Exhibit No.:

Issue(s): Variable Fuel Expense Witness: Shawn E. Lange

Sponsoring Party: MoPSC Staff

Type of Exhibit: Surrebuttal / True-Up Direct

Testimony

Case No.: ER-2024-0261

Date Testimony Prepared: September 17, 2025

### MISSOURI PUBLIC SERVICE COMMISSION

# INDUSTRIAL ANALYSIS DIVISION

## ENGINEERING ANALYSIS DEPARTMENT

#### SURREBUTTAL / TRUE-UP DIRECT TESTIMONY

**OF** 

SHAWN E. LANGE, PE

THE EMPIRE DISTRICT ELECTRIC COMPANY, d/b/a Liberty

CASE NO. ER-2024-0261

Jefferson City, Missouri September 2025

1		SURREBUTTAL / TRUE-UP DIRECT TESTIMONY		
2		OF		
3		SHAWN E LANGE, PE		
4 5		THE EMPIRE DISTRICT ELECTRIC COMPANY, d/b/a Liberty		
6		CASE NO. ER-2024-0261		
7	Q.	Please state your name and business address.		
8	A.	My name is Shawn E. Lange, PE, and my business address is Missouri Public		
9	Service Commission, P.O. Box 360, Jefferson City, Missouri 65102.			
10	Q.	Are you the same Shawn E. Lange who filed direct in this case?		
11	A.	Yes, I am.		
12	Q.	What is the purpose of your surrebuttal / true-up direct testimony?		
13	A.	The purpose of my surrebuttal / true-up direct testimony is to discuss		
14	Mr. Tarter's	concerns on the production cost model Staff used as well as provide the variable		
15	fuel and pu	urchase power expense incorporating all known and measurable changes as		
16	of March 31	, 2025, as well as discuss any revisions from direct.		
17	SURREBU'	TTAL TESTIMONY		
18	Q.	In his Rebuttal Testimony, Mr. Tarter states:		
19		When reviewing the hourly data in Staff's workpapers,		
20		some negative market prices were observed. It appears that Staff's		
21		model may have the Company's resources generating energy during		
22		hours when prices are negative, even at a level where Company		
23 24		resources would be curtailed. The Company's model addresses this curtailment issue, but it is unclear if Staff's model does so as well.		
2 <del>4</del> 25		This is concerning, as showing units operating during times when		
26		they would not actually operate would have an unfavorable impact		
27		on market revenues.		
28		OT THRUTTER IN LAURANI		

O. Has Staff evaluated this concern?

A. While Mr. Tartar does not specifically identify the power plants or hours that he is referring to, there are times when power plants may generate at times of negative prices. For example, if power prices are briefly negative, it may be economical for a coal plant or certain configurations of combustion turbine generators to operate at a relatively high level because the prices before and after the period of negative pricing offset a brief period of negative pricing. Staff has reviewed all hours of negative pricing for the fossil units in its model, and has confirmed that generation has backed down in its model in hours of negative pricing. Another reason plants would generate during periods of negative pricing is if a wind farm is receiving a production tax credit ("PTC"). It may be economically reasonable for a utility to generate from a wind farm during negative pricing so long as the negative price is more than offset by the PTC value. Staff currently models renewable resources using normalized historic generation.<sup>1</sup>

#### TRUE-UP DIRECT TESTIMONY

Q. How have you revised your production model for true-up?

A. I have updated the time periods reflected in certain model assumptions to change the ending period from the update cut-off date, September 30, 2024, to the true-up cut-off date, March 31, 2025.

<sup>1</sup> Staff reviewed the SPP Day Ahead locational marginal prices with the actual generation on an hourly basis and found that there are hours that certain wind resources may generate when the day ahead locational marginal price is below that wind farm's variable cost.

- Q. What is the value of the variable fuel and purchase power expense?
- A. Staff calculates the variable fuel and purchased power expense for
- 3 Empire District Electric Company for known and measurable changes through the true-up
- 4 cut-off date of March 31, 2025, to be \$86,728,553.
- 5 Q. What is your recommendation?
- A. I recommend that the Commission adopt the updated variable fuel and purchase
- 7 power expense that Staff modeled.
- Q. Does this conclude your surrebuttal / true-up direct testimony?
- 9 A. Yes it does.

#### BEFORE THE PUBLIC SERVICE COMMISSION

#### OF THE STATE OF MISSOURI

In the Matter of the Request of The Empire	)	
District Electric Company d/b/a Liberty for	).	Case No. ER-2024-0261
Authority to File Tariffs Increasing Rates	)	
for Electric Service Provided to Customers	)	
in Its Missouri Service Area	)	

#### AFFIDAVIT OF SHAWN E. LANGE, PE

STATE OF MISSOURI	)	
	)	SS
COUNTY OF COLE	)	

COMES NOW SHAWN E. LANGE, PE and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Surrebuttal / True-Up Direct Testimony of Shawn E. Lange, PE; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

SHAWN E. LANGE, PE

#### **JURAT**

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this \_\_\_\_\_\_ day of September 2025.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: April 04, 2029
Commission Number: 12412070

Notary Public