Exhibit No.:

Issue(s): Tariff Issue/Fuel Adjustment Clause
Witness/Type of Exhibit: Mantle/Direct
Sponsoring Party: Public Counsel
Case No.: ER-2021-0312

RATE DESIGN DIRECT TESTIMONY

OF

LENA M. MANTLE

Submitted on Behalf of the Office of the Public Counsel

THE EMPIRE DISTRICT ELECTRIC COMPANY D/B/A LIBERTY

FILE NO. ER-2021-0312

November 17, 2021

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 Authority to File Tariffs)	Case No. ER-2021-0312
Increasing Rates for Electric Service)	
Provided to Customers in its Missouri)	
Service Area)	

AFFIDAVIT OF LENA M. MANTLE

STATE OF MISSOURI)	
)	S
COUNTY OF COLE)	

Lena M. Mantle, of lawful age and being first duly sworn, deposes and states:

- 1. My name is Lena M. Mantle. I am a Senior Analyst for the Office of the Public Counsel.
- 2. Attached hereto and made a part hereof for all purposes is my rate design direct testimony.
- 3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.

Lena M. Mantle

Senior Analyst

Subscribed and sworn to me this 17th day of November 2021.

MOTARY OF MISS

TIFFANY HILDEBRAND My Commission Expires August 8, 2023 Cole County Commission #15637121

Tiffany Hildebrand Notary Public

My Commission expires August 8, 2023.

DIRECT TESTIMONY

OF

LENA M. MANTLE

THE EMPIRE DISTRICT ELECTRIC COMPANY

FILE NO. ER-2021-0312

1	Q.	What are your name and business address?
2	A.	My name is Lena M. Mantle and my business address is P.O. Box 2230, Jefferson
3		City, Missouri 65102.
4	Q.	Did you testify in this case on behalf of the Office of Public Counsel in revenue
5		requirement direct testimony prefiled on October 29, 2021?
6	A.	Yes.
7	Q.	What is the purpose of this direct testimony?
8	A.	In this testimony I recommend changes to Empire's FAC tariff sheets designed to
9		clarify and shorten Empire's FAC, and to effectuate recommendations to Empire's
10		FAC that I made in my revenue requirement direct testimony. The changes I
11		recommend are to Empire's current FAC tariff sheets, 1 not to the revised FAC tariff
12		sheets Empire proposed in its direct case.
13		My recommended changes to Empire's current FAC tariff sheets are shown
14		in redline/strikeout and with all changes accepted in attached Schedules LMM-D-
15		4 and LMM-D-5 respectively.
16	Q.	Starting with the implementation of additions to Empire's current FAC tariff
17		sheets that you recommended in your revenue requirement direct testimony,
. 8		what is your first recommendation?
9	A.	In my revenue requirement testimony, I recommended language that would allow
20		a longer recovery period for recovery of extreme net costs. I propose that this
	¹ P.S.0	C. Mo. No. 6, Sec. 4, Original Sheets No. 17i through 17q.

A.

 language be added to the definition of "Recovery Period" on FAC tariff sheet 17i so that it would read as follows.

RECOVERY PERIOD:

The billing months during which a FAR is applied to retail customer usage on a per kilowatt-hour ("kWh") basis. When extraordinary net costs have been incurred in an accumulation period, for good cause the Commission may allow (after opportunity for any party to be heard) the recovery period to extend beyond six months. The amount not recovered will be added to subsequent recovery periods with a true-up for the extraordinary cost at the end of the Commission approved recovery time period for the extraordinary cost.

Q. What is your next recommendation?

- A. Tariff sheet 17j includes a definition of fuel costs (FC). As I explained in my revenue requirement direct testimony, the definition of fuel costs should be modified to specifically exclude retirement and decommissioning costs. Currently the tariff sheet language is simply "FC = Fuel Costs Incurred to Support Sales." I recommend the definition to be changed by including the italicized language as follows:
 - FC = Fuel costs, excluding decommissioning and retirement costs, incurred to support sales and revenues associated with the Company's in-service generating plants consisting of the following:

Q. What is your next recommendation?

- Empire's cost of energy used for research and development projects should be explicitly excluded from Empire's FAC. That cost would be the market price of the energy at the time it was consumed multiplied by the amount of energy consumed. Presently this cost is included in the purchased power costs included the PP term of Empire's FAC. Therefore, I recommend the first section in the definition of PP found on Empire's current FAC tariff sheet 17j be changed to read as follows with additional language italicized:
 - 1. Costs and revenues for purchased power reflected in FERC Account 555, excluding: 1) all charges under Southwest Power Pool ("SPP") Schedules

1a and 12, and 2) amounts associated with energy purchased from the SPP market to serve research and development projects of the Company. Such costs include:

And, to fully remove the impact of research and development projects, the energy used for the research projects should also be removed from the accumulation period sales (S_{AP}) and recovery period sales (S_{RP}). The definition of S_{AP} found on Empire's current FAC tariff sheet 170 should be changed to read as follows:

S_{AP} = Actual net system input (NSI), excluding the energy used by Company research and development projects, at the generation level for the accumulation period.

Q. Why do you recommend adding "(NSI)" to the definition of SAP?

A. NSI is used in the definition of S_{RP} , yet never defined in Empire's tariff. NSI stands for net system input. The definition of S_{AP} includes net system input. Rather than adding another separate definition in the tariff sheets for NSI, I recommend inserting "(NSI)" in the definition of S_{AP} to clarify the use of NSI in the definition of S_{RP} .

Q. What is your next recommendation?

- A. I recommend that the definition of S_{RP} found on Empire's current FAC tariff sheet 17p be modified to read as follows with new language in italics and language removed struck out.
 - S_{RP}= Forecasted Missouri NSI kWh for the recovery period *excluding* energy projected to be used by Company research and development projects.
 - = Forecasted total system NSI * <u>Forecasted Missouri retail kWh sales</u> Forecasted total system kWh sales

Where Forecasted total system NSI kWh sales includes kWh sales to municipalities that are associated with Empire and excludes off-system sales and energy projected to be used by Company research and development projects.

- Q. Do you have any other recommendations that are based on recommendations you made in your revenue requirement direct testimony?
- 3 A. No.

- Q. What other changes to Empire's FAC tariff sheets are you recommending?
- A. I recommend the paragraph in section 4 of the purchased power (PP) definition currently found on tariff sheet 17l be moved above the description of hedging costs currently found on tariff sheet 17n. After deletion of the last sentence in it, the paragraph to be moved is:

Costs and revenues not specifically detailed in Factors FC, PP, E, or OSSR shall not be included in the Company's FAR filings; provided however, in the case of Factors PP or OSSR the market settlement charge types under which SPP or another market participant bills / credits a cost or revenue need not be detailed in Factors PP or OSSR for the costs or revenues to be considered specifically detailed in Factors PP or OSSR; and provided further, should the SPP or another market participant implement a new charge type, exclusive of changes in transmission revenue.

- Q. Why are you recommending that this paragraph be moved?
- A. This paragraph is intended to convey that only costs and revenues that are included in the specific definitions of fuel cost (FC), purchased power costs (PP), emissions cost (E), and off-system sales revenue (OSSR) flow through Empire's FAC, yet this paragraph currently is included in the definition of PP. This paragraph should be removed from the definition of PP and moved to follow the definitions of factors FC, PP, E, and OSSR.
- Q. Are you recommending that the last sentence of that paragraph, which reads, "The list of sub-accounts included will be provided in the FAC Monthly Reports," be deleted?
- A. Yes, because the sub-accounts where the costs and revenues are recorded should be listed in Empire's FAC tariff sheets.

Q. Why?

Empire's tariff is a public document. Empire's monthly FAC reports are not publicly available. If only included in Empire's FAC monthly reports, the list of sub-accounts is not publicly available. There is nothing confidential about the sub-account numbers or a short description of the nature of the costs/revenues that are included in each subaccount. This information should be available to the public in Empire's tariff.

Q. Has Empire provided a representative list of the subaccounts?

- A. Yes. On page 1 of Schedule ZQ-6 attached to his direct testimony, Empire witness Zachary Quintero provides a short descriptive listing of sub-accounts. I do not agree that everything on that list should flow through Empire's FAC; however, it provides an example of how a brief listing of sub-accounts could be provided in Empire's FAC tariff sheets.
- Q. You are recommending a paragraph in section 4 on sheet 17l be moved. What about subparagraphs A through E to section 4 on tariff sheets 17l and 17n?
- A. These subparagraphs should be removed from Empire's FAC tariff sheets.

Q. Why?

A. SPP or other regional transmission organizations ("RTO") may create a new cost or revenue schedule that is like a cost or revenue that already flows through Empire's FAC. These subparagraphs state a process for Empire to use to flow these new costs and revenues through its FAC. The Commission's FAC rule, 20 CSR 4240-20.090, has been revised to include this process in Section (8)(D). Therefore, this process language no longer serves any purpose in Empire's FAC tariff sheets, and should be removed.

Q. If these subparagraphs track the rule, why not leave them in Empire's FAC tariff sheets?

A. They are unnecessary given the updates to the FAC rule, and they add significant volume and complexity to Empire's FAC tariff sheets. However, if these subparagraphs are included in Empire's FAC tariff sheets, then they need to be moved out of the definition of PP into a new section titled ACCOUNTING FOR COSTS AND REVENUES. This section should be added below "HEDGING COSTS:" as shown on page 17n of Empire's current tariff sheets.

Q. What other recommended changes do you have to Empire's FAC tariff sheets?

A. The term "VAF" is used several times on Empire's FAC tariff sheet that shows how to calculate the FAC rate,² but it is not defined. I recommend that it be defined by putting the words "the voltage adjustment factors ("VAF") of" in front of the actual numeric voltage factors in the first paragraph after the heading FUEL ADJUSTMENT RATE currently found on tariff sheet 17o. As changed, this paragraph would read, with language added italicized, as follows.

The FAR is the result of dividing the FPA by estimated recovery period SRP kWh, rounded to the nearest \$0.00000. The FAR shall be adjusted to reflect the differences in line losses that occur at primary and secondary voltage by multiplying the average cost at the generator by *the voltage adjustment factors* ("VAF") of 1.0429 and 1.0625, respectively. Any FAR authorized by the Commission shall be billed based upon customers' energy usage on and after the authorized effective date of the FAR. The formula for the FPA is displayed below

Q. Do you have any recommendations for Empire's FAC tariff sheet that shows the calculation of the FAC rate?

A. Yes. There is a problem with the current FAC rate calculation tariff sheet in that the jurisdictional allocation factor J shown in the table is not the jurisdictional allocation factor for the accumulation period calculated using the accumulation

² Currently tariff sheet 17q.

period total sales for Missouri retail and total system as defined on tariff sheet 17o. 1 2 It is a number that is calculated dividing the sum of the monthly ((TEC - B) * J) by 3 the sum of the monthly (TEC – B). Currently 17q contains two footnotes intended 4 to explain that the J factor shown in this table is not the jurisdictional ratio for the 5 accumulation period. 6 Q. How do you recommend this be corrected? 7 A. I recommend: 8 1) The footnotes be removed from the tariff sheet; 9 2) Line 4, Missouri Energy Ratio (J) be removed from the table; 10 3) The remaining lines in the table be renumbered; 4) The new line 4 be relabeled as "Sum of Monthly (TEC - B) *J"; and 11 5) The new line 6 be relabeled "Sum of Monthly (TEC – B) * J * 0.95. 12 While the table would not show all the variables necessary to the calculation, it also 13 would not contain a number that was calculated differently than prescribed in the 14 tariff sheets. 15 16 Does this conclude your class cost-of-service direct testimony? Q. 17 A. Yes, it does.