Exhibit No.:

Issue(s): Voltage Adjustment

Factors Jurisdictional

Allocations

Witness: Alan J. Bax

Sponsoring Party: MoPSC Staff

Type of Exhibit: Surrebuttal Testimony Case Nos.: ER-2022-0129 and

ER-2022-0130

Date Testimony Prepared: August 16, 2022

MISSOURI PUBLIC SERVICE COMMISSION INDUSTRY ANALYSIS DIVISION ENGINEERING ANALYSIS DEPARTMENT

SURREBUTTAL TESTIMONY

OF

ALAN J. BAX

Evergy Metro, Inc. d/b/a Evergy Missouri Metro Case No. ER-2022-0129

Evergy Missouri West, Inc. d/b/a Evergy Missouri West Case No. ER-2022-0130

> Jefferson City, Missouri August 2022

| 1 | | SURREBUTTAL TESTIMONY |
|--------|----------------|---|
| 2 | | OF |
| 3 | | ALAN J. BAX |
| 4 5 | | Evergy Metro, Inc. d/b/a Evergy Missouri Metro Case No. ER-2022-0129 |
| 6 7 | | Evergy Missouri West, Inc. d/b/a Evergy Missouri West Case No. ER-2022-0130 |
| 8 | Q. | Please state your name and business address? |
| 9 | A. | Alan J. Bax, P.O. Box 360, Jefferson City, Missouri, 65102. |
| 10 | Q. | By whom are you employed and in what capacity? |
| 11 | A. | I am employed by the Missouri Public Service Commission (Commission) as |
| 12 | an Associate | Engineer in the Energy Analysis Department of the Industry Analysis Division. |
| 13 | Q. | Are you same Alan J. Bax that previously filed direct and rebuttal testimonies |
| 14 | in these cases | ? |
| 15 | A. | Yes. |
| 16 | Q. | Will your surrebuttal testimony be applicable to both the general rate case filed |
| 17 | by Evergy M | lissouri Metro ("Evergy Metro"), ER-2022-0129, and the general rate case filed |
| 18 | by Evergy M | issouri West ("Evergy West") in ER-2022-0130? |
| 19 | A. | Yes, this surrebuttal testimony will be filed in both general rate cases. |
| 20 | Q. | What is the purpose of your surrebuttal testimony? |
| 21 | A. | In my surrebuttal testimony, I will discuss the rebuttal testimony of Evergy |
| 22 | witness Lind | a J. Nunn regarding her discussion of voltage adjustment factors ("VAFs") she |
| 23 | recommends | be utilized in the respective Fuel Adjustment Clauses ("FACs") of Evergy Metro |
| | | |

and Evergy West. I will also address the rebuttal testimonies filed by Evergy witnesses
Ronald Klote and John Wolfram regarding jurisdictional allocations.

REBUTTAL TESTIMONY OF EVERGY WITNESS LINDA J. NUNN

- Q. What did Evergy witness Linda J. Nunn identify as a discrepancy in her rebuttal testimony regarding Staff's proposed Voltage Adjustment Factors (VAFs) recommended in its Direct Testimony?
- A. Beginning on page 17, line 17 continuing through page 18, line 15, Ms. Nunn indicates that Staff incorrectly proposed only three VAFs (transmission, primary and secondary) in its direct testimony and that there should be a fourth VAF calculated at the substation level. In addition, Ms. Nunn asserts that, based on information provided in the latest loss study, the VAFs that Staff calculated for Evergy Metro were inaccurate.
- Q. Do you agree with the premise that four VAFs should be reflected in the respective FACs of Evergy Metro and Evergy West?
- A. Yes, I believe it is appropriate to include four VAFs in the respective FACs of both Evergy Metro and Evergy West. However, in the most recent rate cases involving the predecessors of Evergy Metro and Evergy West, both in 2016 (ER-2016-0156 and ER-2016-0285) and in 2018 (ER-2018-0145 and ER-2018-0146), the witness for Kansas City Power & Light ("KCPL") and KCPL Greater Missouri Operations ("KCPL-GMO") testified that there was insufficient metering to measure voltage at the substation level. Consequently, this witness only recommended three VAFs in his proposed FAC tariff revisions. In the current cases, Ms. Nunn has indicated that four VAFs be reflected in the respective FACs for both Evergy Metro and Evergy West. Staff concurs with this recommendation. In reviewing the data provided in the loss study referenced by Ms. Nunn, I have calculated the

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1 following four VAFs to be included in the respective FACs for Evergy Metro and 2 Evergy West. I have reflected these calculated VAFs in Schedule AJB-s1 attached to this 3 surrebuttal testimony and also below: 4 **EVERGY METRO:** 5 Transmission: 1.0300 6 Substation: 1.0378 Primary: 7 1.0496 8 Secondary: 1.0690 9 **EVERGY WEST:** 10 Transmission: 1.0300 11 Substation: 1.0388 12 Primary: 1.0503 13 Secondary: 1.0766 14 Q. Did you provide these calculated VAFs to any other Staff member? 15 A. Yes. These VAFs were provided to Staff witness Amanda Conner to use in 16 determining the Fuel Adjustment Rates (FARs) reflected in the proposed FACs for both 17 Evergy Metro and Evergy West. 18 REBUTTAL TESTIMONY OF EVERGY WITNESS JOHN WOLFRAM 19 Q. In his Rebuttal Testimony, Mr. Wolfram cited the Direct Testimony of 20 Greg Meyer, taking issue with Mr. Meyer's assertion regarding Mr. Wolfram's 21 recommendation to average the allocation methodology differences between the states of 22 Missouri and Kansas as "not being just and reasonable." Do you agree with Mr. Wolfram? 23 No, as I said previously in my rebuttal testimony, I do not agree with A. 24 Mr. Wolfram's recommendation to average the differences between the allocation

methodologies that exist in each of the respective states of Missouri and Kansas.

- Q. On page 7 of his rebuttal testimony, Mr. Wolfram notes the disparities between the allocation methodologies utilized in the respective states needs to be addressed as indicated/illustrated most recently considering the effects experienced as a result of Winter Storm Uri in February 2021. What is your response to this assertion?
- A. The differing allocation methodologies referenced by Mr. Wolfram that are used in each state have either been ordered by the respective state Commissions, or consistently agreed to by Evergy and/or its predecessors within the context of Stipulations and Agreements filed in corresponding rate cases dating back to at least 2006. Most recently, the allocation methodologies currently in use in each respective state were as a result of the rate cases in 2018. It is inappropriate to challenge one aspect of the numerous items included within an approved Stipulation and Agreement, one in which Evergy's predecessors were a signatory, over two years following its initiation. A complete analysis of all aspects of the aforementioned Stipulation and Agreement would need to be undertaken, not just the aspect involving jurisdictional allocations. For more on this topic, see the Surrebuttal Testimony of Staff witness Keith Majors.

REBUTTAL TESTIMONY OF EVERGY WITNESS RONALD A. KLOTE

- Q. Beginning on page 15, line 11 and continuing to page 24, line 6, Mr. Klote also comments on the historical and on-going differences in the allocation methodologies adopted in each respective state and how Winter Storm Uri highlighted these differences. Most notably is the differing methods employed by Missouri and Kansas to allocate off-system sales margins. What is your response?
- A. The Missouri Public Service Commission has consistently ordered the same methodology since the "Wolf Creek case" in the mid-1980s. As I related in my direct

Surrebuttal Testimony of Alan J. Bax

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testimony, in the "Wolf Creek case", the Missouri Commission ordered the use of a 4 CP in regard to calculating demand allocation factors for the respective jurisdictions, citing the results of associated FERC tests, which were previously described in my direct testimony, and the use of the energy allocation factor in allocating revenues realized with off-system sales margins. The Missouri Commission has consistently ordered these allocation methodologies in every rate case since (2006, 2007, 2009, 2012, 2014, 2016, and 2018). In contrast, the Kansas Commission has changed its approved allocation methodologies from this "mutually accepted position" that was recommended and subsequently ordered in the Wolf Creek case. For example, the Kansas Commission currently has ordered utilizing what is termed the "unused energy allocator" in allocating off-system sales margins, as described in the Rebuttal Testimony of Mr. Klote. As previously stated above, any differences in allocation methodologies between the states has either been ordered by the respective state Commission and/or notably agreed to by Evergy and/or its predecessors as signatories to corresponding Stipulation and Agreements in every rate case dating back to the aforementioned "Wolf Creek case". For further information regarding this aspect of applying differing allocation methodologies, please see the Rebuttal and Surrebuttal Testimonies of Staff witness Keith Majors.

- Q. Does this conclude you Surrebuttal Testimony?
- A. Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

| In the Matter of Evergy Metro, Inc. d/b/a Evergy) Missouri Metro's Request for Authority to) Case No. ER-2022-0129 Implement a General Rate Increase for Electric) Service) |
|---|
| In the Matter of Evergy Missouri West, Inc. d/b/a Evergy Missouri West's Request for Authority to Implement a General Rate Increase for Electric Service Case No. ER-2022-0130 Case No. ER-2022-0130 |
| AFFIDAVIT OF ALAN J. BAX |
| STATE OF MISSOURI)) ss. COUNTY OF COLE) |
| COMES NOW ALAN J. BAX and on his oath declares that he is of sound mind and lawful age; hat he contributed to the foregoing <i>Surrebuttal Testimony of Alan J. Bax</i> ; and that the same is true and correct according to his best knowledge and belief. Further the Affiant sayeth not. Way Bay |
| ALAŇ J. BAX |
| JURAT |
| Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for |
| he 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 |

EVERGY METRO - ER-2022-0129

Voltage Adjustment Factors

| | Station | Metered | Losses | Station | % Losses |
|--------------|-----------|-----------|--------------|-----------|--------------|
| Station | Input | Sales | Total System | Output | Total System |
| Generation | | | | 8,600,000 | |
| Transmission | 8,600,000 | 340,959 | 250,485 | 8,008,556 | 3.0000% |
| Substation | 8,008,556 | 246,276 | 59,908 | 7,702,372 | 0.7537% |
| Primary | 7,702,372 | 620,063 | 87,211 | 6,995,098 | 1.1452% |
| Secondary | 6,995,098 | 6,868,556 | 126,542 | 0 | 1.8423% |

| | Metered | Station to Station Losses | | | |
|--------------|-----------|---------------------------|-----------|-----------|-----------|
| Station | Sales | Trans Sales | Sub Sales | Pri Sales | Sec Sales |
| Generation | | | | | |
| Transmission | 340,959 | 10,229 | 7,444 | 18,957 | 213,856 |
| Substation | 246,276 | | 1,856 | 4,727 | 53,325 |
| Primary | 620,063 | | | 7,101 | 80,110 |
| Secondary | 6,868,556 | | | | 126,542 |

| | Cı | ımmalative Losse | | FAC Expansion | |
|--------------|-------------|------------------|-----------|---------------|---------|
| Station | Trans Sales | Sub Sales | Pri Sales | Sec Sales | Factors |
| Generation | | | | | |
| Transmission | 10,229 | 9,300 | 30,785 | 473,832 | 1.0300 |
| Substation | | 1,856 | 11,828 | 259,977 | 1.0378 |
| Primary | | | 7,101 | 206,652 | 1.0496 |
| Secondary | | | | 126,542 | 1.0690 |

EVERGY WEST - ER-2022-0130

Voltage Adjustment Factors

| | Station | Metered | Losses | Station | % Losses |
|--------------|-----------|-----------|--------------|-----------|--------------|
| Station | Input | Sales | Total System | Output | Total System |
| Generation | | | | 8,583,034 | |
| Transmission | 8,583,034 | 241,668 | 249,991 | 8,091,375 | 3.0000% |
| Substation | 8,091,375 | 311,633 | 68,559 | 7,711,183 | 0.8546% |
| Primary | 7,711,183 | 612,042 | 84,124 | 7,015,017 | 1.1030% |
| Secondary | 7,015,017 | 6,843,125 | 171,892 | 0 | 2.5119% |

| | Metered | Station to Station Losses | | | |
|--------------|-----------|---------------------------|-----------|-----------|-----------|
| Station | Sales | Trans Sales | Sub Sales | Pri Sales | Sec Sales |
| Generation | | | | | |
| Transmission | 241,668 | 7,250 | 9,429 | 18,722 | 214,590 |
| Substation | 311,633 | | 2,663 | 5,288 | 60,608 |
| Primary | 612,042 | | | 6,751 | 77,373 |
| Secondary | 6,843,125 | | | | 171,892 |

| | Cu | ımmalative Lo | | FAC Expansion | |
|--------------|-------------|---------------|-----------|---------------|---------|
| Station | Trans Sales | Sub Sales | Pri Sales | Sec Sales | Factors |
| Generation | | | | | |
| Transmission | 7,250 | 12,092 | 30,761 | 524,463 | 1.0300 |
| Substation | | 2,663 | 12,039 | 309,873 | 1.0388 |
| Primary | | | 6,751 | 249,265 | 1.0503 |
| Secondary | | | | 171,892 | 1.0766 |