

Pacific Power | Rocky Mountain Power 825 NE Multnomah, Suite 1600 Portland, Oregon 97232

April 19, 2021

The Honorable Kimberly D. Bose Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, DC 20426

RE: *PacifiCorp* Updated Transmission System Loss Factor, Docket No. ER21- -000

Dear Secretary Bose:

Pursuant to Section 205 of the Federal Power Act ("FPA"),¹ Part 35 of the Federal Energy Regulatory Commission's ("FERC" or the "Commission") regulations,² and Order No. 714,³ PacifiCorp hereby submits a proposed amendment to Schedule 10 of its Open Access Transmission Tariff ("OATT") to reflect an updated loss factor for Real Power Losses for use of PacifiCorp's Transmission System (the "Transmission System loss factor"). PacifiCorp respectfully requests that the amended Schedule 10 become effective June 1, 2021, to coincide with the effective date of PacifiCorp's 2021 Rate Year⁴ and consistent with the settlement agreement in Docket No. ER11-3643 that implemented PacifiCorp's transmission formula rate, as described further below.⁵

I. Background and Reason for Filing

a. <u>Requirement to update the Transmission System loss factor effective June 1</u>.

On May 26, 2011, PacifiCorp submitted its transmission and ancillary service rate case filing in Docket No. ER11-3643, in which PacifiCorp sought to modify its transmission rates and adopt a formula transmission rate. PacifiCorp proposed employing a formula rate to calculate its rates for Point-to-Point Transmission Service and Network Integration Transmission Service, with such rates being updated annually pursuant to Formula Rate Implementation Protocols.

¹ 16 U.S.C. § 824d (2018)

² 18 C.F.R. Part 35 (2020).

³ Electronic Tariff Filings, Order No. 714, 124 FERC ¶ 61,270 (2008).

⁴ "Rate Year" is defined in Attachment H-2, Section I(2) as follows "The Formula Rate shall be applicable to service on and after June 1 of a given calendar year through May 31 of the subsequent calendar year"

⁵ *PacifiCorp*, 143 FERC ¶ 61,162 (2013). The settlement agreement is referred to herein as the "Settlement Agreement".

PacifiCorp included in the Docket No. ER11-3643 rate case filing the following additions to its OATT: (1) Attachment H-1, which is the Formula; and (2) Attachment H-2, which are the Protocols. As noted earlier, a Settlement Agreement was reached in Docket No. ER113-3643 and was accepted by the Commission in a Letter Order dated May 23, 2013.

The Settlement Agreement reflected an amended OATT Schedule 10 that included an updated Transmission System loss factor of 4.26%.⁶ In Section 3.6.9 of the Settlement Agreement, PacifiCorp agreed to file an adjusted Transmission System loss factor under Schedule 10 following completion of every two segments of its Energy Gateway Project (or substantially similar transmission segments or combination thereof), once the segments have been in commercial operation for at least one full calendar year.⁷ The Settlement Agreement stipulates that the calculation for the Transmission System loss factor must be consistent with the spreadsheet calculation identified in Appendix 16 to the Settlement (the "Loss Factor Calculation") and be based on PacifiCorp's most recent FERC Form No. 1 data for the prior calendar year.⁸ Furthermore, the Settlement Agreement includes a Loss Analysis Methodology in Appendix 17 to be used prospectively in calculating adjustments to PacifiCorp's transmission system loss factor. Finally, Section 3.6.9 requires PacifiCorp to request the Commission accept the updated Transmission System loss factor effective June 1 of the calendar year in which the filing is made.⁹

b. <u>Completion of Sigurd to Red Butte segment and the Wallula McNary</u> <u>transmission segment</u>.

PacifiCorp completed and placed in-service the Sigurd to Red Butte segment of the Energy Gateway Project in May 2015. Subsequently, PacifiCorp placed in-service the Wallula McNary transmission segment, which is similar to the Energy Gateway Project, in January 2019. As such, PacifiCorp has prepared this filing to update its Transmission System loss factor following the full calendar year of commercial operation for the Wallula McNary segment (*i.e.*, 2020).

c. Timing of filing.

⁶ The updated Transmission System loss factor in OATT Schedule 10 also resulted in an update to the combination loss factor that is the sum of the transmission and distribution loss factors for uses of PacifiCorp's Transmission System and Distribution System, of 7.82%.

⁷ The Energy Gateway transmission expansion program was originally announced in 2007. It is a multiyear, multi-billion dollar transmission expansion plan aimed at adding more than 2,000 megawatts of new transmission across the West. More information on the plan and associated transmission segments can be located at: http://www.pacificorp.com/tran/tp/eg.html.

⁸ Section 3.6.9 also provides that, once triggered, PacifiCorp's update to its transmission system loss factor will be filed on or before April 1 following the full calendar year of commercial operation for the second of every two Energy Gateway Project segments (or substantially similar transmission segments or a combination thereof), with a request to the Commission that the updated transmission system loss factor be made effective June 1 of the calendar year in which the filing is made.

⁹ PacifiCorp's first filing under Section 3.6.9 of the Settlement Agreement was submitted in Docket No. E15-1524.

Section 3.6.9 of the Settlement Agreement provides that, once triggered, PacifiCorp's update to its Transmission System loss factor would be filed on or before April 1 following the full calendar year of commercial operation for the second of every two Energy Gateway Project segments (or substantially similar transmission segments or a combination thereof). PacifiCorp acknowledges that is it making this filing after April 1 of the calendar year following the full calendar year of commercial operation of the Wallula McNary segment. However, as noted earlier the update filing is required to be based on PacifiCorp's most recent FERC Form No. 1 data for the prior calendar year. PacifiCorp filed its FERC Form No. 1 on April 14, 2021, which lead to the need to delay the timing of this filing to update the Transmission System loss factor.

PacifiCorp requested via electronic communication an exception from the Settlement Agreement from the Settling Parties – Bonneville Power Administration, Deseret Power, Utah Associated Municipal Power Systems, and Utah Municipal Power Agency -- to make this filing shortly after the filing of its 2020 FERC Form No. 1. PacifiCorp received no opposition provided that potential intervenors are afforded a typical time frame (i.e., 21 days) to review the filing. PacifiCorp agrees with the Settling Parties.

II. Summary of Proposed Changes and Loss Factor Methodology

a. Changes in loss factor.

This filing contains a proposed amendment to Schedule 10 of PacifiCorp's OATT to reflect: (1) a Transmission System loss factor of 3.75%, which is a decrease from the current Transmission System loss factor of 4.45%. In addition, Schedule 10 of PacifiCorp's OATT includes an amendment to reflect the resulting combination loss factor of 7.31%, which is the result of adding the updated Transmission System loss factor of 3.75% and the existing distribution loss factor of 3.56% for uses of PacifiCorp's Transmission and Distribution Systems.¹⁰

As described in detail below, PacifiCorp followed the loss calculation and methodology pursuant to Appendix 16 and Appendix 17 of the Settlement Agreement. Contributing factors to the decrease in the Transmission System loss factor based on 2020 FERC Form No. 1 data over 2014 FERC Form No. 1 data used for the loss factor include:

- a decrease in total energy losses from 4.6m megawatt hours in 2014 to 3.7m megawatt hours in 2020;
- a decrease in the proportion of transmission sales to ultimate customers from 14.1m megawatt hours in 2014 to 12.5m megawatt hours in 2020 relative to an increase in distribution sales to ultimate customers; and
- a decrease in off-system sales and purchases from 5.6m megawatt hours in 2014 to 3.2m megawatt hours in 2020.

¹⁰ PacifiCorp is not proposing to update its loss factor for use of its Distribution System in this filing.

Each of these factors contributed to a decrease in the Transmission System loss factor and, in particular, given a decrease in total system resources of 70m megawatt hours in 2014 to approximately 61.5m megawatt hours in 2020.

b. Loss calculation and methodology.

PacifiCorp's calculations resulting in the updated Transmission System loss factor are demonstrated in the enclosed Loss Factor Calculation. The calculations in the Loss Factor Calculation are consistent with Appendix 16 of the Settlement Agreement.

To reinforce this and assist in the review of the calculation, PacifiCorp includes herewith as Enclosure 4 a matrix identifying the source materials, assumptions, and underlying calculations for each input of the Loss Factor Calculation. Consistent with the Settlement Agreement, PacifiCorp used the methodology outlined in the Loss Analysis Methodology in recalculating its Transmission System loss factor, using 2020 data from its FERC Form No. 1 and other settlement data.

The Loss Factor Calculation spreadsheet enclosed in this filing as Enclosure 3 is structured in the following components, which contribute to the calculation of the resulting Transmission System loss factor:

- Input data from PacifiCorp's 2020 FERC Form No. 1 page 401a: This includes the white-shaded section that summarizes data sourced directly from the FERC Form No. 1 and lists the total energy sources (received) and uses (delivered) on PacifiCorp's transmission system.
- Recalculated and Adjusted Received and Delivered Energy: This includes the green-shaded section that identifies the component and contract types of energy received including amount of energy received for losses as reported in the FERC Form No. 1. No adjustments were identified to the 2020 FERC Form No 1 data for modeling of the 2020 Loss Study.
- **Transmission and Distribution Losses Adjustments and Allocation:** This includes the yellow-shaded heading and following section that demonstrates the calculations and amounts used to complete the adjustments made to the received and delivered inputs in the green-shaded section described above under "Recalculated and Adjusted Received and Delivered Energy". This section also includes the allocation of losses between transmission and distribution.

The Loss Factor Calculation includes Attachments A through E that provide supporting documentation for the data used in the sections described above and as detailed in the matrix provided as Enclosure 4 to this filing. These attachments were included with the 2010 Loss Factor Calculation. For this Loss Factor Calculation, PacifiCorp has added as Attachment F an additional supporting workpaper titled "2020 Off-System Sales/Purchases Summary". This attachment details the volume of PacifiCorp Energy's off-system transactions sourced from Company e-Tag data, which is deducted from 401a line 24, "Non-requirements Sales for Resale".

In addition to the Loss Factor Calculation spreadsheet, in Docket No. ER15-1524, intervenors raised concerns about the impact of E-Tag queries used by PacifiCorp and the impact on the resulting Transmission System Loss factor. In response to these concerns, PacifiCorp includes Enclosure 5 to this filing, which provides a high level explanation of the minor filter adjustments PacifiCorp made to the 2010 E-Tag query used in Docket No. ER11-3643.

c. Adjustments to FERC Form No. 1 reporting practices and calculation methodology.

In addition, in the Loss Analysis Methodology, PacifiCorp committed to make adjustments to its FERC Form No. 1 reporting practices and calculation methodology so that the data used would more closely tie to its FERC Form No. 1 on an ongoing basis. Specifically, PacifiCorp has made the following changes to its FERC Form No. 1 page 328 and Loss Factor Calculation consistent with the commitments outlined in the Loss Analysis Methodology:

- Page 328 includes an accrual variance entry to reflect calendar year amounts of energy received and delivered. The Loss Factor Calculation contains an itemization of the accrual amount in megawatt hours per the components used in the Loss Factor Calculation as shown on Attachment C, "Accrual Received".
- The Loss Factor Calculation on Attachment C and through items 16 and 17 separately specifies energy and loss amounts associated with Western Area Power Administration ("WAPA") rate schedules as reported in the Form 1, page 329, and page 401a, lines 16 and 17.
- Page 328 no longer includes accounting amounts related to WAPA rate schedule 262 tracking for water rights, which does not impact transmission energy delivered or received.
- The value of line 24 as reported in the FERC Form No. 1 page 401a, "Nonrequirements Sales for Resale" is adjusted to remove 1) bus sales at locations where PacifiCorp transmission was not utilized with source data from either e-Tag records or Electric Quarterly Report entries as shown in the Loss Factor Calculation item 16 and 2) on-system sales to others for purposes of load service within PacifiCorp's Balancing Authority Area as shown in the Loss Factor Calculation item 15.
- The distribution loss factor, for purposes of calculating the amount of distribution losses on the system, was held constant at 4.64% based on the

2007 loss study and consistent with Appendix 16 of the Settlement Agreement.

• Retail customers taking service under transmission voltages do not include distribution losses as shown in the Loss Factor Calculation item 30.

III. Rate Impact to Customers and Statements BG/BH

PacifiCorp has calculated an estimated revenue impact of the revised Transmission System loss factor and the estimated impact to transmission customers. To determine the effect, PacifiCorp calculated the estimated change in annual revenue if the proposed Transmission System loss factor of 3.75% had been in effect in 2020 instead of the current Transmission System loss factor of 4.45%.

The estimated revenue impact of the proposed Transmission System loss factor is shown in Enclosure 1 to the filing: Statement BG (Revenue data to reflect changed rates) and Statement BH (Revenue data to reflect present rates). The billing determinants for the Statements BG/BH revenue calculation reflect the actual billing units of services provided to transmission customers in 2020. The estimated impact on revenue for 2020 resulting from the update is a decrease of approximately \$902,213 or approximately 0.2% of total annual revenue for the 12-month period ending December 31, 2020.

IV. Enclosures

The following enclosures are included in this filing:

- Enclosure 1 Statements BG and BH demonstrating the revenue impact of the proposed change to Schedule 10 of PacifiCorp's OATT;
- Enclosure 2 Revised Schedule 10 of PacifiCorp's OATT (clean and redlined versions);
- Enclosure 3 Loss Factor Calculation, consistent with Appendix 16 of the Settlement Agreement;
- Enclosure 4 Matrix explaining the inputs, source material, and assumptions used in the Loss Factor Calculation, consistent with Appendix 17 of the Settlement Agreement; and
- Enclosure 5 A high level explanation of the adjustments to filters made to the 2010 E-Tag query from Docket No. ER11-3643.

In addition to the items provided in the enclosures described above, the Loss Factor Calculation provided in Enclosure 3 has been made available in native format on PacifiCorp's OASIS website at the address listed in Section VII below.

V. Effective Date and Requests for Waiver

Pursuant to 18 C.F.R. § 35.11, PacifiCorp respectfully requests waiver of the Commission's notice requirement to permit an effective date for the amended OATT Schedule 10 of June 1, 2021. The Commission may provide that tariff revisions shall be effective as of a date prior to date they would otherwise become effective under the Commission's regulations, for good cause shown.¹¹ The Commission will ordinarily find good cause for granting waiver of the prior notice requirement if: (1) the filing reduces rates and charges; or (2) the filing increases rates and the rate change and effective date are prescribed by contract, such as annual rate revisions required by contract to become effective on a date specified in the contract.¹²

Good cause exists in this case because the Settlement Agreement required: (1) the updated loss factor to be based on PacifiCorp's 2020 FERC Form No. 1, which was filed on April 14, 2021 and, accordingly, impacted the timing of this filing, and (2) a June 1 effective date for the amended OATT Schedule 10, which coincides with the new transmission charges reflected in PacifiCorp's next annual update of its formula transmission rate, which will be effective June 1, 2021. Moreover, as noted above, the estimated impact on revenue resulting from this update is a decrease of approximately \$902,213 or approximately 0.2% of total annual revenue for the 12-month period ending December 31, 2020.

To the extent necessary, PacifiCorp requests waiver of the full requirements of 18 C.F.R. § 35.13, as good cause exists for granting a waiver of the requirement to file the full range of information required by Section 35.13. The Commission has previously granted waiver of the requirement that utilities provide all of the cost of service information required by Section 35.13 in similar cases.¹³ PacifiCorp respectfully requests waiver of any requirements of the Commission's rules and regulations, as well as any authorizations as may be necessary or required, to permit the revised Transmission System loss factor and combination loss factor to be accepted by FERC and made effective in the manner proposed herein.

VI. Communications

All communications and correspondence regarding this filing should be forwarded to the following persons:

¹¹ 18 C.F.R. § 35.11.

¹² See Central Hudson Gas & Elec. Corp., 60 FERC ¶ 61,106 at 61,338 (1992).

¹³ See, e.g., Westar Energy, Inc., 131 FERC ¶ 61,183 at P 21 (2010).

Matthew Loftus Senior Counsel PacifiCorp 825 NE Multnomah St., Suite 1600 Portland, OR 97232 Phone: (503) 813-6642 Matthew.Loftus@pacificorp.com Rick Vail Vice President, Transmission PacifiCorp 825 NE Multnomah St., Suite 1600 Portland, OR 97232 Phone: (503) 813-6938 Richard.Vail@pacificorp.com

VII. Service

PacifiCorp is providing an electronic copy of this filing to all transmission customers pursuant to PacifiCorp's OATT, if such customers have provided PacifiCorp an e-mail contact address. To the extent that any such customers have not provided PacifiCorp a contact e-mail, PacifiCorp has served such customers with a hard copy of this filing to the last customer mailing address on file.

In addition, PacifiCorp posts this filing on its OASIS website: <u>http://www.oatioasis.com/ppw/</u>. The filing is centralized in the following folder on the OASIS site: "Transmission System Loss Factor 2021."¹⁴ As indicated above, the posting includes not only the items included in this filing but also the Loss Factor Calculation in Enclosure 3 in native format.

For the foregoing reasons, PacifiCorp respectfully requests that the Commission accept PacifiCorp's this filing, effective June 1, 2021 as requested. If you have any questions, or if I can be of further assistance, please do not hesitate to contact me.

Respectfully Submitted,

<u>/s/ Matthew Loftus</u> Matthew Loftus

Attorney for PacifiCorp

¹⁴ See following folder location: PacifiCorp OASIS Tariff/Company Information/OATT Pricing/Transmission System Loss Factor 2021.

CERTIFICATE OF SERVICE

I hereby certify that I have on this day caused a copy of the foregoing document to be served via first-class mail or electronic mail upon each of the parties listed in the enclosed Service List.

Dated at Portland, Oregon this 19th day of April 2021.

<u>/s/ Christian Marble</u>

Christian Marble Sr. Business Associate PacifiCorp 825 NE Multnomah St Suite 2000 Portland, OR 97232 (503) 813-6640 christian.marble@pacificorp.com

SCHEDULE 10

Real Power Losses

For Service Over the Transmission Provider's Transmission System:

Any use of the Transmission Provider's Transmission System, excluding EIM participation, shall be assessed Real Power Losses in the following amounts:

Use of any portion of the Transmission 3.75% System at a voltage of 46kV or greater Use of any portion of the Distribution 3.56% System at a voltage 34.5 kV or less Use of a combination of the Transmission 7.31% System and the Distribution System

For Service on the PacifiCorp COI Segment:

Real Power Losses shall be calculated in accordance with Attachment S for Transmission Service on the PacifiCorp COI Segment.

Service Over PacifiCorp Facilities in Other Control Areas: For Transmission Service provided over PacifiCorp lines located in another control area, any Real Power Losses assessed to PacifiCorp by the adjacent control area associated with the Customer's service will be passed through to the Transmission Customer. In instances where service is provided by PacifiCorp and an adjacent control area, any Real Power Losses assessed by the adjacent control area to PacifiCorp will be passed through to the Transmission Customer in addition to PacifiCorp Real Power Losses identified in this section.

Settlement of Transmission Losses: Unless Transmission Service is subject to Attachment S of the Tariff, a Transmission Customer taking Network Integration Transmission Service, Firm or Non-Firm Point-to-Point Transmission Service shall be responsible for Real Power Losses as provided for in Section 15.7 of the Tariff, this Schedule 10 and the Transmission Provider's business practices posted on OASIS. A Transmission Customer shall have the option to settle Real Power Losses pursuant to section (a) (Financial Settlement) or section (b) (Physical Delivery) subject to the Transmission Provider's business practices posted on OASIS.

(a) **Financial Settlement.**

(i) Charges for Transmission Losses. For each hour where the Transmission Provider provides loss service, the Transmission Customer shall compensate the Transmission Provider at a rate equal to the average hourly LAP price for the PACE and PACW BAAs, as established by the MO under Section 29.11(b)(3)(C) of the MO Tariff, multiplied by the energy for such hour based on a Transmission Customer's metered load actual amounts (for a Transmission Customer taking Network Integration Transmission Service) or actual amounts of power scheduled to be delivered at Point(s) of Delivery (for a Transmission Customer taking Point-to-Point Transmission Service).

A spreadsheet showing the average LAP prices for each hour of the previous month shall be accessible through the Transmission Provider's OASIS.

(b) Physical Delivery. Transmission Customers opting for physical delivery shall schedule losses to the Transmission Provider concurrently with transmission schedules. The Transmission Provider shall deliver to the Point(s) of Delivery the amount of power received from a Transmission Customer at Point(s) of Receipt, reduced for losses from the Point(s) of Receipt to the Point(s) of Delivery. The amount delivered to the Point(s) of Delivery shall be determined to be the amount of power received from a Transmission Customer at the Point(s) of Receipt divided by (1 + Real Power Losses rate) and the amount of losses shall be determined to be the amount of power received from a Transmission Customer at Point(s) of Receipt multiplied by (1 - 1)/(1 + Real Power Losses rate). Any hourly differences between the amounts of power scheduled to be delivered at Point(s) of Delivery (plus applicable Real Power Losses) and the actual amounts of energy received at Point(s) of Receipt shall be accounted for as Energy Imbalance subject to charges pursuant to Schedule 4.

Real Power Losses Updates: PacifiCorp shall update Schedule 10 factors for Real Power Losses following completion of every two Energy Gateway Project segments (or substantially similar transmission segments or combination thereof) which have been placed into commercial operation for at least one full calendar year. PacifiCorp's update to the Transmission System loss

factor shall be filed on or before April 1 following the full calendar year of commercial operation for the second of every two Energy Gateway Project segments (or substantially similar transmission segments or combination thereof) with a request to the Commission that the updated Transmission System loss factor be made effective June 1 of the calendar year in which the filing is made. Such filing shall be based on the most recent FERC Form No. 1 data for the prior calendar year. The update calculation shall be consistent with the methodology agreed upon in ER11-3643 and shall be based on annual sources and uses of energy from FERC Form No. 1, p. 401a, with adjustments to remove any energy source and corresponding energy use (i) which is not scheduled or otherwise transacted using PacifiCorp's transmission system, (ii) which is duplicative of, in part or whole, another energy source or energy use already represented in the data on FERC Form No. 1, p. 401a, and (iii) which represent financially settled losses (i.e., no actual physical losses).

SCHEDULE 10

Real Power Losses

For Service Over the Transmission Provider's Transmission System:

Any use of the Transmission Provider's Transmission System, excluding EIM participation, shall be assessed Real Power Losses in the following amounts:

| Use of any portion of the Transmission | 4.45% <u>3.75%</u> |
|--|-------------------------------|
| System at a voltage of 46kV or greater | |
| Use of any portion of the Distribution | 3.56% |
| System at a voltage 34.5 kV or less | |
| Use of a combination of the Transmission | 8.01% 7.31% |
| System and the Distribution System | |

For Service on the PacifiCorp COI Segment:

Real Power Losses shall be calculated in accordance with Attachment S for Transmission Service on the PacifiCorp COI Segment.

Service Over PacifiCorp Facilities in Other Control Areas:

For Transmission Service provided over PacifiCorp lines located in another control area, any Real Power Losses assessed to PacifiCorp by the adjacent control area associated with the Customer's service will be passed through to the Transmission Customer. In instances where service is provided by PacifiCorp and an adjacent control area, any Real Power Losses assessed by the adjacent control area to PacifiCorp will be passed through to the Transmission Customer in addition to PacifiCorp Real Power Losses identified in this section.

Settlement of Transmission Losses: Unless Transmission Service is subject to Attachment S of the Tariff, a Transmission Customer taking Network Integration Transmission Service, Firm or Non-Firm Point-to-Point Transmission Service shall be responsible for Real Power Losses as provided for in Section 15.7 of the Tariff, this Schedule 10 and the Transmission Provider's business practices posted on OASIS. A Transmission Customer shall have the option to settle Real Power Losses pursuant to section (a) (Financial Settlement) or section (b) (Physical Delivery) subject to the Transmission Provider's business practices posted on OASIS.

(a) **Financial Settlement**.

(i) Charges for Transmission Losses. For each hour where the Transmission Provider provides loss service, the Transmission Customer shall compensate the Transmission Provider at a rate equal to the average hourly LAP price for the PACE and PACW BAAs, as established by the MO under Section 29.11(b)(3)(C) of the MO Tariff, multiplied by the energy for such hour based on a Transmission Customer's metered load actual amounts (for a Transmission Customer taking Network Integration Transmission Service) or actual amounts of power scheduled to be delivered at Point(s) of Delivery (for a Transmission Customer taking Point-to-Point Transmission Service).

A spreadsheet showing the average LAP prices for each hour of the previous month shall be accessible through the Transmission Provider's OASIS.

Physical Delivery. Transmission Customers opting for (b) physical delivery shall schedule losses to the Transmission Provider concurrently with transmission schedules. The Transmission Provider shall deliver to the Point(s) of Delivery the amount of power received from a Transmission Customer at Point(s) of Receipt, reduced for losses from the Point(s) of Receipt to the Point(s) of Delivery. The amount delivered to the Point(s) of Delivery shall be determined to be the amount of power received from a Transmission Customer at the Point(s) of Receipt divided by (1 + Real Power Losses rate) and the amount of losses shall be determined to be the amount of power received from a Transmission Customer at Point(s) of Receipt multiplied by (1 - 1)/(1 + Real Power Losses rate). Any hourly differences between the amounts of power scheduled to be delivered at Point(s) of Delivery

(plus applicable Real Power Losses) and the actual amounts of energy received at Point(s) of Receipt shall be accounted for as Energy Imbalance subject to charges pursuant to Schedule 4.

Real Power Losses Updates: PacifiCorp shall update Schedule 10 factors for Real Power Losses following completion of every two Energy Gateway Project segments (or substantially similar transmission segments or combination thereof) which have been placed into commercial operation for at least one full calendar year. PacifiCorp's update to the Transmission System loss factor shall be filed on or before April 1 following the full calendar year of commercial operation for the second of every two Energy Gateway Project segments (or substantially similar transmission segments or combination thereof) with a request to the Commission that the updated Transmission System loss factor be made effective June 1 of the calendar year in which the filing is made. Such filing shall be based on the most recent FERC Form No. 1 data for the prior calendar year. The update calculation shall be consistent with the methodology agreed upon in ER11-3643 and shall be based on annual sources and uses of energy from FERC Form No. 1, p. 401a, with adjustments to remove any energy source and corresponding energy use (i) which is not scheduled or otherwise transacted using PacifiCorp's transmission system, (ii) which is duplicative of, in part or whole, another energy source or energy use already represented in the data on FERC Form No. 1, p. 401a, and (iii) which represent financially settled losses (i.e., no actual physical losses).

Enclosure 1

Statements BG and BH

PACIFICORP ANNUAL COMPARISON OATT PARTS II & III SERVICE AND LEGACY AGREEMENTS 2020

| Line | Service/ Customer: Service Agreement ("SA") No. | | Present (revenues under current loss system factor) | | Changed evenues under proposed loss ystem factor) | Absolute difference (changed minus present) | Percent difference |
|----------------|---|-----------------|--|----------|--|--|----------------------------|
| | OATT Part II Long-Term Firm Point-to-Point Transmission Service | | | | | | |
| 1 | PacifiCorp: multiple SAs | \$ | 84,867,053 | s | 84,298,293 | \$ (568,760) | -0.67% |
| 2 | Black Hills: SA 67 | \$ | 1,696,586 | \$ | 1,685,215 | (11,370) | -0.67% |
| 3 | BPA GS: SA 179 | \$ | 610,771 | \$ | 606,678 | (4,093) | -0.67% |
| 4 | BPA - Lost Creek: SA 656 | \$ | 1,900,176 | \$ | 1,887,441 | (12,735) | -0.67% |
| 5 | City of Roseville SA 881 [1] | \$ | 1,636,764 | | 1,636,764 | (12,755) | 0.00% |
| 6 | Evergreen Bio SA 874 | \$ | 339,317 | | 337,043 | (2,274) | -0.67% |
| 7 | Idaho Power: SA 212 | \$ | 703,037 | | 698,326 | (4,712) | -0.67% |
| 8 | Avangrid Renewables, LLC: S.A. 895 | \$ | 1,017,951 | | 1,011,129 | (6,822) | -0.67% |
| 9 | Thermo No. 1 (Cyrq Energy): SA 568 | \$ | 373,249 | | 370,747 | (2,501) | -0.67% |
| 10 | Powerex: SA 169 | \$ | 2,714,537 | | 2,696,345 | (18,192) | -0.67% |
| 11 | NextEra: SA 733 | \$ | 3,092,085 | \$ | 3,071,363 | (20,722) | -0.67% |
| 12 | Salt River Project: SA 809 | \$ | 848,293 | | 842,608 | (5,685) | -0.67% |
| 12 | EWEB SA 605 | \$ | 848,293 | | 842,608 | (5,685) | -0.67% |
| 14 | State of South Dakota: SA 779 | \$ | 135,727 | | 134,817 | (910) | -0.67% |
| 14 | Sacramento MUD: SA 863 | \$ \$ | 644,703 | | 640,382 | (4,321) | -0.67% |
| | | \$ \$ | | | | | |
| 16 17 | Clatskanie Peoples Utility District: SA 899/900/901 Powaray: SA 700 [1] | \$ \$ | 508,976 | | 505,565 | (3,411) | -0.67% |
| | Powerex: SA 700 [1] | \$ \$ | 3,273,528 | \$ | 3,273,528 | | 0.00% |
| 18 | Powerex: SA 701 [1] | | 3,273,528 | | 3,273,528 | - | 0.00% |
| 19 | Powerex: SA 702 [1] | \$ | 3,273,528 | \$ | 3,273,528 | - | 0.00% |
| 20 | Powerex: SA 748 [1] | \$ | 1,636,764 | | 1,636,764 | | 0.00% |
| 21 | Powerex: SA 749 [1] | \$ | 4,910,292 | \$ | 4,910,292 | - | 0.00% |
| 22 | Garrett Solar: SA 966 | \$ | 339,317 | | 337,043 | (2,274) | -0.67% |
| 23 | Airport Solar: SA 965 | \$ | 1,696,586 | | 1,685,215 | (11,370) | -0.67% |
| 24 25 | Falls Creek: SA 868 Subtotal | <u>\$</u> \$ | 141,538 120,482,597 | \$ \$ | 140,590 | (949) \$ (686,785) | -0.67% |
| 27 28 29 | BPA Yakama: SA 328 BPA Gazely: SA 229 BPA Clark: SA 735 BPA D. The analysis of the second sec | \$ \$ \$ | | \$ \$ | 174,687 105,874 727,967 | (1,159) (714) (4,912) (151) | -0.66% -0.67% -0.67% |
| 30 | BPA Benton/Rimrock: SA 539 | \$ | 22,604 | \$ | 22,453 | (151) | -0.67% |
| 31 | BPA Ore Wind: SA 538 | \$ | 5,172 | \$ | 5,137 | (35) | -0.67% |
| 32 | BPA S. Idaho: SA 746 | \$ | 7,101,084 | \$ | 7,066,638 | (34,446) | -0.49% |
| 33 | BPA Idaho Falls SA 747 | \$ | 3,082,348 | \$ | 3,061,690 | (20,658) | -0.67% |
| 34 | Tri State: SA 628 | \$ | 564,841 | \$ | 564,638 | (202) | -0.04% |
| 35 | Calpine Energy Solutions: SA 299 | \$ | 471,004 | | 467,848 | (3,157) | -0.67% |
| 36 | Basin: SA 505 | \$ | 318,152 | | 316,020 | (2,132) | -0.67% |
| 37 | Black Hills: SA 347 [1] | \$ | | | 1,527,102 | - | 0.00% |
| 38 | USBR (Burbank): SA 506 | \$ | 8,849 | | 8,790 | (59) | -0.67% |
| 39 | WAPA: SA 175 | \$ | 43,340 | | 43,049 | (290) | -0.67% |
| 40 | Exelon Generation: SA 943 | \$ | 35,283 | \$ | 35,047 | (236) | -0.67% |
| 41 | Avangrid Renewables, LLC: SA 742 | \$ | 1,084,701 | \$ | 1,077,431 | (7,269) | -0.67% |
| 42 | BPA CEC SA 827 | \$ | 1,507 | | 1,497 | (10) | -0.67% |
| 43 | BPA Airport Solar SA 865 | \$ | 1,504 | \$ | 1,494 | (10) | -0.67% |
| 44 | BPA WEID SA 975 | \$ | 1,610 | \$ | 1,599 | (11) | -0.67% |
| 45 | 3 Phases Renewables Inc. SA 876 | \$ | 8,108 | | 8,054 | (54) | -0.67% |
| 46 | NTUA SA 894 | \$ | 77,905 | | 77,386 | (520) | -0.67% |
| 47 | Subtotal | \$ | 298,278,417 | \$ | 298,202,391 | \$ (76,027) | -0.03% |
| | Legacy Agreements (these loads already include losses) | | | | | | |
| 48 | UAMPS: RS 297 | \$ | 17,493,682 | | 17,399,406 | \$ (94,275) | -0.54% |
| 49 | UMPA: RS 637 | \$ | 2,635,708 | \$ | 2,618,063 | (17,645) | -0.67% |
| 50 | DGT: RS 280 | \$ | 4,480,620 | \$ | 4,453,139 | (27,480) | -0.61% |
| 51 | WAPA OIS: RS 262/RS263 | \$ | - | \$ | | | 0.00% |
| | Subtotal (Legacy Agreements) | \$ | 24,610,010 | \$ | 24,470,609 | \$ (139,400) | -0.57% |
| 52 | | | | | | | |

N/A

PACIFICORP STATEMENT BH — REVENUE DATA TO REFLECT PRESENT RATES OATT PARTS II & III SERVICE AND LEGACY AGREEMENTS 2020

Current Transmission Loss System Factor 4.45%

| Line | Service/ Customer: Service Agreement ("SA")/Rate Schedule ("RS") No. | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|----------|--|------------------|---------------------|----------------------|----------------------|-----------------|---------------|------------------------|---------------------------|---------------------------|-----------------|-------------------|----------------------|-----------|
| | OATT Part II Long-Term Firm Point-to-Point Transmission Service (we add on the b | osses %) | | | | | | | | | | | | |
| 1 | PacifiCorp: multiple SAs | 6,969,469 | 6,969,469 | 6,969,469 | 6,969,469 | 6,969,469 | 7,145,672 | 7,145,672 | 7,145,672 | 7,145,672 | 7,145,672 | 7,145,672 | 7.145.672 | 84,867,05 |
| 2 | Black Hills: SA 67 | 142,467 | 142,467 | 142,467 | 142,467 | 142,467 | 140,607 | 140,607 | 140,607 | 140,607 | 140,607 | 140,607 | 140,607 | 1,696,58 |
| 3 | BPA GS: SA 179 | 51,288 | 51,288 | 51,288 | 51,288 | 51,288 | 50,619 | 50,619 | 50,619 | 50,619 | 50,619 | 50,619 | 50,619 | 610,77 |
| 4 | BPA - Lost Creek: SA 656 | 159,563 | 159,563 | 159,563 | 159,563 | 159,563 | 157,480 | 157,480 | 157,480 | 157,480 | 157,480 | 157,480 | 157,480 | 1,900,1 |
| 5 | City of Roseville SA 881 ^[1] | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 1,636,7 |
| 6 | Evergreen Bio SA 874 | 28,493 | 28,493 | 28,493 | 28,493 | 28,493 | 28,121 | 28,121 | 28,121 | 28,121 | 28,121 | 28,121 | 28,121 | 339.3 |
| 7 | Idaho Power: SA 212 | - | - | - | - | - | 140,607 | 140,607 | 140,607 | 140,607 | 140,607 | - | - | 703, |
| 8 | Avangrid Renewables, LLC: S.A. 895 | 85,480 | 85,480 | 85,480 | 85,480 | 85,480 | 84,364 | 84,364 | 84,364 | 84,364 | 84,364 | 84,364 | 84,364 | 1,017,9 |
| 9 | Thermo No. 1 (Cyrq Energy): SA 568 | 31,343 | 31,343 | 31,343 | 31,343 | 31,343 | 30,934 | 30,934 | 30,934 | 30,934 | 30,934 | 30,934 | 30,934 | 373, |
| 10 | Powerex: SA 169 | 227,947 | 227,947 | 227,947 | 227,947 | 227,947 | 224,972 | 224,972 | 224,972 | 224,972 | 224,972 | 224,972 | 224,972 | 2,714,: |
| 11 | NextEra: SA 733 | 282,084 | 282,084 | 282,084 | 282,084 | 282,084 | 224,972 | 224,972 | 224,972 | 224,972 | 224,972 | 278,403 | 278,403 | 3,092, |
| 12 | Salt River Project: SA 809 | 71,233 | 71,233 | 71,233 | 71,233 | 71,233 | 70,304 | 70,304 | 70,304 | 70,304 | 70,304 | 70,304 | 70,304 | 848, |
| 13 | EWEB SA 605 | 71,233 | 71,233 | 71,233 | 71,233 | 71,233 | 70,304 | 70,304 | 70,304 | 70,304 | 70,304 | 70,304 | 70,304 | 848,2 |
| 14 | State of South Dakota: SA 779 | 11,397 | 11,397 | 11,397 | 11,397 | 11,397 | 11,249 | 11,249 | 11,249 | 11,249 | 11,249 | 11,249 | 11,249 | 135, |
| 15 | Sacramento MUD: SA 863 | 54,137 | 54,137 | 54,137 | 54,137 | 54,137 | 53,431 | 53,431 | 53,431 | 53,431 | 53,431 | 53,431 | 53,431 | 644, |
| 16 | Clatskanie Peoples Utility District: SA 899/900/901 | 42,740 | 42,740 | 42,740 | 42,740 | 42,740 | 42,182 | 42,182 | 42,182 | 42,182 | 42,182 | 42,182 | 42,182 | 508, |
| 17 | Powerex: SA 700 ^[1] | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 3,273, |
| 18 | Powerex: SA 701 ^[1] | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 3,273, |
| 19 | Powerex: SA 702 ^[1] | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 3,273. |
| 20 | Powerex: SA 748 ^[1] | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 1,636, |
| 21 | Powerex: SA 749 ^[1] | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 4,910, |
| 22 | Garrett Solar: SA 966 | 28,493 | 28,493 | 28,493 | 28,493 | 28,493 | 28,121 | 28,121 | 28,121 | 28,121 | 28,121 | 28,121 | 28,121 | 339, |
| 23 | Airport Solar: SA 965 | 142,467 | 142,467 | 142,467 | 142,467 | 142,467 | 140,607 | 140,607 | 140,607 | 140,607 | 140,607 | 140,607 | 140,607 | 1,696, |
| 24 25 | Falls Creek: SA 868 Subtotal | 9,914,448 | 14,247 9,914,448 | 14,247 9,914,448 | 14,247 | 14,247 | 14,061 | 2,812 | 2,812 | 8,436 | 14,062 | 14,061 10.071,799 | 14,061 | 141, |
| 23 | Subtotai | 9,914,440 | 9,914,448 | 5,514,448 | 9,914,448 | 9,914,448 | 10,158,976 | 10,147,727 | 10,147,727 | 10,153,351 | 10,158,977 | 10,0/1,/99 | 10,071,799 | 120,482, |
| | OATT Part III - Network Service (these loads already include losses) | | | | | | | | | | | | | |
| 26 27 | PacifiCorp: SA 66 ^[1] | 22,714,370 | 22,427,265 | 20,891,729 15,874 | 18,887,310 14,084 | 23,869,129 | 25,782,868 | 28,578,270 | 28,770,170 15,080 | 26,238,009 | 21,212,819 | 20,963,976 | 22,572,075 11.846 | 282,907, |
| | BPA Yakama: SA 328 | 20,320 | 19,570 | | | 11,981 | 11,200 | 13,812 | | 13,367 | 15,403 | 13,308 | | 175, |
| 28 | BPA Gazely: SA 229 | 8,907 | 9,381 | 9,578 | 7,597 | 8,176 | 9,213 | 10,059 48,774 | 9,604 | 9,717 | 8,160 | 8,064 | 8,134 | 106,: |
| 29 30 | BPA Clark: SA 735 | 79,678 3,699 | 85,109 3,443 | 65,443 3,063 | 61,962 2,545 | 38,870 1,004 | 46,028 913 | 48,774 | 46,058 991 | 46,456 923 | 71,490 2,474 | 67,451 2,477 | 75,558 | 732,8 |
| 31 | BPA Benton/Rimrock: SA 539 BPA Ore Wind: SA 538 | 3,099 | | 5,065 | 2,545 | 450 | 1.074 | 1,072 | 956 | 923 | 1.026 | 2,477 | - 1.524 | 22, |
| 32 | BPA Ore wind: SA 558 BPA S. Idaho: SA 746 | 721,426 | - 821,893 | 682.263 | 547,391 | 357,745 | 433,063 | 465,059 | 435,346 | 369,801 | 734,411 | 653,409 | 879,278 | 7,101, |
| 33 | BPA Idaho Falls SA 747 | 264,220 | 287,157 | 286,330 | 180,791 | 234,900 | 227,166 | 284,082 | 296,289 | 269,046 | 223,117 | 254,698 | 274,551 | 3,082, |
| 34 | Tri State: SA 628 | 57,470 | 57,756 | 54,196 | 55,053 | 32.045 | 42,919 | 41,855 | 41.982 | 36.441 | 54,057 | 44,168 | 46,901 | 564, |
| 35 | Calpine Energy Solutions: SA 299 | 38,158 | 37,725 | 37,839 | 37,065 | 45,467 | 47.477 | 44,542 | 43,971 | 43,401 | 32,238 | 33,353 | 29,769 | 471, |
| 36 | Basin: SA 505 | 29,143 | 29.249 | 28,253 | 24,554 | 20.473 | 26,751 | 25,997 | 28,964 | 25.332 | 26,285 | 24.853 | 28,296 | 318, |
| 37 | Black Hills: SA 347 ^[1] | 140,462 | 129,604 | 116,783 | 118.884 | 99.270 | 128,478 | 143.259 | 164,664 | 123,821 | 131.090 | 107.640 | 123,148 | 1.527. |
| 38 | USBR (Burbank): SA 506 | 140,402 | 127,004 | 14 | 677 | 1,503 | 1.443 | 1.839 | 1.656 | 1.648 | 131,090 | 13 | 125,148 | 1,527, |
| 39 | WAPA: SA 175 | 19 | 30 | 14 | 14 | 8,890 | 9,178 | 8,454 | 8,465 | 8,233 | 13 | 11 | 19 | 43. |
| 40 | Exelon Generation: SA 943 | 3,162 | 2,894 | 2,984 | 2,862 | 2,960 | 3,368 | 3,244 | 3,005 | 3,239 | 2,493 | 2,175 | 2,897 | 35. |
| 41 | Avangrid Renewables, LLC: SA 742 | 90.041 | 89.337 | 88,770 | 89,970 | 89,367 | 89,800 | 90,934 | 89,870 | 91,421 | 92,272 | 92.140 | 90,778 | 1,084, |
| 42 | BPA CEC SA 827 | 456 | 128 | - | - | - | - | - | - | - | - | 433 | 490 | 1. |
| 43 | BPA Airport Solar SA 865 | 480 | 325 | | 120 | | 38 | | - | - | | 269 | 272 | 1, |
| 44 | BPA WEID SA 975 | - | - | - | - | - | - | - | - | - | - | 1,583 | 27 | 1, |
| 45 | 3 Phases Renewables Inc. SA 876 | 671 | 641 | 660 | 513 | 717 | 800 | 929 | 837 | 767 | 552 | 450 | 571 | 8, |
| 46 | NTUA SA 894 | 7,166 | 6,970 | 6,078 | 5,314 | 5,816 | 5,977 | 7,207 | 7,242 | 6,672 | 6,101 | 6,322 | 7,040 | 77, |
| 47 | Subtotal | 24,179,863 | 24,008,491 | 22,289,872 | 20,036,848 | 24,828,763 | 26,867,755 | 29,769,389 | 29,965,149 | 27,288,293 | 22,614,015 | 22,276,793 | 24,153,187 | 298,278,4 |
| | Legacy Agreements (these loads already include losses) | | | | | | | | | | | | | |
| 48 | UAMPS: RS 297 | 1,034,375 | 1,175,824 | 964,406 | 935,855 | 1,838,874 | 1,814,599 | 2,121,227 | 2,303,857 | 2,003,893 | 981,966 | 1,100,244 | 1,218,561 | 17,493, |
| 49 | UMPA: RS 637 | 159,574 | 170,480 | 135,404 | 84,353 | 275,541 | 298,823 | 409,279 | 423,976 | 312,015 | 111,468 | 126,723 | 128,072 | 2,635, |
| 50 | DGT: RS 280 | 245,310 | 243,403 | 178,765 | 320,124 | 422,749 | 423,449 | 402,324 | 646,679 | 602,624 | 339,943 | 327,852 | 327,399 | 4,480, |
| 51 52 | WAPA OIS: RS 262/RS263 N/A Subtotal (Legacy Agreements) | 1,439,258 | - 1,589,707 | - 1,278,575 | - 1,340,332 | - 2,537,164 | 2,536,871 | 2,932,831 | 3,374,512 | 2,918,532 | - 1,433,378 | - 1,554,818 | - 1,674,032 | 24,610, |
| 52 | | 1,439,238 | 1,389,707 | 1,2/8,3/3 | 1,340,332 | 2,337,104 | 2,330,871 | 2,932,831 | 3,3/4,312 | 2,918,332 | 1,433,378 | 1,334,818 | 1,0/4,032 | 24,010, |
| 53 | Change Updated revenues with proposed loss factor (From Statement BG) | \$ 35,459,770 \$ | 35,437,340 \$ | 33,410,969 \$ | 31,221,517 \$ | 37,206,625 \$ | 39,488,408 \$ | 42,770,002 \$ | 43,408,862 \$ | 40,280,945 \$ | 34,132,669 \$ | 33,828,492 \$ | 35,823,212 \$ | 442,468. |
| 55 54 | Revenues with current loss factor | 35,533,569 | 35,512,646 | 33,482,895 | 31,291,628 | 37,200,625 \$ | 39,488,408 \$ | 42,770,002 \$ | 43,408,862 5 | 40,280,945 \$ | 34,132,069 \$ | 33,903,411 | 35,825,212 3 | 442,468, |
| 54 55 | Absolute Difference (proposed minus current) | \$ (73,799) \$ | (75,306) \$ | (71,926) \$ | (70,111) \$ | (73,751) \$ | (75,193) \$ | 42,849,946 (79,944) \$ | 43,487,388 (78,526) \$ | 40,360,176 (79,231) \$ | | (74,919) \$ | (75,806) \$ | 443,371,0 |
| 55 56 | Percent Difference (proposed minus current) | -0.21% | -0.21% | -0.21% | -0.22% | -0.20% | -0.19% | -0.19% | -0.18% | -0.20% | -0.22% | -0.22% | -0.21% | -0.20% |
| | reicein Difference | -0.2170 | -0.2170 | -0.2170 | -0.2270 | -0.20% | -0.19% | -0.1970 | -0.1870 | -0.20% | -0.2270 | -0.2270 | -0.2170 | -0.2070 |

Note [1] Per customers' contract agreements, no losses, or losses only applicable to certain load, are included in customers' billing determinants. Note [2] A value of zero in a month (designated by "-") indicates that the customer did not take service for that month.

PACIFICORP STATEMENT BG — REVENUE DATA TO REFLECT CHANGED RATES OATT PARTS II & III SERVICE AND LEGACY AGREEMENTS 2020

Proposed Transmission Loss System Factor 3.75%

| Line | Service/ Customer: Service Agreement ("SA")/Rate Schedule ("RS") No. | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|----------|--|------------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------------|
| | OATT Part II Long-Term Firm Point-to-Point Transmission Service (we add on the | e losses %) | | | | | | | | | | | | |
| 1 | PacifiCorp: multiple SAs | 6,922,762 | 6,922,762 | 6,922,762 | 6,922,762 | 6,922,762 | 7,097,784 | 7,097,784 | 7,097,784 | 7,097,784 | 7,097,784 | 7,097,784 | 7,097,784 | 84,298,293 |
| 2 | Black Hills: SA 67 | 141,512 | 141,512 | 141,512 | 141,512 | 141,512 | 139,665 | 139,665 | 139,665 | 139,665 | 139,665 | 139,665 | 139,665 | 1,685,215 |
| 3 | BPA GS: SA 179 | 50,944 | 50,944 | 50,944 | 50,944 | 50,944 | 50,279 | 50,279 | 50,279 | 50,279 | 50,279 | 50,279 | 50,279 | 606,678 |
| 4 | BPA - Lost Creek: SA 656 | 158,493 | 158,493 | 158,493 | 158,493 | 158,493 | 156,425 | 156,425 | 156,425 | 156,425 | 156,425 | 156,425 | 156,425 | 1,887,441 |
| 5 | City of Roseville SA 881 [1] | 136,397 | 136,397 | 136.397 | 136,397 | 136.397 | 136,397 | 136.397 | 136,397 | 136,397 | 136.397 | 136,397 | 136.397 | 1.636.764 |
| 6 | Evergreen Bio SA 874 | 28,302 | 28,302 | 28,302 | 28,302 | 28,302 | 27,933 | 27,933 | 27,933 | 27,933 | 27,933 | 27,933 | 27,933 | 337,043 |
| 7 | Idaho Power: SA 212 | 20,502 | - | - | - | - | 139,665 | 139,665 | 139,665 | 139.665 | 139,665 | - | - | 698,326 |
| 8 | Avangrid Renewables, LLC: S.A. 895 | 84,907 | 84,907 | 84,907 | 84,907 | 84,907 | 83,799 | 83,799 | 83,799 | 83,799 | 83,799 | 83,799 | 83,799 | 1,011,129 |
| 9 | Thermo No. 1 (Cyrq Energy): SA 568 | 31,133 | 31,133 | 31,133 | 31,133 | 31,133 | 30,726 | 30,726 | 30,726 | 30,726 | 30,726 | 30,726 | 30,726 | 370.747 |
| 10 | Powerex: SA 169 | 226,419 | 226,419 | 226,419 | 226,419 | 226,419 | 223,464 | 223,464 | 223,464 | 223,464 | 223,464 | 223,464 | 223,464 | 2,696,345 |
| 11 | NextEra: SA 733 | 280,194 | 280,194 | 280,194 | 280,194 | 280,194 | 223,464 | 223,464 | 223,464 | 223,464 | 223,464 | 276,537 | 276,537 | 3,071,363 |
| 12 | Salt River Project: SA 809 | 70,756 | 70,756 | 70,756 | 70,756 | 70,756 | 69,833 | 69,833 | 69,833 | 69,833 | 69,833 | 69,833 | 69,833 | 842,608 |
| 12 | EWEB SA 605 | 70,756 | 70,756 | 70,756 | 70,756 | 70,756 | 69,833 | 69,833 | 69,833 | 69,833 | 69,833 | 69,833 | 69,833 | 842,608 |
| 13 | State of South Dakota: SA 779 | 11,321 | 11,321 | 11,321 | 11,321 | 11,321 | 11,173 | 11,173 | 11,173 | 11,173 | 11,173 | 11,173 | 11,173 | 134,817 |
| 14 | Sacramento MUD: SA 863 | 53,775 | 53,775 | 53,775 | 53,775 | 53,775 | 53,073 | 53,073 | 53,073 | 53,073 | 53,073 | 53,073 | 53,073 | 640,382 |
| 15 | Sacramento MUD: SA 863 Clatskanie Peoples Utility District: SA 899/900/901 | 53,775 42,454 | 53,775 42,454 | 53,775 42,454 | 53,775 42,454 | 53,775 42,454 | 53,073 41,900 | 53,073 | 53,073 41,900 | 53,073 41,900 | 53,073 41,900 | 53,073 | 53,073 41,900 | 640,382 505,565 |
| | Powerex: SA 700 ^[1] | | | | | | | | | | | | | |
| 17 | | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 3,273,528 |
| 18 | Powerex: SA 701 ^[1] | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 3,273,528 |
| 19 | Powerex: SA 702 ^[1] | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 272,794 | 3,273,528 |
| 20 | Powerex: SA 748 ^[1] | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 136,397 | 1,636,764 |
| 21 | Powerex: SA 749 ^[1] | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 409,191 | 4,910,292 |
| 22 | Garrett Solar: SA 966 | 28,302 | 28,302 | 28,302 | 28,302 | 28,302 | 27,933 | 27,933 | 27,933 | 27,933 | 27,933 | 27,933 | 27,933 | 337,043 |
| 23 | Airport Solar: SA 965 | 141,512 | 141,512 | 141,512 | 141,512 | 141,512 | 139,665 | 139,665 | 139,665 | 139,665 | 139,665 | 139,665 | 139,665 | 1,685,215 |
| 24 | Falls Creek: SA 868 | 14,151 | 14,151 | 14,151 | 14,151 | 14,151 | 13,967 | 2,793 | 2,793 | 8,380 | 13,968 | 13,967 | 13,967 | 140,590 |
| 25 | Subtotal | 9,858,059 | 9,858,059 | 9,858,059 | 9,858,059 | 9,858,059 | 10,100,948 | 10,089,774 | 10,089,774 | 10,095,361 | 10,100,949 | 10,014,355 | 10,014,355 | 119,795,811 |
| | OATT Part III - Network Service (these loads already include losses) | | | | | | | | | | | | | |
| 26 | PacifiCorp: SA 66 ^[1] | 22,714,369.7 | 22,427,265.0 | 20,891,729.4 | 18,887,310.0 | 23,869,128.6 | 25,782,868.5 | 28,578,270.4 | 28,770,170.1 | 26,238,008.9 | 21,212,818.8 | 20,963,976.1 | 22,572,074.9 | 282,907,990.3 |
| 27 | BPA Yakama: SA 328 | 20,186.8 | 19,442.0 | 15,770.2 | 13,991.6 | 11,902.0 | 11,127.4 | 13,720.2 | 14,980.2 | 13,278.6 | 15,300.6 | 13,219.4 | 11,768.2 | 174,687.2 |
| 28 | BPA Gazely: SA 229 | 8,847.0 | 9,318.5 | 9,513.6 | 7,546.4 | 8,120.8 | 9,151.4 | 9,991.2 | 9,539.2 | 9,651.5 | 8,105.8 | 8,009.5 | 8,079.0 | 105,874.1 |
| 29 | BPA Clark: SA 735 | 79,143.7 | 84,538.6 | 65,004.7 | 61,547.2 | 38,609.9 | 45,719.8 | 48,447.6 | 45,749.2 | 46,145.0 | 71,010.6 | 66,999.2 | 75,051.5 | 727,966.8 |
| 30 | BPA Benton/Rimrock: SA 539 | 3,674.3 | 3,419.6 | 3,042.9 | 2,528.1 | 997.2 | 906.6 | 1,064.4 | 984.1 | 917.3 | 2,457.7 | 2,460.4 | - | 22,452.5 |
| 31 | BPA Ore Wind: SA 538 | | - | - | 140.9 | 447.1 | 1,067.0 | - | 949.4 | - | 1,018.9 | - | 1,513.7 | 5,137.0 |
| 32 | BPA S. Idaho: SA 746 | 716,376.1 | 816,458.8 | 678,872.4 | 545,391.6 | 357,717.5 | 433,073.7 | 463,050.2 | 435,122.5 | 368,368.7 | 729,543.4 | 648,783.9 | 873,879.7 | 7,066,638.5 |
| 33 | BPA Idaho Falls SA 747 | 262,449.7 | 285,233.4 | 284,409.6 | 179,577.6 | 233,326.2 | 225,645.0 | 282,178.8 | 294,305.1 | 267,241.7 | 221,622.7 | 252,991.1 | 272,709.8 | 3,061,690.5 |
| 34 | Tri State: SA 628 | 57,087.6 | 57,505.0 | 54,196.0 | 54,834.3 | 31,832.3 | 42,773.2 | 41,577.8 | 43,877.1 | 36,311.6 | 53,830.6 | 44,132.8 | 46,679.8 | 564,638.2 |
| 35 | Calpine Energy Solutions: SA 299 | 37,902.7 | 37,471.9 | 37,585.7 | 36,816.1 | 45,161.9 | 47,158.5 | 44,243.6 | 43,676.6 | 43,109.7 | 32,022.0 | 33,129.2 | 29,569.7 | 467,847.5 |
| 36 | Basin: SA 505 | 28,947.3 | 29,053.0 | 28,063.9 | 24,389.6 | 20,336.0 | 26,571.8 | 25,823.0 | 28,770.1 | 25,162.5 | 26,109.2 | 24,686.4 | 28,106.9 | 316,019.6 |
| 37 | Black Hills: SA 347 ^[1] | 140,461.6 | 129,604.4 | 116,783.1 | 118,883.6 | 99,269.7 | 128,478.5 | 143,259.4 | 164,663.5 | 123,820.7 | 131,090.0 | 107,639.8 | 123,147.6 | 1,527,102.1 |
| 38 | USBR (Burbank): SA 506 | 16.3 | 13.5 | 13.5 | 672.0 | 1,493.0 | 1.433.4 | 1.826.5 | 1.644.7 | 1.636.7 | 13.4 | 13.4 | 13.4 | 8,789.8 |
| 39 | WAPA: SA 175 | 19.0 | 29.8 | 13.5 | 13.5 | 8,830.8 | 9,116.7 | 8,397.3 | 8,408.0 | 8,178.0 | 13.4 | 10.7 | 18.7 | 43,049.4 |
| 40 | Exelon Generation: SA 943 | 3,140.5 | 2.874.9 | 2,964.4 | 2.842.4 | 2,940.0 | 3.345.5 | 3,222.5 | 2.984.5 | 3.217.2 | 2.476.4 | 2,160.8 | 2.877.5 | 35,046,8 |
| 41 | Avangrid Renewables, LLC: SA 742 | 89,437.7 | 88,738.6 | 88,175.0 | 89.367.2 | 88,768.4 | 89,198.5 | 90,324.4 | 89,268.0 | 90,808,4 | 91,653.5 | 91.522.5 | 90,169.3 | 1,077,431.4 |
| 42 | BPA CEC SA 827 | 452.5 | 127.4 | - | - | - | - | | - | - | | 430.6 | 486.7 | 1.497.2 |
| 43 | BPA Airport Solar SA 865 | 476.9 | 322.4 | | 119.2 | - | 37.4 | - | - | - | - | 267.4 | 270.1 | 1,493.5 |
| 44 | BPA WEID SA 975 | | - | - | - | - | - | | - | - | - | 1.572.5 | 270.1 | 1,599.2 |
| 45 | 3 Phases Renewables Inc. SA 876 | 666.6 | 636.8 | 655.7 | 509.4 | 712.6 | 794.3 | 922.6 | 831.7 | 762.2 | 548.2 | 446.6 | 567.0 | 8,053.7 |
| 46 | NTUA SA 894 | 7,119.9 | 6.923.5 | 6.036.9 | 5.278.6 | 5.775.0 | 5,936.6 | 7,158.9 | 7.193.9 | 6.628.5 | 6.060.5 | 6.278.5 | 6,994,7 | 77.385.7 |
| 40 | Subtotal | 24,170,775.8 | 23,998,977.1 | 22,282,830.6 | 20,031,759.4 | 24,825,369.0 | 26,864,403.9 | 29,763,478.7 | 29,963,117.9 | 27,283,247.1 | 22,605,695.6 | 22,268,730.8 | 24,144,004.9 | 298,202,390.8 |
| | T A | | | | | | | | | | | | | |
| 48 | Legacy Agreements (these loads already include losses) UAMPS: RS 297 | 1.028.618.9 | 1.169.192.4 | 958.014.3 | 929.654.7 | 1.829.585.7 | 1.805.623.2 | 2.110.584.6 | 2.292.613.7 | 1.993.825.8 | 977.171.3 | 1.092.923.1 | 1.211.598.8 | 17.399.406.5 |
| | | | | | | | | | | | | | | |
| 49 50 | UMPA: RS 637 DGT: RS 280 | 158,504.2 243,812.4 | 169,339.6 241,771.9 | 134,498.4 177,567.1 | 83,791.4 318,252.4 | 273,696.9 419,914.5 | 296,822.4 420,610.8 | 406,538.0 399,626.7 | 421,138.5 642,217.3 | 309,926.0 598,585.3 | 110,719.8 338,133.7 | 125,872.3 326,610.5 | 127,215.8 326,037.0 | 2,618,063.3 4,453,139.5 |
| | | 243,812.4 | 241,//1.9 | 1//,56/.1 | 318,252.4 | 419,914.5 | 420,610.8 | 399,626.7 | 642,217.3 | 598,585.3 | 338,135./ | 326,610.5 | 326,037.0 | 4,453,139.5 |
| 51 52 | WAPA OIS: RS 262/RS263 N/A Subtotal (Legacy Agreements) | 1,430,935.5 | 1,580,303.8 | 1,270,079.8 | 1,331,698.5 | 2,523,197.2 | 2,523,056.4 | 2,916,749.2 | 3,355,969.5 | 2,902,337.1 | 1,426,024.8 | 1,545,405.9 | 1,664,851.5 | 24,470,609.2 |
| | | | | | | | | | | | | | | |
| | Change | a as 150 575 | | 22 410 0/0 2 | | 27.207.725 | 20,400,400 | 12 550 002 0 | 12 100 072 - | 10 200 015 | 24.122.660 | 22.020.402 | 25.022.212 | 110 100 000 |
| 53 | Updated revenues with proposed loss factor | \$ 35,459,770 | | 33,410,969 \$ | 31,221,517 \$ | 37,206,625 \$ | 39,488,408 \$ | 42,770,002 \$ | 43,408,862 \$ | 40,280,945 \$ | | 33,828,492 \$ | 35,823,212 \$ | |
| 54 | Revenues with current loss factor (From Statement BH) | 35,533,569 | 35,512,646 | 33,482,895 | 31,291,628 | 37,280,376 | 39,563,601 | 42,849,946 | 43,487,388 | 40,360,176 | 34,206,369 | 33,903,411 | 35,899,018 | 443,371,024 |
| 55 | Absolute Difference (proposed minus current) | \$ (73,799) \$ | | (71,926) \$ | (70,111) \$ | (73,751) \$ | (75,193) \$ | (79,944) \$ | (78,526) \$ | (79,231) \$ | | (74,919) \$ | (75,806) \$ | |
| 56 | Percent Difference | -0.21% | -0.21% | -0.21% | -0.22% | -0.20% | -0.19% | -0.19% | -0.18% | -0.20% | -0.22% | -0.22% | -0.21% | -0.20% |

Note [1] Per customers' contract agreements, no losses, or losses only applicable to certain load, are included in customers' billing determinants. Note [2] A value of zero in a month (designated by "-") indicates that the customer did not take service for that month.

Enclosure 2 (Clean and Redline Versions)

Schedule 10 of PacifiCorp's OATT

SCHEDULE 10

Real Power Losses

For Service Over the Transmission Provider's Transmission System:

Any use of the Transmission Provider's Transmission System, excluding EIM participation, shall be assessed Real Power Losses in the following amounts:

Use of any portion of the Transmission 3.75% System at a voltage of 46kV or greater Use of any portion of the Distribution 3.56% System at a voltage 34.5 kV or less Use of a combination of the Transmission 7.31% System and the Distribution System

For Service on the PacifiCorp COI Segment:

Real Power Losses shall be calculated in accordance with Attachment S for Transmission Service on the PacifiCorp COI Segment.

Service Over PacifiCorp Facilities in Other Control Areas: For Transmission Service provided over PacifiCorp lines located in another control area, any Real Power Losses assessed to PacifiCorp by the adjacent control area associated with the Customer's service will be passed through to the Transmission Customer. In instances where service is provided by PacifiCorp and an adjacent control area, any Real Power Losses assessed by the adjacent control area to PacifiCorp will be passed through to the Transmission Customer in addition to PacifiCorp Real Power Losses identified in this section.

Settlement of Transmission Losses: Unless Transmission Service is subject to Attachment S of the Tariff, a Transmission Customer taking Network Integration Transmission Service, Firm or Non-Firm Point-to-Point Transmission Service shall be responsible for Real Power Losses as provided for in Section 15.7 of the Tariff, this Schedule 10 and the Transmission Provider's business practices posted on OASIS. A Transmission Customer shall have the option to settle Real Power Losses pursuant to section (a) (Financial Settlement) or section (b) (Physical Delivery) subject to the Transmission Provider's business practices posted on OASIS.

(a) **Financial Settlement**.

(i) Charges for Transmission Losses. For each hour where the Transmission Provider provides loss service, the Transmission Customer shall compensate the Transmission Provider at a rate equal to the average hourly LAP price for the PACE and PACW BAAs, as established by the MO under Section 29.11(b)(3)(C) of the MO Tariff, multiplied by the energy for such hour based on a Transmission Customer's metered load actual amounts (for a Transmission Customer taking Network Integration Transmission Service) or actual amounts of power scheduled to be delivered at Point(s) of Delivery (for a Transmission Customer taking Point-to-Point Transmission Service).

A spreadsheet showing the average LAP prices for each hour of the previous month shall be accessible through the Transmission Provider's OASIS.

(b) Physical Delivery. Transmission Customers opting for physical delivery shall schedule losses to the Transmission Provider concurrently with transmission schedules. The Transmission Provider shall deliver to the Point(s) of Delivery the amount of power received from a Transmission Customer at Point(s) of Receipt, reduced for losses from the Point(s) of Receipt to the Point(s) of Delivery. The amount delivered to the Point(s) of Delivery shall be determined to be the amount of power received from a Transmission Customer at the Point(s) of Receipt divided by (1 + Real Power Losses rate) and the amount of losses shall be determined to be the amount of power received from a Transmission Customer at Point(s) of Receipt multiplied by (1 - 1)/(1 + Real Power Losses rate). Any hourly differences between the amounts of power scheduled to be delivered at Point(s) of Delivery (plus applicable Real Power Losses) and the actual amounts of energy received at Point(s) of Receipt shall be accounted for as Energy Imbalance subject to charges pursuant to Schedule 4.

Real Power Losses Updates: PacifiCorp shall update Schedule 10 factors for Real Power Losses following completion of every two Energy Gateway Project segments (or substantially similar transmission segments or combination thereof) which have been placed into commercial operation for at least one full calendar year. PacifiCorp's update to the Transmission System loss

factor shall be filed on or before April 1 following the full calendar year of commercial operation for the second of every two Energy Gateway Project segments (or substantially similar transmission segments or combination thereof) with a request to the Commission that the updated Transmission System loss factor be made effective June 1 of the calendar year in which the filing is made. Such filing shall be based on the most recent FERC Form No. 1 data for the prior calendar year. The update calculation shall be consistent with the methodology agreed upon in ER11-3643 and shall be based on annual sources and uses of energy from FERC Form No. 1, p. 401a, with adjustments to remove any energy source and corresponding energy use (i) which is not scheduled or otherwise transacted using PacifiCorp's transmission system, (ii) which is duplicative of, in part or whole, another energy source or energy use already represented in the data on FERC Form No. 1, p. 401a, and (iii) which represent financially settled losses (i.e., no actual physical losses).

SCHEDULE 10

Real Power Losses

For Service Over the Transmission Provider's Transmission System:

Any use of the Transmission Provider's Transmission System, excluding EIM participation, shall be assessed Real Power Losses in the following amounts:

Use of any portion of the Transmission4.453.75%System at a voltage of 46kV or greater3.56\%Use of any portion of the Distribution3.56\%System at a voltage 34.5 kV or less8.017.31%Use of a combination of the Transmission8.017.31%System and the Distribution System8.017.31%

For Service on the PacifiCorp COI Segment:

Real Power Losses shall be calculated in accordance with Attachment S for Transmission Service on the PacifiCorp COI Segment.

Service Over PacifiCorp Facilities in Other Control Areas: For Transmission Service provided over PacifiCorp lines located in another control area, any Real Power Losses assessed to PacifiCorp by the adjacent control area associated with the Customer's service will be passed through to the Transmission Customer. In instances where service is provided by PacifiCorp and an adjacent control area, any Real Power Losses assessed by the adjacent control area to PacifiCorp will be passed through to the Transmission Customer in addition to PacifiCorp Real Power Losses identified in this section.

Settlement of Transmission Losses: Unless Transmission Service is subject to Attachment S of the Tariff, a Transmission Customer taking Network Integration Transmission Service, Firm or Non-Firm Point-to-Point Transmission Service shall be responsible for Real Power Losses as provided for in Section 15.7 of the Tariff, this Schedule 10 and the Transmission Provider's business practices posted on OASIS. A Transmission Customer shall have the option to settle Real Power Losses pursuant to section (a) (Financial Settlement) or section (b) (Physical Delivery) subject to the Transmission Provider's business practices posted on OASIS.

(a) **Financial Settlement**.

(i) Charges for Transmission Losses. For each hour where the Transmission Provider provides loss service, the Transmission Customer shall compensate the Transmission Provider at a rate equal to the average hourly LAP price for the PACE and PACW BAAs, as established by the MO under Section 29.11(b)(3)(C) of the MO Tariff, multiplied by the energy for such hour based on a Transmission Customer's metered load actual amounts (for a Transmission Customer taking Network Integration Transmission Service) or actual amounts of power scheduled to be delivered at Point(s) of Delivery (for a Transmission Customer taking Point-to-Point Transmission Service).

A spreadsheet showing the average LAP prices for each hour of the previous month shall be accessible through the Transmission Provider's OASIS.

(b) Physical Delivery. Transmission Customers opting for physical delivery shall schedule losses to the Transmission Provider concurrently with transmission schedules. The Transmission Provider shall deliver to the Point(s) of Delivery the amount of power received from a Transmission Customer at Point(s) of Receipt, reduced for losses from the Point(s) of Receipt to the Point(s) of Delivery. The amount delivered to the Point(s) of Delivery shall be determined to be the amount of power received from a Transmission Customer at the Point(s) of Receipt divided by (1 + Real Power Losses rate) and the amount of losses shall be determined to be the amount of power received from a Transmission Customer at Point(s) of Receipt multiplied by (1 - 1)/(1 + Real Power Losses rate). Any hourly differences between the amounts of power scheduled to be delivered at Point(s) of Delivery (plus applicable Real Power Losses) and the actual amounts of energy received at Point(s) of Receipt shall be accounted for as Energy Imbalance subject to charges pursuant to Schedule 4.

Real Power Losses Updates: PacifiCorp shall update Schedule 10 factors for Real Power Losses following completion of every two Energy Gateway Project segments (or substantially similar transmission segments or combination thereof) which have been placed into commercial operation for at least one full calendar year. PacifiCorp's update to the Transmission System loss

factor shall be filed on or before April 1 following the full calendar year of commercial operation for the second of every two Energy Gateway Project segments (or substantially similar transmission segments or combination thereof) with a request to the Commission that the updated Transmission System loss factor be made effective June 1 of the calendar year in which the filing is made. Such filing shall be based on the most recent FERC Form No. 1 data for the prior calendar year. The update calculation shall be consistent with the methodology agreed upon in ER11-3643 and shall be based on annual sources and uses of energy from FERC Form No. 1, p. 401a, with adjustments to remove any energy source and corresponding energy use (i) which is not scheduled or otherwise transacted using PacifiCorp's transmission system, (ii) which is duplicative of, in part or whole, another energy source or energy use already represented in the data on FERC Form No. 1, p. 401a, and (iii) which represent financially settled losses (i.e., no actual physical losses).

Enclosure 3

Loss Factor Calculation

Input Data from 2020 FERC Form No.1, Page 401a

| SOURCES | | USES | |
|--------------------------------------|----------|--|--------|
| Net Generation, Ln 9 | 49,661 | Sales to Ultimate Consumers, Ln 22 | 54,560 |
| Purchases, Ln 10 | 11,928 | Requirements Sales for Resale, Ln 23 | 267 |
| | 61,588 | Energy Furnished Without Charge, Ln 25 | 129 |
| Net Exchanges, Ln 14 | 2,286 | Non-requirements Sales for Resale, Ln 24 | 4,982 |
| | | Energy Used by the Company, Ln 26 | - |
| Received, Ln 16 | 16,923 | Total Energy Losses, Ln 27 | 3,794 |
| Delivered, Ln 17 | (16,817) | | |
| Transmission By Others Losses, Ln 19 | (249) | | |
| Total | 63,732 | Total | 63,732 |

| Consumers, 401a line 22 54,56 s for Resale, 401a line 23 26 uirements sales for resale subject to losses 1,34 1a line 26 - |
|--|
| s for Resale, 401a line 23 26 uirements sales for resale subject to losses 1,34 |
| uirements sales for resale subject to losses 1,34 |
| |
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| |
| 1a line 26 - |
| 1a line 26 - |
| 1a line 26 - |
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| |
| ered without losses 16,17 |
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| |
| |
| |
| th on-system losses 72,342 |
| |
| |

| Tran | smission and Distribution Losses Adjustme | nts and | Allocation | | | | | |
|-------------------|---|---------|------------------|-------------------------------------|--------------------------------------|--|--------------------------------------|----------------------------------|
| | ile 10 loss factor (prior to update) | | <u>Anocation</u> | | Current Tran Loss Factor 4.45% | | Distribution Loss Factor 4.64% | 2007 Distributio Loss Stud |
| | | | | FERC # w/ Current Loss Factor | Trans Loss embedded in current #s | Adjusted to remove current Loss Factor (total delivered) | Retail Load w/ Dist. Loss | Dist. Los |
| | | | | Α | C = A - B | В | | |
| ~ | SMISSION: Sales to ultimate consumers transmission ing interdepartmental sales) | | | 12,592 | | 12,592 | 12,592 | |
| | IBUTION: Sales to ultimate consumers distribution ing interdepartmental sales) | | | 41,968 | | 41,968 | 44,010 | 2, |
| 2 Require | ements sales for resale | | | 267 | | 267 | | |
| Adjustn 3 Non- | nents: -requirements sales for resale, 401a line 24 | | 4,982 | | | | | |
| | nents to remove financial transactions, duplicate tions and off-system activity: | | | | | | | |
| | losses included paid by Black Hills | | (11) | | | | | |
| | Pt-to-Pt, network, and OS losses - financially settled | Att. E | (254) | | | | | |
| | ystem sales/purchases w/o losses | Att. F | (3,243) | 1 | | | | |
| | l party sales on-system (reported in Energy Received | | (130) | | | | | |
| | icate transactions)) on-system non-requirements sales for resale subject to losses | | | 1,343 | | 1,343 | | |
| | | | | , | | | | |
| | used by the company (electric dept only, excluding station 1a line 26) | | | - | | - | - | |
| Transm | ission received/delivered (adjusted 401a lines 16 & 17): | | | | | | | |
| | smission received - losses <i>financially</i> settled | | Att. A, B | 7,432 | 316 | 7,116 | | |
| | PA adjustments (losses and RS 262 & 263 adj.) | | Att. C | | 107 | 1,671 | | |
| | smission pt-to-pt Black Hills - losses <i>financially</i> settled | | Att. D | 382 | 17 | 365 | | |
| | smission other - losses <i>physically</i> settled | | Att. C | | 12 | 283 | | |
| | smission received - supplied losses | | Att. C | | 300 | 6,737 | | |
| | Transmission: | | | 16,923 | 752 | 16,172 | | |
| 6 Total | | | | 73,094 | 752 | 72,342 | 44,010 | 2, |

FF1 2020 328 MWH RECEIVED/DELIVERED TRANSMISSION MWH FINANCIAL SETTLEMENT of LOSSES

| Page | Line No. | Payment By (Company of Public Authority) (Footnote Affiliation) | StatisticalClassification(d) | FERC Rate Schedule of Tariff Number | MegaWatt Hours |
|----------------|--------------------|--|------------------------------|---|-------------------|
| 328 | Line 3 | (a) Airport Solar LLC | LFP | (e) SA 965 | 99,052 |
| 328 | Line 5 | Avangrid Renewables, LLC | NF | SA 121 | 199,751 |
| 328 | Line 6 | Avangrid Renewables, LLC | AD | SA 121 | 18,003 |
| 328 | Line 7 | Avangrid Renewables, LLC | SFP | SA 122 | 83,526 |
| 328 | Line 8 | Avangrid Renewables, LLC | AD | SA 122 | 3,507 |
| 328 328 | Line 11 Line 12 | Avangrid Renewables, LLC Avangrid Renewables, LLC | LFP AD | SA 895 SA 895 | 69,867 6,306 |
| 328 | Line 17 | Basin Electric Power Cooperative, Inc. | NF | SA 607 | 23,631 |
| 328 | Line 18 | Basin Electric Power Cooperative, Inc. | AD | SA 607 | 2,587 |
| 328 | Line 19 | Basin Electric Power Cooperative, Inc. | SFP | SA 606 | 4,523 |
| 328.1 | Line 20 | Bonneville Power Administration | NF | SA 44 | 240,859 |
| 328.1 328.1 | Line 28 Line 29 | Brookfield Renewable Trading Brookfield Renewable Trading | NF AD | SA 941 SA 941 | 147,967 12,696 |
| 328.1 | Line 30 | Brookfield Renewable Trading | SFP | SA 941 | 366 |
| 328.2 | Line 2 | Clatskanie People's Utility Dist | LFP | SA 899 | 72,634 |
| 328.2 | Line 3 | Clatskanie People's Utility Dist | AD | SA 899 | 8,251 |
| 328.2 328.2 | Line 4 Line 5 | Clatskanie People's Utility Dist Clatskanie People's Utility Dist | LFP AD | SA 901 SA 901 | 10,853 1,233 |
| 328.2 | Line 7 | CP Energy Marketing (US) Inc. | NF | SA 968 | 386 |
| 328.2 | Line 11 | Deseret Gen and Trans | NF | SA 156 | 11,360 |
| 328.2 | Line 12 | Deseret Gen and Trans | AD | SA 156 | 9,739 |
| 328.2 | Line 13 | Eagle Energy Partners I LP | NF | SA 569 | 2,754 |
| 328.2 328.2 | Line 14 Line 15 | Eagle Energy Partners I LP | AD NF | SA 569 SA 962 | 2,105 5,480 |
| 328.2 | Line 16 | Enel Trading North America, LLC Energy Keepers, Inc. | NF | SA 902 SA 814 | 9,988 |
| 328.2 | Line 17 | Energy Keepers, Inc. | SFP | SA 815 | 13,256 |
| 328.2 | Line 19 | Evergreen Biopower LLC | LFP | SA 874 | 42,571 |
| 328.2 | Line 20 | Evergreen Biopower LLC | AD | SA 874 | 4,820 |
| 328.2 | Line 23 | Exelon Generation Company, LLC | NF | SA 759 SA 759 | 2,193 |
| 328.2 328.2 | Line 24 Line 25 | Exelon Generation Company, LLC Falls Creek H.P. | AD LFP | SA 759 SA 868 | 90 14.126 |
| 328.2 | Line 28 | Guzman Energy LLC | NF | SA 786 | 16,107 |
| 328.2 | Line 29 | Guzman Energy LLC | SFP | SA 785 | 11,946 |
| 328.2 | Line 30 | Idaho Power Company | LFP | SA 212 | 400 |
| 328.2 | Line 32 | Idaho Power Company | SFP | SA 726 | 2,807 |
| 328.2 328.2 | Line 33 Line 34 | Idaho Power Company Garrett Solar LLC | NF LFP | SA 725 SA 966 | 15,713 22,713 |
| 328.3 | Line 1 | Garrett Solar LLC | AD | SA 966 | 300 |
| 328.3 | Line 2 | Macquarie Energy LLC | NF | SA 755 | 28,123 |
| 328.3 | Line 3 | Macquarie Energy LLC | AD | SA 755 | 4,104 |
| 328.3 | Line 4 | Macquarie Energy LLC | SFP | SA 754 | 1,969 |
| 328.3 328.3 | Line 5 Line 6 | MAG Energy Solutions, Inc. Mercuria Energy America LLC | NF NF | SA 903 SA 998 | 3,393 4,739 |
| 328.3 | Line 9 | Morgan Stanley Capital Group, Inc. | NF | SA 157 | 502,525 |
| 328.3 | Line 10 | Morgan Stanley Capital Group, Inc. | AD | SA 157 | 6,044 |
| 328.3 | Line 11 | Morgan Stanley Capital Group, Inc. | SFP | SA 160 | 6,136 |
| 328.3 | Line 12 | Morgan Stanley Capital Group, Inc. | AD | SA 160 | 72 |
| 328.3 328.3 | Line 15 Line 16 | NextEra Energy Resources, LLC NextEra Energy Resources, LLC | LFP AD | SA 733 SA 733 | 274,929 7,651 |
| 328.3 | Line 17 | NextEra Energy Resources, LLC | NF | SA 236 | 31 |
| 328.3 | Line 18 | NextEra Energy Resources, LLC | AD | SA 236 | 17 |
| 328.3 | Line 19 | NextEra Energy Resources, LLC | SFP | SA 237 | 13 |
| 328.3 | Line 20 | NextEra Energy Resources, LLC | AD | SA 237 | 58 |
| 328.3 | Line 23 | Pacific Gas & Electric Company | NF | SA 338 | 793 |
| 328.3 | Line 26 | Portland General Electric Company | SFP | SA 248 | 432 |
| 328.3 328.3 | Line 27 Line 28 | Portland General Electric Company Powerex Corporation | AD LFP | SA 248 SA 169 | 50 346,233 |
| 328.3 | Line 29 | Powerex Corporation | AD | SA 169 | 28,141 |
| 328.4 | Line 6 | Powerex Corporation | NF | SA 47 | 286,663 |
| 328.4 | Line 7 | Powerex Corporation | AD | SA 47 | 13,245 |
| 328.4 | Line 8 | Powerex Corporation | SFP | SA 151 | 35,813 |
| 328.4 | Line 11 | Rainbow Energy Marketing Corporation | NF | SA 316 | 72,287 |
| 328.4 | Line 12 | Rainbow Energy Marketing Corporation | AD | SA 316 SA 863 | 117 |
| 328.4 328.4 | Line 14 Line 15 | Sacramento Municipal Utility Dist Sacramento Municipal Utility Dist | LFP AD | SA 863 | 122,840 14,003 |
| 328.4 | Line 16 | Salt River Project | LFP | SA 809 | 124,010 |
| 328.4 | Line 17 | Salt River Project | AD | SA 809 | 14,892 |
| 328.4 | Line 18 | Salt River Project | NF | SA 557 | 1,416 |
| 328.4 | Line 19 | Salt River Project | SFP | SA 557 | 795 |
| 328.4 | Line 20 | Shell Energy North America (US), L.P. | LFP | SA 791 | 10,298 |
| 328.4 328.4 | Line 21 Line 22 | Shell Energy North America (US), L.P. Shell Energy North America (US), L.P. | AD NF | SA 791 SA 23 | 682 720,420 |
| 328.4 | Line 23 | Shell Energy North America (US), L.P. | AD | SA 23 | 35,105 |
| 328.4 | Line 24 | Shell Energy North America (US), L.P. | SFP | SA 162 | 17,892 |
| 328.4 | Line 25 | Shell Energy North America (US), L.P. | AD | SA 162 | 600 |
| 328.4 | Line 29 | Southern California Edison Company | NF | SA 642 | 292,116 |
| 328.4 | Line 30 | Southern California Edison Company | AD | SA 642 | 21,878 |
| 328.4 | Line 31 | Southern California Public Power Authority | NF | SA 629 | 56 |
| 328.4 | Line 34 | Tenaska Power Services Co. | NF | SA 125 | 28,615 |
| 328.5 328.5 | Line 1 Line 2 | Tenaska Power Services Co. Tenaska Power Services Co. | AD SFP | SA 125 SA 126 | 777 9 |
| 328.5 | Line 3 | Tenaska Power Services Co. Tenaska Power Services Co. | AD | SA 126 SA 126 | 857 |
| 328.5 | Line 4 | The Energy Authority, Inc. | NF | SA 310 | 4,961 |
| 328.5 | Line 5 | The Energy Authority, Inc. | AD | SA 310 | 1,041 |
| 328.5 | Line 6 | Thermo No. 1 BE-01, LLC | LFP | SA 568 | 54,806 |
| 328.5 | Line 7 | Thermo No. 1 BE-01, LLC | AD | SA 568 | 5,814 |
| 328.5 | Line 8 | TransAlta Energy Marketing (U.S.) Inc. | NF | SA 127 | 114,719 |
| 328.5 | Line 9 | TransAlta Energy Marketing (U.S.) Inc. | AD SFP | SA 127 SA 128 | 5,728 |
| 328.5 328.5 | Line 10 Line 13 | TransAlta Energy Marketing (U.S.) Inc. Tri-State Gen and Trans | NF | SA 128 SA 33 | 7,920 3,290 |
| 328.5 | Line 23 | Utah Municipal Power Agency | NF | SA 20 | 13,092 |
| 328.5 | Line 33 | Western Area Power Adm CO River | NF | SA 132 | 294 |
| 328.5 | Line 34 | Western Area Power Adm CO MO | NF | SA 137 | 5,522 |
| 328.6 | Line 1 | Western Area Power Adm CO MO | SFP | SA 724 | 700 |
| | | | | | |

| Total MWh Accrual Adjustment | 4,443,192 6,005 |
|---|--------------------|
| Total point-to-point schedules subject to losses (as reported on | |
| FERC Form No. 1, page 329) | 4,449,197 |
| REF | 5 |

FF1 2020 328 MWH RECEIVED/DELIVERED TRANSMISSION MWH FINANCIAL SETTLEMENT of LOSSES - Network customers

| Page | Line No. | Payment By (Company of Public Authority) (Footnote Affiliation) (a) | StatisticalClassification(d) | FERC Rate Schedule of Tariff Number (e) | MegaWatt Hours |
|-------|----------|--|------------------------------|--|----------------|
| 328 | Line 1 | 3 Phase Renewables, LLC | FNO | SA 876 | 1,522 |
| 328 | Line 2 | 3 Phase Renewables, LLC | AD | SA 876 | 44 |
| 328 | Line 13 | Avangrid Renewables, LLC | FNO | SA 742 | 264,562 |
| 328 | Line 14 | Avangrid Renewables, LLC | AD | SA 742 | 23,949 |
| 328 | Line 15 | Basin Electric Power Cooperative, Inc. | FNO | SA 505 | 64,671 |
| 328 | Line 16 | Basin Electric Power Cooperative, Inc. | AD | SA 505 | 6,974 |
| 328.1 | Line 4 | Bonneville Power Administration | FNO | SA 229 | 21,787 |
| 328.1 | Line 5 | Bonneville Power Administration | AD | SA 229 | 2,353 |
| 328.1 | Line 6 | Bonneville Power Administration | FNO | SA 539 | 5,230 |
| 328.1 | Line 7 | Bonneville Power Administration | AD | SA 539 | 781 |
| 328.1 | Line 8 | Bonneville Power Administration | FNO | SA 538 | 708 |
| 328.1 | Line 9 | Bonneville Power Administration | AD | SA 538 | 78 |
| 328.1 | Line 14 | Bonneville Power Administration | FNO | SA 328 | 31,957 |
| 328.1 | Line 15 | Bonneville Power Administration | AD | SA 328 | 3,473 |
| 328.1 | Line 16 | Bonneville Power Administration | FNO | SA 827 | 673 |
| 328.1 | Line 17 | Bonneville Power Administration | AD | SA 827 | 88 |
| 328.1 | Line 18 | Bonneville Power Administration | FNO | SA 746 | 1,296,983 |
| 328.1 | Line 19 | Bonneville Power Administration | AD | SA 746 | 166,916 |
| 328.1 | Line 21 | Bonneville Power Administration | FNO | SA 747 | 635,122 |
| 328.1 | Line 22 | Bonneville Power Administration | AD | SA 747 | 65,048 |
| 328.1 | Line 23 | Bonneville Power Administration | FNO | SA 735 | 118,020 |
| 328.1 | Line 24 | Bonneville Power Administration | AD | SA 735 | 14,654 |
| 328.1 | Line 25 | Bonneville Power Administration | FNO | SA 865 | 746 |
| 328.1 | Line 26 | Bonneville Power Administration | AD | SA 865 | 91 |
| 328.1 | Line 27 | Bonneville Power Administration | FNO | SA 975 | 426 |
| 328.1 | Line 31 | Calpine Energy Solutions, LLC | FNO | SA 299 | 102,193 |
| 328.1 | Line 32 | Calpine Energy Solutions, LLC | AD | SA 299 | 9,190 |
| 328.2 | Line 21 | Exelon Generation Company, LLC | FNO | SA 943 | 7,270 |
| 328.2 | Line 22 | Exelon Generation Company, LLC | AD | SA 943 | 440 |
| 328.3 | Line 13 | Navajo Tribal Utility Authority | FNO | SA 894 | 14,383 |
| 328.3 | Line 14 | Navajo Tribal Utility Authority | AD | SA 894 | 1,627 |
| 328.5 | Line 11 | Tri-State Gen and Trans | FNO | SA 628 | 117,826 |
| 328.5 | Line 12 | Tri-State Gen and Trans | AD | SA 628 | 12,548 |
| 328.5 | Line 14 | U.S. Bureau of Reclamation | FNO | SA 506 | 2,473 |
| 328.5 | Line 15 | U.S. Bureau of Reclamation | AD | SA 506 | 4 |
| 328.5 | Line 31 | Western Area Power Administration | FNO | SA 175 | 9,184 |
| 328.5 | Line 32 | Western Area Power Administration | AD | SA 175 | 5 |

| Total MWh | 3,003,999 |
|--------------------|-----------|
| Accrual Adjustment | (20,915) |
| Total | 2,983,084 |
| REF | 6 |

Western Area Power Administration Total Received/Delivered & Total Received Per FF1 2018 328 and 401a Summary 2020

| Amounts in MWh | | Western Rec./Del. Reco | nciliation | | | | RE |
|----------------|--|------------------------|------------|-----------|------------------------------|-----------|-------------------|
| | | RS 262 | RS 263 | Subtotal | Energy Return (Variation) | Net | Fa Clau Wor |
| | Energy Received | 1,731,607 | 45,805 | 1,777,412 | - | 1,777,412 | |
| | Losses | (103,894) | (2,718) | (106,612) | | (106,612) | |
| | Energy Delivered | 1,627,713 | 43,087 | 1,670,800 | - | 1,670,800 | |
| | Details: | | | | | | |
| | Total <u>Received</u> : Reported | | | | | | |
| | OS Reported | 1,566,627 | 41,694 | 1,608,321 | - | 1,608,321 | |
| | AD Reported | 163,190 | 4,111 | 167,301 | - | 167,301 | |
| | Accrual Adjustment (included in total Accrual) | 1,790 | - | 1,790 | - | 1,790 | |
| | Total Received | 1,731,607 | 45,805 | 1,777,412 | - | 1,777,412 | |
| | Total <u>Delivered</u> : Reported | | | | | | |
| | OS Reported | 1,472,633 | 39,218 | 1,511,851 | | 1,511,851 | |
| | AD Reported | 153,398 | 3,866 | 157,264 | | 157,264 | |
| | Accrual Adjustment (included in total Accrual) | 1,682 | 3 | 1,685 | | 1,685 | |
| | Total Delivered | 1,627,713 | 43,087 | 1,670,800 | | 1,670,800 | |

Total Received per 328 and 401a-lines 16/17 as reported

| - | Received per 328 | Accrual Received FF1 Pg 328.6 | Total Received Per 401a | |
|--|---------------------|-------------------------------------|-------------------------------|-----------|
| Total point-to-point schedules subject to losses - as reported on 328 (financial settlement) | 4,443,192 | 6,005 | 4,449,197 | 5 |
| Total network schedules <i>financially</i> settled - subst of total report on 328 | 3,003,999 | (20,915) | 2,983,084 | 6 |
| Western RS 262 Received reported on page 328 | 1,729,817 | 1,790 | 1,731,607 | see above |
| Western RS 263 Received reported on page 328 | 45,805 | - | 45,805 | see above |
| Black Hills (losses paid financially to PacifiCorp Energy) | 382,108 | (457) | 381,651 | 10 |
| Physical Losses Received (See Attachment D) | 299,954 | (4,875) | 295,079 | 11 |
| Network/OS/and other rate schedules ^[1] | 7,000,406 | 36,490 | 7,036,896 | 12 |
| Total Received per 401a Line 16 | 16,905,281 | 18,038 | 16,923,319 | |

2020 328 MWH RECEIVED/DELIVERED PT-TO-PT MW PHYSICAL SETTLEMENT AND BLACK HILLS

| | | Payment By (Company of Public Authority) | Statistical | | FERC Rate Schedule of | | | | |
|-------|----------|---|----------------|--------|--------------------------|----------------|-------------|----------|---------|
| | | (Footnote Affiliation) | Classification | | Tariff Number | | | | |
| Page | Line No. | (a) | (d) | | (e) | MegaWatt Hours | Black Hills | Physical | Total |
| 328 | Line 23 | Black Hills/Colorado Electric Utility Company | NF | SA 563 | | 5.00 | 5 | | 5 |
| 328 | Line 25 | Black Hills/Colorado Electric Utility Company | SFP | SA 562 | | 260.00 | 260 | | 260 |
| 328 | Line 26 | Black Hills Corporation | FNO | SA 347 | | 268,629.00 | 268,629 | | 268,629 |
| 328 | Line 27 | Black Hills Corporation | AD | SA 347 | | 28,183.00 | 28,183 | | 28,183 |
| 328 | Line 28 | Black Hills Corporation | LFP | SA 67 | | 77,240.00 | 77,240 | | 77,240 |
| 328 | Line 29 | Black Hills Corporation | AD | SA 67 | | 5,623.00 | 5,623 | | 5,623 |
| 328 | Line 30 | Black Hills Corporation | NF | SA 768 | | 970.00 | 970 | | 970 |
| 328 | Line 31 | Black Hills Corporation | AD | SA 768 | | 36.00 | 36 | | 36 |
| 328 | Line 32 | Black Hills Corporation | SFP | SA 767 | | 265.00 | 265 | | 265 |
| 328 | Line 34 | Black Hills Power Marketing | NF | SA 43 | | 790.00 | 790 | | 790 |
| 328.1 | Line 2 | Black Hills Power Marketing | SFP | SA 714 | | 107.00 | 107 | | 107 |
| 328.1 | Line 7 | Bonneville Power Administration | LFP | SA 656 | | 211,091.00 | | 211,091 | 211,091 |
| 328.1 | Line 8 | Bonneville Power Administration | AD | SA 656 | | 14,920.00 | | 14,920 | 14,920 |
| 328.1 | Line 15 | Bonneville Power Administration | LFP | SA 179 | | 53,766.00 | | 53,766 | 53,766 |
| 328.1 | Line 16 | Bonneville Power Administration | AD | SA 179 | | 4,006.00 | | 4,006 | 4,006 |
| 328.5 | Line 25 | State of South Dakota | LFP | SA 779 | | 14,513.00 | | 14,513 | 14,513 |
| 328.5 | Line 26 | State of South Dakota | AD | SA 779 | | 1,658.00 | | 1,658 | 1,658 |

| Total | 682,062.00 | 382,108.00 | 299,954.00 | 682,062.00 |
|---------------------------------------|------------|------------|------------|------------|
| Accruals | (5,332) | (457) | (4,875) | (5,332) |
| Total Black Hills & Physical Received | 676,730 | 381,651 | 295,079 | 676,730 |
| REF | | 10 | 11 | |

2020 FERC FORM 1 PAGES 310 AND 311 SALES FOR RESALE (Account 447) TRANSMISSION AGREEMENTS FINANCIALLY SETTLED

| | | | | | | | Actual [| Demand | | 1 |
|------|------|-------------------------------------|-------------|----------|---------------|-----------------|------------|-----------|---------------|-----|
| | | | Statistical | Footnote | FERC Rate | Average | Average | Average | | |
| Page | Line | Name of Company or Public Authority | Classifi- | for | Schedule or | Monthly Billing | Monthly | Monthly | Megawatthours | |
| No. | No. | [Footnote Affiliations] | cations | col (b) | Tariff Number | Demand (MW) | NCP Demand | CP Demand | Sold | |
| | | (a) | (b) | | (c) | (d) | (e) | (f) | (g) | REF |
| | | Nonrequirement Sales | | | | | | | | - |
| | 123 | Transmission Loss Sales Revenue | AD | 1 | T-11 | NA | NA | NA | 14 | |
| | 124 | Transmission Loss Sales Revenue | OS | 4 | T-11 | NA | NA | NA | 254,093 | |
| | | | | | | | | | | |

Total Pt-to-Pt, Network, and OS Financially Settled

254,107 35

2020 Off System Sales/Purchases Summary

| Amounts in thousands of MWh | MWh REF |
|--|--------------|
| PAC01 Off System Sales (MidC)-purchases | 278 |
| PAC01 Off System Sales (Cholla, Col, Herm, Wyo, YTP etc) - sales | 1,449 |
| Craig generation sales ^[1] | 1,123 |
| Hayden generation sales ^[1] | 393 |
| Total third-party off system sales/purchases | 3,243 16, 36 |

MidC filter

LoadPoint Does Not=CHEHALIS LCA Does Not=PACW AssignmentRef=212;213;NOR ContractMkt Does Not=ALCOA Exchange;No Spill Exch;RR CEA Path=MIDC/MIDC;MIDC/MIDCRemote TSSubClass Does Not=FCR_PHYSICAL;SECONDARY ScheduleType=Energy TagNotes Does Not=DOPD Settlement FlowType=Export LSE Does Not=PAC01

Cholla, Colstrip, Hermiston, Wyodak and YTP filter:

GPE=PAC01^[2] Scheduletype = Energy TagNotes does not = Coal Feed; Colstrip Startup LSE does not = PAC01 LoadPoint does not = NWMTLosses TSSubClass does not = FCR_PHYSICAL;SECONDARY Assignment Ref = 201;204;205;207;215;216;217;218;NOR; 230SI;231SI; 235SI; 250SI ^[3] FlowType=Export ^[4] GeneratorPointDoes Not = PACENNH or PACWNNH ^[5]

Jim Bridger filter^[6]

Path=JBSN/JBSN ScheduleType=Energy TagTransOwner=BHPM01 GCA=PACW LSE Does Not=PAC01 TagNotes Does Not=54234800 AssignmentRef=206;NOR

Notes and adjustments to 2010 query :

- [1] Off system sales at Craig and Hyden generation bus are not captured in the E-Tag query due to different tagging conventions. Data obtained from company records.
- [2] Replaced "Path=...." with "GPE=PAC01" which has the same effect on the filter except there is no need to add a new path to this list whenever there is a new path to add.
- [3] Added 230SI (Juniper Wind), 231SI (Goodnoe Hills), 235SI (Chehalis Gen) and 250SI (Hermiston Gen) to this list.
- [4] Added "FlowType=Export" to limit the view to Export tags only as opposed to Export AND an Import which would cancel each other when tags are totaled.
- [5] Added "GeneratorPointDoes Not = PACENNH or PACWNNH" to exclude non-generator bus transactions.
- [6] No off system sales at Jim Bridger generation bus have been identified in 2014.

Enclosure 4

Loss Factor Methodology Matrix

| ltem Number ¹ | Input | Value (all amounts in thousands of MWh) | Source Material, Calculations, and Assumptions Applied |
|-----------------------------|--|--|--|
| | RECALCULATED AI | ND ADJUSTED REC | EIVED AND DELIVERED ENERGY: SOURCES |
| 1 | Generation | 61,588 | PacifiCorp's 2020 FERC Form No. 1, page 401a, sum of lines 9 (Net Generation) and 10 (Purchases). |
| 2 | Net exchange | 2,286 | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 14 (Net Exchanges). |
| 3 | Transmission by Others Losses | (249) | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 19 (Transmission by Others Losses). |
| 4 | Reconciliation of Transmission received (401a line 16) | - | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 16 (Energy Received): itemization of the total energy sources received. |
| 5 | Pt-to-Pt transmission received - losses financially settled | 4,449 | Attachment A of the Loss Factor Calculation identifies the total Point-to-Point Transmission contracts subject to losses financially, as enumerated on PacifiCorp's 2020 FERC Form No. 1, page 329, including an adjustment for accrual differences. |
| 6 | Network transmission received - losses financially settled | 2,983 | Attachment B of the Loss Factor Calculation identifies the total Network Transmission contracts subject to losses financially as enumerated on PacifiCorp's 2020 FERC Form No. 1, page 329, including an adjustment for accrual differences. |
| 7 | WAPA RS 262 delivered | 1,628 | Attachment C of the Loss Factor Calculation identifies the losses associated with the MWhs delivered pursuant to PacifiCorp's Rate Schedule 262 with Western Area Power Administration ("WAPA"), as included on PacifiCorp's 2020 FERC Form No. 1, pages 328-329, including accrual adjustments. |
| 8 | WAPA RS 263 delivered | 43 | Attachment C of the Loss Factor Calculation identifies the losses associated with the MWhs delivered pursuant to PacifiCorp's Rate Schedule 263 with WAPA, as included on PacifiCorp's 2020 FERC Form No. 1, page 328-329, including accrual adjustments. |
| 9 | WAPA losses Received | 107 | Attachment C of the Loss Factor Calculation identifies the difference between energy received and delivered pursuant to |

¹ The Item Numbers used in this Appendix are intended to be illustrative only and do not change the Loss Factor Calculation methodology agreed to by the settling parties in Docket No. ER11-3643.

| Item Number ¹ | Input | Value (all amounts in thousands of MWh) | Source Material, Calculations, and Assumptions Applied |
|-----------------------------|---|--|---|
| | | | PacifiCorp's Rate Schedules 262 and 263 with WAPA, as included on PacifiCorp's 2020 FERC Form No. 1, page 328.5 and FERC Form No.1, line 17 (Energy delivered). |
| 10 | Black Hills transmission received - losses financially settled | 382 | Attachment D of the Loss Factor Calculation identifies the losses in MWhs sold to Black Hills Power ("Black Hills") under power purchase agreements with PacifiCorp Energy, as included in PacifiCorp's 2020 FERC Form No. 1, page 329, including an adjustment for accrual differences. |
| 11 | Transmission received - losses physically settled, other | 295 | Attachment D of the Loss Factor Calculation identifies the losses derived from Point-to-Point Transmission contracts which settle losses physically (i.e. State of South Dakota), as included in PacifiCorp's 2020 FERC Form No. 1, page 329, including accrual adjustments. |
| 12 | Transmission received – supplied losses – network customers | 7,037 | Attachment C of the Loss Factor Calculation identifies the adjusted total energy delivered for network and "other service" ("OS") contracts, which are reported in PacifiCorp's 2020 FERC Form No. 1, page 328, primarily through imbalance (FERC Account 555), including an adjustment for accrual differences. |
| 13 | Total Transmission received | 16,923 | Sum of Items 5 through 12. |
| 14 | Gross Received | 80,549 | Sum of Items 1-3 and 13. |
| 15 | Less third-party sales on-system (reported in Energy Received (duplicate transactions)) | (130) | This adjustment removes duplicate transactions reflected in both net generation and received/delivered energy (sales for resale by PacifiCorp Energy), which are also accounted for as part of wheeling received and delivered. This amount represents specific transactions between third parties and PacifiCorp Energy. Same value as item 37. |
| 16 | Less off-system sales/purchases without losses | (3,243) | Attachment F of the Loss Factor Calculation identifies the sales and purchase transactions at generator buses which do not utilize PacifiCorp's transmission system. The data is sourced from PacifiCorp's e-Tag and company records (using the e-Tag query |

| ltem Number ¹ | Input | Value (all amounts in thousands of MWh) | Source Material, Calculations, and Assumptions Applied |
|-----------------------------|--|--|---|
| | | | and descriptions set forth in PacifiCorp's Loss Analysis Methodology). Same value as item 36. |
| 17 | Net on-system received | 77,174 | Item 14 less Items 15-16. This value must be compared to net delivered energy to determine total system losses before losses are allocated between transmission and distribution. |
| | RECALCULATED | AND ADJUSTED R | ECEIVED AND DELIVERED ENERGY: USES |
| 18 | Sales to ultimate customers | 54,560 | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 22 (Sales to Ultimate Consumers). |
| 19 | Requirement sales for Resale | 267 | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 23 (Requirements Sales for Resale). |
| 20 | On system non-requirements sales subject to losses | 1,343 | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 24 (Non- Requirements Sales for Resale), adjusted to remove financial transactions, duplicate transactions and off-system activity detailed in items 33-37. |
| 21 | Company sales | | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 26 (Energy Used by the Company). |
| 22 | Transmission delivered without losses | 16,172 | This amount is the total contractual amounts of energy received by PacifiCorp (item 13) adjusted to remove the volumes subject to losses by multiplying the total energy received by current transmission loss factor (4.45%). See also the description and value from item 45 column titled "Adjusted to remove current Loss Factor". |
| 23 | Total delivered with on-system losses | 72,342 | Sum of Items 18 through 22. Total sales to customers adjusted for sales subject to losses. |
| 24 | Total system delivered loss rate including off-system | 6.7% | Item 25 / Item 23 (illustrative only). Loss rate includes both transmission and distribution losses. |
| 25 | Total Losses | 4,834 | Item 17 less item 23. |
| 26 | Distribution losses | 2,042 | Applies 4.64% distribution loss factor (from PacifiCorp's 2007 Distribution Loss Study) to total distribution losses (see item 46 column titled "Dist. Loss". |

| Item Number ¹ | Input | Value (all amounts in thousands of MWh) | Source Material, Calculations, and Assumptions Applied |
|-----------------------------|--|--|---|
| 27 | Remaining losses = transmission losses | 2,792 | Item 25 less Item 26. |
| 28 | Transmission deliveries = total deliveries | 74,384 | Sum of Items 23 and 26. |
| | + distribution loss | | |
| 29 | Transmission loss rate @ delivery | 3.75% | Resulting transmission loss factor is derived from dividing Item 27 |
| | | | by Item 28. |
| | | | LOSSES ADJUSTMENTS AND ALLOCATION |
| 30 | Transmission: Sales to ultimate | 12,592 | Items 30 & 31 represent a split of total retail sales as stated on |
| | consumers – transmission (including | | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 22 (Sales to |
| | interdepartmental sales) | | Ultimate Consumers) into the volumes delivered to the customers |
| 31 | Distribution: Sales to ultimate consumers | 41,968 | through transmission and distribution lines. The |
| | distribution (including | | transmission/distribution split is determined based on 1) rate |
| | interdepartmental sales) | | schedules with specific voltage types, such as residential and |
| | | | transmission service rate schedules, and 2) delivery voltage codes |
| | | | by customer in the company's billing system for rate schedules for |
| | | | which multiple voltage levels are applicable. The distribution |
| | | | volumes are then adjusted for losses which are determined by |
| | | | multiplying the retail distribution by the distribution loss factor |
| | | | (4.64%). |
| 32 | Requirements sales for resale | 267 | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 23 |
| | | | (Requirements Sales for Resale). |
| 33 | Non-requirements sales for resale | 4,982 | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 24 (Non- |
| | | | Requirements Sales for Resale). |
| Adjustmer | nts to remove financial transactions, duplicat | e transactions, an | |
| 34 | Less losses included paid by Black Hills | (11) | Attachment E of Loss Calculation identifies energy, including |
| | | | losses, sold to Black Hills under a long-term firm contract and |
| | | | included in PacifiCorp's 2020 FERC Form No. 1, page 401a, line 24 |
| | | | (Non-Requirements Sales for Resale), as stated in Account 447 |
| | | | details (FERC Form No. 1, page 311.1). This adjustment is derived |
| | | | from the FERC Form No. 1 data by applying the current |
| | | | transmission loss factor (4.45%). |

| ltem Number ¹ | Input | Value (all amounts in thousands of MWh) | Source Material, Calculations, and Assumptions Applied |
|-----------------------------|---|--|--|
| 35 | Less Pt-to-Pt and network losses - financially settled | (254) | Adjustment for Point-to-Point Transmission, Network, and other services for which the losses are settled financially in order to remove double counting of losses from the generation activity. Attachment E of Loss Calculation identifies these contracts as stated in FERC Form No.1, details for Account 447 (pages 311.1- 311.11). |
| 36 | Off-system sales/purchases without losses | (3,243) | Same value and description as item 16. |
| 37 | Third party sales on-system (reported in energy received (duplicated transactions) | (130) | Same value and description as item 15. |
| 38 | Total on-system non-requirements sales for resale subject to losses | 1,343 | Same value and description as item 20. |
| 39 | Energy used by the company (electric department only, excluding station use) | | PacifiCorp's 2020 FERC Form No. 1, page 401a, line 26 (Energy Used by the Company). |
| Transmiss | ion received/delivered (adjusted 401a, lines | 16&17 (items 40-4 | 15) |
| 40 | Transmission received - losses financially settled | 7,432 | Attachments A and B of the Loss Factor Calculation identify total Point-to-Point Transmission, Network, and Other services subject to losses settled financially, as enumerated on PacifiCorp's 2020 FERC Form No. 1, page 329 and adjusted for current transmission loss factor. |
| 41 | WAPA RS 262 & 263 | 1,777 | Sum of items 7-9 and adjusted value for current transmission loss factor. |
| 42 | Point-to-Point Transmission to Black Hills | 382 | Same value and description as item 10 and adjusted value for current transmission loss factor. |
| 43 | Transmission other – losses physically settled | 295 | Same value and description as item 11 and adjusted value for current transmission loss factor. |
| 44 | Transmission recieved - supplied losses | 7,037 | Same value and description as item 12 and adjusted value for current transmission loss factor. |
| 45 | Total Transmission | 16,923 | Sum of Items 40 through 44 and adjusted value for current transmission loss factor. |

| Item Number ¹ | Input | Value (all amounts in thousands of MWh) | Source Material, Calculations, and Assumptions Applied |
|-----------------------------|-------|--|---|
| 46 | Total | 73,094 | Sum of items 30-32 plus sum of items 38-39 plus item 45 and adjusted for current transmission and distribution loss factor. |

Enclosure 5

E-Tag Adjustments

E-Tag Filter Adjustments:

PacifiCorp performed a similar E-Tag query rule to the one that was established in the Docket No. ER11-3643 Settlement Agreement. The Docket No. ER11-3643 "2010 E-Tag query" consisted of the following parameters:

- Path=CHOLLA500/CHOLLA500;Colstrip/Colstrip;HERMISTONGEN/HERMIS
- TONGEN; JEFF/JEFF; UINTA/UINTA; WYODAK/WYODAK; YTP
- Scheduletype = Energy
- TagTransOwner = PAC01
- TagNotes does not = Coal Feed; Colstrip Startup
- LSE does not = PAC01
- LoadPoint does not = NWMTLosses
- TSSubClass does not = FCR_PHYSICAL;SECONDARY
- Assignment Ref = 201;204;205;207;215;216;217;218;NOR

PacifiCorp made minor adjustments to the 2010 E-Tag query to remove transactions which occurred at a generator bus that did not utilize PacifiCorp's transmission. The E-Tag adjustments are listed in Appendix F and are explained in more detail below.

- 1. Off system sales at Craig and Hyden generation bus are not captured in the E-Tag query because these resources are not located in our control area. Thus, any generator bus sale for these resources will not use any PacifiCorp transmission and we will not have these transactions in our E-Tagging system.
- 2. Replaced the path name with "GPE=PAC01". This parameter identifies all PacifiCorp managed generation that was used for off system sales. PacifiCorp uses this parameter to tag resources when they are used for off system sales.
- 3. Added Juniper Hills, Goodnoe Hills, Chehalis, and Hermiston to the assignment ref parameter. The addition of the generator reservation is necessary when using GPE=PAC01 instead of the specific path parameter. Juniper Hills, Goodnoe Hills, Chehalis, and Hermiston resources could be used for off system sales. When a resource is used for off system sales the resource will be undesignated and will not use PacifiCorp transmission.
- 4. Added a flow type parameter of export because the PacifiCorp E-Tagging system would cancel tags out if an export and import parameter were used. This allows PacifiCorp to include exports only when determining transactions that occurred to support off system sales.
- 5. Added "GeneratorPointDoes Not = PACENNH or PACWNNH" to exclude any transactions at a non-generator bus. This parameter is necessary when using a non-path specific parameter.
- 6. A path specific filter was used for Jim Bridger.