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Issue(s): Revenues

Witness: Nancy L. Harris

Sponsoring Party: MoPSC Staff
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Case Nos.: GR-2022-0179

Date Testimony Prepared: August 31, 2022

MISSOURI PUBLIC SERVICE COMMISSION INDUSTRY ANALYSIS DIVISION TARIFF AND RATE DESIGN DEPARTMENT

DIRECT TESTIMONY Revenue Requirement

OF

NANCY L. HARRIS

SPIRE MISSOURI, INC., d/b/a Spire

Case No. GR-2022-0179

Jefferson City, Missouri August 2022

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1	DIRECT TESTIMONY
2	\mathbf{OF}
3	NANCY L. HARRIS
4	SPIRE MISSOURI, INC., d/b/a Spire
5	Case No. GR-2022-0179
6	Q. Please state your name and business address.
7	A. My name is Nancy L. Harris. My business address is 200 Madison Street
8	P.O. Box 360, Jefferson City, MO 65102.
9	Q. By whom are you employed and in what capacity?
10	A. I am employed by the Missouri Public Service Commission ("Commission") as
11	an Auditor in the Tariff and Rate Design Department of the Industry Analysis Division. I have
12	held this position since June 3, 2019 when I began employment with the Commission.
13	Q. Please provide your education and work history.
14	A. In 1994, I completed a Bachelor of Science degree in Business Administration
15	with a major in Accounting from the University of Central Missouri in Warrensburg, Missouri
16	From 1994-1997 I was a Business Instructor with Metro Business College teaching
17	accounting and business courses. From 1998-2012 I worked in the manufacturing industry as
18	an accountant. I was responsible for fixed asset expenditure tracking and reconciliation
19	inventory, accounts payables, and accounts receivables. Most recently, I was employed by the
20	Missouri Department of Economic Development in 2017 as an Incentive Specialist and was
21	responsible for benefit eligibility and compliance for the Missouri Works program.
22	EXECUTIVE SUMMARY
23	Q. What is the purpose of your direct testimony?

A. The purpose of this testimony is to describe how Staff determined the amoun
of Spire East and Spire West adjusted non-gas operating revenues. Since the largest componen
of non-gas operating revenues is a result of rates charged to Spire East and Spire West retain
customers, a comparison of non-gas operating revenues with the cost of service is
fundamentally a test of the adequacy of the currently effective retail natural gas rates to mee
Spire East and Spire West current costs of providing utility service.

One of the major tasks in a rate case is to determine the magnitude of any deficiency (or excess) between a company's cost of service and its operating revenues. Test year revenues need to be appropriately normalized and annualized in order to accurately measure the amount of any deficiency (or excess) in the current level of operating revenues. Once determined, the deficiency (or excess) can only be made up (or otherwise addressed) by adjusting retail rates (i.e., rate revenue) prospectively.

- Q. Through this testimony, do you provide any adjustments to be applied to the level of current revenues, and billing determinants?
- A. Yes. Detail on five main adjustments to billing determinants is explained in this testimony.
- Q. Through this testimony, do you describe the development of a work product which you provided to another Staff witness for the development of an issue?
- A. Yes. Development of final revenue billing determinants is the result of the process described in this testimony which will be used in the class cost of service process by Staff witnesses Francisco Del Pozo and Sarah L.K. Lange.

NON-GAS OPERATING REVENUES

Q. Please define non-gas operating revenues.

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	<u>Total MO</u>		
	Normalized		
Rate Class	<u>Revenue</u>		
Residential Service	\$ 292,346,855		
Small General Service	\$ 32,987,447		
Large General Service	\$ 28,013,131		
Large Volume Service	\$ 1,201,516		
Unmetered Gaslight	\$ 44,291		
Interruptible	\$ -		
General LP	\$ 10,768		
Vehicular	\$ -		
Large Volume Transportation	\$ 15,079,519		

-

\$ 369,683,528

Non-gas operating Revenues are composed of two components: (1) Rate

Revenue and (2) Other Operating Revenue. The definitions of these components are as follows:

East and Spire West authorized Commission approved rates for providing natural gas service

to their retail customers. Spire East and Spire West variable charges are determined by the

amount of each customer's usage and the (per unit) rates that are applied to that usage. Each

customer also pays a flat monthly customer charge dependent upon each customer's rate class.

The Spire East rate classes include residential, small general, large general, large volume,

unmetered gaslight, interruptible, general large power, vehicular fuel rate, and transportation

customer classifications. The Spire West rates classes include residential, small general, large

general, large volume, unmetered gaslight, and transportation customer classifications. The

tables below are Spire East and Spire West ending rate revenue by class.

EAST Total

Rate Revenue: Test year rate revenues consist solely of the revenues derived from Spire

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¹ Spire East interruptible and vehicular fuel rate classes were eliminated in January 2022 and moved to the large general service rate class.

	<u>Tota</u>	Total MO Normalized	
Rate Class		Revenue	
Residential Service	\$	219,753,104	
Small General Service	\$	23,465,258	
Large General Service	\$	16,294,919	
Large Volume Service	\$	1,123,988	
Unmetered Gaslight	\$	1,575	
Large Vol Transport	\$	15,796,793	
Large Gen Service Transport	\$	2,033,854	
WEST Total	\$	278,469,492	

Other Operating Revenue: Other operating revenue includes late payment charges,

collection trip charges, special meter reading charges and disconnection/reconnection of service charges. Each of these charges is also established by the Commission, and all of these revenue items are taken into account in setting retail rates for Spire East and Spire West gas service to customers. Staff Witness Lisa M. Ferguson discusses this further in her direct testimony.

Q. Please briefly describe the revenue development in this case.

A. To determine the level of Spire East and Spire West revenue, Staff applied standard ratemaking adjustments to test year (historical) volumes and customer levels. Staff makes these adjustments in order to determine the level of revenue that Spire East and Spire West would collect on an annual basis, under normal weather or climatic conditions, natural gas usage and customer levels, based on information that is "known and measurable" as of the end of the update period. In this direct testimony, the results include billing determinants from GR-2021-0108 with known and measurable changes, updated through the end of May 2022 with the adjustments described below. These results will be revisited in Staff's true-up and will be updated for known and measureable changes through the end of September 2022.

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Revenue was developed and summarized by rate class. This testimony describes five major adjustments Staff made to test year billed rate revenues:

- a) weather normalization
- b) customer growth
- c) rate switchers
- d) rate change annualization
- e) large customer adjustment
- Q. Please provide further detail on each of these five adjustments.
- A. The following are descriptions of the above adjustments:

a.) Weather Normalization

Staff witness, Hari Poudel provided the weather normalization factor for each month for each class. Staff applied the weather normalization factor to each class' monthly usage² to determine the weather normalization revenue adjustment for customers' monthly usage. Mr. Poudel explains the weather normalization adjustment further in his direct testimony.

b.) Customer Growth

Natural gas customers tend to fluctuate seasonally over a 12-month period, with some customers leaving the system during the spring and summer months and then rejoining the system during the fall and winter months. This seasonal sensitivity in customer numbers makes it impractical to base a customer growth adjustment on one period-ending customer number value as is normally done for electric utilities.

² The weather normalization factor was applied to Residential, SGS, and LGS only.

The annualization of customer revenues contains two components, the base charge and the commodity charge. The base charge is the minimum monthly customer charge that Spire East and Spire West assess to a customer for supplying gas service. The monthly base charge revenue is calculated by multiplying the base charge by Staff's annualized level of customers on a monthly basis. The commodity charge is for actual customer gas usage calculated by usage unit (Ccf) multiplied by rates.

Staff calculated twelve months ending May 2022 for the Residential, SGS, and LGS rate classes for Spire East and Spire West, which includes the Company's growth since the last rate case GR-2021-0108. Staff has submitted DR 0337 to obtain the customer charge counts for December 2020 through September 2022 for Spire East and Spire West. Staff will review customer charge counts for Residential, SGS and LGS for the time period of November 2019-September 2022 and make any necessary growth adjustments in the true-up filing on November 4, 2022.

c.) Rate Switchers

- Q. Please explain what rate switcher means.
- A. Rate switching is when customers switch which rate schedule they will be served on during the test year or update period. If a customer was in a rate class at the beginning of the test year, then transferred to a different rate class during the test year, the customer's billing determinants and associated revenues in the original class were removed from that class' total and then added to the new rate class. The customer's billing determinants were then "priced out" using the tariffs of the class to which the customer switched, and those determinants and revenues were added to the totals in the new class.

1	Q.	Did Staff make any rate switcher adjustments?				
2	A.	Yes. In December 2021, several customers switched from Large Volume (LV)				
3	to Large General Service (LGS) . Staff removed those customers from LV and added them to					
4	the LGS class.					
5	d.)	Rate Change Annualization				
6	Q.	Did Staff make an adjustment for the rate change that occurred on				
7	December 23,	, 2021?				
8	A.	Yes. Staff calculated the revenues by applying the currently effective rates to				
9	the adjusted b	illing determinants.				
10	Q.	Were there any other adjustments or considerations during your analysis?				
11	A.	Yes. In Case No. GR-2021-0108, Spire was ordered to change Spire East				
12	volume meas	urement units from therms (British thermal unit) to Ccf (hundred cubic feet) in				
13	October 2021	. An adjustment factor of 1.02 was applied to old tariff rates measured in therms				
14	where necessary. Revenue calculations performed for October through December 2021 utilized					
15	the tariff rate multiplied by 1.02 to account for usage measured in Ccf under an effective rat					
16	measured in the	herms.				
17	e.)	Large Customer Adjustments				
18	Q.	Were there any adjustments or considerations made specific to Large				
19	Volume custo					
20	A.	Spire East provided monthly billing units and information for every customer				
21		vice on the Large Volume Service ("LV") and Interruptible Service ("IN") rate				
22	schedules during the 12 months ending May 2022. Spire West provided monthly billing unit					
44	schedules dul	ing the 12 months ending may 2022. Spire west provided monthly billing tilles				

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and information for every customer who took service on the LV rate schedule. Staff used these units as the basis of its analyses and adjustments. The following adjustments were made:

Large Volume 365-Day Adjustment

The 18 bill cycles representative of the 12 months ending May 31, 2022, may or may not include 365 days. Staff made adjustments to customers' monthly usage for customers whose test year does not include 365 days, either by adding the appropriate number of days of average usage when there were fewer than 365 days of usage, or by subtracting the appropriate number of days of average usage when there were more than 365 days of usage.

Large Customer Rate Switching

- Q. Did Staff make any rate switching adjustments for the large volume customers?
- A. The general intent of an annualization is to re-state the test year usage as if conditions known at the end of the update period had existed throughout the entire year. Rate switching³ and annualization adjustments include adjustments for new customers, the exit of existing customers, and load growth or decline of specific existing customers.

This resulted in a full year of history for the customer in the rate class they were in at the end of the year. For new customers having no prior usage, an estimated level of usage was used in order to have 12 months of data.

Large Customer Rate Change Annualization

Q. Did Staff make an adjustment for the rate change that occurred on December 23, 2021?

³ Rate switching is when customers switch which rate schedule they will be served on during the test year or update period.

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- A. Yes. Staff calculated the revenues by applying the currently effective rates to the adjusted billing determinants.
 - Q. Were there any other adjustments or considerations during your analysis?
 - A. Yes. In Case No. GR-2021-0108, Spire was ordered to change Spire East volume measurement units from therms to Ccf in October 2021. An adjustment factor of 1.02 was applied to old tariff rates measured in therms where necessary. Revenue calculations performed for October through December 2021 utilized the tariff rate multiplied by 1.02 to account for usage measured in Ccf under an effective rate measured in therms.
 - Q. Does this conclude your direct testimony?
 - A. Yes it does.

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Spire Missouri, Inc. d/b/a Spire's Request for Authority to Implement a General Rate Increase for Natural Gas Service Provided in the Company's Missouri Service Areas Case No. GR-2022-0179 Case No. GR-2022-0179
AFFIDAVIT OF NANCY L. HARRIS
STATE OF MISSOURI)) ss. COUNTY OF COLE)
COMES NOW NANCY L. HARRIS and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing <i>Direct Testimony of Nancy L. Harris</i> ; and that the same is true and correct according to her best knowledge and belief.
Further the Affiant sayeth not. Manual L. Hamis NANCY L. HARRIS
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 August 2022.
D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: April 04, 2025 Commission Number: 12412070 Dustillanken Notary Public