not limited to, the and over-the-count mitation, futures collars, and swap	r purposes of zed losses a with mitigated and purchase Company's cer derivative contracts,	and ing lased use ves puts,		

DATE OF ISSUE September 3, 2010 DATE EFFECTIVE October 3, 2010

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri

NAME OF OFFICER TITLE ADDRESS
Schedule DCR 1-2

#### UNION ELECTRIC COMPANY ELECTRIC SERVICE

•	MO.P.S.C. SCHEDULE NO5	2 <sup>nd</sup> Revised <del>Original</del>	SHEET NO. 98.3 <del>17</del>
CANCELLING	MO.P.S.C. SCHEDULE NO.	1 <sup>st</sup> Revised	SHEET NO98.3
APPLYING TO	MISSOURI	SERVICE AREA	
	JEL AND PURCHASED POWE	DER FAC R ADJUSTMENT CLAUSE (CONT Effective Date Of This Tari:	
	costs, broker of price hedges, of expenses, and read transportate and (ii) the following form the following the following form of the following form the following fo	luded in commodity and trommissions and fees associal costs, ash disposal reevenues and expenses resultion portfolio optimization costs reflected in tural gas generation cost transportation, storage, rges, fuel losses, hedgin	ciated with evenues and alting from fuel on activities;  FERC Account to related to capacity
	revenues and ex transportation	penses resulting from fue portfolio optimization ac ad revenues for SO <sub>2</sub> and NO	el and ctivities; and
	b) Costs in FERC A Expense).	ccount Number 518 (Nuclea	ır Fuel
	under MISO Schedules capacity charges for (1) year, incurred to customers and Off-Systelectric operations. are insurance premium replacement power costs (other than those related in being power will be reduced recoveries (other than those related power will be reduced recoveries (other than the	-	ive fees arising excluding excess of one ssouri retail issouri retail "CPP"  924 for ing to the Taum not reflected in urance premiums lant) from the or decrease f purchased power insurance Taum Sauk Plant) Accounting neurrently with vided for in ting to
OSSR =	operations.  Off-System Sales shall (including MISO rever excluding Missouri repartial requirements are associated with generating units, (2)	l include all sales transues in FERC Account Numbertail sales and long-term sales to Missouri municipal AmerenUE Missouri juripower purchases made to any related transmission	sactions er 447), full and palities, that isdictional serve Missouri

DATE OF ISSUE	September 3,	2010 DATE EFFECTIVE	October 3, 2010
ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

### UNION ELECTRIC COMPANY

#### **ELECTRIC SERVICE**

	MO.P.S.C. SCHEDULE NO. 5	2 <sup>nd</sup> Revised <del>Original</del>	SHEET NO 98.4 <del>18</del>
CANCE	LING MO.P.S.C. SCHEDULE NO.	1 <sup>st</sup> Revised	SHEET NO98.4
PLYING TO	MISSOURI	SERVICE AREA	
Applicable	<del></del>	DER FAC R ADJUSTMENT CLAUSE (CON Effective Date Of This Tar	
	Adjustment For Reduction Determinants:	of Service Classificati	on 12(M) Billing
	Should the level of mont. Classification 12(M) fal monthly billing determin 0036 an adjustment to OS following levels:	l below the level of nor ants as established in (	rmalized 12(M) Case No. ER-2010-
	<ul><li>a) A reduction of less f</li><li>No adjustment will</li></ul>	than 40,000,000 kWh in a 11 be made to OSSR.	given month
1		ales revenues derived fr system due to the entire	om all kWh of
	Taum Sauk, and will b there are three each the next rate case or back in service. Thi	ual fuel costs to reflece e credited in FPA filing year as shown in the tak , if sooner, until Taum s value is \$26.8 million	gs (of which plo-above), until Sauk is placed a annually, one
<del>s</del> —	of \$3 million annuall 2010. One third of tapplied to each Accum Period during which tapprorated according to	ed value of Blackbox Set y, which shall expire of he annual value (\$1 mil- ulation Period. For the he factor expires, the the number of days dur- Accumulation Period.	n-September 1, lion) shall be e-Accumulation factor shall be
W		r the months, July 1, 20 or "W" expires on June 30	
N	Accumulation Period, sale of power made polevel of 12(M) sales above) exceeds (b) the	y which, over the course (a) revenues derived from the course of the cou	om the off-system eductions in the finition of OSSR venues compared
] I	Fuel Costs (adjusted "W") and NBFC for all retail customers during costs have been record	for Taum Sauk, factor."  kWh of energy supplied on Accumulation Perivered; (ii) refunds due factor R, below); and	S", and factor to Missouri od until those to prudence
ATE OF ISSUE	September 3, 2010	DATE EFFECTIVE Q	stobar 2 2010

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS
Schedule DCR 1 - 4

1		МС	P.P.S.C. SCHEDULE NO.	5	2 <sup>nd</sup> Re	vised <del>0rigi</del>	<del>nal</del>	SHEET NO. 98.5 <del>19</del>
1	CANCELL	ING MC	P.P.S.C. SCHEDULE NO.		1st R	levised		SHEET NO. 98.5
APPLYING T	0		MIS	SOURI S	ERVICE ARE	EA		
Appl	icable		L AND PURCHASE	D POWER				
		i f r C	alances createn the true-up actor R, below ate equal to to to mpany's short fitems (i) the	filings  i) Int  the weighter  therm	s provided terest shall whted avera debt, appli	for hereing to the calcust of the ca	n (a por nlated m st rate month-e	ction of monthly at a paid on the end balance
	R	R a t <del>a</del> p	nder/over reco ecovery Period djustments, an he Commission lready reflect rudence review ith interest a	is as de id modif <del>(other ied in t</del> vs or ot	etermined in items of the them the them the	for the FAC due to adju a <del>djustment tor)</del> , as a lowances ar	true-ustments for Tou result	np s ordered by <del>nm Sauk-as</del> of required
	$S_{AP}$	<u>n</u>	ctual Supplied rior to the apodegeneration f energy sold djustment above	oplicable level, off-sy:	le Filing l plus the l	Date, at th kWh reducti	ne <u>MISO</u> Lons up	Ammo.UE load to the kWh
	$S_{RP}$		pplicable Reco oad node <del>genera</del>					
	NBFC	C ± ± t t t t t t t t t t t t t t t t t	commission's or effecting and effecting and effecting and effecting and effecting and effective the term CFP), it is the term CPP), it is applicable to appl	rder as adjustment of the sum of	the norma ent for Ta of allowab st of purc evenues fr term OSSR) terme "S" Ammo.UE lo ny's retai rough Sept .330 cents through M	lized test  um Soul; co  le fuel cos  hased powes  om off-sys  , less an a  and "W"), o  ad nodegen  l rates. "  ember cales  per kWh.  lay calenda	year variables  sts (consistent (consistent sale adjustment (consistent sale adjustmen	alue (and nt with the nsistent with istent with es ents ed in cents level, as C rate nths ("Summer FC rate
Clas	ssifica	ition	he FPA rates a s, the $ ext{FPA}_{ ext{c}}$ ra lied by the fo	te dete	rmined in	accordance	with t	he foregoing
	Prin	nary	y Voltage Serv Volťage Servic ansmission Vol	e	ervice	1	.0557 <del>1.</del> .0234 <del>1.</del> ).09906 <del>1</del>	<del>.0459</del>
rour	The FPA rates applicable to the individual Service Classifications shall be rounded to the nearest 0.001 cents, to be charged on a cents/kWh basis for each applicable kWh billed.							

DATE OF ISSUE \_\_\_ September 3, 2010 DATE EFFECTIVE October 3, 2010 ISSUED BY <u>Warner L. Baxter</u>
NAME OF OFFICER President & CEO St. Louis, Missouri ADDRESS Schedule DCR 1-5

CANCELLING MO.P.S.C. SCHEDULE NO.	1 <sup>st</sup> Revised	SHEET NO98.
LYING TO MISSOURI SE	RVICE AREA	
	ER FAC	
FUEL AND PURCHASED POWER Applicable To Service Provided On The Ef		
TRUE-UP OF FAC		
After completion of each Recovery Per	riod, the Company will ma	ake a true-up
filing in conjunction with an adjustr	ment to its FAC <u> where a</u>	<del>applicable.</del>
least two (2) months after completion	<del>of each Recovery Perio</del>	<del>l</del> The true
up filing shall be made on the same of FAC. Any true-up adjustments or refu		
above, and shall include interest calabove.		
The true-up adjustments shall be the	difference between the	revenues bille
and the revenues authorized for colle		
GENERAL RATE CASE/PRUDENCE REVIEWS		
The following shall apply to this Fue		
Clause, in accordance with Section 3		
Public Service Commission Rules gove: established under Section 386.266, R		chanisms
codubitioned and bederon sources, in		
The Company shall file a general raterates to be no later than four years Public Service Commission order implifurchased Power Adjustment Clause. Shall not include any periods in which collecting any charges under this Fucclause, or any period for which chart In the event a court determines that Adjustment Clause is unlawful and all refunded, the Company shall be relied and Purchased Power Adjustment Clause	after the effective dat ementing or continuing to the four-year period reful the Company is prohible and Purchased Power Ages hereunder must be ful this Fuel and Purchased moneys collected hereuved of the obligation un	e of a Missour his Fuel and erenced above ited from djustment lly refunded. Power nder are fully der this Fuel
Prudence reviews of the costs subjec	t to this Fuel and Purch	ased Power
Adjustment Clause shall occur no les	s frequently than every	eighteen
months, and any such costs which are		
Service Commission to have been impr violation of the terms of this rider		
interest at a rate equal to the weig		
Company's short-term debt.		
		<b>\</b>

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS
Schedule DCR 1-6

#### **ELECTRIC SERVICE**

1	MO.P.S.C. SCHEDULE NO5	2nd Revised	SHEET NO. 98.714					
CA	NCELLING MO.P.S.C, SCHEDULE NO5	<u>lst_Revised</u>	SHEET NO. 98.714					
APPLYING TO								
· · · · · · · · · · · · · · · · · · ·	RIDER FAC							
	FUEL AND PURCHASED POWER ADJUSTM	ENT CLAUSE (CO	NT'D.)					
	plicable for the billing months beginning							
Applica	ble To Service Provided On The Effective	Date Of This Ta	riff And Thereafter					
*Calcula	ation of Current FPA <sub>C</sub> Rate:							
Accui	mulation Period Ending:		<del>September 30,</del> 2011					
1 1	Matal Brown Cost /CELCER OSSE MC C	ET )	\$249,802,845					
1.	Total Energy Cost (CF+CPP-OSSR-TS-S-I	w) _	\$183,733,223					
<u> </u>	Base Energy Cost 2.1 NBFC (\$/kWh)	-	\$0.01198					
}  1	2.1 Norc (3/kWn)  2.2 Accumulation Period Sales kWh (3	X X	15,338,492,326					
1 3.	First Subtotal (12.)	SAP!	\$66,069,622					
	Customer Responsibility	x	85% <del>95%</del>					
5.	Second Subtotal	х	\$62,766,141					
٦.	Adjustment for Interest plus Under /	Over	VO2, 700, 111					
[ 6.	recovery for Prior Periods less Facto		<del>\$410,353</del>					
	+ R - N)							
7.	Third Subtotal		<del>\$63,176,494</del>					
8.	Estimated Recovery Period Sales kWh	(Spp) ÷	41,068,370,000					
9.	FPA <sub>RP</sub>	(-RF)	<del>\$0.00154</del>					
1!	FPA <sub>RP-1</sub>	+	\$0.00176					
l.'	FPA <sub>RP-2</sub>	+	<del>\$0.00114</del>					
12.	FPA <sub>c</sub> (without Voltage Level Adjustmen	nt)	<del>\$0.00144</del>					
1.	Voltage Level Adjustment Factor							
) i	13.1 Secondary	x	1.0557 <del>1.0789</del>					
Si .	13.2 Primary	x	1.02341.0459					
<b>l</b> i	13.3 Large Transmission	x	0.99061.0124					
14.	FPAc (with voltage level adjustment)		<del></del>					
1	14.1 Secondary		<del>\$0.00479</del>					
1	14.2 Primary		<del>\$0.00464</del>					
li 💮	14.3 Large Transmission		<del>\$0.00450</del>					
ļ								
į								
1								
]								
* Indic:	* Indicates Change.							
Indicates ondage.								
DATE OF ISSUE	November 24, 2010 DATE	EFFECTIVE	anuary 26, 2011					

ISSUED BY Warner L. Baxter President & CEO St. Louis, Missouri
NAME OF OFFICER TITLE ADDRESS
Schedule DCR 1-7