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Case No. ER-2016-0023

Date Testimony Prepared: May 2016

Before the Public Service Commission Of the State of Missouri

Surrebuttal Testimony

of

Todd W. Tarter

May 2016



Empire Exhibit No. 21

Date 6-2-16 Reporter KKF

File No. ER. 2016-0023



SURREBUTTAL TESTIMONY OF TODD W. TARTER ON BEHALF OF THE EMPIRE DISTRICT ELECTRIC COMPANY BEFORE THE MISSOURI PUBLIC SERVICE COMMISSION CASE NO. ER-2016-0023

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- 2 A. Todd W. Tarter. My business address is 602 S. Joplin Avenue, Joplin, Missouri.
- 3 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
- 4 A. The Empire District Electric Company ("Empire", "EDE" or "Company"). My title is
- 5 Manager of Strategic Planning.
- 6 Q. ARE YOU THE SAME TODD W. TARTER THAT EARLIER PREPARED AND
- 7 FILED DIRECT AND REBUTTAL TESTIMONY IN THIS RATE CASE BEFORE
- 8 THE MISSOURI PUBLIC SERVICE COMMISSION ("COMMISSION") ON
- 9 **BEHALF OF EMPIRE?**
- 10 A. Yes.
- 11 Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?
- 12 A. In my surrebuttal testimony, I will respond to the rebuttal testimony of Office of the Public
- 13 Counsel ("OPC") witness Ms. Lena Mantle regarding the continuation of Empire's fuel
- adjustment clause ("FAC").
- 15 Q. IN HER REBUTTAL TESTIMONY, OPC WITNESS MANTLE DISCUSSES THE
- 16 "FAIRNESS" OF AN FAC BEGINNING ON PAGE 2. WHAT DO YOU MEAN
- 17 WHEN YOU STATE THAT THE FAC IS FAIR?
- 18 A. I simply mean that with a properly designed FAC, the customer pays for the true cost of
- energy no more or no less (outside the 5% sharing mechanism). If the cost of energy

- rises above the amount included in base rates, then the additional amount would be collected by Empire through the FAC. Likewise, if the cost of energy falls below the amount included in base rates, the customer would be refunded through the FAC. This approach is fair and reasonable for both the customer and the utility.
- 5 Q. HOW DO YOU RESPOND TO MS. MANTLE'S DISCUSSION OF "FAIRNESS OF THE FAC"?
- A. I will not devote time debating the semantics of "fair," nor attempt to determine if the FAC is "equally fair," as Ms. Mantle mentions on page 2, line 13 of her rebuttal testimony. Having a properly designed FAC is the "fairest" solution for energy cost recovery in this case. Ms. Mantle allocates about nine pages of rebuttal testimony to the topic of fairness. Ironically, she never applies her fairness tests to her own proposal of discontinuing the FAC, which, of all the proposed methods of handling energy cost recovery in this case, is the most unreasonable or unfair.

Q. WHY DO YOU SAY THAT HAVING NO FAC IS THE MOST UNFAIR METHOD OF ENERGY COST RECOVERY IN THIS CASE?

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The OPC recommendation of discontinuing the FAC would place a static estimate of all energy costs in base rates. This amount would be unchanged until the next general rate case. As actual energy costs increase and/or decrease over time, customers would pay either too little or too much for energy costs. Even if actual energy costs only deviate a small percentage from the amount in base rates, without an FAC this could still be a significant dollar amount, given the magnitude of the costs involved. Future energy costs are uncertain, subject to short-term and long-term volatility, and are largely beyond the control of the utility and the customer. It is unreasonable to expect that any estimate of

- base fuel cost recovery without an FAC, would match actual energy costs in the rate year
- and beyond, since energy costs vary based on weather, wind, rainfall, fuel prices, market
- 3 prices, resource availability, and many other variables.
- 4 Q. ON PAGES 3 AND 4 OF HER REBUTTAL TESTIMONY, OPC WITNESS
- 5 MANTLE CLAIMS SHE HAS DETERMINED WHAT EMPIRE IS WILLING TO
- 6 PAY FOR THE REDUCTION OF RISK ASSOCIATED WITH HAVING AN FAC.
- 7 HOW DO YOU RESPOND?

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Ms. Mantle has not determined what Empire is willing to pay for any risk reduction A. associated with the continuation of its FAC. Instead, Ms. Mantle has highlighted the need for an FAC and the fairness of a properly designed FAC. On page 4, lines 13-15 of her rebuttal testimony, Ms. Mantle states, "despite having to return \$7.4 million of revenue, Empire chose to request the continuation of its FAC in this case. This demonstrates Empire values the reduction in risk provided by an FAC by at least \$7.4 million." This dollar amount is not the Company's position of a quantification of risk, as Ms. Mantle seems to be imposing. This \$7.4 million level simply represents the results of the last two FAC accumulation periods (representing only a twelve month period), where Empire's energy costs for its Missouri retail customers were about \$7.8 million less than the energy costs included in base rates set in the last case. For these two accumulation periods, Empire refunded about \$7.4 million (95% of \$7.8 million) to its customers via the FAC. This is a good example of the energy cost uncertainty, volatility, and magnitude that I mentioned earlier. When base rates were established in the last case, no one predicted that energy costs would have fallen to this level. Absent the FAC, as Ms. Mantle points out, the Company would have retained this difference, and the customers would have over-paid

1 for energy costs.

- 2 Q. MS. MANTLE SEEMS TO BE IMPLYING THAT THE COMPANY SHOULD
- 3 DISCONTINUE ITS FAC IN ORDER TO INCREASE ITS EARNINGS. HOW DO
- 4 YOU RESPOND?

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Empire is not attempting to "game the system." Empire has requested the continuation of the FAC in order to have the opportunity to recover prudently incurred energy costs and maintain the opportunity to earn a fair return, while insuring that customers neither overpay or under-pay for these energy costs. Later in her rebuttal testimony on page 11, lines 2-10, Ms. Mantle states, "therefore, Empire should, each time it files a general rate increase, evaluate whether or not it is in its best interest to request the continuation, modification or discontinuation of its FAC," due to what she views as a detriment to an electric utility of having an FAC when energy costs are decreasing. Empire agrees that it should evaluate, each time it files a general rate case, whether an FAC is in the best interest of the Company and its customers. But the fault in Ms. Mantle's logic is that it assumes that the Company will know what future energy costs will be and at what level the energy costs will be set in its base rates by the end of the general rate case process. As mentioned earlier, Ms, Mantle pointed out that Empire would have retained about \$7.4 million without an FAC during the last two accumulation periods. Instead, with the FAC in place, this amount will be returned to ratepayers. Actual energy prices were below the FAC base factor during this period, primarily due to mild weather, high wind generation, and historically low natural gas prices. How could this have been predicted with a high-level of certainty? If circumstances would have been different (e.g., extreme weather, natural gas price pressure, etc.), energy costs from this period could have just as easily been above

the FAC base factor set in the last case.

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2 Q. MS. MANTLE CLAIMS THAT AN FAC SENDS CUSTOMERS THE WRONG

PRICE SIGNALS. HOW DO YOU RESPOND?

I disagree. It seems that the basis for Ms. Mantle's statement relies on the time lag between when actual energy costs occur and when they are billed through the FAC. On page 6 of her rebuttal testimony, beginning at line 15 she discusses this timing and concludes with, "by the time that the customers are billed the FAC rate, it is not an accurate measure of fuel cost at the time that the customers receive their bills." Empire bills the Missouri FAC based on its FAC tariff, which specifies accumulation periods and recovery periods. This Missouri FAC process is the result of stakeholder discussions and Commission approval. This process does not allow for the FAC rate to be changed dynamically as energy costs change (not to mention the technology and costs that may be required to accomplish such a feat). And understandably, this process does not allow for the FAC rate to be changed for each billing period. There is obviously going to be some passage of time between when energy costs change and when the customer is billed. The Missouri FAC process also involves prior period true-ups and time allowed for regulators to review requested FAC rate changes. Currently, Empire updates its Missouri FAC rate twice per year, on a retrospective basis. On page 6, line 17, Ms. Mantle states, "in fact, there are times the FAC sends the wrong price signal." I would like to point out that Ms. Mantle mentions that "there are times" that this might be true, but generally, in periods of mostly increasing or decreasing energy costs, customers would eventually see the correct price signal with an FAC, since with the FAC, customers ultimately pay the true cost of energy. Although there is a time lag between when actual energy costs occur and when they are billed through the

1		FAC, this time lag is much less than would be experienced in the absence of an FAC.
2	Q.	ON PAGE 9 OF YOUR DIRECT TESTIMONY, WHAT DID YOU MEAN BY
3		STATING THE FAC CONVEYS A MORE ACCURATE COST OF ELECTRIC
4		ENERGY TO EMPIRE'S CUSTOMERS?
5	A.	I am comparing the price signal sent to customers by having an FAC in place versus the
6		situation of not having an FAC in place. I state that having the FAC conveys a more
7		accurate cost of energy, since the FAC rate changes as actual energy costs change, albeit
8		on a delayed schedule, as discussed previously. By comparison, without an FAC,
9		customers are insulated from the actual cost of energy, since they are paying one fixed
10		price for energy without regard to how energy prices are actually changing. For example,
11		without the FAC in place, if natural gas prices dramatically change up or down, customers
12		would pay the same energy price and would not see this fuel price signal in their bill at all.
13	Q.	ON PAGE 3, LINES 1-14 OF HER REBUTTAL TESTIMONY, OPC WITNESS
14		MANTLE CLAIMS THAT IF ENERGY COSTS INCREASE, EMPIRE WOULD
15		RECOVER A SIGNIFICANT AMOUNT OF THIS INCREASE BASED ON
16		EMPIRE'S FAC PROPOSAL IN THIS CASE. HOW DO YOU RESPOND?
17	A.	Ms. Mantle states that the FAC as proposed by Empire is a guaranteed recovery of almost
18		all energy cost increases, while ignoring the reciprocal benefit for customers. She states
19		that with the 95%/5% sharing mechanism, if actual costs are 10% higher than what was
20		included in base rates, Empire would recover 99.5% of its energy costs; and even in the
21		unlikely event that energy costs were more than 150% higher than the energy costs in base

rates, Empire would still recover 98.3% of its energy costs. I have not performed these

calculations, but if Ms. Mantle's math is correct, I think this proves that the Missouri FAC

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TODD W. TARTER SURREBUTTAL TESTIMONY

1	process is working	ng as intended	and that the	FAC should	be continued.	Prior to the
2	implementation o	f the Missouri	FAC, this fuel	cost recovery	position certainl	y was not the
3	case for Empire.	The implemen	ntation of an F	AC has been	beneficial for E	mpire and its

- 4 customers and will continue to be important in the future.
- 5 Q. IN HER REBUTTAL TESTIMONY, MS. MANTLE REACTS TO YOUR
- 6 STATEMENT THAT EMPIRE'S NATIVE LOAD WAS SUPPLIED FROM THE
- 7 SOUTHWEST POWER POOL ("SPP") MARKET AND NOT FROM EMPIRE
- 8 RESOURCES. WHAT IS YOUR RESPONSE?
- 9 A. I make this statement while describing the SPP integrated marketplace ("SPP IM") which
- has been in place since March 2014. Briefly, with the implementation of the SPP IM,
- Empire now sells its generation into the market and purchases all of its customers' load
- requirements from the market.
- 13 Q. PLEASE STATE WHY IT IS IMPORTANT TO DESCRIBE THE SPP IM
- 14 APPROACH FOR THIS CASE?
- 15 A. The SPP IM is a fundamental change in the overall structure of Empire's business. One of
 16 the primary reasons for describing the SPP IM approach for this rate case is to describe
 17 how the modeling was accomplished to determine the FAC base factor. This is the first
 18 rate case that Empire has attempted to model the SPP IM with a computer simulation
- model in order to calculate an FAC base factor level. On page 12 of her rebuttal
- 20 testimony, Ms. Mantle seems to have some issue with my use of the term "supplies" when
- I describe that Empire's native load is supplied from the SPP IM. Technically, I think this
- 22 is accurate, but perhaps stating that Empire "purchases" its native load requirement from
- 23 the SPP IM would have also described the process. Stating that Empire's native load is

1		supplied from the SPP IM does not mean that SPP generates and provides electricity to
2		Empire, nor does it mean that energy flows from Empire generators to an SPP site and then
3		back to Empire customers, as Ms. Mantle ventures in her rebuttal testimony on page 12—
4		even though I did not testify to this effect.
5	Q.	ON PAGE 12, LINE 18 OF OPC WITNESS MANTLE'S REBUTTAL TESTIMONY
6		SHE DISCUSSES HOW ENERGY FLOWS BASED ON THE LAWS OF PHYSICS.
7		HOW DO YOU RESPOND?
8	A.	As mentioned, my main purpose for describing the SPP IM was to explain the modeling
9		approach used to calculate the FAC base factor for this rate case. I was not discussing how
10		the electrons flow. How the electrons flow is irrelevant to my discussion of the computer
11		modeling and the calculation of the FAC base factor.
12	Q.	DO YOU AGREE WITH THE MANNER THAT OPC WITNESS MANTLE HAS
13		CHARACTERIZED THE SPP IM IN HER REBUTTAL TESTIMONY?
14	A.	No, I do not. There are multiple references to the SPP IM in her rebuttal testimony that do
15		not appear to be accurate. For example, on page 12, beginning at line 9 of Ms. Mantle's
16		rebuttal testimony, she makes the following statement about Empire's participation in the
17		SPP IM:
18		Empire's native load requirement is supplied by its own generation resources and
19		long-term purchased power contracts supplemented by spot purchases of energy
20		from other members of SPP when the SPP IM market price is below Empire's cost
21		to provide the electricity needed for its customers.
22		While Empire is still required to meet its reserve margin requirement, retain a diverse mix
23		of generation resources to help lower its overall net fuel and purchased power expense, and

Q.

A.

I do not believe this statement would be accurate except under the most unusual of

circumstances. A significant function of the SPP IM is the centralized unit commitment and dispatch of the generation assets registered in the SPP IM to serve market participant load. The power bought and sold in the SPP IM is not merely a financial transaction or an exchange for imbalance between a utilities online generation and on-system load but rather a physical sale to the Integrated Marketplace¹. The energy produced from the committed generating resources is compensated based on locational marginal pricing ("LMP") which include the marginal costs of energy, losses and congestion. However, the LMP paid to a generator for injection is separate from the LMP paid by the load for withdrawal, and this distinction is very important and integral to comprehending how the SPP IM functions. Utilities are not able to serve their own load by simply injecting generation into the market at a generator node and withdrawing that same price for power at a different load node. If that were the case then the utility would simply pay a net level of charges for the excess balance of power that is either injected or withdrawn for a certain interval. Even if a generation resource is self-committed, (e.g., providing power regardless of its economic position), the generation is still sold into the SPP IM. Because of differences in LMP caused by transmission outages, flowgate constraints, line losses and other factors, the cost of energy needed to serve native load will almost certainly be different from the level(s) of compensation received at the generator for energy produced.

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Q. IN MULTIPLE PLACES IN MS. MANTLE'S REBUTTAL TESTIMONY SHE MENTIONS "SPOT PURCHASED POWER." WHAT IS YOUR RESPONSE?

A. Again, this seems to be a pre-SPP IM concept, although this term can be used in varying contexts. As mentioned earlier, the SPP IM began on March 1, 2014. Prior to the advent

¹ The SPP IM Protocols make it incontrovertible that the energy settlements for both the day-ahead ("DA") and real-time ("RT") markets are for <u>physical energy bought and sold</u>, net of Bilateral Settlement Schedules. Source: Integrated Market Protocols 33 – Pages 222, 342

of the SPP IM, Empire participated in the Energy Imbalance Service ("EIS") market to identify energy purchase and sale opportunities that would lower energy costs. Prior to the start of the SPP IM, an Empire energy trader would contact potential counterparties, compare opportunities, and develop alternatives. When determining spot market purchase or sale opportunities, Empire energy traders accounted for generation and transmission constraints. Since Empire is a member of the SPP and is a network transmission service customer of SPP, this enabled opportunities for network purchases and sales in the pre-SPP IM world. However, the start of the SPP IM ended the EIS market. Bilateral deals may still be made with counterparties, and imports and exports with counterparties outside of SPP may still take place; but the SPP IM has fundamentally changed, if not nearly eliminated, the amount of traditional non-contract purchases that Empire formerly referred to as "spot energy purchases." With the SPP IM in place, native load energy is purchased from the SPP market. Empire energy traders now bid in hourly demand and generation offers to SPP on a day-ahead basis, analyze opportunities for the most efficient procurement of energy for load, monitor the real time balancing market, hedge transmission congestion on a market based approach (via the Transmission Congestion Rights or TCR market), and make operating reserve offers to the market.

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Q. DO YOU HAVE A RESPONSE TO MS. MANTLE'S REBUTTAL TESTIMONY DESCRIPTION OF THE OFF SYSTEM SALES REVENUES?

A. Yes. On page 15 beginning at line 12, she mentions Empire's normalized off-system sales revenue of about \$152 million and Staff's estimate of about \$150 million, from the respective direct filings. She correctly states that this is the revenue each party estimated Empire would receive from SPP for the dispatch of its resources. For purposes of

explaining the SPP IM, I just wanted to clarify that for Empire's calculation of the FAC base factor, the approximate \$152 million that was referenced represents revenues received for Empire generation sold into the market and is not the cost of energy to meet Empire's native load (how the electrons flow not withstanding). The separate cost to serve Empire's native load was labeled by Empire on Schedule TWT-10 as "Native Load Cost." This represents the cost of energy purchased from the SPP market to serve Empire's native load (not the cost of energy from Empire resources), and this value from the direct filing was about \$147 million. The third key piece to the net fuel and purchased power cost calculation would be the fuel and purchased power costs (and other energy related costs eligible for the FAC) of Empire resources that were sold into the SPP market.

11 Q. WHAT IS EMPIRE'S POSITION ON FUEL RECOVERY IN THIS CASE?

As set forth in Empire's direct testimony, Empire supports the continuation of the FAC in this case. Completely eliminating the FAC would deny Empire the means to recover prudently incurred energy costs and would deny Empire the opportunity to earn a fair return. Elimination of the FAC would also remove the assurance that customers neither over-pay nor under-pay for these costs. It would also send a negative message to investors and credit rating agencies which, in turn, could harm Empire and its customers. The OPC proposal sponsored by Ms. Mantle to discontinue the Empire FAC is not in the public interest and should therefore be rejected.

20 Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

21 A. Yes.

AFFIDAVIT OF TODD W. TARTER

STATE OF MISSOURI)	SS
COUNTY OF JASPER	33
	ay of May, 2016, before me appeared Todd W. Tarter, to me being by me first duly sworn, states that he is Manager of
	Empire District Electric Company and acknowledges that he oregoing document and believes that the statements therein
	best of his information, knowledge and belief.
	Tod W. Tartes
	Todd W. Tarter
ورود كرود المحالات والمراد وال	sin to before monthly doubt doubt the OOAC
Subscribed and swc	orn to before me this <u>13th</u> day of May, 2016.
ANGELA M. CLOVEN Notary Pubic - Notary Se State of Missouri	
Commissioned for Jasper Co My Commission Expires: November Commission Number: 15262	01, 2019 2659 Notary Public
My commission exp	ires: 11/0, /18