Exh. DCG-26 Dockets UE-200900, UG-200901, UE-200894 Witness: David C. Gomez

#### BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

## WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

AVISTA CORPORATION, d/b/a AVISTA UTILITIES,

**Respondent.** 

DOCKETS UE-200900, UG-200901, UE-200894 (*Consolidated*)

#### EXHIBIT TO TESTIMONY OF

David C. Gomez

## STAFF OF WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

PacifiCorp Oregon 2020 TAM, Staff Exhibit 300 – Enright

April 21, 2021



### **Public Utility Commission**

201 High St SE Suite 100 Salem, OR 97301 **Mailing Address:** PO Box 1088 Salem, OR 97308-1088 **Consumer Services** 1-800-522-2404 Local: 503-378-6600 **Administrative Services** 503-373-7394

June 10, 2019

Via Electronic Filing

OREGON PUBLIC UTILITY COMMISSION ATTENTION: FILING CENTER PO BOX: 1088 SALEM OR 97308-1088

### RE: <u>Docket No. UE 356</u> – In the Matter of PACIFICORP, dba PACIFIC POWER, 2020 Transition Adjustment Mechanism.

Enclosed for electronic filing are Staff Opening Testimony and Exhibits, Certificate of Service and UE 356 Service List.

Exhibit 100, confidential pages are 5, 16, 31 Exhibit 101-103 and Confidential Exhibit 104

Exhibit 200, confidential pages are 13, 16 Exhibit 200-202 and Confidential Exhibit 203

Exhibit 300, confidential pages are 2, 6-13, 17, 19-21 and 27-30 Exhibit 301-302 and Confidential Exhibit 303

Exhibit 400, confidential pages are 2, 6, 7-8, 10-13 Exhibit 401-402 and Confidential Exhibit 403

Confidential exhibits are being mailed today via US first class mail to parties who have signed Protective Order No. 16-128.

/s/ Kay Barnes Kay Barnes PUC- Utility Program (503) 378-5763 kay.barnes@state.or.us

CASE: UE 356 WITNESS: MOYA ENRIGHT

# PUBLIC UTILITY COMMISSION OF OREGON

# **STAFF EXHIBIT 300**

**Opening Testimony** 

June 10, 2019

1	Q.	Please state your name, occupation, and business address.
2	A.	My name is Moya Enright. I am a Senior Utility and Energy Analyst employed
3		in the Energy Rates, Finance and Audit Division of the Public Utility
4		Commission of Oregon (OPUC). My business address is 201 High Street SE,
5		Suite 100, Salem, Oregon 97301.
6	Q.	Please describe your educational background and work experience.
7	A.	My witness qualification statement is found in exhibit Staff/301.
8	Q.	What is the purpose of your testimony?
9	A.	I discuss the 2020 TAM filing and Staff's analysis of the issues. Specifically, I
10		will discuss Staff's review of and recommended Commission action regarding:
11		the Western Energy Imbalance Market (EIM) benefit forecast, Wholesale
12		Transactions and Hedging, Economic Cycling, and Day Ahead/Real Time (DA-
13		RT) Adjustment.
14	Q.	Did you prepare an exhibit for this docket?
15	A.	Yes. I prepared the following Staff Exhibits:
16 17 18 19 20		<ul> <li>Staff/301: Witness Qualification Statement</li> <li>Staff/302: PacifiCorp's responses to Staff DR Nos. 36, 37, 39, 63, 58, and 62.</li> <li>Staff/303: PacifiCorp's confidential responses to Staff DR Nos. 36, 37, 24, and 53.</li> </ul>
21	Q.	How is your testimony organized?
22	A.	My testimony is organized as follows:
23 24 25 26		Issue 1, Western Energy Imbalance Market Benefit Forecast

Exh. DCG-26 Dockets UE-200900, UG-200901, UE-200894 Staff/300 Page 4 of 18 Enright/2

1	Q. Please summarize your recommendations and adjustments.	
2	A. Staff makes the following recommendations and adjustments:	
3	1. EIM benefit forecast	
1	a. Staff recommends an inter-regional transfer benefits forecast o	of
5	[BEGIN CONFIDENTIAL]	-]
3	on a total company basis.	
7	b. Staff recommends including excess GHG revenue for the	
3	benefit of customers, equaling an adjustment of [BEGIN	
9	CONFIDENTIAL]	
	total company basis.	
	2. Wholesale transactions and hedging	
2	a. No adjustment recommended.	
3	3. Economic Cycling	
ŧ	a. Staff recommends removing the four-month economic cycling	
5	period restriction.	
3	b. Staff recommends allowing GRID to economically cycle non-	
,	majority-owned units as a case study, and based on those	
3	results, PacifiCorp discuss economic cycling opportunities with	
)	co-owners.	
)	c. Staff recommends PacifiCorp conduct a cost benefit analysis or	f
	allowing EIM participating units to economically cycle in GRID.	

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# 4. DA-RT adjustment

# a. Staff recommends an adjustment to the DA-RT price adder calculation to use historic daily prices rather than historic average monthly prices.

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# **ISSUE 1, WESTERN ENERGY IMBALANCE MARKET BENEFIT FORECAST**

# **Q.** What is the Energy Imbalance Market?

A. The Energy Imbalance Market (EIM) is a real-time wholesale power market. Its automated dispatch system provides economic benefits to participants by efficiently balancing load and generation resources. It also provides reliability and renewable integration benefits to the grid. PacifiCorp joined the EIM in 2014.

# Q. How does participating in the EIM benefit PacifiCorp?

A. PacifiCorp benefits from its participation in EIM in a number of ways:

- Excess Greenhouse Gas (GHG) Revenue. GHG revenue is awarded when CAISO determines generation within an EIM entity served CAISO load.<sup>1</sup>
   Excess GHG revenue results when a GHG emitting resource and non-GHG emitting resource are generating at a node, power is being exported from the node to California, and more power is generated than is exported to California.
- Flexibility Reserve Savings. These savings occur because the diversified footprint of EIM allows PAC to hold lower reserves than would otherwise be necessary.
  - Intra-Regional Transfer Benefits. These benefits accrue through EIM optimizing the automated dispatch of PacifiCorp's EIM participating units.

<sup>&</sup>lt;sup>1</sup> Energy generated in California or imported into the state to serve California load is subject to California's GHG obligation. GHG revenue in EIM is intended to compensate entities importing power into California for their compliance costs.

 Inter-Regional Transfer Benefits. These benefits arise due to EIM facilitating transactions between PacifiCorp, CAISO, and other EIM participants on a five- and 15-minute basis.

Q. Are each of the four benefits forecasted in the 2020 TAM?

 A. No, only two of the four benefits are currently forecasted in the TAM. Flexibility reserve savings and inter-regional transfer benefits are currently forecasted; however, excess GHG revenue and intra-regional benefits are not.

Q. Please explain how flexibility reserve savings and inter-regional transfer benefits are forecasted in the 2020 TAM.

- A. PacifiCorp proposes to use different forecasting approaches for each benefit:
- Flexibility Reserve Savings. These savings occur because the diversified footprint of EIM allows PAC to hold lower reserves than would otherwise be necessary. PacifiCorp has asserted that due to its participation in EIM, it will be required to hold approximately 130 MW less reserves in 2020 than if it did not participate. This benefit is modelled by simply reducing the reserve requirement in GRID by 130 MW. Flexibility Reserve Savings in the 2020 TAM amount to a benefit of \$1.6 million.<sup>2</sup>
- Inter-regional transfer benefits. These benefits occur when PAC earns money by exporting to EIM or saves money by importing from EIM. PacifiCorp has forecasted this benefit using a linear regression.

<sup>2</sup> PAC/100, Wilding/28, line 12.

1	Q.	Has PAC changed its approach in forecasting EIM benefits in this year's
2		TAM filing?
3	A.	Yes. PacifiCorp has proposed a new approach for forecasting inter-regional
4		transfer benefits. In the 2019 TAM, inter-regional transfer benefits were
5		forecasted using a linear regression with one independent variable: time.
6		PacifiCorp now proposes to use four independent variables: electricity market
7		prices, gas market prices, EIM transfer capability, and spring oversupply
8		conditions.
9	Q.	Does Staff have any concerns with the new model proposed by
10		PacifiCorp?
11	A.	Yes, Staff is concerned to see a proposed [BEGIN CONFIDENTIAL]
12		[END CONFIDENTIAL] reduction in EIM benefits in the 2020 TAM
13		compared with the 2019 TAM. There has been no convincing evidence
14		presented to suggest that EIM benefits should decline in 2020. In fact, the
15		latest data made available by PacifiCorp shows that [BEGIN
16		CONFIDENTIAL]
17		END
18		<b>CONFIDENTIAL]</b> . <sup>3</sup> These trends can be observed in Figure 1.
19	[BE	GIN CONFIDENTIAL]
	3 D:	Corp confidential workpaper "ORTAM20w_EIM Benefits CONF".
	raciil	Lorp confidential workpaper OKTAWIZOW_ENVIDENTENDS CONF .

#### Figure 1

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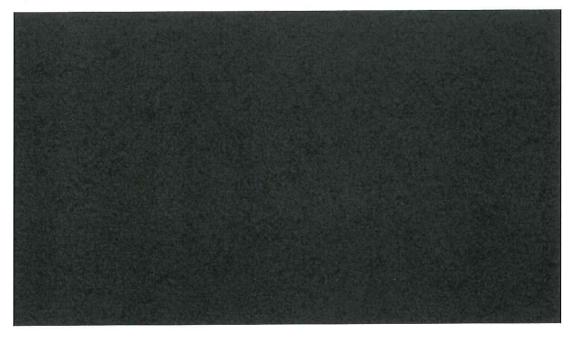
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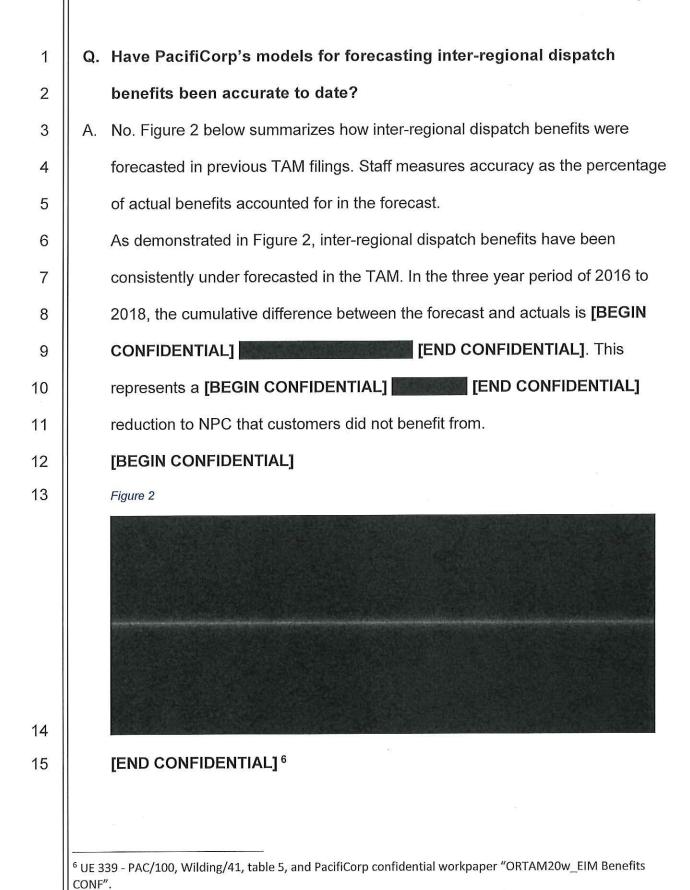
# [END CONFIDENTIAL]

The model proposed by PacifiCorp adds weight to springtime results in recent years, however the Company has not presented any empirical evidence to demonstrate that spring oversupply conditions affect EIM results, nor has it provided convincing arguments to support its approach.

Modeling inter-regional benefits with an added emphasis on spring months reduces the impact of higher prices and higher loads at other times of the year. Higher prices and higher loads are the same market conditions which PacifiCorp identified as drivers of higher EIM benefits in testimony.<sup>4</sup> It is not logical that this approach would be taken considering the Company's expectation of higher prices in 2020 power markets.<sup>5</sup>

STAFF EXHIBIT 300 ENRIGHT - REDACTED

- <sup>4</sup> PAC/100, Wilding/30 & 31.
- <sup>5</sup> PAC/100, Wilding/13.



STAFF EXHIBIT 300 ENRIGHT - REDACTED

# Q. What action does Staff recommend?

- Staff recommends reverting to the model used to forecast inter-regional Α. benefits in the 2019 TAM, which was agreed on by PacifiCorp and parties. 3 Although previous models to date have under-forecast benefits, the 2019 TAM 4 model is yet to show inaccuracies in its forecast ability. It was the first model in 5 which all parties agreed to a methodology. It is simpler and more transparent 6 than the Company's updated model. It further provides a more common sense 7 forecast result as it maintains the trend of increasing benefits over time 8 evidenced in Figure 1 above. This model forecasts inter-regional transfer 9 benefits totaling [BEGIN CONFIDENTIAL] **FEND** 10 11 CONFIDENTIAL] for 20207. Q. Please explain why excess GHG revenue and intra-regional transfer 12 13 benefits are not forecasted in the 2020 TAM? Intra-Regional Transfer Benefits. Discussion with PacifiCorp has led Staff to 14 Α. understand that intra-regional benefits arising from optimized dispatch are 15 comparable to the optimization carried out in GRID. This indicates that 16 although not explicitly forecasted in the TAM, intra-regional benefits are 17 18 reflected in NPC. Excess GHG Revenue. PacifiCorp was unable to provide a reasonable 19 response as to why GHG revenue was not included. PacifiCorp has stated 20
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that it does not currently have a model to forecast excess GHG revenue.

However, the Company did include a GHG adjustment to its forecast in

<sup>&</sup>lt;sup>7</sup> PacifiCorp confidential workpaper "ORTAM20w\_EIM Benefits CONF".

UE 323 (2018 TAM) and excess GHG revenue is included in the currently 1 proposed EIM benefits model for Portland General Electric (UE 359). 2 Would ratepayers benefit from Excess GHG revenue being included in 3 Q. 4 the TAM? Yes, ratepayers would benefit from including excess GHG revenue in the Α. 5 TAM through a reduction to net power costs. 6 PacifiCorp's responses to Staff discovery requests show that PacifiCorp has 7 received GHG revenue totalling [BEGIN CONFIDENTIAL] **IEND** 8 **CONFIDENTIAL**] since joining EIM.<sup>8</sup> The utility maintains that due to its 9 record keeping processes it is unable to provide data on what proportion of 10 the GHG revenue is excess to its EIM GHG obligation.<sup>9</sup> 11 Excess GHG revenue is calculated as the difference between GHG revenue 12 earned in EIM, and GHG expenses to meet obligations arising from EIM sales 13 associated with the cost of compliance with California Air Resource Board 14 Cap-and-Trade program. PacifiCorp currently records GHG expenses for both 15 16 non-EIM bilateral sales into California and EIM trades in the same account. Staff discovery has shown that the Company's total GHG expense for EIM 17 and bilateral sales since joining EIM was [BEGIN CONFIDENTIAL] 18 19 [END CONFIDENTIAL].<sup>10</sup>

<sup>&</sup>lt;sup>8</sup> Staff/302, Enright/1 (PacifiCorp's response to Staff DR 36); Staff/303, Enright/1 (confidential attachment to PacifiCorp's response to Staff DR 36).

<sup>&</sup>lt;sup>9</sup> Staff/302, Enright/2 (PacifiCorp's response to Staff DR 37); Staff/302, Enright/3 (PacifiCorp's response to Staff DR 39).

<sup>&</sup>lt;sup>10</sup> Staff/302, Enright/2 (PacifiCorp's response to Staff DR 37); Staff/303, Enright/2 (confidential attachment to PacifiCorp's response to Staff DR 37).

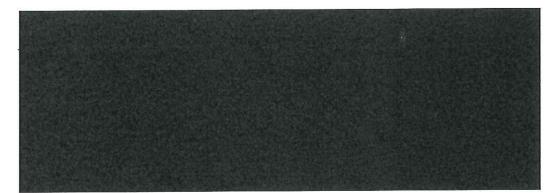
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# [BEGIN CONFIDENTIAL]

#### Figure 3



## [END CONFIDENTIAL]<sup>11</sup> 4 Staff estimates that PacifiCorp has received a minimum of [BEGIN 5 [END CONFIDENTIAL] in excess GHG CONFIDENTIAL] 6 revenue since joining EIM. It is important to note that actual excess GHG 7 revenue is higher than this estimate. The correct value of excess GHG 8 revenue cannot be calculated by Staff using the data provided by 9 PacifiCorp.<sup>12</sup> This is due to EIM GHG expenses and non-EIM GHG expenses 10 being tracked together. In Staff's calculation the excess GHG revenue is 11 reduced due to the GHG expenses from PacifiCorp's non-EIM trades into 12 California being included in the overall GHG expense figure. 13

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# Q. What action does Staff recommend?

A. Staff recommends that excess GHG revenue be included in EIM benefits for
the 2020 TAM. As PacifiCorp has not been forthcoming with the details of its

<sup>11</sup> Staff/303, Enright/1 (confidential attachment to PacifiCorp's response to Staff DR 36); Staff/303, Enright/2 (confidential attachment to PacifiCorp's response to Staff DR 37).
 <sup>12</sup> Staff/302, Enright/2 (PacifiCorp's response to Staff DR 37); Staff/302, Enright/3 (PacifiCorp's response to Staff DR 37); Staff/302, Enright/3 (PacifiCorp's response to Staff DR 39).

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1	EIM-related GHG expenses, Staff recommends that GHG revenues in their
2	entirety are allocated as an EIM benefit.
3	Staff recommends a forecast of [BEGIN CONFIDENTIAL]
4	<b>CONFIDENTIAL]</b> in GHG revenue for the 2020 TAM. This amounts to the
5	average GHG revenue received in the four full calendar years that PacifiCorp
6	has participated in EIM.
7	Staff also recommends that PacifiCorp begin tracking GHG expenses from EIM
8	sales in an individual account, so that in future TAM filings more accurate data
9	is available to estimate excess GHG revenue.
10	Q. Are fixed EIM costs being recovered?
11	A. Yes. In UE 339, the Commission ordered that fixed EIM costs continue to be
12	recoverable under the TAM on an interim basis until the Company's next
13	general rate case.
14	Q. What are Staff's recommendations?
15	A. Staff has recommendations relating to GHG revenue and inter-regional transfer
16	benefits.
17	Inter-regional transfer benefits. Staff recommends rejecting the model for
18	inter-regional transfer benefits inter-regional transfer benefits proposed by
19	PacifiCorp, and that the model approved in the 2019 TAM is used in its place.
20	Staff recommends a forecast of [BEGIN CONFIDENTIAL]
21	<b>CONFIDENTIAL]</b> for inter-regional transfer benefits.
22	• Excess GHG revenues. Staff recommends that an adjustment of [BEGIN
23	CONFIDENTIAL] [END CONFIDENTIAL] to the 2020 TAM to

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Exh. DCG-26 Dockets UE-200900, UG-200901, UE-200894 Staff/300 Page 15 of 18 Enright/13



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account for excess GHG revenue. This is the average GHG revenue received in the four full years that PacifiCorp has been operating in EIM. Staff also recommends that PacifiCorp begin to track GHG expenses from EIM sales in an individual account, so that in future TAM filings, more accurate data is available to estimate excess GHG revenue.

Total EIM benefits. Staff recommends a total EIM benefit of [BEGIN

CONFIDENTIAL] [END CONFIDENTIAL]. See Figure 4 for a

breakdown of this amount.

[BEGIN CONFIDENTIAL]

[END CONFIDENTIAL]

Figure 4



STAFF EXHIBIT 300 ENRIGHT - REDACTED

UE 356 / PacifiCorp May 29, 2019 OPUC Data Request 36

#### **OPUC Data Request 36**

**EIM Benefits** - In Excel format, please show total monthly revenue from the EIM greenhouse gas (GHG) adder since joining EIM.

#### **Response to OPUC Data Request 36**

PacifiCorp records greenhouse gas (GHG) revenues received in California Independent System Operator (CAISO) Charge Code 491 in SAP Account 508015. Please refer to Confidential Attachment OPUC 36 for the SAP detail. Note: CAISO resettles months multiple times, therefore, in any given SAP month multiple production months are being recorded. The production period is noted in the "text" column of the SAP detail.

Confidential Attachment OPUC 36 is designated as Protected Information under Order No. 16-128 and may only be disclosed to qualified persons as defined in that order.

Despite PacifiCorp's diligent efforts, certain information protected from disclosure by the attorney-client privilege or other applicable privileges or law may have been included in its responses to these data requests. PacifiCorp did not intend to waive any applicable privileges or rights by the inadvertent disclosure of protected information, and PacifiCorp reserves its right to request the return or destruction of any privileged or protected materials that may have been inadvertently disclosed. Please inform PacifiCorp immediately if you become aware of any inadvertently disclosed information.

UE 356 / PacifiCorp May 29, 2019 OPUC Data Request 37

#### **OPUC Data Request 37**

**EIM Benefits** - In Excel format, please show total monthly expenses for GHG compliance with the California Air Resources Board since joining EIM.

#### **Response to OPUC Data Request 37**

PacifiCorp records greenhouse gas (GHG) expenses incurred by selling bilaterally into the California Independent System Operator (CAISO) market or through the energy imbalance market (EIM) in SAP Account 546516. Please refer to Confidential Attachment OPUC 37 which provides the SAP detail, The "Text" field in the SAP detail notes what production period the amounts relate to. PacifiCorp does not differentiate between GHG obligations incurred related to the EIM and wholesale bilateral sales. This expense relates to both EIM and bilateral California sales.

Confidential Attachment OPUC 37 is designated as Protected Information under Order No. 16-128 and may only be disclosed to qualified persons as defined in that order.

Despite PacifiCorp's diligent efforts, certain information protected from disclosure by the attorney-client privilege or other applicable privileges or law may have been included in its responses to these data requests. PacifiCorp did not intend to waive any applicable privileges or rights by the inadvertent disclosure of protected information, and PacifiCorp reserves its right to request the return or destruction of any privileged or protected materials that may have been inadvertently disclosed. Please inform PacifiCorp immediately if you become aware of any inadvertently disclosed information. UE 356 / PacifiCorp May 29, 2019 OPUC Data Request 39

#### **OPUC Data Request 39**

**EIM Benefits** - Please provide the calculation methodology for GHG proceeds, including an explanation of the rationale for using the methodology. If PacifiCorp is not calculating GHG proceeds as GHG adder revenue less GHG compliance expenses for California load, please also calculate the benefits using this methodology.

#### **Response to OPUC Data Request 39**

PacifiCorp does not calculate a net proceeds on greenhouse gas (GHG) related to wholesale activities and the energy imbalance market (EIM). PacifiCorp's goal is to procure a sufficient quantity of allowances to cover the GHG obligation incurred by making bilateral wholesale sales into California and the EIM. PacifiCorp can identify the revenues received from the EIM to cover the obligation incurred in the EIM – please refer to the Company's response to OPUC Data Request 36. PacifiCorp records expense related to the bilateral and EIM activity by accruing expense at the average cost of inventory of GHG allowances purchased – please refer to the company's response to OPUC Data Request 37. PacifiCorp, however, does not know the proceeds received to cover the GHG obligation incurred by non-EIM bilateral sales into California. There is no GHG cleared price in the California Independent System Operator (CAISO) dayahead market. Thus, when PacifiCorp sells into the CAISO day-ahead market and receives a day-ahead locational marginal price (LMP) proceeds, it is not possible to know how much of those proceeds relate specifically to GHG and not energy.

Despite PacifiCorp's diligent efforts, certain information protected from disclosure by the attorney-client privilege or other applicable privileges or law may have been included in its responses to these data requests. PacifiCorp did not intend to waive any applicable privileges or rights by the inadvertent disclosure of protected information, and PacifiCorp reserves its right to request the return or destruction of any privileged or protected materials that may have been inadvertently disclosed. Please inform PacifiCorp immediately if you become aware of any inadvertently disclosed information.