

Public Version

Exhibit No.:
Issue: Fuel, Purchased Power, Wholesale
Sales, FAC Support
Witness: Eric T. Peterson
Type of Exhibit: Direct Testimony
Sponsoring Party: Evergy Missouri West
Case No.: ER-2022-0130
Date Testimony Prepared: January 7, 2022

MISSOURI PUBLIC SERVICE COMMISSION

CASE NO.: ER-2022-0130

DIRECT TESTIMONY

OF

Eric T. Peterson

ON BEHALF OF

EVERGY MISSOURI WEST

**Kansas City, Missouri
January 2022**

DIRECT TESTIMONY

OF

ERIC T. PETERSON

Case No. ER-2022-0130

1 **Q: Please state your name and business address.**

2 A: My name is Eric T. Peterson. My business address is 1200 Main, Kansas City, Missouri
3 64105.

4 **Q: By whom and in what capacity are you employed?**

5 A: I am employed by Evergy Metro, Inc. and serve as Director, Analytics & Shared Services
6 for Evergy Metro, Inc. d/b/a as Evergy Missouri Metro (“Evergy Missouri Metro”), Evergy
7 Missouri West, Inc. d/b/a Evergy Missouri West (“Evergy Missouri West” or “Company”),
8 Evergy Metro, Inc. d/b/a Evergy Kansas Metro (“Evergy Kansas Metro”), and Evergy
9 Kansas Central, Inc. and Evergy South, Inc., collectively d/b/a as Evergy Kansas Central
10 (“Evergy Kansas Central”) the operating utilities of Evergy, Inc..

11 **Q: On whose behalf are you testifying?**

12 A: I am testifying on behalf of Evergy Missouri West

13 **Q: What are your responsibilities?**

14 A: My primary responsibilities include oversight of power marketing analytics, energy
15 fundamentals, market modeling and fuel management (excluding natural gas).

16 **Q: Please describe your education, experience and employment history.**

17 A: I graduated the University of Tulsa in May 1996 with a Bachelor of Science degree in
18 Business Administration & Finance. Next, I graduated from Oklahoma City University in
19 October 1999 with a Master’s in Business Administration Finance & Marketing.

1 I began my career with WorldCom in 1996 as a Specialist in network planning and facility
2 cost management. In 1997, I started my energy industry career at American Electric Power
3 (formerly Central & South West Services) in Strategic Research & Modeling as Analyst
4 supporting Integrated Resource Planning. In 1999, I joined the Williams Companies in the
5 Energy Marketing & Trading area as an Analyst focused on cross commodity analysis,
6 market analysis, and development of forward curve modeling.

7 My career began with Kansas City Power & Light Company (“KCP&L”) in 2002 as an
8 Analyst in Energy Resource Management focusing on Integrated Resource Planning,
9 budget, and various energy analyses. In 2006, I was promoted to Manager, Portfolio &
10 Risk Management, which focused on structured deal analysis, budgeting, and energy risk
11 exposure. In 2009, I was promoted Senior Manager, Supply Resources, which focused on
12 all fuel procurement and transportation. In 2010, I was promoted to Director, Supply
13 Resources, which included all fuel, power dispatch operations, trading, and origination
14 activities. In 2016, I was promoted to Senior Director, Generation Sales & Services, which
15 included same responsibilities as Director with additional roles of benchmarking,
16 scorecards, and O&M management. In 2018, my job title changed to Director, Analytics
17 & Shared Services, with duties consisting of all energy marketing and budgeting analytics,
18 and fuel procurement and transportation activities.

19 **Q: Have you previously testified in a proceeding at the Missouri Public Service**
20 **Commission (“MPSC” or “Commission”) or before any other utility regulatory**
21 **agency?**

22 **A:** No.

1 **Q: What is the purpose of your testimony?**

2 A: The purpose of my testimony is to describe the level of fuel expense, purchased power
3 expense and the wholesale sales revenues filed in the Direct Testimony of Company
4 witness Ronald A. Klote. In addition, I will provide information regarding the
5 requirements necessary to support the request for continuation of Evergy Missouri West's
6 Fuel Adjustment Clause ("FAC"). I specifically address all or a portion of the requirements
7 of 20 CSR 4240-20.090(2)(A)15, 16, and 17.

8 **I. ENERGY PRICE FORECASTS**

9 **Q: Please describe how Evergy Missouri West forecasts electricity prices?**

10 A: Evergy Missouri West utilizes the PROMOD[®] IV ("PROMOD") model, similar to other
11 fundamental price forecasting models that are commonly used in the industry. PROMOD
12 is provided by Hitachi Energy (formerly ABB). PROMOD incorporates details in
13 generating unit operating characteristics, transmission grid topology and constraints, and
14 market system operations to simulate power flows within and between various energy
15 markets, including but not limited to, Independent System Operators ("ISO"), Regional
16 Transmission Organizations ("RTO"), and other North American Electric Reliability
17 Corporation ("NERC") Regions. PROMOD performs a security constrained unit
18 commitment and co-optimized economic dispatch to generate Locational Marginal Prices
19 ("LMP") at the nodal level, similar to how ISOs and RTOs set schedules and determine
20 prices.

21 **Q: What are the primary inputs to the model?**

22 A: The model utilizes a sizeable input dataset that is populated with assumptions about market
23 supply, demand, and transmission. The bulk of the input assumptions use NERC reports,

1 Federal Energy Regulatory Commission (“FERC”) Form 1 data, Energy Information
2 Administration (“EIA”) 411 reports, Continuous Emissions Monitoring System (“CEMS”)
3 data compiled by the Environmental Protection Agency (“EPA”), and publicly available
4 data reported by the various ISOs and RTOs as sources. The demand data includes
5 projected hourly demand for virtually every electric power entity in the Eastern
6 Interconnect. The supply data contains a representation of all generating units within those
7 entities and their operating characteristics, including but not limited to, capacity, heat rate,
8 fuel type, variable operations and maintenance costs, outage rates, emissions rates, and
9 start-up costs. Other primary inputs are fuel (e.g., coal, natural gas, fuel oil) prices,
10 emission allowance prices, renewable energy generation, reserve requirements, hurdle
11 rates, and import/exports to external areas. The dataset also includes detailed transmission
12 grid topology, transmission constraints and contingency events within and between
13 regions.

14 **Q: How does the model use this data to forecast power prices?**

15 A: PROMOD performs an hourly chronological commitment and dispatch of available
16 generation resources to meet projected hourly demand in each region, as defined in the
17 model’s geographic topology. For each hour, the model calculates the cost of generation,
18 comprised of the production cost of the least-cost generating unit needed to meet demand.
19 The model also determines the hourly cost of congestion, which is the added cost of
20 needing higher-cost generators due to transmission constraints. Both the cost of generation
21 and the cost of congestion make up the hourly power price, or LMP. Hourly LMPs are
22 generated across the model footprint at the nodal level; this means generators at different
23 locations may have different LMPs in each hour. The model aims to minimize these system

1 costs while simultaneously adhering to operating constraints and transmission grid
2 limitations to meet load reliably. This is similar to how Southwest Power Pool (“SPP”),
3 the RTO in which the Company resides, calculates its power prices.

4 **Q: Is this done for only one region?**

5 A: No. Our model footprint includes SPP, Midcontinent Independent System Operator
6 (“MISO”), PJM Interconnection, LLC (“PJM”), Associated Electric Cooperative Inc.
7 (“AECI”), Southwestern Power Administration (“SPA”), Tennessee Valley Authority
8 (“TVA”), and Louisville Gas and Electric Company and Kentucky Utilities Company
9 (“LGE/KU”). The model also includes imports and exports across the high-voltage direct
10 current (“HVDC”) ties which connect SPP to the Western Interconnect and the ERCOT
11 Texas Interconnect, as well as other external areas that are not dynamically modeled (e.g.,
12 Florida, NYISO, etc.). Units may be economically dispatched to serve load in a
13 neighboring region if transmission capacity exists.

14 **Q: What is your opinion of the resulting forecasts?**

15 A: The fundamental supply and demand data are relatively good. The demand forecast from
16 utilities and the existing public data on installed generation capacity are sufficiently
17 reliable, so that identifying a reasonable unit to base an hourly price on is something that
18 can be done with a reasonable degree of confidence. The input assumptions that create a
19 larger challenge are fuel price and wind, as discussed below. In SPP, Evergy Missouri
20 West’s market area, the market price is usually set by one of three fuels: wind, coal or
21 natural gas. Wind generation is typically the marginal resource during off-peak hours,
22 while coal or gas is largely the marginal resource during on-peak hours in SPP.

1 **Q: How difficult is it to predict the price of coal and natural gas?**

2 A: Coal prices are relatively less volatile and the model inputs are based on actual reported
3 fuel costs, so the impact of coal on power prices can be forecasted with relative accuracy
4 when coal is the marginal fuel. Natural gas prices are more volatile and difficult to predict.

5 **Q: How difficult is it to predict wind generation?**

6 A: Wind production, and therefore generation from wind farms, can be erratic and
7 unpredictable. On average, wind makes up 29.5% of the total energy production in SPP
8 (as of January 2021), but it can be significantly higher during the Spring and Fall seasons.
9 Schedule ETP-1 shows the volatility of wind generation in SPP from December 2020
10 through November 2021. The natural variability of wind makes it difficult to predict power
11 prices when wind is the marginal fuel.

12 **Q: How accurate are the power price forecasts?**

13 A: The power price forecasts are relatively accurate when the fuel price forecasts and wind
14 forecasts are accurate. Deviations from the observed market price are typically congestion
15 costs that are not captured due to unexpected generation or transmission outages, or power
16 flows from neighboring regions (e.g., MISO or AECI).

17 **II. FUEL, PURCHASED POWER AND OFF-SYSTEM SALES NORMALIZATION**

18 **Q: What method for normalizing the test year fuel cost, purchased power cost and off-**
19 **system sales did you use in this case?**

20 A: The method used to normalize the test year fuel, purchased power and off-system sales is
21 one where we normalized and annualized the system peak load and energy, the prices paid
22 for fuel, generating system maintenance, and available generating resources. After
23 determining the appropriate normalized and annualized values, a production cost computer

1 modeling tool was used to develop the appropriate generation and purchased power levels,
2 and the resulting fuel cost, purchased power cost and off-system sales revenues. Evergy
3 Missouri West used the PROMOD software as its production cost model.

4 **Q: Please describe the PROMOD® IV software used in this normalization.**

5 A: This is the same modeling software described previously. PROMOD simultaneously
6 performs a security constrained and economic dispatch of generating units in the modeled
7 footprint, which includes Evergy Missouri West, and produces hourly LMPs at each price
8 node. The Company uses this model for various purposes, such as generating market price
9 forecasts, resource planning decisions, fuel and interchange budgeting, purchase and sales
10 analysis, etc.

11 **Q: Please describe the normalization of the system requirements for this rate case.**

12 A: Evergy Missouri West's native load was adjusted to reflect weather normalized and
13 annualized customer growth by the Company's load forecasting personnel. This process
14 is described in more detail in the Direct Testimony of Company witness Albert R. Bass.
15 These normalized monthly peak demands and energy requirements were used as inputs
16 into the PROMOD model. The software distributes these monthly energy requirements on
17 an hourly basis, then utilizes the actual historical hourly system loads to shape the
18 normalized loads. The resulting load shape was then used in the normalized production
19 cost modeling.

20 The Company's wholesale contract customers that contain an energy component
21 have been added to the native load to arrive at the total system requirements.

1 **Q: Please describe these wholesale contract customers.**

2 A: These are energy sales to Western Area Power Administration (“WAPA”). The revenue
3 for this transaction and the associated fuel expense is included in Schedule ETP-3
4 **(Confidential)**.

5 **Q: Please describe the fuel price normalization.**

6 A: The normalized fuel prices used in the modeling are described in the Direct Testimony of
7 Company witness Jessica Tucker. These fuel prices were input into the model on a plant-
8 specific basis and then were used in the normalized production cost modeling.

9 **Q: Please describe the maintenance outages normalization.**

10 A: Evergy Missouri West performs scheduled maintenance on the base load generating units
11 on a cyclical basis over a set number of years, i.e., a specific unit in any given year may
12 have an extended turbine generator outage, an extended boiler outage, a shorter boiler
13 outage, a short inspection outage, or no outage at all. Consequently, in any specific year
14 there may be higher or lower scheduled maintenance outages than the long-term average
15 maintenance outages. To normalize the availability of the generating resources, the total
16 number of weeks that a unit would be scheduled for maintenance over the cycle was
17 averaged over the number of years in the maintenance cycle. These normalized
18 maintenance outage assumptions were then spread over a 12-month period to develop a
19 normalized maintenance schedule. These outages were scheduled such that no two base
20 load units would be out at the same time, and that all base load generating resources would
21 be available during the peak load periods of June through mid-September, and December
22 through February. Schedule ETP-2 **(Confidential)** contains the maintenance schedule that
23 was used for the normalization.

1 **Q: Please describe the generating resources available capacity normalization.**

2 A: The generating resources available in the rate case modeling are the same as Evergy
3 Missouri West’s existing resources with capacity levels that are expected to be in place and
4 operational as of the true-up date in this case.

5 **Q: How was the generation from renewable resources modeled in this rate case?**

6 A: Wind generation that has been included in the model are Power Purchase Agreements
7 (“PPA”) from resources that are operating and under contract. These are the Cimarron
8 Bend 3, Gray County, Ensign, Osborn, Prairie Queen, Pratt, and Rock Creek wind farms.
9 The generation levels and energy prices are based upon signed contracts and actual 12-
10 month ending June 2021 historical generation.

11 Generation from the St. Joseph Landfill Gas facility has also been included, based
12 on its operating history. Generation from Greenwood Solar Facility has also been included
13 and is based on projected normal generation levels. These resources are Company owned
14 facilities.

15 **Q: What is the SPP Integrated Marketplace (“IM”)?**

16 A: The SPP IM consists of a day-ahead energy market with transmission congestion rights, a
17 real-time energy balancing market, and an operating reserve market. The IM allows SPP
18 to decide which generators should operate one day ahead of time. By allowing SPP to
19 monitor energy costs from multiple sources, the SPP IM is intended to improve grid
20 reliability, the regional balancing of supply and demand, and cost-effectiveness. In March
21 2014, the SPP IM replaced SPP’s Energy Imbalance Service Market, which was in
22 operation since 2007.

1 **Q: How does the SPP IM impact Evergy Missouri West’s fuel and purchased power**
2 **modeling?**

3 A: Prior to the SPP IM, Evergy Missouri West generation was first dispatched to meet the
4 Company’s native load obligations, with any excess economic generation going to off-
5 system sales. When wholesale market prices were such that it was economic to purchase
6 power to meet a portion of Evergy Missouri West’s native load obligations instead of using
7 the Company’s generating resources, wholesale purchases were made.

8 Evergy Missouri West now sells all of the energy that it generates to the SPP IM,
9 and it purchases all native load energy requirements from the SPP IM. This significantly
10 increases the amount of both wholesale sales and purchases. The production cost modeling
11 performed with PROMOD simulates the operations of the SPP IM.

12 **Q: For the test period, what revenue and expense items, if any, were adjusted as a result**
13 **of normalizing fuel cost, purchased power costs and off-system sales?**

14 A: Adjustments were made to fuel costs to reflect both a normalized fuel market and
15 normalized generation levels. Purchased power expense and bulk power sales were also
16 adjusted to reflect the changes in the quantity of energy purchased or sold, and the prices
17 of such purchases or sales. Schedule ETP-3 (**Confidential**) shows the generation levels by
18 resource type, purchased power levels, the costs of each, and the revenues from generation
19 sales and wholesale contract customers. The adjustments are reflected in Schedule RAK-
20 4, attached to the Direct Testimony of Company witness Ronald A. Klote (adjustments CS-
21 24 and 25).

1 **III. ADJUSTMENTS TO THE NORMALIZED FUEL, PURCHASED POWER and**
2 **WHOLESALE SALES RESULTS**

3 **Q: Does Evergy Missouri West propose any adjustments to the PROMOD® IV model**
4 **results?**

5 A: Yes. Adjustments are made for SPP Purchased Power Administrative Fees, the Renewable
6 Energy Rider (“RER”) program, and impacts relating to Nucor Steel Sedalia, LLC
7 (“Nucor”), a non-residential customer of Evergy Missouri West, that should be excluded
8 from the Fuel Adjustment Clause (“FAC”). Adjustments are also made for ancillary
9 services purchases and sales, line loss payments related to the Missouri Iowa Nebraska
10 Transmission (“MINT”) line, and SPP Revenue Neutrality Uplift (“RNU”) charges.

11 **Q: What are SPP Purchased Power Administrative Fees?**

12 A: As a participant in the SPP IM, SPP charges Evergy Missouri West administrative fees
13 related to costs of running and operating the SPP market. These charges include fees to
14 recover the costs of operating the Day-Ahead and Real-Time Balancing markets, market
15 settlements, credit services, market monitoring, and Transmission Congestion Right
16 (“TCR”) operations. These charges were previously recorded to a Uniform System of
17 Accounts 575 sub-account, but were switched over to a 555 sub-account by SPP beginning
18 in September 2021. These charges are not included in the model used by the Company to
19 calculate fuel and purchased power costs. As such, the SPP Purchased Power
20 Administrative Fees have been included as an adjustment to Evergy Missouri West’s model
21 results. Absent this adjustment, these charges would not otherwise be reflected in the
22 Company’s retail cost of service.

1 **Q: What amount of SPP Purchased Power Administrative Fees has Evergy Missouri**
2 **West included in this case?**

3 A: The amount of SPP Purchased Power Administrative Fees included in this case is an
4 annualized forecast of charges, for a period beginning after the change in accounts was
5 made, through May 2022. This adjustment is shown in Schedule ETP-3 (**Confidential**).
6 These values will be updated to the actual amounts for the most recent 12 months at true-
7 up.

8 **Q: What is the RER program?**

9 A: The RER program allows non-residential Evergy Missouri West customers to purchase
10 renewable energy from renewable resources that the Company contracts. Revenues and
11 costs associated with this program should not be included as part of the FAC, but they are
12 included in the model used by the Company to calculate fuel and purchased power costs.
13 As such, the revenues and costs associated with the RER program have been removed as
14 an adjustment to Evergy Missouri West's model results.

15 **Q: What amount of the RER adjustments has Evergy Missouri West included in this**
16 **case?**

17 A: The amount of RER adjustments is based on the adjusted and annualized values from the
18 Company's model results. These values will be updated to actual amounts for the most
19 recent 12 months at true-up.

20 **Q: What are the adjustments relating to Nucor?**

21 A: The Stipulation and Agreement from Case No. EO-2019-0244 requires Evergy Missouri
22 West to identify and isolate costs to provide service to Nucor and to remove them from
23 the FAC. These include PPA costs identifiable to Nucor, and the net effect of the sale of

1 PPA purchases for Nucor and the Nucor load. These costs and credits are adjusted in the
2 Company's model results.

3 **Q: What adjustments relating to Nucor has Evergy Missouri West included in this case?**

4 A: The amount of Nucor related adjustments is based on the adjusted and annualized values
5 from the Company's model results. These values will be updated to actual amounts for the
6 most recent 12 months at true-up.

7 **Q: What are ancillary services purchases and sales?**

8 A: As a participant in the SPP IM, Evergy Missouri West is obligated to provide or procure
9 certain ancillary services. These services include spinning, supplemental and regulating
10 reserves. Evergy Missouri West purchases its SPP-specified ancillary services from the
11 SPP-operated ancillary services market. In addition, Evergy Missouri West has the
12 opportunity to sell these ancillary services in the SPP-operated market.

13 **Q: What amount of ancillary services purchases and sales has Evergy Missouri West
14 included in this case?**

15 A: The amount of ancillary service purchases and sales included in this case is based on the
16 average annual actual costs and revenues incurred by Evergy Missouri West for the 3 years
17 ending June 2021. This adjustment is shown in Schedule ETP-3 (**Confidential**). These
18 values will be updated to actual amounts for the most recent 12 months at true-up.

19 **Q: What are the MINT line loss payments?**

20 A: These are payments made to AECI for transmission losses on the MINT line. AECI
21 provides coverage of the losses in-kind, and the Company reimburses AECI for its share.

1 **Q: What amount of MINT line loss payments has Evergy Missouri West included in this**
2 **case?**

3 A: The line loss payments included are based on the actual payments for the twelve months
4 ending June 2021. This adjustment is shown in Schedule ETP-3 (**Confidential**). These
5 values will be updated to the actual amounts for the most recent 12 months at true-up.

6 **Q: What are SPP's RNU charges?**

7 A: As a participant in the SPP IM, there are a number of miscellaneous charges and credits
8 incurred in order for SPP to remain revenue neutral. The charges and credits that make up
9 the RNU charges include items such as rounding errors and inadvertent interchange costs
10 or revenue. RNU is distributed among the market participants as either a debit (if SPP is
11 short of funds to balance payments between participants) or a credit (if SPP has collected
12 more than needed to balance payments between participants).

13 **Q: Why is it appropriate that Evergy Missouri West include net RNU charges in its**
14 **calculation of revenue requirements?**

15 A: As a participant in the SPP IM, Evergy Missouri West is exposed to RNU charges and
16 credits. These charges and credits are not included in the model used by the Company to
17 calculate fuel and purchased power costs. As such, the net SPP RNU charges have been
18 included as an adjustment to Evergy Missouri West's model results. Absent this
19 adjustment, RNU-related charges and credits would not otherwise be reflected in the
20 Company's retail cost of service.

21 **Q: What is the basis of the net SPP RNU charge amount included in this case?**

22 A: The RNU charges included in this case are based on the average annual charges for the 3
23 years ending June 2021. This adjustment is shown in Schedule ETP-3 (**Confidential**).

1 This RNU amount will be updated to the actual amount for the most recent 12 months at
2 true-up.

3 **IV. ELECTRIC UTILITY FUEL AND PURCHASED POWER COST RECOVERY**

4 **MECHANISM**

5 **Q: Regarding Evergy Missouri West’s request for continued use of an FAC which**
6 **portions of the Electric Utility Fuel and Purchased Power Cost Recovery Mechanism**
7 **filing requirements are you addressing in your testimony?**

8 A: I will address all or portions of the FAC Rule 20 CSR 4240-20.090(2)(A) 15, 16, and 17.
9 Requirement 15 addresses heat rate test results, requirement 16 addresses the long-term
10 resource planning process, and requirement 17 addresses forecasted environmental
11 investments.

12 **Q: Has Evergy Missouri West supplied the heat rate test results and documentation of**
13 **the actual test/monitoring procedures for its generating units required per 20 CSR**
14 **4240-20.090(2)(A)15 ?**

15 A: Yes. Heat rate test results conducted within the previous 24 months are provided in
16 Schedule ETP-4 (**Confidential**). The documentation of the actual test/monitoring
17 procedures is provided in Schedule ETP-5 (**Confidential**).

18 **Q: Please provide your support for 20 CSR 4240-20.090(2)(A)16.**

19 A: Requirement 16 requires the Company to provide:

20 “Information that shows that the electric utility has in place a long-term
21 resource planning process;”

22 Evergy Missouri West has a long-term resource planning process in place. The electric
23 utility resource plan produced by the process is also known as an integrated resource plan

1 (“IRP”). An objective of this planning process is to identify the least cost and preferred
2 resource plans while maintaining adequate capacity reserves for reliability.

3 **Q: When was Evergy Missouri West’s last IRP prepared?**

4 A: Evergy Missouri West prepared and filed its latest IRP update report in April 2021 in Case
5 No. EO-2021-0036.

6 **Q: When will the next Evergy Missouri West IRP be prepared?**

7 A: Under the current IRP rule, the next IRP is to be filed in March 2022. This will be an
8 annual update filing.

9 **Q: Please provide your support for 20 CSR 4240-20.090(2)(A)17. .**

10 A: Requirement 17 states:

11 “If the electric utility proposes to include emission allowances costs or sales
12 revenue in the proposed FAC and not in an environmental cost recovery
13 mechanism, a detailed explanation of its emissions management policy, and
14 its forecasted environmental investments, emissions allowances purchases,
15 and emissions allowances sales;”

16 At this time, Evergy Missouri West has no forecasted environmental investments that
17 would impact emission allowance costs or sales revenues.

18 The explanation of the Company’s emissions management policy and its forecasted
19 emissions allowances purchases and sales required by 20 CSR 4240-20.090(2)(A)17 can
20 be found in the Direct Testimony of Company witness Jessica Tucker.

21 **Q: Does that conclude your testimony?**

22 A: Yes, it does.

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of Evergy Missouri West, Inc. d/b/a)
Evergy Missouri West’s Request for Authority to) Case No. ER-2022-0130
Implement A General Rate Increase for Electric)
Service)

AFFIDAVIT OF ERIC T. PETERSON

STATE OF MISSOURI)
) ss
COUNTY OF JACKSON)

Eric T. Peterson, being first duly sworn on his oath, states:

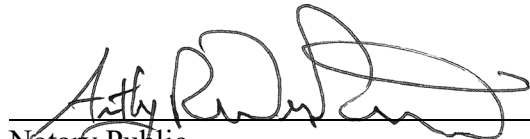
1. My name is Eric T. Peterson. I work in Kansas City, Missouri, and I am employed by Evergy Metro, Inc. as Director, Analytics & Shared Services.

2. Attached hereto and made a part hereof for all purposes is my Direct Testimony on behalf of Evergy Missouri West consisting of sixteen (16) pages, having been prepared in written form for introduction into evidence in the above-captioned docket.

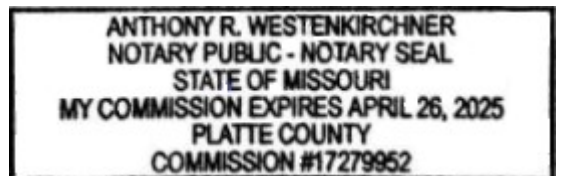
3. I have knowledge of the matters set forth therein. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded, including any attachments thereto, are true and accurate to the best of my knowledge, information and belief.


Eric T. Peterson

Subscribed and sworn before me this 7th day of January 2022.

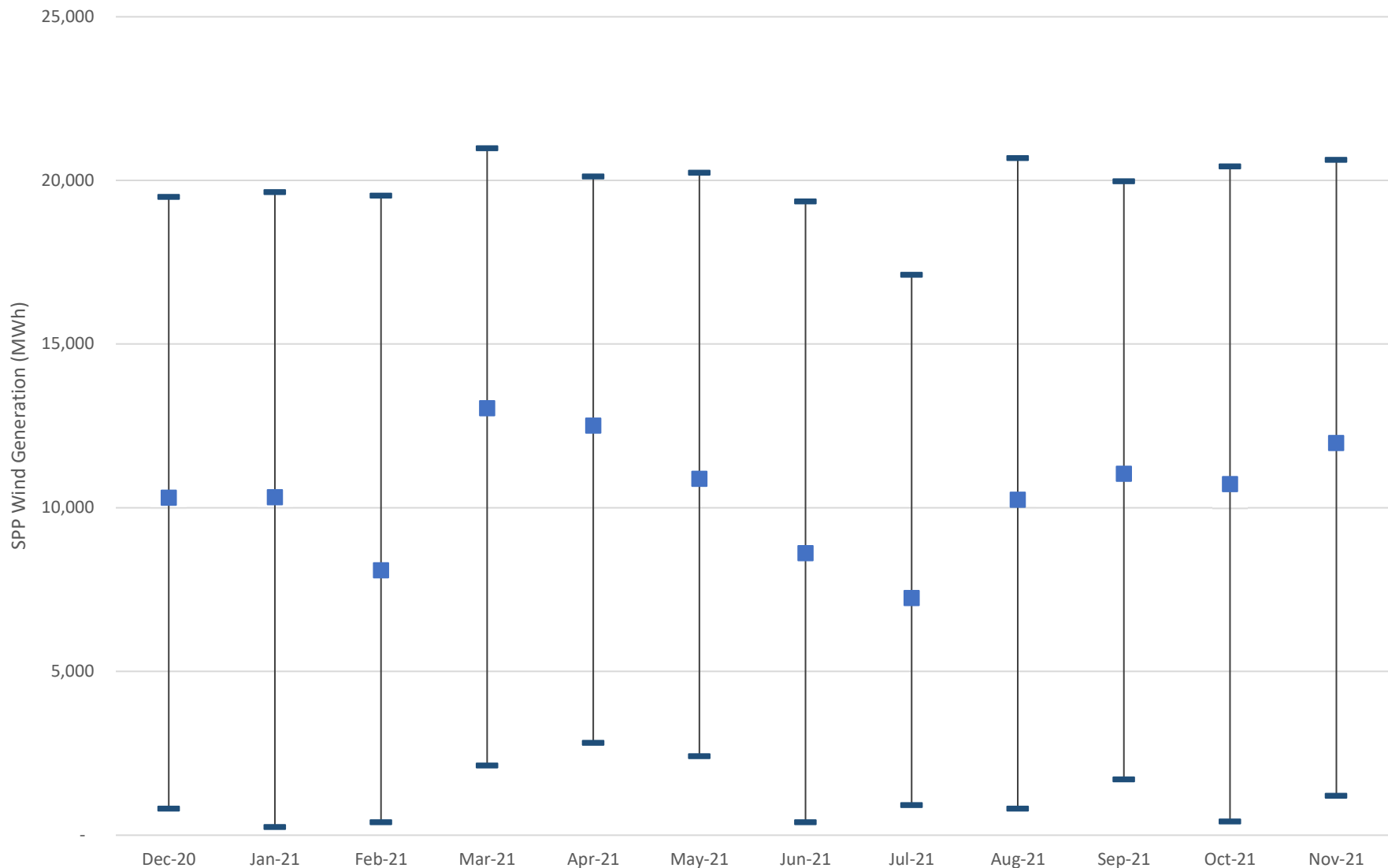

Notary Public

My commission expires: 4/26/2025



Volatility of Wind Generation in SPP Region

Minimum, Average and Maximum



Schedule ETP-1

**SCHEDULES ETP-2 THROUGH ETP-5
CONTAIN CONFIDENTIAL
INFORMATION
NOT AVAILABLE TO THE PUBLIC.

ORIGINALS FILED UNDER SEAL.**