

May 15, 2020

#### VIA ELECTRONIC FILING

Public Utility Commission of Oregon Attn: Filing Center 201 High Street SE, Suite 100 Salem, OR 97301-3398

#### RE: UE 379—PacifiCorp's 2019 Power Cost Adjustment Mechanism

PacifiCorp d/b/a Pacific Power (PacifiCorp or Company) encloses for electronic filing its 2019 Power Cost Adjustment Mechanism (PCAM) filing.

In Order No. 12-493, the Public Utility Commission of Oregon (Commission) approved a PCAM to allow PacifiCorp to recover the difference between actual net power costs (NPC) incurred to serve customers and the base NPC established in PacifiCorp's annual transition adjustment mechanism (TAM) filing. The amount recovered from or refunded to customers for a given year is subject to the following parameters:

- Asymmetrical Deadband. Any variance between negative \$15 million and positive \$30 million will be absorbed by the Company.
- Sharing Band. Any variance above or below the deadband will be shared 90 percent by customers and 10 percent by the Company.
- Earnings Test. If PacifiCorp's earned return on equity (ROE) is within plus or minus 100 basis points of the allowed ROE, there will be no recovery from or refund to customers.
- Amortization Cap. The amortization of deferred amounts are capped at six percent of the revenue for the preceding calendar year.

On an Oregon-allocated basis, actual PCAM costs were \$45.1 million more than base PCAM costs established in the 2019 TAM (docket UE 339). While the amounts exceed the established deadband by \$15.1 million, PacifiCorp's earned ROE for 2019 is 9.34 percent which is within 100 basis points of PacifiCorp's authorized ROE of 9.8 percent. Therefore PacifiCorp is not requesting a rate change. Because Schedule 206, Power Cost Adjustment Mechanism – Adjustment, is currently set at zero cents per kilowatt hour for all schedules, no tariff change is required at this time.

In compliance with Order No. 17-524, PacifiCorp includes supporting direct testimony of David G. Webb that includes a discussion of any unusual expenses incurred over the course of the 2019 PCAM year and large deviations of actual NPC from forecasted NPC. A differential worksheet indicating actual minus base power costs for each separate cost category in the PCAM on a gross

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cost and per megawatt-hour unit basis is included in the confidential workpapers accompanying this filing.

Confidential material supporting this filing is provided under Order No. 20-162.

PacifiCorp respectfully requests that all communications related to this filing be addressed to:

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Additionally, PacifiCorp requests that all formal information requests regarding this matter be addressed to:

By email (preferred): <u>datarequest@pacificorp.com</u>

By regular mail: Data Request Response Center

**PacifiCorp** 

825 NE Multnomah, Suite 2000

Portland, OR 97232

Informal inquiries may be directed to Cathie Allen at (503) 813-5934.

Sincerely,

Michael Wilding

Director of Net Power Costs and Regulation

cc: Service List UE 374

Service List UE 361

# **CERTIFICATE OF SERVICE**

I certify that I delivered a true and correct copy of PacifiCorp's **2019 Power Cost Adjustment Mechanism** on the parties listed below via electronic mail in compliance with OAR 860-001-0180.

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Dated this 15<sup>th</sup> day of May, 2020.

Katie Savarin

Coordinator, Regulatory Operations

#### **CERTIFICATE OF SERVICE**

I certify that I served a true and correct copy of PacifiCorp's **2019 Power Cost Adjustment Mechanism** on the parties listed below via electronic mail in compliance with OAR 860-001-0180.

### Service List UE 361

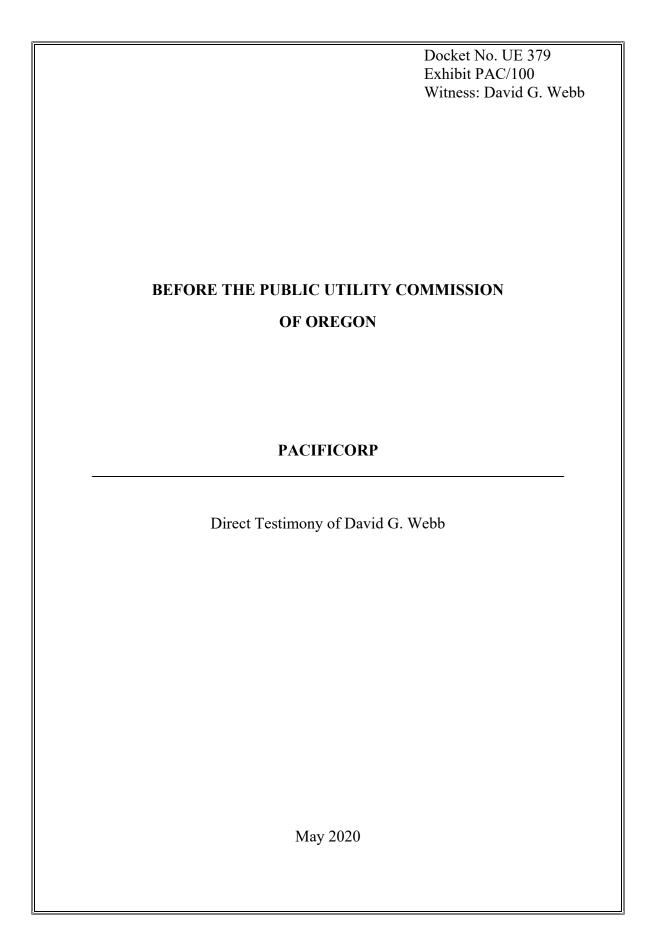
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Dated May 15, 2020.

Katie Savarin

Coordinator, Regulatory Operations

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## DIRECT TESTIMONY OF DAVID G. WEBB

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#### ATTACHED EXHIBITS

Exhibit PAC/101—2019 PCAM Calculation

1	Q.	Please state your name, business address, and present position with PacifiCorp,
2		d/b/a Pacific Power (PacifiCorp or Company).
3	A.	My name is David G. Webb and my business address is 825 NE Multnomah Street,
4		Suite 600, Portland, Oregon 97232. My title is Manager, Net Power Costs.
5		I. QUALIFICATIONS
6	Q.	Briefly describe your education and professional experience.
7	A.	I received a Master of Accountancy degree from Southern Utah University in 1999
8		and a Bachelor of Science degree in Business Management from Brigham Young
9		University in 1994. I am a Certified Public Accountant licensed in the state of
10		Nevada. I have been employed by PacifiCorp since 2005 and have held various
11		positions in the regulation, finance, fuels, and mining departments. I assumed my
12		current role managing the regulatory net power cost group in 2019.
13	Q.	Have you testified in previous regulatory proceedings?
14	A.	Yes. I have previously provided testimony to the public utility commissions in Utah
15		Wyoming, Idaho, and Oregon.
16		II. PURPOSE OF TESTIMONY
17	Q.	What is the purpose of your testimony in this proceeding?
18	A.	My testimony presents and supports PacifiCorp's calculation of the Power Cost
19		Adjustment Mechanism (PCAM) costs for the 12-month period of January 1, 2019,
20		through December 31, 2019 (Deferral Period). More specifically, I provide the
21		following:
22		Background on the PCAM and an accounting of how the PCAM balance was
23		calculated for the Deferral Period;

1 Discussion of the main differences between adjusted actual net power costs 2 (Actual NPC) and net power costs in rates (Base NPC); and, 3 Discussion about PacifiCorp's participation in the energy imbalance market 4 (EIM) with the California Independent System Operator (CAISO) and the 5 benefits from EIM that are passed through to customers. 6 Q. Are additional witnesses presenting testimony specifically for the PCAM and 7 Rate Schedule 206 in this case? 8 A. No. 9 III. SUMMARY OF THE PCAM DEFERRAL CALCULATION 10 Q. Please briefly describe PacifiCorp's PCAM authorized by the Public Utility 11 Commission of Oregon (Commission). 12 A. Commission Order No. 12-493 approved a PCAM to allow PacifiCorp to recover the 13 difference between actual PCAM costs incurred to serve customers and the base 14 PCAM costs established in PacifiCorp's annual transition adjustment mechanism 15 (TAM) filing.<sup>1</sup> PCAM costs include NPC, non-NPC EIM costs, other revenues, and 16 Production Tax Credits (PTC). Please summarize the calculation of the PCAM deferral included in this filing. 17 Q. 18 For the Deferral Period, on an Oregon-allocated basis, actual PCAM costs are A. 19 \$45.1 million more than base PCAM costs established in docket UE 339 20 (2019 TAM). The application of the earnings test results in no recovery through the 21 2019 PCAM.

<sup>1</sup> In the Matter of PacifiCorp, dba Pacific Power, Request for a General Rate Case, Docket No. UE 246, Order No. 12-493 (Dec. 20, 2012) (Order No. 12-493).

1	Q.	Have you provided detailed support for the calculation of the PCAM balance
2		with your testimony?
3	A.	Yes. Exhibit PAC/101 is a summary of the calculation of PacifiCorp's 2019 PCAM
4		deferral on a monthly basis. Detailed workpapers supporting Exhibit PAC/101 are
5		provided separately. <sup>2</sup>
6		IV. PCAM DEFERRAL CALCULATION
7	Q.	Please describe the calculation of the PCAM deferral included in this filing.
8	A.	The PCAM deferral is calculated on a monthly basis by comparing actual PCAM
9		costs to base PCAM on a per-unit basis. The amount recovered from or refunded to
10		customers for a given year is subject to the following parameters:
11		Asymmetrical Deadband: Any PCAM difference between negative
12		\$15 million and positive \$30 million will be absorbed by the Company.
13		• Sharing Band: Any PCAM difference above or below the deadband will be
14		shared 90 percent by customers and 10 percent by PacifiCorp.
15		• Earnings Test: If PacifiCorp's earned return on equity (ROE) is within plus or
16		minus 100 basis points of the authorized ROE, there will be no recovery from
17		or refund to customers.
18		• Amortization Cap: The amortization of deferred amounts are capped at
19		six percent of the revenue for the preceding calendar year.
20		For the Deferral Period the earned ROE was 9.34 percent which was within
21		100 basis points of the 9.8 percent authorized ROE. Therefore, PacifiCorp is not

<sup>&</sup>lt;sup>2</sup> Confidential workpapers are provided to the Commission under OAR 860-01-0070.

- allowed to request a rate change to Schedule 206. A summary of the deferral calculation is shown in Table 1.
  - Table 1
    Summary of PCAM Account Balance

Summary of I CAM Account	
Calendar Year 2019 PCAM Deferral	
Actual PCAM Costs (\$/MWh)	\$ 29.16
Base PCAM Costs (\$/MWh)	 25.72
PCAM Cost Differential (\$/MWh)	3.43
Oregon Retail Load (MWh)	13,088,664
PCAM Differential*	\$ 45,125,103
Situs Resource True-Up*	 16,958
Total PCAM Differential*	45,142,061
Total Deferrable ABOVE Deadband	15,142,061
Total Deferrable BELOW Deadband	-
Oregon Deferral at 90% Sharing	13,627,855
Oregon Deferral at 90% Sharing after Earning Test	-
Interest Accrued through December 31, 2019	-
Requested PCAM Recovery	\$ 
* Calculated monthly	

# 3 Q. How is the PCAM differential calculated on a monthly basis?

- 4 A. As previously noted, on a monthly basis, actual PCAM costs are compared to base
- 5 PCAM on a per-unit basis. PCAM costs are established in the Oregon TAM and
- 6 include NPC, EIM costs, Other Revenues, and PTCs. EIM benefits are included in
- 7 NPC. Any differences in the system per-unit cost are multiplied by the actual
- 8 megawatt hours of Oregon retail sales in that month to determine Oregon's share of
- 9 any differential. The calculation uses the following formula:

1 (PCAMC<sub>a</sub> ÷ Load<sub>a</sub>) - (PCAMC<sub>b</sub> ÷ Load<sub>b</sub>) =System PCAM Unit Cost Differential 2 System PCAM Unit Cost Differential × Load<sub>o</sub>+(SR<sub>a</sub>- SR<sub>b</sub>)=PCAM Differential 3 Where: 4 = Total Company Adjusted Actual NPC (Excluding Situs PCAMC<sub>a</sub> Resources) plus other costs/benefits reflected in Oregon TAM 5 6 = Actual System Retail Load Load 7 PCAMC<sub>b</sub> = Total Company Base NPC (Excluding Situs Resources) 8 adjusted for Direct Access plus other costs/benefits reflected in 9 Oregon TAM = Base System Retail Load 10 Load<sub>b</sub> 11 Load = Actual Oregon Retail Load = Actual Situs Resource Value 12  $SR_a$ 13 = Forecasted Situs Resource Value  $SR_b$ 14 The cumulative PCAM differential (under- or over-recovery) is first compared 15 against the asymmetrical deadband. Cumulative PCAM differential amounts in 16 excess of the asymmetrical deadband are then subject to the sharing band (90 percent 17 customers, 10 percent Company). Monthly balances accrue interest at PacifiCorp's 18 authorized rate of return in Oregon for 2019. The final step is to apply, if necessary, 19 the earnings test to determine if any amount is eligible for recovery from or refund to 20 customers. To the extent earnings are within plus or minus 100 basis points of the 21 authorized ROE, no recovery or refund is allowed under the approved PCAM design. 22 Q. What were total-company adjusted Actual NPC for the Deferral Period and how 23 were they determined? 24 A. The total-company adjusted Actual NPC in the Deferral Period were approximately 25 \$1.656 billion. This amount captures all components of NPC as modeled by 26 PacifiCorp's Generation and Regulation Initiative Decision Tool (GRID) model in the 27 Company's annual TAM filings. Specifically, it includes amounts booked to the 28 following Federal Energy Regulatory Commission accounts:

1		Account 44 / – Sales for resale, excluding on-system wholesale sales and other
2		revenues that are not modeled in GRID
3		Account 501 - Fuel, steam generation; excluding fuel handling, start-up fuel
4		(gas and diesel fuel, residual disposal) and other costs that are
5		not modeled in GRID
6		Account 503 – Steam from other sources
7		Account 547 – Fuel, other generation
8		Account 555 – Purchased power, excluding the Bonneville Power
9		Administration residential exchange credit pass-through if
10		applicable
11		Account 565 – Transmission of electricity by others.
12	Q.	What adjustments are made to Actual NPC and why are they needed?
13	A.	PacifiCorp adjusts Actual NPC to reflect the ratemaking treatment of several items,
14		including:
15		• out of period accounting entries booked in the Deferral Period that relate
16		to operations before implementation of the PCAM on January 1, 2013;
17		• buy-through of economic curtailment by interruptible industrial
18		customers;
19		• revenue from a contract related to the Leaning Juniper wind resource;
20		• situs assignment of the generation from Oregon solar resources procured
21		to satisfy Oregon Revised Statute 757.370 solar capacity standard;
22		• situs assignment of Oregon allocated excess amortization related to a
23		prepaid wheeling expense;

1		• situs assignment of certain Utah resources;
2		<ul> <li>avian curtailment at specific wind farms;</li> </ul>
3		• the exclusion of Rolling Hills wind farm from Oregon rates (consistent
4		with docket UE 200);
5		<ul> <li>coal inventory adjustments to reflect coal costs in the correct period;</li> </ul>
6		• reductions to coal costs for management overtime, 50 percent of
7		management incentive compensation, and legal fees related to fines and
8		citations; and,
9		adjustments related to liquidated damages that occurred outside the
10		Deferral Period (all liquidated damage fees per a coal supply agreement
11		are booked in accordance with generally accepted accounting principles).
12	Q.	Please summarize the calculation of the Actual Non-NPC EIM Costs.
13	A.	Non-NPC EIM costs are trued-up as part of the PCAM costs. These EIM costs
14		include ongoing operations and maintenance expense and depreciation expense; the
15		return on rate base is not included in the true-up per the 2016 PCAM Order. <sup>3</sup> Actual
16		non-NPC EIM costs were \$1.3 million lower than the EIM costs included in the
17		2019 TAM on a total-company basis. As described in more detail later on in my
18		testimony, the EIM provides benefits to customers in the form of reduced Actual
19		NPC.
20	Q.	Please summarize the calculation of Other Revenues.
21	A.	Other Revenues, or Oregon Schedule 205, that are forecasted in the TAM are also
22		included in the PCAM. On a total-company basis, actual Other Revenues were

<sup>&</sup>lt;sup>3</sup> Order No. 17-524.

1 \$1.9 million lower than Other Revenues in the 2019 TAM. 2 0. Please summarize the Direct Access load included in the PCAM. 3 Each year Base NPC is set in the TAM. After Base NPC is determined certain A. 4 customers have the option to move to Direct Access (DA) and purchase energy from 5 an Electricity Service Provider. In the PCAM, Base NPC is adjusted for the lost DA 6 load. 7 O. Please summarize the PTCs included in the PCAM. 8 PTCs forecasted in the TAM are also included in the PCAM. In the 2019 TAM, PTC A. 9 benefits were calculated using PacifiCorp's combined federal and state income tax 10 rate that was effective in 2018. On a total-company basis, actual PTCs were 11 \$1.3 million lower than PTCs in the 2019 TAM due to generation variances. 12 0. Please describe the true-up of certain Oregon situs resources included in the 13 PCAM. 14 A. The PCAM includes a true-up of the value of energy from solar facilities procured to 15 satisfy the solar capacity standard in Oregon Revised Statute 757.370. Consistent 16 with the Commission-approved 2017 Inter-Jurisdictional Allocation Protocol, these 17 resources are situs-assigned to Oregon. Base NPC established in the TAM includes a 18 situs credit for the market value of the solar energy. In the PCAM, the actual market 19 value of the solar energy is compared to the prior forecast, and the difference is 20 included in the balancing account. This treatment is necessary to ensure 100 percent

of the energy benefits are assigned to Oregon customers, rather than allocated system-

wide.

21

22

1		The PCAM also includes a true-up for the amortization of a prepaid wheeling
2		expense. The amortization of Mead-Phoenix wheeling expense was updated to reflect
3		the Cholla Unit 4 Oregon depreciation schedule. Therefore, the incremental increase
4		in amortization expense associated with Mead-Phoenix is situs-assigned to Oregon.
5	Q.	Is PacifiCorp requesting a rate change with this filing?
6	A.	As described earlier, on an Oregon-allocated basis, actual PCAM costs were
7		\$45.1 million higher than base PCAM costs, which is above the \$30 million
8		asymmetrical positive deadband, but the earned ROE was within 100 basis points of
9		the authorized ROE. Therefore, the 2019 PCAM does not pass the earnings test for
10		recovery. Accordingly, no recovery from or refund to customers is necessary.
11		Because Schedule 206, the Power Cost Adjustment Mechanism, is currently set at
12		zero cents per kilowatt-hour for all schedules, no tariff change is required at this time.
13		V. SUMMARY OF THE NPC DIFFERENCES
14	Q.	Please describe the Base NPC PacifiCorp used to calculate the NPC component
15		of the PCAM deferral.
16	A.	The Base NPC for the 2019 PCAM was set in Order No. 18-421 in docket UE 339.
17		Base rates became effective January 1, 2019.
18	Q.	Please describe Table 2 and the line items making up the difference between
19		Actual NPC and Base NPC.
20	A.	Table 2 displays the Base NPC approved by the Commission for the Deferral Period.
21		The remainder of Table 2 is a breakout of the difference between Actual NPC and
22		Base NPC, by cost category, on a total-company basis. The differences by category

- 1 in Table 2 result from comparing Actual NPC to the Base NPC effective during the
- 2 Deferral Period.

Table 2
Net Power Cost Reconciliation (\$millions)

(4	 ^
Base NPC	\$ 1,452
Increase/(Decrease) to NPC:	
Wholesale Sales Revenue	309
Purchased Power Expense	(54)
Coal Fuel Expense	(46)
Natural Gas Expense	(16)
Wheeling, Hydro and Other Expense	11
Total Increase/(Decrease)	203
Adjusted Actual NPC	\$ 1,656

- 3 Q. Please describe the differences between Actual NPC and Base NPC.
- A. Actual NPC were \$203 million higher than Base NPC due to a \$309 million decrease in wholesale sales revenues and an \$11 million increase in wheeling and other expenses. The reduction in wholesale sales revenue was partially offset by a \$46 million reduction in coal fuel expense, a \$16 million reduction in natural gas expense, and a \$54 million reduction in purchased power expenses.
- 9 Q. Please explain the changes in wholesale sales revenue.
- 10 A. Wholesale sales revenue declined relative to Base NPC due to a reduction in

  11 wholesale sales volume of market transactions (represented in PacifiCorp's

  12 production model (GRID) as short-term firm and system balancing sales). Revenue

  13 from market transactions was approximately \$309 million lower than Base NPC and

  14 the average price of actual market sales transactions was \$2.95/megawatt-hour

  15 (MWh), or 10 percent, higher than average price in Base NPC. Actual wholesale

1		market volumes were 10,624 gigawatt-hour (GWh), or 68 percent, lower than Base
2		NPC.
3	Q.	Please explain the changes in coal fuel expense.
4	A.	Coal fuel expense decreased because coal generation volume decreased 1,105 GWh,
5		or three percent, compared to Base NPC. The average cost of coal generation also
6		decreased from \$20.86/MWh in Base NPC to \$20.19/MWh in the Deferral Period.
7	Q.	Please explain the changes in natural gas fuel expense.
8	A.	The total natural gas fuel expense in Actual NPC decreased by \$16 million compared
9		to Base NPC mainly due to a decrease in natural gas generation volume of
10		3,169 GWh, or 21 percent lower than Base NPC during the Deferral Period.
11	Q.	Please provide an update of the Enbridge natural gas pipeline rupture and it
12		impact on Company operations and costs.
13	A.	On October 9, 2018, the Enbridge natural gas pipeline that transports natural gas
14		produced in the Western Canadian Sedimentary Basin to consumers in British
15		Columbia (B.C.) and, through interconnecting pipelines, the Northwestern United
16		States (U.S.), experienced a massive rupture. The pipeline was brought back into
17		service in late October 2018, however, at a reduced capacity until testing of the many
18		segments of the pipeline were completed. Spot natural gas prices at the Sumas B.C
19		U.S. border trading point traded as high as \$159 per million British thermal units on
20		days of intense demand due to cold weather and reduced natural gas supply in the
21		first quarter of 2019.
22		The pipeline rupture and reduced operating capacity impacted electricity
23		prices primarily at the Mid-Columbia power market hub, but also increased electricity

prices at other trading points where PacifiCorp transacts. Because of PacifiCorp's geographical and resource diversity, the impact to the Company was not as severe as other utilities and power producers that have a high reliance on Sumas natural gas supplies. PacifiCorp has one natural gas-fired generator—the Chehalis plant—that is sourced from the Sumas natural gas hub. Due to the pipeline rupture, there were times of limited availability of natural gas flowing to the Sumas gas hub and limited ability to withdraw out of storage facilities at Jackson Prairie. With the inability to run Chehalis due to limited gas availability and supplies, plus the impact of uneconomical market conditions, the result contributed to higher prices at Mid-Columbia ultimately increasing NPC.

#### VI. IMPACT OF PARTICIPATING IN THE EIM

- Q. Are the actual benefits from participating in the EIM with CAISO included in the PCAM deferral?
- A. Yes. Participation in the EIM provides benefits to customers in the form of reduced

  Actual NPC. The EIM benefits are embedded in Actual NPC through lower fuel and

  purchased power costs. The Company is able to calculate the margin realized on its

  EIM imports and exports, the inter-regional benefit. The Company's EIM inter
  regional benefit for the deferral period was approximately \$57.2 million.
  - Q. How does the Company calculate its actual EIM benefits?
- 20 A. Using actual information from the EIM, including five- and 15-minute pricing, the
  21 Company identifies the incremental resource that could have facilitated the transfer to
  22 an adjacent EIM area or the CAISO in each five-minute interval. The benefit is then
  23 calculated as the difference between the revenue received less the expense of

- generation assumed to supply the transfer. In the event of an import, the benefit is
- 2 equal to the cost of the import minus the avoided expense of the generation that
- 3 would have otherwise been dispatched.
- 4 Q. Does this conclude your direct testimony?
- 5 A. Yes.

Docket No. UE 379 Exhibit PAC/101 Witness: David G. Webb BEFORE THE PUBLIC UTILITY COMMISSION **OF OREGON PACIFICORP** Exhibit Accompanying Direct Testimony of David G. Webb 2019 PCAM Calculation May 2020

Oregon Power Cost Adjustment Mechanism January 1, 2019 - December 31, 2019 Exhibit/PAC 101 - Power Cost Adjustment Mechanism Calculation

Line No.	Reference	Jan-19		Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	-	Total
Actual:																
	(2.1)	\$ 131,	131,540,281 \$	165,154,527 \$	136,294,942 \$	107,602,901 \$	112,620,252 \$	124,164,655 \$	167,860,313 \$	177,632,068 \$	152,222,400 \$	-	124,909,292 \$	129,351,204	es T	1,656,127,508
2 Actual Allocated PTC	(4.1)	2	(3,487,444)	(2,951,365)	(1,816,786)	(2,536,684)	(1,780,817)	(1,345,285)	(916,870,1)	(1,161,531)	(2,294,136)	(609'911'6)	(5,175,044)	(1,4/4,2/1)		(36,213,490)
	(9.1)		(761.558)	(637,191)	(635,506)	(1.084.085)	(877.447)	(1.028.624)	(989, 101)	(855,439)	(930.079)	(922,779)	(640.797)	(696,289)		(10.058.895)
	Sum Lines 1 - 4	127	127,515,254	161,789,945	134,066,625	104,206,106	110,185,962	122,014,720	166,021,670	175,839,073	149,222,159	120,959,259	119,317,425	121,404,618	_	1,612,542,818
6 Actual System Retail Load	(8.1)	4	4,799,736	4,474,747	4,479,477	4,083,700	4,234,177	4,582,946	5,288,590	5,153,136	4,404,692	4,431,700	4,434,088	4,936,316		55,303,306
7 Actual PCAM Costs \$/MWH	Line 5 / Line 6	so.	26.57 \$	36.16 \$	29.93 \$	25.52 \$	26.02 \$	26.62 \$	31.39 \$	34.12 \$	33.88 \$	27.29 \$	26.91 \$	24.59	s	29.16
Base:																
8 Total Company Base NPC	(3.1)	\$ 124	124.011,813 \$	115,143,234 \$	120,747,988 \$	107.182.649 \$	113,237,311 \$	120,861,832 \$	152,621,725 \$	143,627,146 \$	112,462,222 \$	108,902,959 \$	111,519,174 \$	121,770,203	s	1,452,088,256
9 Adjustment for Direct Access	(3.3)				(090			_				(734,577)		(669,223)		(10,524,095)
	(2.2)	(3	(3.122.145)	(3.122.145)	(3.122.145)	(3.122.145)	(3,122,145)	(3.122.145)	(3,122,145)	(3,122,145)	(3.122.145)	(3.122.145)	(3.122.145)	(3,122,145)		(37,465,734)
	(3.4)		232.182	232.182	232.182	232.182	232.182	232.182	232, 182	232.182	232.182	232.182	232.182	232, 182		2.786.190
	(6.2)		(997.601)	(997 601)	(997.601)	(997 601)	(997.601)	(997.601)	(997.601)	(997 601)	(997.601)	(997.601)	(997.601)	(997.601)		(11.971.208)
13 Total PCAM Base Costs	Sum lines 8 - 12	118	118 909 103	110 129 989	115 926 365	102 706 542	109 028 305	116 286 100	147.347.124	138 404 062	107 747 561	104 280 820	106 934 020	117 213 417	-	1 394 913 409
	(8.1)	- 4	4 851 164	4 2 2 0 6 0 8	4 377 254	4 113 656	4 295 331	4 473 053	5 148 822	4 931 687	4.3.19.834	4 253 283	4378320	4.861.392	-	54 224 405
15 Base PCAM Costs \$/MWh	Line 8 / Line 14	s	24.51 \$	26.09 \$	26.48 \$	24.97 \$	25.38 \$	26.00 \$	28.62 \$	28.06 \$	24.94 \$	24.52 \$	24.42 \$	24.11	s	25.72
System PCAM Unit Cost Differential S/MWh	Line 7 - Line 15	ø	2.06 \$	10.06 \$	3.45 \$	0.55 \$	0.64 \$	0.63 \$	2.77 \$	6.06 \$	8.94	2.78 \$	2.49 \$	0.48	69	3.43
17 Oregon Retail Load	(8.1)	÷	1.205.721	1.191.205	1.128.880	958,561	966.202	993.709	1.098.239	1.142.671	979.445	1.053.953	1.102.892	1.267.185		13.088.664
<b>Deferral:</b> Monthly PCAM Differential - Above or 18 (Below) Base	Line 16 * Line 17	8	2,478,580 \$	11,986,891 \$	3,889,291 \$	527,549 \$	618,380 \$	622,671 \$	3,047,382 \$	6,922,857 \$	8,751,815 \$	2,926,172 \$	2,741,345 \$	612,170	w	45,125,103
19 Oregon Situs Resource True-Up	(7.1)		14,200	(29,408)	(71,229)	(10,465)	1,295	6,077	41,785	54,723	11,303	616	689	(2,626)		16,958
Total Monthly PCAM Differential - Above or (Below) Base	Line 18 + Line 19	2	2,492,780	11,957,482	3,818,062	517,084	619,675	628,748	3,089,167	6,977,580	8,763,118	2,926,788	2,742,035	609,544		45,142,061
21 Cumulative PCAM Differential - Above or (Below) base		2	2,492,780	14,450,262	18,268,324	18,785,408	19,405,083	20,033,831	23,122,997	30,100,577	38,863,695	41,790,483	44,532,517	45,142,061		
Positive Deadband - ABOVE Base Negative Deadband - BELOW Base	Order, 12-493 Order, 12-493	30,	30,000,000	30,000,000 (15,000,000)	30,000,000	30,000,000 (15,000,000)	30,000,000 (15,000,000)	30,000,000 (15,000,000)	30,000,000 (15,000,000)	30,000,000 (15,000,000)	30,000,000 (15,000,000)	30,000,000 (15,000,000)	30,000,000 (15,000,000)	30,000,000		30,000,000
24 Amount Deferrable - ABOVE Deadband						٠				100,577	8,763,118	2,926,788	2,742,035	609,544		15,142,061
	Line 24 + Line 25		.   .			.   .			.].	100,577	8,763,118	2,926,788	2,742,035	609,544		15,142,061
	Line 26 * 90%	s»	<b>\$</b>	φ»	s»			69	· ·	90,519 \$	\$ 908'988'2	2,634,109 \$	2,467,831 \$	548,590	s,	13,627,855
Energy Balancing Account:																
28 Monthly Interest Rate	Note 1		0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%		
	Prior Month Line 32	s	s> .	\$	\$	s>	\$	\$	\$	\$	\$ 708,08	8,003,233 \$	10,696,534 \$	13,240,133	s	, 100
20 Inclemental Deferral	Line 28 * (Line 29 + 50% x Line	eu eu								90,519	7,000,000	2,634,109	75.750	046,390		13,027,033
	30) Σ Lines 29:31	s	s	s	59	\$	\$	\$	\$	\$ 208'06	8,003,233 \$	10,696,534 \$	13,240,133 \$	13,874,551	69	13,874,551
.⊆	(9.1) UE 246															9.34%
<ul><li>35 100bp ROE Revenue Requirement</li><li>36 Allowed Deferral After Earning Test</li></ul>															s,	23,833,022
37 Total Deferred															s	

Notes: Note 1: 7.621% annual interest rate based on Oregon approved rate of retum