Exhibit No.: 27

Issues: Lead-Lag Study, Cash Working

Capital Requirement Witness: Timothy S. Lyons

Type of Exhibit: Rebuttal Testimony Sponsoring Party: The Empire District

Electric Company

Case No.: ER-2019-0374

Testimony Prepared: March 2020

## Before the Public Service Commission of the State of Missouri

**Rebuttal Testimony** 

of

Timothy S. Lyons

on Behalf of

The Empire District Electric Company a Liberty Utilities Company

**March 2020** 



## TIMOTHY S. LYONS REBUTTAL TESTIMONY

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# REBUTTAL TESTIMONY OF TIMOTHY S. LYONS ON BEHALF OF THE EMPIRE DISTRICT ELECTRIC COMPANY BEFORE THE MISSOURI PUBLIC SERVICE COMMISSION

#### 1 I. INTRODUCTION

- 2 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 3 A. My name is Timothy S. Lyons. My business address is 1900 West Park Drive, Suite 250,
- 4 Westborough, Massachusetts, 01581.
- 5 Q. ARE YOU THE SAME TIMOTHY S. LYONS WHO PREVIOUSLY
- 6 SPONSORED DIRECT TESTIMONY IN THIS PROCEEDING?
- 7 A. Yes, I am. I provided direct testimony before the Missouri Public Service Commission
- 8 (the "Commission") on behalf of The Empire District Electric Company, a Liberty
- 9 Utilities company ("Liberty-Empire" or the "Company").

#### 10 II. PURPOSE OF TESTIMONY

- 11 Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
- 12 A. The purpose of this rebuttal testimony is to address recommendations by the Staff of the
- 13 Commission ("Staff") in their cost of service report related to the Company's proposed
- 14 Cash Working Capital ("CWC") requirement. In addition, this rebuttal testimony will
- address recommendations by John S. Riley on behalf of the Office of the Public Counsel
- 16 ("OPC") in his direct testimony related to the Company's proposed CWC requirement.
- 17 Q. HAVE YOU PREPARED SCHEDULES TO SUPPORT THIS TESTIMONY?

- 1 A. Yes. Rebuttal Schedule TSL-R1 supports this rebuttal testimony. The Schedule was
  2 prepared by me or under my direction.
- 3 III. <u>SUMMARY OF STAFF'S AND OPC'S RECOMMENDATIONS</u>
- 4 Q. PLEASE SUMMARIZE STAFF'S RECOMMENDATIONS RELATED TO THE
- 5 **COMPANY'S PROPOSED LEAD-LAG STUDY.**

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- 6 A. Staff recommends the following changes to the Company's lead-lag study:
- 1. Revise lead days associated with several expenses, including fuel payments, taxes other than income, cash vouchers and interest payments.<sup>1</sup>
  - 2. Measure separately the lead days associated with three expenses that were contained in the Company's lead-lag study but included in other expense categories. The expenses are vacation pay and incentive compensation (which were included in the Company's lead-lag study under payroll expense) and bad debt expense (which was included in the Company's lead-lag study under other O&M expenses).
  - Measure separately lead days associated with two expenses that were not included in the Company's lead-lag study. The expenses are Missouri Gross Receipts Tax ("GRT") and sales tax.
- 17 Q. PLEASE SUMMARIZE OPC'S RECOMMENDATIONS RELATED TO THE
  18 COMPANY'S PROPOSED LEAD-LAG STUDY.
- A. OPC recommends an increase in the lead days associated with federal income taxes from 37.00 days to 365.00 lead days. OPC's rationale is that since the Company has not

<sup>&</sup>lt;sup>1</sup> The Company's lead-lag study includes "Other Non-Labor O&M expenses" which Staff refers to as "Cash Vouchers".

submitted federal income taxes in at least four years, the higher lead days reflect money
that the Company received from customers for an expense that was never paid.<sup>2</sup>

## 3 IV. SUMMARY OF THE COMPANY'S RESPONSE TO STAFF'S AND OPC'S

#### 4 **RECOMMENDATIONS**

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# 5 Q. PLEASE SUMMARIZE THE COMPANY'S RESPONSE TO STAFF'S RECOMMENDATIONS.

- 7 A. The Company's response is summarized below.
  - 1. The Company does not oppose Staff's recommendation to change the lead days on the expenses in the Company's lead-lag study, except cash vouchers. The proposed changes largely reflect more recent data as well as additional payment information that helps to better define the service periods. In addition, the Company's study was based on data for the period July 1, 2017 through June 30, 2018, while Staff's study was based on data for the period April 1, 2018 through March 31, 2019.
  - 2. The Company does not oppose Staff's recommendation to measure separately lead days associated with vacation pay, incentive compensation and bad debt. The added expenses represent a level of granularity not included in the Company's prior lead-lag study; however, similar items have been included in other lead-lag studies in the industry. The Company does oppose the proposed lead days for vacation pay and the "zero" revenue lag for bad debt, as discussed below.<sup>3</sup>
  - 3. The Company does not oppose Staff's recommendations to measure separately lead days associated with the GRT and sales tax. The added expenses represent a level of

<sup>&</sup>lt;sup>2</sup> Direct Testimony of John S. Riley on behalf of OPC, pg. 6.

<sup>&</sup>lt;sup>3</sup> Missouri Public Service Commission Staff Report on the Cost of Service, pg. 20.

granularity not included in the Company's prior lead-lag study; however, similar items have been included in other lead-lag studies in the industry. The Company does not oppose Staff's recommended lead days.<sup>4</sup>

# 4 Q. PLEASE SUMMARIZE THE COMPANY'S RESPONSE TO OPC'S 5 RECOMMENDATIONS.

The Company opposes OPC's recommendation. First, the Company's lead-lag study reflects lead days consistent with payment due dates in Internal Revenue Service ("IRS") Publication 502. Payments are due on the 15<sup>th</sup> day of the 4<sup>th</sup>, 6<sup>th</sup>, 9<sup>th</sup> and 12<sup>th</sup> months of the corporation's year.<sup>5</sup> Based on the Company's fiscal year ending December 31, the estimated payments are due on April 15, June 15, September 15 and December 15. OPC's recommendation to increase the lead days to 365.00 days is inconsistent with the IRS's payment schedule.

Second, if the Commission determines in this rate case proceeding that the Company has no income tax expense, then the Company's lead days would be applied to a "zero" expense resulting in no cash working capital requirement. If, on the other hand, the Commission determines in this rate case proceeding that the Company has income tax expenses, then the Company's lead days for income tax expenses would be applied to the approved level, consistent with the IRS's payment schedule.

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<sup>&</sup>lt;sup>4</sup> Ibid, pg. 20.

<sup>&</sup>lt;sup>5</sup> https://www.irs.gov/publications/p509

1	V.	THE COMPANY'S OPPOSITION TO CERTAIN OF STAFF'S AND OPC'S
2		RECOMMENDATIONS
3	Q.	PLEASE EXPLAIN THE COMPANY'S RATIONALE FOR USING DATA FROM
4		THE PERIOD JULY 1, 2017 THROUGH JUNE 30, 2018 FOR THE LEAD-LAG
5		STUDY.
6	A.	The Company's rationale for using data from the period July 1, 2017 through June 30,
7		2018 for the lead-lag study was to minimize rate case expenses. Specifically, the
8		Company wanted to utilize the same lead-lag study for its three rate case filings in
9		Kansas (December 2018), Oklahoma (March 2019) and Missouri (August 2019). The
10		period July 1, 2017 through June 30, 2018 was the test year for the Kansas rate case.
11		The Company's goal was to minimize rate case expense by using a single lead-lag
12		study for application to multiple rate case filings, since the Company's payment policies
13		and processes are generally consistent across the states. The only change to the lead-lag
14		study across the three states was the revenue lag, which reflected differences in customer
15		payment practices in each state.
16	Q.	WHY DOES THE COMPANY OPPOSE STAFF'S RECOMMENDATION TO
17		INCREASE THE LEAD DAYS ASSOCIATED WITH CASH VOUCHERS?
18	A.	The Company opposes Staff's recommendations to increase the lead days associated with
19		cash vouchers because it does not reflect a weighting of each stratum of the stratified
20		sample.
21		The Company's calculation of lead days associated with cash vouchers is based
22		on a stratified sample of invoices paid. The Company first calculates the lead days
23		associated with each stratum and then weights the lead days in each stratum by

proportion of total transactions in each stratum. Staff's calculation does not include the last step: a weighting of the lead days in each stratum by the proportion of the total transactions.

The cash working capital impact of this difference is significant. The Company's calculation produces 29.21 lead days while Staff's calculation produces 35.14 lead days.

The difference is largely related to three invoices within the Company's sample of 274 invoices. Specifically, there are three invoices in the highest stratum 5 (i.e., those invoices great than \$2,500) with an average lead day of 77.20 days, while the remaining 48 invoices in stratum 5 have an average day of 24.50.<sup>6</sup> The Company's approach to weight each stratum in proportion to the number of transactions addresses this variance.

If the Commission decides to use Staff's approach and remove the weight of each stratum, then the Company recommends removing the three invoices referenced above. They are outliers within the sample. Removing the three invoices does not jeopardized the confidence level in the sample size, since the Company needed only 260 invoices to produce a 95.0 percent confidence level, while the actual sample size is 274 invoices.

Removing the three invoices from stratum 5 reduces the lead days to 28.81 days, which is generally consistent with the Company's proposed lead lag study.

# Q. WHY DOES THE COMPANY OPPOSE STAFF'S RECOMMENDATION REGARDING LEAD DAYS ASSOCIATED WITH VACATION PAY?

A. The Company opposes Staff's recommendation regarding lead days associated with vacation pay because it is not consistent with how employees take vacation. Staff's

<sup>&</sup>lt;sup>6</sup> There are five strata in the stratified sampling process: Stratum 1 for invoices less than \$50.00; Stratum 2 for invoices between \$50.00 and \$150.00; Stratum 3 for invoices between \$150.00 and \$750.00; Stratum 4 for invoices between \$750.00 and \$2,500; and Stratum 5 for invoices over \$2,500.

approach assumes that employees wait a full year before taking their full allotment of vacation. That is, Staff's approach assumes employees receive their vacation allotment on January 1<sup>st</sup> and take their vacation on December 31<sup>st</sup>. The lead days associated with Staff's approach is 365.00 days.

A more traditional approach to lead days associated with vacation pay is to assume that employees take vacation uniformly throughout the year. That is, employees receive their vacation allotment on January 1<sup>st</sup> and take their vacation <u>by</u> December 31<sup>st</sup>. This approach assumes vacation is taken at the midpoint of the year rather than at the end of the year. The Company proposes the more traditional approach and proposes to use lead days associated with vacation pay of 182.50 days.

- Q. WHY DOES THE COMPANY OPPOSE STAFF'S RECOMMENDATION TO HAVE "ZERO" REVENUE LAG DAYS ASSOCIATED WITH BAD DEBT EXPENSES?
  - A. The Company opposes Staff's recommendation to have a "zero" revenue lag days associated with bad debt expenses since it does not reflect the collection lag from the time a customer bill is considered uncollectible and charged to bad debt expense to the time payment is received from customers. That is, there is a lag from the time the expense is recorded to the time payment is received from customers. This lag represents a cash working capital requirement that is not otherwise included in Staff's lead-lag study.
- Q. WHY DOES THE COMPANY OPPOSE OPC'S RECOMMENDATION
  REGARDING LEAD DAYS ASSOCIATED WITH INCOME TAX EXPENSES?

As noted previously, the Company opposes OPC's recommendation because it does not reflect the lead days associated with payment due dates in IRS Publication 502, and it does not reflect the Commission's determination of income tax expense in this rate case proceeding.

#### 5 VI. <u>CONCLUSION</u>

# 6 Q. PLEASE SUMMARIZE THE IMPACT OF THE COMPANY'S REBUTTAL 7 POSITION RELATIVE TO STAFF.

Figure 1 (below) compares the Company's rebuttal testimony to Staff's direct testimony regarding the cash working capital requirement. The Company's cash working capital requirement is based on the revised lead-lag days applied to Staff's test year expenses to produce an "illustrative" apples-to-apples comparison between the Company's rebuttal position and Staff's filed position. The illustrative, apples-to-apples comparison is meant only to compare the Company and Staff's cash working capital positions rather than represent the Company's rebuttal position regarding test year expense levels.

Figure 1: Comparison of Cash Working Capital Requirements

	Cash Working Capital Requirement		
Staff's Filed Position	\$	(2,438,165)	
Decrease vacation lead days	\$	783,483	
Add bad debt revenue lag	\$	216,514	
Decrease voucher payment lead days	\$	1,430,708	
Empire's Rebuttal Position	\$	(7,460)	

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## TIMOTHY S. LYONS REBUTTAL TESTIMONY

- Specifically, the Figure compares Staff's filed position of negative \$2.4 million with the

  Company's rebuttal position of negative \$7,460. The primary differences are: (1)

  decrease in lead days associated with vacation pay of \$0.8 million; (2) add revenue lag

  associated with bad debt expenses of \$0.2 million; and (3) decrease in lead days

  associated with voucher payments of \$1.4 million.
- 6 Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?
- 7 A. Yes, it does.

### **The Empire District Electric Company**

### **Cash Working Capital Requirement**

Line	Description	F	Revenue Requirement Amount	Average Amo	-	Revenue Lag	Expense Lead	Net (Lead)/Lag Days		orking Capital lequirement
	0 7 1111									
1	Operation and Maintenance Expenses	_	05 004 070		07.004	40.40	(40.00)	00.40	_	0.010.711
2	Payroll Expense	\$	35,624,278		97,601	42.13	(12.00)		\$	2,940,711
3	Federal Income Tax Withheld		20,164,615		55,246	42.13	(15.50)	26.63		1,471,188
4	State Income Tax Withheld		340,877		934	42.13	(20.06)			20,611
5	FICA Tax Withheld		3,141,159		8,606	42.13	(15.50)	26.63		229,176
6	Accrued Vacation		1,566,966		4,293	42.13	(182.50)			(602,616
7	Fuel - Coal		36,426,102		99,798	42.13	(25.11)			1,698,554
8	Fuel - Gas		40,664,865	1	11,411	42.13	(37.17)	4.96		552,597
9	Fuel - Purchased Oil		628,960		1,723	42.13	(21.47)	20.66	_	35,601
10	Purchased Power		40,778,894		11,723	42.13	(34.95)	7.18	\$	802,171
11	401K		6,481,406		17,757	42.13	(11.06)	31.07		551,719
12	Life Insurance and AD&D		155,165		425	42.13	(25.75)	16.38		6,963
13	Employers Healthcare/Dental/Vision		4,652,391		12,746	42.13	(11.29)			393,095
14	Pension and OPEB Expense		9,806,685		26,868	42.13	(60.75)	(18.62)		(500,275
15	PSC Assessment		903,545		2,475	42.13	25.50	67.63		167,416
16	Incentive Compensation		222,780		610	42.13	(290.50)	(248.37)		(151,594
17	Bad Debt Expense		1,875,800		5,139	42.13	0.00	42.13		216,514
18	Cash Vouchers		88,062,129	2	41,266	42.13	(29.21)	12.92	\$	3,117,158
19	Total O&M Expenses	\$	291,496,617	\$ 7	98,621				\$	10,948,987
20	Taxes Other Than Income Taxes									
21	FICA - Employer Portion	\$	3,141,159		8,606	42.13	(15.50)	26.63	\$	229,176
22	Federal Unemployment Taxes		19,919		55	42.13	(75.20)	(33.07)		(1,805
23	State Unemployment Taxes	\$	101,132		277	42.13	(75.20)	(33.07)		(9,163
24	MO Gross Receipts Tax		9.923.690		27.188	26.92	(16.90)	10.02		272,426
25	Property Tax	\$	18,610,532		50,988	42.13	(204.80			(8,294,179
26	Sales Tax		13,581,160		37,209	26.92	(4.53)	`22.39 ´		833,102
27	Total Taxes Other Than Income Taxes	\$	45,377,592		24,322				\$	(6,970,443
28	Tax Offset From Rate Base									
29	Federal Tax Offset	S	14,952,613		40.966	42.13	(39.38)	2.75	S	112,657
30	State Tax Offset	Ψ	2,655,275		7,275	42.13	(39.38)	2.75	Ψ	20,005
31	City Tax Offset	S	2,000,210		1,213	0.00	0.00	0.00	S	20,000
32	Interest Expense Offset	Ψ	30,692,389		84,089	42.13	(91.11)	(48.98)	Ψ	(4,118,666
33	Total Offset From Rate Base	\$	48,300,277		32,330	42.13	(31.11)	(40.30)	\$	(3,986,004
34	Total	S	385,174,486	\$ 1.0	55,273				S	(7,460

## AFFIDAVIT OF TIMOTHY S. LYONS

STATE OF VERMONT ) ss
)
On the 200 day of March 2020, before me appeared Timothy S. Lyons, to me personally known, who, being by me first duly sworn, states that he a partner at ScottMadden, Inc 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.
Thothy b. Lyons to
Timothy S. Lyons
Subscribed and sworn to before me this Z <sup>ND</sup> day of March 2020.
Notary Public
My commission expires: 0/3(/2o2/  Notary Public State of Vermont  Kevin Lemieux  Commission * No. 157.0008207 *  My Commission Expires January 31.2021