FILED August 11, 2016 Data Center Missouri Public Service Commission

Exhibit No. Issues: Transmission Revenue and Expense; Net Base Fuel Cost Witness: Aaron J. Doll Type of Exhibit: Direct Testimony Sponsoring Party: Empire District Electric Case No. ER-2016-0023 Date Testimony Prepared: October 2015

Before the Public Service Commission of the State of Missouri

Direct Testimony

of

Aaron J. Doll

October 2015



Empire Exhibit No. 3 Date 6.215 Reporter KKE File No. ER-2016 - 0023



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DIRECT TESTIMONY OF AARON J. DOLL ON BEHALF OF THE EMPIRE DISTRICT ELECTRIC COMPANY BEFORE THE MISSOURI PUBLIC SERVICE COMMISSION CASE NO. ER-2016-0023

1 INTRODUCTION

2 Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.

A. Aaron J. Doll. I am the Manager of Market Settlements and Systems for The Empire
District Electric Company ("Empire" or "Company"). My business address is 602
South Joplin Avenue, Joplin, Missouri.

6 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL 7 BACKGROUND.

A. I graduated from Missouri State University in 2003 with a Bachelor of Science
Degree in Psychology and a Minor in Philosophy. Additionally, I received my
Masters of Business Administration from Missouri State University in 2008. I have
worked for Empire for eight and a half years, formerly in the Planning and
Regulatory Department and currently in the Supply Management Department.

13 Q. WHAT ARE YOUR PRIMARY DUTIES AT EMPIRE?

A. I am in charge of the accounting/settlement and informational technology (IT) areas
in the Supply Management department. My primary responsibility has evolved from
preparing the operations, accounting, and information technology for the Southwest
Power Pool ("SPP") Integrated Marketplace ("IM") to managing the back-office
functions and ensuring that the information systems used in daily operations are
functional and efficient. The back office functions involve verifying and submitting

1	meter data, FERC reporting, transmission service request renewal, and the
2	distribution of various internal reports relating to fuel, natural gas procurement,
3	transmission, etc. I have additional responsibilities that include the budgeting of
4	transmission revenue and expense, as well as the monthly accounting and reporting of
5	transmission invoices and variances. The information technology functions involve
6	the implementation and maintenance of the Power Costs Inc. software application,
7	system administration, and system hardware maintenance.

8 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE MISSOURI PUBLIC 9 SERVICE COMMISSION ("COMMISSION")?

10 Yes, I testified on behalf of Empire on the topic of weather and rate normalization in Α. 11 Commission Case Nos. ER-2010-0130 and ER-2011-0004, and on the topic of the 12 SPP IM and annualized transmission revenue and expense in Case No. ER-2014-13 0351. I testified on behalf of The Empire District Gas Company in Case No. GR-14 2009-0434, on the topic of weather normalization. I have also testified before the Arkansas Public Service Commission on behalf of Empire in Docket No. 10-052-U, 15 16 on the topic of weather normalization, and in Docket 07-076-TF, on the topic of 17 Empire's 2012 Energy Efficiency Cost Recovery ("EECR") Tariff. I have also 18 testified on behalf of Empire in the state of Oklahoma in Cause No. PUD 201100082, 19 on the topic of weather normalization.

20

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY THIS CASE?

A. I will address the annualization of transmission revenue and expense and the level of
transmission revenue and expense included in the net base fuel cost ("NBFC").
Additionally, I will be supporting the amount of Transmission Congestion Rights
("TCR") and Auction Revenue Rights ("ARR") that are included in the NBFC.

1 TRANSMISSION REVENUE AND EXPENSE

2 Q. WHAT IS THE EXPECTED LEVEL OF ANNUALIZED TRANSMISSION 3 REVENUE AND EXPENSE YOU ARE SUPPORTING?

4 A. My workpapers support \$18,618,125 in annualized transmission expense and
\$7,567,828 in annualized transmission revenue on a total company basis.

6 Q. WHAT METHOD DID YOU USE TO ANNUALIZE TRANSMISSION 7 REVENUE AND EXPENSE?

A. To the extent that I had the necessary data to forecast any expected changes from
historical levels, I forecasted the anticipated level of increase/decrease for each
charge. If the charges were unable to be forecast due to a lack of supporting data, I
used a 7+5 method, which entails using seven months of actual data (January 2015 –
July 2015) and then averaged the remaining months (August 2015 – December 2015)
from the seven prior months.

14 Q. WHAT DATA SOURCE DID YOU USE TO FORECAST TRANSMISSION 15 CHARGES REFERENCED IN THE OUESTION ABOVE?

- A. I used data from the SPP-produced semi-annual Annual Transmission Revenue
 Requirement (ATRR) Cost Allocation Forecast to forecast Empire's expected
 transmission expense by charge type. The SPP forecast estimates the cost impacts of
 additions and upgrades in SPP from 2006 through 2021. The estimation includes the
 impacts of base plan funded (BPF) projects and balanced portfolio projects (regional
 and zonal), as well as associated annual depreciation, transmission owners net plant
 carrying charge (NBCC), updated load ratio share (LRS), etc.
- 23 <u>NET BASE FUEL COST</u>

3

1	Q.	WHAT LEVEL OF TRANSMISSION REVENUE AND EXPENSE ARE YOU	
2		PROPOSING TO INCLUDE IN THE NBFC CALCULATION?	
3	A.	At this time, Empire is proposing to include \$5,861,084 of transmission expense and	
4		no transmission revenue. The figure reflects 50% of the expected MISO transmission	
5		expense and 34% of the expected SPP transmission expense, exclusive of Schedule	
6		1A SPP administration and Schedule 12 FERC administration, through February	
7		2016.	
8	Q.	WHAT IS THE ORIGIN OF THE ALLOCATIONS (34% SPP & 50% MISO)?	
9	A.	The allocations were agreed to by the parties in Empire's recently completed general	
10		rate case, Case No. ER-2014-0351, and were approved by the Commission in that	
11		case. These allocations have been applied by Empire for recovery of transmission	
12		expense since rates resulting from Case No. ER-2014-0351 took effect. The data	
13		used in the calculations was updated through July 2015 to reflect a larger sample of	
14		figures from the SPP IM and to ensure the allocators were still commensurate. The	
15		inclusion of certain transmission expense, but no transmission revenue, was also	
16		agreed to by the parties and approved by the Commission in Case No. ER-2014-0351.	
17	7 TRANSMISSION CONGESTION RIGHTS/ AUCTION REVENUE RIGHTS		
18	Q.	WHAT ARE TRANSMISSION CONGESTION RIGHTS AND AUCTION	
19		REVENUE RIGHTS?	
20	A.	In the SPP IM, Transmission Congestion Rights (TCR) have replaced the use of	
21		energy and native load schedules as congestion hedges. TCR are financial	
22		instruments, defined along a nodal path with a source location and sink location that	
23		entitle the owner to a stream of hourly revenues or charges based on the difference in	
24		day-ahead (DA) marginal congestion costs (MCC) along that path. TCR are either	

1		seasonal or monthly in duration and can be on-peak and/or off-peak products. A TCR
2		may either be purchased during a TCR auction (annual/monthly) or may be self-
3		converted from an Auction Revenue Right (ARR). Owners of confirmed physical
4		firm transmission rights are entitled to candidate ARR's which can then be nominated
5		for allocation during an ARR allocation (annual/monthly). If a candidate ARR is
6		nominated for allocation and the allocation is granted, the holder may now either hold
7		the ARR, in which case they would be entitled to any charges or revenues resulting
8		from the auction clearing prices during a TCR auction or may attempt to self-convert
9		the ARR into a TCR.
10	Q.	WHAT AMOUNT OF ARR & TCR REVENUE IS INCLUDED IN THE
11		PROPOSED NBFC FOR THIS CASE?
12	A.	The amount of ARR/TCR revenue included in the proposed NBFC for this case is
13		\$3,494,681.
14	Q.	HOW DID YOU ARRIVE AT THIS FIGURE?
15		
	A.	The figure is a function of estimated volumes and estimated prices rooted in historical
16	A.	The figure is a function of estimated volumes and estimated prices rooted in historical values. The volume of TCR's used to calculate the total ARR/TCR revenue to be
	A.	
16	A.	values. The volume of TCR's used to calculate the total ARR/TCR revenue to be
16 17	A.	values. The volume of TCR's used to calculate the total ARR/TCR revenue to be included in NBFC are from Empire's internal 2016 budget process which used actual
16 17 18	A.	values. The volume of TCR's used to calculate the total ARR/TCR revenue to be included in NBFC are from Empire's internal 2016 budget process which used actual volumes from the SPP 2015/2016 Annual TCR Auction. However, because the
16 17 18 19	A.	values. The volume of TCR's used to calculate the total ARR/TCR revenue to be included in NBFC are from Empire's internal 2016 budget process which used actual volumes from the SPP 2015/2016 Annual TCR Auction. However, because the auction spanned from June 1, 2015 through May 31, 2016, the same volumes
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16 17 18 19 20 21	A.	values. The volume of TCR's used to calculate the total ARR/TCR revenue to be included in NBFC are from Empire's internal 2016 budget process which used actual volumes from the SPP 2015/2016 Annual TCR Auction. However, because the auction spanned from June 1, 2015 through May 31, 2016, the same volumes procured for June 1, 2015 through December 31, 2015 were used as a proxy for the same period in 2016. Regarding the auction clearing prices (ACP) used to calculated

1	same time period in 2016. The aforementioned 20% reduction in ACP was used to
2	reflect a lessening of congestion due to the continued development of the bulk
3	transmission system in SPP.

4 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

5 A. Yes.

AFFIDAVIT OF AARON J. DOLL

STATE OF MISSOURI)) ss COUNTY OF JASPER)

On the <u>14th</u> day of October, 2015, before me appeared Aaron J. Doll, to me personally known, who, being by me first duly sworn, states that he is Manager of Market Settlements & Systems 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.

Aaron J. Doll

Subscribed and sworn to before me this <u>14th</u> day of October, 2015.

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

Notary Public

01/2015 My commission expires: