Exhibit No.: Issue: Fuel Adjustment Witness: Todd W. Tarter Type of Exhibit: Direct Testimony Sponsoring Party: Empire District Electric Case No. ER-2014-0264 Date Testimony Prepared: April 2014

Before the Public Service Commission Of the State of Missouri

Direct Testimony

Of

Todd W. Tarter

April 2014

DIRECT TESTIMONY OF TODD W. TARTER THE EMPIRE DISTRICT ELECTRIC COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI CASE NO. ER-2014- 0264

1 INTRODUCTION AND QUALIFICATIONS

2 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- 3 A. My name is Todd W. Tarter and my business address is 602 S. Joplin Avenue,
- 4 Joplin, Missouri.

5 Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR JOB TITLE?

A. I am presently employed by The Empire District Electric Co. ("Empire" or "the
Company") as the Manager of Strategic Planning.

8 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL

9 **BACKGROUND FOR THE COMMISSION.**

I graduated from Pittsburg State University in 1986 with a Bachelor of Science 10 A. 11 Degree in Computer Science. After graduation I received a mathematics education certification. I began my employment with Empire in May 1989. During my tenure 12 with Empire I have worked in the Corporate Planning, Strategic Planning, 13 Information Technology, and Planning and Regulatory departments. My primary 14 responsibilities during this time have included work with the Company's 15 construction budget, load forecasts, sales and revenue budgets, financial forecasts 16 and fuel and purchased power projections, among others. In September 2004, I was 17

promoted to my current position where I primarily work with fuel and purchased 1 power projections, energy efficiency and integrated resource planning. 2

O. HAVE YOU EVER TESTIFIED BEFORE THIS OR ANY OTHER STATE 3

4

UTILITY COMMISSION?

- Yes. I have testified on behalf of Empire before the Missouri Public Service 5 A. 6 Commission, the Kansas Corporation Commission, the Corporation Commission of Oklahoma and the Arkansas Public Service Commission. The case references are 7 attached to this testimony as Schedule TWT-1. 8
- 9

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

My testimony will support the Fuel & Purchased Power Adjustment Clause 10 A. ("FAC") rate schedules that have been filed by Empire to reflect the actual energy 11 costs that Empire has incurred during the six-month period September 2013 12 through February 2014. This six-month period is an Accumulation Period specified 13 in Empire's FAC tariff that was approved by the Missouri Public Service 14 15 Commission ("Commission") in its Report and Order issued in Case No. ER-2012-0345. 16

- **EXECUTIVE SUMMARY** 17
- 18

PLEASE PROVIDE AN OVERVIEW OF YOUR TESTIMONY IN Q. 19

SUPPORT OF THE FAC RATE SCHEDULES FILED BY EMPIRE. 20

The Commission's rule governing fuel and purchased power cost recovery 21 A. mechanisms for electric utilities - specifically 4 CSR 240-20.090(4) - requires 22 23 Empire to make periodic FAC filings that are designed to enable Commission

review of the actual fuel costs, purchased power costs, cost of consumables 1 associated with the power plants' air quality control system ("AQCS"), net cost of 2 emission allowances, revenue from the sale of renewable energy credits ("REC") 3 and off-system sales margins (collectively referred to as total energy costs) that the 4 Company has incurred during an Accumulation Period. In addition, these periodic 5 6 filings are designed to adjust the FAC rates up or down, to reflect the actual energy costs incurred during the Accumulation Period. Empire's FAC tariff calls for two 7 annual filings: a filing covering the six-month Accumulation Period running from 8 September through February and a second filing covering the Accumulation Period 9 running from March through August. Any increases or decreases in rates that are 10 approved by the Commission, or that take effect by operation of law, are then 11 collected from or refunded to customers over two six-month Recovery Periods: 12 June through November and December through May. 13

Since the implementation of Empire's FAC, the variable cost of fuel and purchased 14 15 power used by the Company's Missouri customers has varied from the base fuel and energy cost established in rates. For the Accumulation Period September 2013 16 17 through February 2014, Empire's actual total energy costs eligible for the FAC have been higher than the base energy costs included in the Company's Missouri rates by 18 approximately \$4,064,779. In accordance with the FAC tariff, Empire has absorbed 19 5% of the overall increase in Missouri variable energy costs during that six-month 20 period. Therefore, in accordance with the Commission's FAC rule and Empire's 21 approved FAC tariff, the Company has filed FAC rate schedules that are designed 22 to recover 95 percent of the energy cost differences of approximately \$3,861,540 23

1 from its Missouri jurisdictional customers.

In addition, Empire also seeks to refund approximately \$231,336, which is further described in the true-up testimony that is provided in a separate filing, of overrecovered energy costs from the prior recovery period ending November 30, 2013. This brings the total net recovery sought by the Company to approximately \$3,629,875 including interest. This total represents the Fuel and Purchased Power Adjustment ("FPA").

As reflected in the rate schedules filed by the Company, Empire has developed two 8 Fuel Adjustment Rates ("FAR") designed to recover the FPA, each of which is 9 based on forecasted retail Missouri sales over the next Recovery Period: a FAR of 10 \$0.00170 per kilowatt-hour (kWh) for primary service, and a FAR of \$0.00173 per 11 kWh for secondary service have been developed for this filing. These FARs will 12 enable Empire to recover over a Recovery Period ending November 2014 the 13 difference between base energy costs built into its rates and the total energy costs 14 15 that were actually incurred during the Accumulation Period and the true-up of fuel and energy costs during the Recovery Period ended November 30, 2013. 16

17 Q. DOES THE EMPIRE FAC TARIFF INCLUDE PROVISIONS THAT ARE

DESIGNED TO LIMIT EMPIRE'S FAC RECOVERYS TO THE ACTUAL COST OF ENERGY?

A. Yes. The Empire FAC and the Commission's rule governing FACs include two safeguards that limit FAC recovery to actual, prudently-incurred energy costs. The first safeguard is a true-up process that ensures that the FAC collections during the Recovery Period do not exceed actual energy costs incurred during the

Accumulation Period. The second safeguard involves a requirement that Empire's energy costs be subjected to periodic Prudence Reviews, which will ensure that only prudently-incurred energy costs are passed through to customers using the FAC. Empire's operation of the FAC has been audited by the Commission's staff through February 28, 2013 and no disallowances have been recommended.

6 THE PROPOSED FAC RATE ADJUSTMENT

7 Q. WHY HAS EMPIRE FILED FAC-RELATED RATE SCHEDULES AT THIS 8 TIME?

The Commission's rules – specifically 4 CSR 240-20.090(4) – and Empire's FAC A. 9 tariff require the Company to make periodic FAC filings that enable the 10 Commission to review Empire's actual fuel, purchased power, AQCS costs, off-11 system sales, REC revenue, and net costs of emissions allowances so that Empire's 12 FAC rates can be adjusted to reflect the actual energy costs the Company incurs to 13 provide electric service to its Missouri customers. Empire's Missouri FAC tariff 14 15 calls for two FAC adjustment filings per year: a filing covering the six-month Accumulation Period running from September through February and a second filing 16 17 covering the Accumulation Period running from March through August. Empire is seeking an increase in its FAC rates to reflect 95% of the difference between the 18 base energy costs built into its base Missouri rates and Empire's actual Missouri 19 energy costs for the Accumulation Period, plus a true-up of the costs recovered 20 during the Recovery Period ending November 30, 2013. This recovery via FAC 21 rates will be reflected on the Missouri customers' bills over the six-month Recovery 22 23 Period running from June 2014 through November 2014.

Q. HOW HAVE EMPIRE'S AVERAGE ENERGY COSTS CHANGED OVER
 THE COST INCLUDED IN BASE RATES DURING THE
 ACCUMULATION PERIOD?

Empire's average energy costs per kWh have increased above the level built into its 4 A. base electric rates, which is why the FAC rate schedules filed by the Company seek 5 6 an increase in the rates charged to the Missouri customers. More specifically, 7 Empire's Missouri base rates included an average cost of energy per kWh of net system production of \$0.02831 during the Accumulation Period of September 2013 8 9 through February 2014. Empire actually incurred average energy costs of \$0.03007 10 per kWh during the Accumulation Period. This represents an overall increase in average energy costs of \$0.00176 per kWh during the Accumulation Period, or 11 12 about 6.22 percent higher than the average cost built into base rates. Pursuant to Empire's FAC tariff, Empire is requesting to recover from its Missouri customers 13 the net of 95 percent of this cost increase minus approximately \$231,336 of over 14 15 recovered energy cost and \$(329.32) of interest expense from the Recovery Period ending November 30, 2013, or an average of \$0.00162 per kWh sold during the 16 17 upcoming Recovery Period.

Q. PLEASE BRIEFLY DESCRIBE THE REASONS FOR THE INCREASE IN THE AVERAGE ENERGY COST DURING THE ACCUMULATION PERIOD?

A. As previously noted, the average total energy cost for the period was 6.22 percent
higher than the base. The accumulation period (September 2013 – February 2014),
was much colder than normal. For example, based on heating-degree-days

("HDD"), December 2013 was the second coldest December in the past decade;
January 2014 was the second coldest January in the past decade and third coldest
January of the past 25 years; and February 2014 was the second coldest February in
the past 26 years. The colder than normal weather increased the level of higher cost
peaking generation needed to meet the demands of customers. Increased natural
gas-fired peaking generation due to the cold weather also contributed to higher than
anticipated natural gas prices and spot market purchase prices.

8 Q. HOW DOES THE MONTHLY FAC CHANGE FOR A TYPICAL 9 RESIDENTIAL CUSTOMER?

A. For Missouri residential customers using 1,000 kWh per month, the electric bill will increase by approximately \$1.49 per month over the six-month period June 2014 through November 2014, when the current FAC charge of \$0.00173 is applied to their bill and the previous FAC recovery factor of \$0.00024 is eliminated from their bill.

15 Q. DID THE AVERAGE ENERGY COST VARY FROM EXPECTATIONS?

A. Yes, the actual total energy cost per megawatt-hour was above the Company budget
 by approximately 13.67 percent; primarily due to higher natural gas and spot
 purchase prices and the previously mentioned much colder than normal winter
 weather during the Accumulation Period.

20 Q. DO YOU EXPECT THE AVERAGE ENERGY COSTS ELIGIBLE FOR

THE FAC TO BE HIGHER OR LOWER THAN THE BASE DURING THE
 NEXT ACCUMULATION PERIOD FROM MARCH 2014 THROUGH
 AUGUST 2014?

A. Based on the current budget, we expect the total energy costs eligible for the FAC 1 to be about 3.57% higher than the base. The period in question, March 2014 2 through August 2014, contains the spring and summer months, so this period has 3 the potential for a higher average cost per megawatt-hour than what would be 4 expected for an annual average cost per megawatt-hour. The current budget, which 5 assumes normal weather, anticipates average energy costs eligible for the FAC to 6 7 be higher than the current FAC base of \$28.31 per megawatt-hour during the next Accumulation Period. 8

9 Q. DO YOU BELIEVE EMPIRE'S FUEL ADJUSTMENT CLAUSE IS 10 REASONABLE AND APPROPRIATE?

Yes. The design of the Commission's rule governing the FAC was the subject of 11 Α. much discussion and debate prior to being approved by the Commission. 12 In addition, there was much discussion and debate concerning Empire's FAC tariff in 13 Case No. ER-2008-0093. This was the case in which the Commission ultimately 14 15 approved Empire's initial FAC tariff. Additional discussions have occurred in subsequent cases. Empire's FAC filing is being made in accordance with the 16 17 Commission's rules governing the FAC and in accordance with the FAC tariff approved for Empire. 18

19 Q. PLEASE DESCRIBE HOW EMPIRE IS PROPOSING TO COLLECT THE

20 ENERGY COST INCREASES EXPERIENCED DURING THE 21 SEPTEMBER 2013-FEBRUARY 2014 ACCUMULATION PERIOD?

A. The FAC rate schedule filed by Empire will collect the energy cost increase actually
 incurred during the Accumulation Period by applying the positive Fuel Adjustment

Rate or FAR of \$0.00170 for primary and \$0.00173 for secondary service to the 1 actual Missouri retail kWh sales that take place during the June 1, 2014 to 2 November 30, 2014 Recovery Period. The proposed FARs were calculated in 3 accordance with Empire's authorized FAC tariff. I have attached to my testimony, 4 as Schedule TWT-2, a copy of one of Empire's approved FAC tariff sheets. In 5 6 addition to the tariff sheet, I have included as page 2 of Schedule TWT-2 a monthly analysis of the energy costs and energy cost recovery that has taken place during the 7 Accumulation Period. Schedule TWT-2 contains the basic information and FAC 8 formula that Empire used to calculate the FARs that have been included in the 9 proposed revised FAC rate schedule sheet 17e. The Empire FAC tariff and the 10 formula included therein were approved by the Commission in Case No. ER-2012-11 0345. 12

Q. HOW WERE THE VARIOUS VALUES USED TO DETERMINE THE PROPOSED FARS THAT ARE SHOWN ON SCHEDULE TWT-2 DEVELOPED?

The data upon which Empire based the values for each of the variables in the 16 A. 17 approved FAR formula are included on the schedule, and came from Empire's books and records. Schedule TWT-2 contains all of the basic information that is 18 required to calculate the proposed change in the FAR. In addition, I have filed the 19 detailed information required by 4 CSR 240-3.161(7) (A) with this testimony as a 20 separate set of supporting workpapers. Additional information about the true-up 21 amount was filed concurrently in a separate docket. In addition, as required by 4 22 23 CSR 240-3.161(7) (B), I have separately provided to all parties of record in Case

Nos. ER-2008-0093, ER-2010-0130, ER-2011-0004 and ER-2012-0345 with a set
 of these workpapers.

3 Q. IS EMPIRE IN COMPLIANCE WITH THE PROVISIONS OF THE 4 COMMISSION'S FAC RULE CONCERNING PERIODIC REPORTING 5 AND SURVEILANCE?

A. Yes. Empire has complied with all of the Commission's rules, 4 CSR 240-3.161(5)
and (6), governing periodic reports and surveillance using the Commission's
electronic filing system and provided all of the parties to ER-2008-0093, ER-20100130, ER-2011-0004, and ER-2012-0345 with copies of the periodic compliance
reports and copies of surveillance reports at the same time they were filed with the
Commission.

IF FAC SHEET 17e IS APPROVED BY THE COMMISSION, WHAT **O**. 12 SAFEGUARDS EXIST TO ENSURE THAT THE FAC REVENUE 13 COLLECTED BY EMPIRE DOES NOT EXCEED THE ACTUAL TOTAL 14 15 **ENERGY** COST **INCURRED** BY **EMPIRE** DURING THE **ACCUMULATION PERIOD?** 16

A. As I mentioned earlier, Empire's FAC and the Commission's rules provide two mechanisms designed to limit the FAC amounts collected from customers to Empire's actual, prudently-incurred energy costs. First, at the end of each Recovery Period the Company is required to true-up the amounts collected from customers through the FAR with the total energy costs that were actually incurred during the Accumulation Period to which the FAR applies. In addition, Empire's energy costs will be subjected to periodic Prudence Reviews to ensure that only prudentlyincurred energy costs are collected from customers through the FAC. These two
 mechanisms serve as checks that ensure that Empire's Missouri customers pay only
 the prudently-incurred, actual cost of energy used to provide electric service in
 Missouri (less the 5% Empire absorbs or retains) – no more and no less.

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Q. WHAT ACTION IS EMPIRE REQUESTING FROM THE COMMISSION WITH RESPECT TO THE FAC RATE SCHEDULE THAT THE COMPANY HAS FILED?

As provided by 4 CSR 240-20.090(4), Staff has thirty (30) days from the date the 8 Α. FAC rate schedule is filed to conduct a review and to make a recommendation to 9 the Commission as to whether the rate schedule complies with the Commission's 10 FAC rules, the requirements of Section 386.266, RSMo, and Empire's approved 11 FAC. The Commission has sixty (60) days from the date of Empire's filing to 12 either approve the rate schedule or to allow it to take effect by operation of law. 13 Empire believes its FAC filing satisfies all of the requirements of applicable 14 15 statutes, the Commission's rules, and Empire's approved FAC. Empire requests that, following Staff's review, the Commission approve revised FAC sheet 17e to 16 be effective as of June 1, 2014, which is the first day of the Recovery Period 17 prescribed in Empire's FAC tariff. 18

19 Q. IS EMPIRE REQUESTING ANY OTHER CHANGES TO THE FAC 20 TARIFF AT THIS TIME?

A. No other changes to the FAC tariff sheets are being requested at this time.

22 Q. DOES THIS CONCLUDE YOUR TESTIMONY AT THIS TIME?

23 A. Yes, it does.

Cases with Filed Written Testimony of Todd W. Tarter

Before the Missouri Public Service Commission

<u>Rate Cases</u>

ER-2006-0315, ER-2008-0093, ER-2010-0130, ER-2011-0004, ER-2012-0345

• Fuel Adjustment Cases

ER-2011-0320, ER-2012-0098, ER-2012-0326, ER-2013-0122, ER-2013-0442, ER-2014-0087

• Fuel Adjustment True-Up

EO-2014-0088

Before the Kansas Corporation Commission

• <u>Rate Docket</u>

05-EPDE-980-RTS

Energy Cost Adjustment ACA Docket

KS-12-EPDE-392-ACA, KS-13-EPDE-385-ACA

Before the Oklahoma Corporation Commission

<u>Rate Cause</u>

PUD 201100082

• Fuel Prudence Review Causes

PUD 201100131, PUD 201200170, PUD 201300131

• Energy Efficiency Cause

PUD 201300142, PUD 201300203

Before the Arkansas Public Service Commission

• Energy Efficiency Docket

07-076-TF

<u>Net Metering Docket</u>

12-060-R

<u>Rate Docket</u>

13-11-U

THE EMPIRE DISTRICT ELECTRIC COMPANY					SCHEDULE TWT-2 PAGE 1 OF 2	
P.S.C. Mo. No.	5	Sec.	4	4th	Revised Sheet No. 17e	
Canceling P.S.C. Mo. No	5	Sec.	4	<u>3rd</u>	Revised Sheet No. <u>17e</u>	

For <u>ALL TERRITORY</u>

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE	
RIDER FAC	
For service on and after April 1, 2013	

	Accumulation Period Ending		Feb 28, 2014
1	Total Energy Cost (TEC) = (FC+PP+E-OSSR-REC)		83,236,791
2	Net Base Energy Cost (B)	-	78,366,213
	2.1 Base Factor (BF)		0.02831
	2.2 Accumulation Period NSI (S _{AP})		2,768,146,000
3	(TEC-B)		4,870,578
4	Missouri Energy Ratio (J)	*	83.46%
5	(TEC-B)*J		4,064,779
6	Fuel Cost Recovery	*	95.00%
7	(TEC-B)*J*0.95		3,861,540
8	True-Up Amount (T)	+	(231,336)
9	Prudence Adjustment Amount (P)	+	
10	Interest (I)	+	(329)
11	Fuel and Purchased Power Adjustment (FPA)	=	3,629,875
12	Forecasted Missouri NSI (S _{RP})	÷	2,233,896,883
13	Current Period Fuel Adjustment Rate (FAR) to be applied Beginning 06-01-2014	П	0.00162
14	Current Period FAR _{PRIM} = FAR x VAF _{PRIM}		0.00170
15	Current Period FAR _{SEC} = FAR x VAF _{SEC}		0.00173
16	VAF _{PRIM} = 1.0466		1.0466
17	VAF _{SEC} = 1.0622		1.0622

DATE EFFECTIVE June 1, 2014

SCHEDULE TWT-2 PAGE 2 OF 2

The Empire District Electric Company Fuel Adjustment Clause Cost Adjustment Factor Calculation Esimated Recovery Impact on Customer

Forecasted MO Retail NSI for Recovery Period	2,233,896,883		
Fuel Adjustment Clause	\$	3,629,875	
Cost Adjustment Factor	\$	0.00162	
Secondary Expansion Factor		1.06860	
FAC Factor		0.00174	
Impact on Customer Using 1000 kWh/Mo			
Monthly Impact	\$	1.74	
Annual Impact	\$	20.88	

	Mwh Sa	les			
<u>Month</u>	Missouri	Total Co	NSI	Monthly Loss	MO %
Jun-14	356,716	437,573	469,931	6.89%	81.52%
Jul-14	413,624	502,678	540,098	6.93%	82.28%
Aug-14	405,115	496,131	532,349	6.80%	81.65%
Sep-14	314,925	385,983	414,438	6.87%	81.59%
Oct-14	284,963	350,693	376,462	6.85%	81.26%
Nov-14	305,243	370,668	397,886	6.84%	82.35%
Total	2,080,586	2,543,726	2,731,164	6.86%	81.79%
Missouri Ratio/NSI	81.79%		2,233,896,883	kwh	

Annual Loss Factor 6.86%

AFFIDAVIT OF TODD W. TARTER

STATE OF MISSOURI)) ss COUNTY OF JASPER)

On the _____ day of April 2014, before me appeared Todd W. Tarter, to me personally known, who, being by me first duly sworn, states that he is Manager of Strategic Planning of The Empire District Electric Company and acknowledges that he has read the above and foregoing document and believes that the statements therein are true and correct to the best of his information, knowledge and belief.

17

Todd W. Tarter

Subscribed and sworn to before me this _____ day of April, 2014.

ANGELA M. CLOVEN Notary Public - Notary Seal State of Missouri Commissioned for Jasper County My Commission Expires: November 01, 2015 Commission Number: 11262659

MA in

My commission expires:

Notary Public