Exhibit No.:

Issue(s): Weather Normalization Witness: Hari K. Poudel, PhD

Sponsoring Party: MoPSC Staff

Type of Exhibit: Surrebuttal Testimony

Case No.: GR-2024-0106

Date Testimony Prepared: September 19, 2024

### MISSOURI PUBLIC SERVICE COMMISSION

#### INDUSTRY ANALYSIS DIVISION

#### TARIFF/RATE DESIGN DEPARTMENT

#### **SURREBUTTAL TESTIMONY**

**OF** 

HARI K. POUDEL, PhD

# LIBERTY UTILITIES (Midstates Natural Gas) CORP., d/b/a Liberty

CASE NO. GR-2024-0106

Jefferson City, Missouri September 2024

| 1      |   | SURRREBUTTAL TESTIMONY   |  |
|--------|---|--|--|
| 2      |   | OF   |  |
| 3      |   | HARI K. POUDEL, PhD  |  |
| 4<br>5 |   | LIBERTY UTILITIES (Midstates Natural Gas) CORP.,<br>d/b/a Liberty              |  |
| 6      |   | CASE NO. GR-2024-0106  |  |
| 7      | Q.  | Please state your name and business address.                                   |  |
| 8      | A.  | My name is Hari K. Poudel, and my business address is P.O. Box 360,            |  |
| 9      | Jefferson City, MO 65102.   |  |  |
| 10     | Q.  | Are you the same Hari Poudel who prepared the direct and rebuttal testimonies  |  |
| 11     | in this case?   |  |  |
| 12     | A.  | Yes.   |  |
| 13     | EXECUTIVE SUMMARY   |  |  |
| 14     | Q.  | What is the purpose of your surrebuttal testimony?                             |  |
| 15     | A.  | The purpose of my surrebuttal testimony is to address a few concerns raised by |  |
| 16     | Mr. Eric Fox, a witness for Liberty Utilities (Midstates Natural Gas) Corp., d/b/a Liberty      |  |  |
| 17     | ("Liberty Midstates" or "Company"), about Staff's weather normalization ("WN") analysis.        |  |  |
| 18     | Staff agrees with the Company analysis that the relationship between temperature and            |  |  |
| 19     | Large General Service ("LGS") rate class is weak. Therefore, Staff will exclude this rate class |  |  |
| 20     | from the WN adjustment. Staff also updated Transport customers' weather normalization           |  |  |
| 21     | workpapers  | based on the updated information provided by Company. <sup>1</sup>             |  |
|        |   |  |  |
|        | <sup>1</sup> DR325S GR-   | 2024 0106  |  |
|        | DIGESTS OIL   | 2021 0100  |  |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

#### WEATHER NORMALIZATION MODEL

- Q. Does the Company reject the WN analysis method used by Staff?
  - A. No. Mr. Fox stated that Staff's WN approach is reliable<sup>2</sup>.
- Q. Which aspects of the WN adjustments calculated by Staff were brought up by Mr. Fox?
- A. Mr. Fox is primarily concerned with the meter read schedules for October, November, and December that are used in Staff's WN analysis." Liberty changed the meter read schedule as a result of the new billing system implemented in October 2023. According to Mr. Fox, compared to the previous billing system, the new billing system has the largest effect on December billed sales. The rationale is that half of the December sales would have been deferred to January 2024 if the billed sales were handled using the previous billing system. Even so, in order to look into the impact of the new billing method on the meter read schedule and related billed sales, Staff requires sufficient data and analysis. But as of yet, no data is available.
  - Q. How does Staff handle the new meter read schedules in this filing?
- A. Staff used exactly the same methodology for the 365-day adjustment in this filing as it did in the previous rate case. Liberty implemented a new billing system in October 2023.<sup>5</sup> On September 5, 2024, Mr. Fox submitted his workpaper for meter read schedule for three months, including October, November, and December. However, Staff is unable to apply the 365-days adjustments based on the new billing system for these three months due to the following reasons:

<sup>&</sup>lt;sup>2</sup> Mr. Eric Fox Rebuttal Page 1 Lines 18-19.

<sup>&</sup>lt;sup>3</sup> Mr. Eric Fox Rebuttal Page 1 Lines 18-19.

<sup>&</sup>lt;sup>4</sup> Mr. Eric Fox Rebuttal Page 1, Lines 19-20.

<sup>&</sup>lt;sup>5</sup> Mr. Eric Fox Rebuttal Page 1 Lines 19-20; Page 2 Lines 1-2.

- 1) Staff is unable to validate the accuracy of the simulation results used in Mr. Fox's workpaper for the three months. The simulated results are hardcoded.
- 2) Staff does not possess access to the regression software package used in his analysis.
- 3) Mr. Fox's approach lacks consistency since he omitted October from the simulation modeling, despite the introduction of the new billing system in October 2023.
- Q. Will Staff review its adjustment for three months based on the new billing system after getting the appropriate simulation model information as requested in Staff's DR365?
- A. Possibly. The response to the new meter reading system workpaper will determine this, and Staff has not received this yet. Once received, Staff could assess and confirm the accuracy of Mr. Fox's simulation results utilized during the three-month period following to the implementation of the new billing system.
  - Q. Do you have any update regarding the analysis of the LGS WN adjustment?
- A. Yes. Staff agrees with the Company's analysis that the relationship between temperature and Large General Service ("LGS") rate class is weak. Staff calculated the adjustment coefficients for LGS rate class in the direct filing. These coefficients indicate that Staff's regression model has shown that the impact of weather on sales is not statistically significant. As a result, Staff does not apply weather normalization to the LGS rate class when making revenue adjustments. Staff witness Ms. Stever updated the LGS revenue adjustment in her surrebuttal testimony.

\_

<sup>&</sup>lt;sup>6</sup> GR-2024-0106 Direct Page 2 Lines 4.

# Surrebuttal Testimony of Hari K. Poudel, PhD

- Q. How are the weather adjustment values for the Transport customers applied?
- A. Staff witness Justin Tevie used the weather adjustment values for the
- 3 Transport customers.

## CONCLUSION

4

5

- Q. Does this conclude your surrebuttal testimony?
- 6 A. Yes it does.

#### BEFORE THE PUBLIC SERVICE COMMISSION

#### **OF THE STATE OF MISSOURI**

| In the Matter of the Request of Liberty<br>Utilities (Midstates Natural Gas) Corp.<br>d/b/a Liberty to Implement a General Rate<br>Increase for Natural Gas Service in the<br>Missouri Service Areas of the Company | ) Case No. GR-2024-0106 ) )   |  |  |
|---|---|--|--|
| AFFIDAVIT OF HARI K. POUDEL, PHD  |   |  |  |
| STATE OF MISSOURI )   |   |  |  |
| COUNTY OF COLE ) ss.  |   |  |  |
| COMES NOW HARI K. POUDEL, PhD   | and on his oath declares that he is of sound mind                                   |  |  |
| and lawful age; that he contributed to the foregonand that the same is true and correct according to  | ing Surrebuttal Testimony of Hari K. Poudel, PhD; to his best knowledge and belief. |  |  |
| Further the Affiant sayeth not. $\overline{\mathbf{H}}$   | ARI K. POUDEL, PhD  |  |  |
| JU  | JRAT  |  |  |
|   | instituted and authorized Notary Public, in and for                                 |  |  |
| the County of Cole, State of Missouri, at my of of September 2024.  | ffice in Jefferson City, on this day  |  |  |
| DIANNA L. VAUGHT  Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: July 18, 2027 Commission Number: 15207377   | Danna L. Vaugu-<br>otary Public   |  |  |