

March 7, 2019

VIA ELECTRONIC FILING

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

Attn: Filing Center

Re: Advice No. 18-011/UE 352—Schedule 202—PacifiCorp’s 2019 Renewable Adjustment Clause – ERRATA FILING

PacifiCorp d/b/a Pacific Power encloses for filing the corrected testimony of Etta P. Lockey (PAC/100), Steven R. McDougal (PAC/400), and Judith M. Ridenour (PAC/500). For convenience, both a red-line and clean version of the corrected testimony are enclosed. Corrected versions of the following Exhibits are also being provided:

- Exhibit PAC/401—Annual RAC Repowering Revenue Requirement
- Exhibit PAC/402—Monthly RAC Repowering Revenue Requirement-October 2019
- Exhibit PAC/403—Monthly RAC Repowering Revenue Requirement-December 2019
- Exhibit PAC/404—Capital Structure, Property Tax, Revenue Requirement Gross-up
- Exhibit PAC/501—Renewable Adjustment Clause, Rate Spread and Rate Calculations
- Exhibit PAC/502—Proposed Tariff Schedule 202, Renewable Adjustment Clause
- Exhibit PAC/503—Estimated Effect of Proposed Price Changes
- Exhibit PAC/504—Monthly Billing Comparisons for October 1
- Exhibit PAC/505—Monthly Billing Comparisons for December 1

On December 28, 2018, PacifiCorp filed opening testimony supporting its Renewable Adjustment Clause Supply Service Adjustment (Schedule 202), of the company’s Tariff P.U.C. OR No. 36, which sets forth all rates, tolls, charges, rules, and regulations applicable to electric service in the State of Oregon. The purpose of the filing is to implement Schedule 202 rates to recover costs associated with the repowering of certain PacifiCorp wind resources as described further below and in the enclosed supporting testimony, and to make housekeeping changes to Schedule 202 to remove outdated language relating to Senate Bill 408.

An error was discovered in the calculation of the pretax cost of capital. PacifiCorp mistakenly used an 11.426 percent pretax cost of capital in its initial calculations. The cost of capital tax rate should have been 9.244 percent. The correction of this error necessitates the changes to the testimony and certain exhibits filed in this proceeding, specifically:

As corrected, the filing results in an overall increase of \$14.0 million, or 1.1 percent on a net basis, effective October 1, 2019, followed by an incremental increase of \$18.2 million, or 1.4 percent on a net basis, effective December 1, 2019. This proposed change will affect approximately 614,000 customers. A residential customer using 900 kilowatt-hours per month

Advice No. 18-011/UE 352
Public Utility Commission of Oregon
March 7, 2019
Page 2

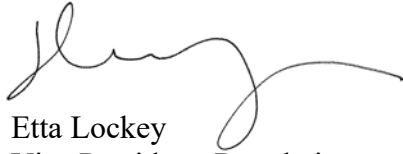
would see a monthly bill increase of \$1.03 beginning October 1, plus an additional \$1.33 beginning December 1. The total monthly bill increase for this customer from present rates is \$2.36.

Corrected workpapers for Mr. McDougal and Ms. Ridenour are being provided electronically with this filing.

Please direct informal correspondence and questions regarding this filing to Cathie Allen, Manager, Regulatory Affairs, at (503) 813-5934.

A copy of this filing has been served on all parties in dockets UE 352.

Sincerely,

A handwritten signature in black ink, appearing to read 'Etta Locky', with a long, sweeping horizontal flourish extending to the right.

Etta Locky
Vice President, Regulation

Enclosures

cc: UE 352 Service List

CERTIFICATE OF SERVICE

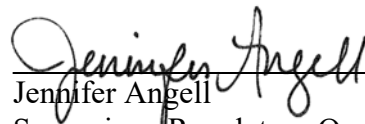
I certify that I served a true and correct copy of PacifiCorp's **Errata Filing** on the parties listed below via electronic mail in compliance with OAR 860-001-0180.

Service List UE 352

AWEC	
MYRALEIGH ALBERTO (C) DAVISON VAN CLEVE 1750 SW HARBOR WAY STE 450 PORTLAND OR 97201 maa@dvclaw.com	BRADLEY MULLINS (C) MOUNTAIN WEST ANALYTICS 1750 SW HARBOR WAY STE 450 PORTLAND OR 97201 brmullins@mwanalytics.com
TYLER C PEPPE (C) DAVISON VAN CLEVE, PC 1750 SW HARBOR WAY STE 450 PORTLAND OR 97201 tcp@dvclaw.com	
CALPINE SOLUTIONS	
GREGORY M. ADAMS RICHARDSON ADAMS, PLLC PO BOX 7218 BOISE ID 83702 greg@richardsonadams.com	GREG BASS CALPINE ENERGY SOLUTIONS, LLC 401 WEST A ST, STE 500 SAN DIEGO CA 92101 greg.bass@calpinesolutions.com
KEVIN HIGGINS ENERGY STRATEGIES LLC 215 STATE ST - STE 200 SALT LAKE CITY UT 84111-2322 khiggins@energystrat.com	
CUB	
OREGON CITIZENS' UTILITY BOARD 610 SW BROADWAY, STE 400 PORTLAND OR 97205 dockets@oregoncub.org	MICHAEL GOETZ (C) (HC) OREGON CITIZENS' UTILITY BOARD 610 SW BROADWAY STE 400 PORTLAND OR 97205 mike@oregoncub.org
ROBERT JENKS (C) (HC) OREGON CITIZENS' UTILITY BOARD 610 SW BROADWAY, STE 400 PORTLAND OR 97205 bob@oregoncub.org	

PACIFICORP	
PACIFICORP, DBA PACIFIC POWER 825 NE MULTNOMAH ST, STE 2000 PORTLAND OR 97232 oregondockets@pacificorp.com	AJAY KUMAR (C) (HC) PACIFIC POWER 825 NE MULTNOMAH STE 1800 PORTLAND OR 97232 ajay.kumar@pacificorp.com
ETTA LOCKEY (C) (HC) PACIFIC POWER 825 NE MULTNOMAH ST., STE 2000 PORTLAND OR 97232 etta.lockey@pacificorp.com	
SBUA	
JAMES BIRKELUND SMALL BUSINESS UTILITY ADVOCATES 548 MARKET ST STE 11200 SAN FRANCISCO CA 94104 james@utilityadvocates.org	DIANE HENKELS (C) CLEANTECH LAW PARTNERS PC 621 SW MORRISON ST. STE 1025 PORTLAND OR 97205 diane@utilityadvocates.org
WILLIAM STEELE (C) BILL STEELE AND ASSOCIATES, LLC PO BOX 631151 HIGHLANDS RANCH CO 80164 wa.steele@hotmail.com	
STAFF	
SOMMER MOSER (C) (HC) PUC STAFF - DEPARTMENT OF JUSTICE 1162 COURT ST NE SALEM OR 97301 sommer.moser@doj.state.or.us	STEVE STORM (C) (HC) PUBLIC UTILITY COMMISSION OF OREGON PO BOX 1088 SALEM OR 97308-1088 steve.storm@state.or.us

Dated this 7th day of March, 2019.


 Jennifer Angell
 Supervisor, Regulatory Operations

ERRATA
Docket No. UE 352
Exhibit PAC/100
Witness: Etta P. Lockey

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Direct Testimony of Etta P. Lockey

March 2019

1 **Q. Is PacifiCorp proposing to include all of these repowered wind resources in the**
2 **RAC at this time?**

3 A. No. PacifiCorp is seeking prudence review and rate recovery through the RAC for all
4 of the projects listed above with the exception of the Dunlap and Glenrock III
5 projects. The Glenrock III and Dunlap projects are not expected to come online until
6 July 2020 and November 2020, respectively, and PacifiCorp will seek separate
7 prudence review and rate recovery for these projects.

8 **Q. What is the total repowering cost PacifiCorp is seeking recovery for at this time?**

9 A. As described in Mr. McDougal’s testimony the requested RAC recovery amounts are
10 ~~\$16.0~~ \$14.0 million, through rates effective October 1, 2019, and an additional
11 ~~\$20.8~~ \$18.2 million, through rates effective December 1, 2019.

CUSTOMER BENEFITS

13 **Q. What are the customer benefits resulting from wind repowering?**

14 A. The customer benefits resulting from wind repowering derive in part from the fact
15 that repowering allows PacifiCorp’s existing wind resources to requalify for federal
16 PTCs—the benefits of which the company has already started passing back to Oregon
17 customers through decreased net power costs since January 1, 2019. As noted above,
18 the total revenue requirement related to the cost of repowering, excluding Glenrock
19 III and Dunlap, is ~~\$32.26.8~~ million. As described in the testimony of Mr. Link, the
20 customer benefits, however, exceed the cost, meaning wind repowering will save
21 customers money.

22 Wind repowering creates these benefits by:

- 23 • Increasing zero-fuel-cost energy production from wind facilities between
24 21 to 39 percent because of longer blades and higher capacity generators;

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2 **RAC at this time?**

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19 III and Dunlap, is \$32.2 million. As described in the testimony of Mr. Link, the
20 customer benefits, however, exceed the cost, meaning wind repowering will save
21 customers money.

22 Wind repowering creates these benefits by:

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24 21 to 39 percent because of longer blades and higher capacity generators;

ERRATA
Docket No. UE 352
Exhibit PAC/400
Witness: Steven R. McDougal

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Direct Testimony of Steven R. McDougal

March 2019

DIRECT TESTIMONY OF STEVEN R. MCDUGAL

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ATTACHED EXHIBITS

- Exhibit PAC/401—Annual RAC Repowering Revenue Requirement
- Exhibit PAC/402—Monthly RAC Repowering Revenue Requirement – October 2019
- Exhibit PAC/403—Monthly RAC Repowering Revenue Requirement – December 2019
- Exhibit PAC/404—Capital Structure, Property Tax, Revenue Requirement Gross-up

- 1 • Describes the proposed ratemaking for the repowered wind projects;
- 2 • Calculates the Oregon allocated incremental operating expenses and capital
3 revenue requirement cost associated with wind repowering;
- 4 • Specifies the amounts that the company requests to recover through the RAC
5 attributable to the revenue requirement changes associated with each of the
6 company's proposed RAC rate change effective dates; and
- 7 • Explains the proposed accounting treatment of the replaced wind plant
8 investment.

SUMMARY OF TESTIMONY

10 **Q. Please summarize your testimony.**

11 A. In this RAC filing, PacifiCorp seeks recovery of the non-transition adjustment
12 mechanism Oregon-allocated revenue requirement associated with repowering the
13 company's existing fleet of wind resources. PacifiCorp proposes to implement the
14 RAC in two stages: October 1, 2019, and December 1, 2019, to recover costs in a
15 manner that will coincide with the customer benefits from net power cost and
16 production tax credits included in the 2019 transition adjustment mechanism (TAM).
17 The requested RAC recovery amounts are \$~~16~~14.0 million, through rates effective
18 October 1, 2019, and an additional \$~~20.8~~18.2 million, through rates effective
19 December 1, 2019.

PROPOSED RATEMAKING

21 **Q. Please explain PacifiCorp's proposed ratemaking for inclusion of the repowered
22 wind projects in rates.**

23 A. PacifiCorp seeks recovery of the revenue requirement associated with the costs of the
24 repowered wind projects that are scheduled to be completed in 2019 through this
25 RAC filing. Cost benefits associated with repowering have been approved as part of

1 **Q. Does PacifiCorp have any wind repowering projects that it will not seek**
2 **recovery of through the RAC?**

3 A. Yes. The Rolling Hills wind resource is not currently included in Oregon rates;
4 therefore, PacifiCorp will not seek recovery of the Rolling Hills repowering project in
5 the RAC.

6 **Q. If wind projects are repowered before the rate effective dates of October 1, 2019**
7 **and December 1, 2019, is PacifiCorp proposing to defer the costs associated with**
8 **these early completions and amortize those changes at a future time?**

9 A. No. PacifiCorp is proposing that only the costs of completed repowering projects as
10 of the rate effective dates be considered in the RAC rate adjustments.

11 **REVENUE REQUIREMENT**

12 **Q. Have you prepared exhibits that show the calculation of the proposed RAC rate**
13 **adjustments for each of the rate effective dates, October 1, 2019, and December**
14 **1, 2019?**

15 A. Yes. Please refer to Exhibit PAC/401, which shows the annual revenue requirement
16 of the incremental capital and operating costs associated with the repowering of
17 Leaning Juniper, Seven Mile Hill I, Seven Mile Hill II, and Glenrock I for the one-
18 year period October 1, 2019 through September 30, 2020. These projects are
19 scheduled to achieve final turbine commissioning before October 1, 2019. As
20 calculated in Exhibit PAC/401, PacifiCorp is seeking an annual recovery of ~~\$16~~14.0
21 million through the RAC with a proposed effective date of October 1, 2019.

22 Exhibit PAC/401 also shows the annual revenue requirement of the
23 incremental capital and operating costs associated with the repowering of Goodnoe

1 Hills, High Plains, McFadden Ridge, Marengo I and Marengo II for the one-year
2 period December 1, 2019 through November 30, 2020. These projects are scheduled
3 to achieve final turbine commissioning before December 1, 2019. As calculated in
4 Exhibit PAC/401, PacifiCorp is seeking an annual recovery of ~~\$20.8~~18.2 million
5 through the RAC with a proposed effective date of December 1, 2019.

6 **Q. How are the revenue requirement costs allocated to Oregon?**

7 A. All costs excluding property tax are allocated using the 2019 forecast System
8 Generation factor used in the 2019 TAM filing. Property tax is allocated using the
9 Gross Plant System factor from PacifiCorp's December 2017 Results of Operations
10 filing, consistent with the calculation of the average Oregon property tax rate also
11 from the December 2017 Results of Operations filing, addressed later in my
12 testimony.

13 **Q. Please describe the revenue requirement components included in Exhibit**
14 **PAC/401.**

15 A. The plant revenue requirement consists of the incremental pre-tax rate of return on
16 average net rate base, operation and maintenance expense, depreciation, property
17 taxes, and wind tax. Net power cost and production tax credits are excluded from the
18 RAC and were instead included in the 2019 TAM filing. Through the combination of
19 the TAM and the RAC, the benefits and costs of repowering will be incorporated into
20 customer rates.

21 Net rate base is calculated using a 13-month average of gross plant less
22 accumulated depreciation and accumulated deferred income tax balances. The
23 13-month average balances are derived from the period October 1, 2019 through

1 expense, resource suppliers tax, and public utility commission fees. These costs have
2 been included in Exhibit PAC/401.

3 **REQUEST FOR RECOVERY OF REPOWERING COSTS**

4 **Q. What is the amount of rate adjustment that PacifiCorp is requesting through the**
5 **RAC?**

6 A. PacifiCorp is requesting an annualized amount of ~~\$1614.0~~ million through the RAC
7 rates proposed to be effective October 1, 2019, to recover the repowering capital and
8 operating revenue requirement concurrent with the rate reductions provided through
9 the TAM for the repowering net power cost and production tax credit benefits.

10 Additionally, PacifiCorp is requesting an annualized amount of ~~\$20.8~~18.2
11 million, in addition to the October 1, 2019 adjustment, through the RAC rates
12 proposed to be effective December 1, 2019, to recover the second tranche of revenue
13 requirement associated with the next block of repowered wind turbines. PacifiCorp
14 will update these costs consistent with the requirements of Order No. 07-572.⁴

15 **Q. Does this conclude your direct testimony?**

16 A. Yes.

⁴ *In the Matter of Public Utility Commission of Oregon Investigation of Automatic Adjustment Clause Pursuant to SB 838, Docket No. UM 1330, Order No. 07-572 at 4 (Dec. 19, 2007).*

DIRECT TESTIMONY OF STEVEN R. MCDUGAL

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ERRATA
Docket No. UE 352
Exhibit PAC/401
Witness: Steven R. McDougal

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Steven R. McDougal

Annual RAC Repowering Revenue Requirement

March 2019

**PacifiCorp
Oregon**

Renewable Adjustment Clause
Revenue Requirement

RAC Effective Date October 1, 2019

RAC Effective Date December 1, 2019

\$-Thousands

Line No. Reference

Plant Revenue Requirement

(a)	(b)	(c)	(d)
Total Company	Factor	Factor %	Oregon Allocated
358,157	SG	26.7248%	95,717
(7,503)	SG	26.7248%	(2,005)
(22,293)	SG	26.7248%	(5,958)
328,361			87,754
9.244%			9.244%
30,354			8,112
4,994	SG	26.7248%	1,335
12,342	SG	26.7248%	3,298
3,081	GPS	27.1069%	835
160	SG	26.7248%	43
50,931			13,623

Rev. Req. Before Revenue Gross-up

12	Franchise Taxes	PAC/404, line 17	329
13	Bad Debt Expense	PAC/404, line 18	67
14	Resource Supplier Tax	PAC/404, line 19	19
15	PUC Fee	PAC/404, line 20	42
16	Total Revenue Requirement	sum of lines 11-15	14,039

17	Federal/State Combined Tax Rate	PAC/404, line 5	24.587%
18	Net to Gross Bump up Factor = (1/(1-tax rate))	PAC/404, line 6	1.3260
19	Pretax Return	PAC/404, line 4	9.244%
20	Property Tax Rate	PAC/404, line 14	0.87%

21	Oregon SG Factor	PAC/404, line 15	26.7248%
22	Oregon GPS Factor	PAC/404, line 16	27.1069%

Footnotes:

- 1) Capital balances equal the 13-month average of the monthly balances in PAC/402 or PAC/403.
- 2) Equals the annual cost of the first full year subsequent to the rate effective date. See PAC/402 or PAC/403
- 3) Equals the 12 consecutive months beginning with the rate effective date. See PAC/402 or PAC/403.
- 4) As stated in testimony, actual depreciation expense will be adjusted by the impact of the retired assets until the next depreciation study.

(e)	(f)	(g)	(h)
Total Company	Factor	Factor %	Oregon Allocated
469,155	SG	26.7248%	125,381
(9,702)	SG	26.7248%	(2,593)
(34,474)	SG	26.7248%	(9,213)
424,979			113,575
9.244%			9.244%
39,285			10,499
6,481	SG	26.7248%	1,732
16,132	SG	26.7248%	4,311
4,058	GPS	27.1069%	1,100
100	SG	26.7248%	27
66,056			17,669

427
87
24
55
18,208

ERRATA
Docket No. UE 352
Exhibit PAC/402
Witness: Steven R. McDougal

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Steven R. McDougal
Monthly RAC Repowering Revenue Requirement – October 2019

March 2019

**PacifiCorp
Oregon**
Wind Repowering - Monthly RAC RevRept - Oct 2019
Leaning Juniper, Seven Mile Hill I, Seven Mile Hill II, and Glenrock I

Line No.	\$-Thousands	Reference	2019 January	2019 February	2019 March	2019 April	2019 May	2019 June	2019 July	2019 August	2019 September	2019 October	2019 November	2019 December
Total Company														
Plant Revenue Requirement														
1	Capital Investment		-	-	-	-	-	-	-	-	358,060	358,060	358,060	358,060
2	Depreciation Reserve		-	-	-	-	-	-	-	-	(1,333)	(2,361)	(3,390)	(4,418)
3	Accumulated DIT Balance		-	-	-	-	-	-	-	-	(13,203)	(13,203)	(13,203)	(17,604)
4	Net Rate Base	sum of lines 1-3	-	-	-	-	-	-	-	-	343,524	342,496	341,467	336,038
5	Operation & Maintenance		-	-	-	-	-	-	-	-	-	416	416	416
6	Depreciation	Footnote 1	-	-	-	-	-	-	-	-	-	1,028	1,028	1,028
7	Property Taxes	Prior December (line 1 + line 2) x line 9	-	-	-	-	-	-	-	-	-	-	-	-
8	Wind Tax		-	-	-	-	-	-	-	-	-	13	13	13
9	Property Tax Rate	PAC/404, line 14	0.87%											

Footnotes:

1) As stated in testimony, actual depreciation expense will be adjusted by the impact of the retired assets until the next depreciation study

**PacifiCorp
Oregon**
Wind Repowering - Monthly RAC RevRept - Oct 2019
Leaning Juniper, Seven Mile Hill I, Seven Mile Hill II, and Glenrock I

Line No.	Description	\$-Thousands											
		2020 January	2020 February	2020 March	2020 April	2020 May	2020 June	2020 July	2020 August	2020 September			
Total Company													
Plant Revenue Requirement													
1	Capital Investment	358,060	358,060	358,060	358,060	358,060	358,060	358,483	358,483	358,483	358,483	358,483	358,483
2	Depreciation Reserve	(5,446)	(6,474)	(7,502)	(8,530)	(9,559)	(10,587)	(11,616)	(12,646)	(13,675)	(14,704)	(15,733)	(16,762)
3	Accumulated DIT Balance	(17,604)	(17,604)	(23,785)	(23,785)	(23,785)	(29,966)	(29,966)	(29,966)	(29,966)	(29,966)	(29,966)	(29,966)
4	Net Rate Base	335,010	333,982	326,773	325,745	324,716	317,507	316,901	315,871	314,841	313,811	312,781	311,751
5	Operation & Maintenance	416	416	416	416	416	416	416	416	416	416	416	416
6	Depreciation	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028
7	Property Taxes	256	256	256	256	256	256	256	256	256	256	256	256
8	Wind Tax	13	13	13	13	13	13	13	13	13	13	13	13
9	Property Tax Rate												

Footnotes:
1) As stated in testimony, actual depreciation expense will be adjusted by the impact of the retired assets until the next depreciation study

ERRATA
Docket No. UE 352
Exhibit PAC/403
Witness: Steven R. McDougal

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Steven R. McDougal
Monthly RAC Repowering Revenue Requirement – December 2019

March 2019

**PacifiCorp
Oregon**
Wind Repowering - Monthly RAC RevRest - Dec 2019
Goodnoe Hills, High Plains, McFadden Ridge, Marengo I and Marengo II

Line No.	\$-Thousands	Reference	2019 January	2019 February	2019 March	2019 April	2019 May	2019 June	2019 July	2019 August	2019 September	2019 October	2019 November	2019 December
Total Company														
Plant Revenue Requirement														
1	Capital Investment		-	-	-	-	-	-	-	-	-	-	468,772	468,772
2	Depreciation Reserve		-	-	-	-	-	-	-	-	-	-	(1,640)	(2,963)
3	Accumulated DIT Balance		-	-	-	-	-	-	-	-	-	-	(17,784)	(23,712)
4	Net Rate Base	sum of lines 1-3	-	-	-	-	-	-	-	-	-	-	449,348	442,077
5	Operation & Maintenance		-	-	-	-	-	-	-	-	-	-	-	540
6	Depreciation	Footnote 1	-	-	-	-	-	-	-	-	-	-	-	1,343
7	Property Taxes	Prior December (line 1 + line 2) x line 9	-	-	-	-	-	-	-	-	-	-	-	-
8	Wind Tax		-	-	-	-	-	-	-	-	-	-	-	8
9	Property Tax Rate	PAC/404, line 14	0.87%											

Footnotes:
1) As stated in testimony, actual depreciation expense will be adjusted by the impact of the retired assets until the next depreciation study

**PacifiCorp
Oregon**
Wind Repowering - Monthly RAC RevRest - Dec 2019
Goodnoe Hills, High Plains, McFadden Ridge, Marengo I and Marengo II

Line No.	Description	2020											
		January	February	March	April	May	June	July	August	September	October	November	
Total Company		468,772	468,772	468,772	468,772	468,772	468,772	468,768	469,768	469,768	469,768	469,768	469,768
1	Capital Investment	(4,326)	(5,669)	(7,012)	(8,356)	(9,699)	(11,042)	(12,386)	(13,734)	(15,080)	(16,426)	(17,772)	(17,772)
2	Depreciation Reserve	(23,712)	(23,712)	(31,814)	(31,814)	(31,814)	(39,915)	(39,915)	(39,915)	(48,017)	(48,017)	(48,017)	(48,017)
3	Accumulated DIT Balance	440,734	439,391	429,946	428,603	427,260	417,815	417,465	416,119	406,671	405,325	403,979	403,979
4	Net Rate Base	440,734	439,391	429,946	428,603	427,260	417,815	417,465	416,119	406,671	405,325	403,979	403,979
5	Operation & Maintenance	540	540	540	540	540	540	540	540	540	540	540	540
6	Depreciation	1,343	1,343	1,343	1,343	1,343	1,343	1,346	1,346	1,346	1,346	1,346	1,346
7	Property Taxes	338	338	338	338	338	338	338	338	338	338	338	338
8	Wind Tax	8	8	8	8	8	8	8	8	8	8	8	8
9	Property Tax Rate												

Footnotes:
1) As stated in testimony, actual depreciation expense will be adjusted by the impact of the retired assets until the next depreciation study

ERRATA
Docket No. UE 352
Exhibit PAC/404
Witness: Steven R. McDougal

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Steven R. McDougal
Capital Structure, Property Tax, Revenue Requirement Gross-up

March 2019

**PacifiCorp
Oregon**
Wind Repowering - Capital Structure, Property Tax, and Rev Reqtd Gross-up

**Results of Operations Oregon Period Ended December 2017
Updated with new consolidated tax rate consistent with the new tax law
Effective 12/31/2017**

Line no.	Capital Structure	Capital Structure	Capital Cost	Weighted Cost	Tax Gross-up	Pre-Tax Cost
1	Debt	48.490%	5,261%	2.551%		2,551%
2	Preferred	0.020%	6.753%	0.001%	1,326	0.002%
3	Common	51.490%	9.800%	5.046%	1,326	6.691%
4			TOTAL	7.598%		9.244%
5	Consolidated Tax Rate		24.587%			
6	Tax Gross-up factor for PTC = (1/(1 - tax rate))		1.3260			

Property Tax Calculation as filed in Results of Operations Oregon Period Ended December 2017

7	Total Company					145,325,972
8	Oregon GPS Factor ²					27,1069%
9	Oregon Property Taxes					39,393,317
10	Oregon Gross EPIS					7,343,325,727
11	Oregon Accum. Depr.					(2,661,498,413)
12	Oregon Accum. Amort.					(159,988,390)
13	Oregon Net EPIS					4,521,838,924
14	Estimated Oregon Property Tax Rate					0.871%
15	Forecast 2019 SG Factor ¹					26.7248%
16	Results of Operations Oregon 2017 GPS Factor ²					27.1069%

Line no.	Franchise Tax and Bad Debt Percentage ³	Percentage of Revenue	w/ Tax Gross-up
17	Franchise Tax	2.340%	2.419%
18	Bad Debt Percentage	0.477%	0.493%
19	Resource Suppliers Tax	0.134%	0.139%
20	PUC Fee	0.300%	0.310%

Footnotes:

- 1 SG Factor from 2019 TAM filing
- 2 Results of Operations, December 2017, Page 9.2
- 3 Results of Operations, December 2017, Page 4.6.1

ERRATA

Docket No. UE 352

Exhibit PAC/500

Witness: Judith M. Ridenour

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Direct Testimony of Judith M. Ridenour

March 2019

1 **Q. Please state your name, business address, and present position with PacifiCorp.**

2 A. My name is Judith M. Ridenour. My business address is 825 NE Multnomah Street,
3 Suite 2000, Portland, Oregon 97232. My current position is Specialist, Pricing and
4 Cost of Service, in the regulation department.

5 **QUALIFICATIONS**

6 **Q. Briefly describe your education and professional experience.**

7 A. I have a Bachelor of Arts degree in Mathematics from Reed College. I joined the
8 company in the regulation department in October 2000. I assumed my present
9 responsibilities in May 2001. In my current position, I am responsible for the
10 preparation of rate design used in retail price filings and related analyses. Since 2001,
11 with levels of increasing responsibility, I have analyzed and implemented rate design
12 proposals throughout the company's six-state service territory.

13 **PURPOSE OF TESTIMONY**

14 **Q. What is the purpose of your testimony in this proceeding?**

15 A. I present the company's proposed Renewable Adjustment Clause (RAC) prices and
16 proposed tariff changes. I also provide a summary of the impact of the proposed rate
17 changes on customers' bills.

18 **SUMMARY OF TESTIMONY**

19 **Q. Please summarize your testimony.**

20 A. I show that the proposed RAC results in an overall rate increase of \$146.0 million or
21 1.21 percent on October 1, 2019, followed by an incremental increase of \$18.220.8
22 million or 1.46 percent on December 1, 2019. The rate impact varies by customer
23 class with rate spread based on present generation revenues. The total bill increase

1 for the average residential customer resulting from both RAC rate changes is \$2.~~3669~~
2 per month.

3 **RATES AND TARIFF**

4 **Q. Please describe the company's tariff rate schedule that collects the RAC**
5 **adjustment from customers.**

6 A. The company's Schedule 202, Renewable Adjustment Clause describes the RAC and
7 contains the per kilowatt-hour adjustments applied to customers' bills. The current
8 tariff rates were set to zero in 2010 when the amounts previously collected through
9 the rate schedule were incorporated into base rates as part of the company's general
10 rate case, docket UE 210.

11 **Q. What is the total repowering revenue requirement PacifiCorp is seeking**
12 **recovery for at this time?**

13 A. As described in the testimony of Mr. Steven R. McDougal, the requested RAC
14 recovery amounts are \$~~146.0~~ million, through rates effective October 1, 2019, and an
15 additional \$~~18.220.8~~ million, through rates effective December 1, 2019.

16 **Q. What basis is used for the RAC rate spread?**

17 A. The special conditions in Schedule 202 provide that "Costs recovered through the rate
18 schedule will be allocated across customer classes using the applicable forecasted
19 energy on the basis of an equal percent of generation revenue applied on a cents per
20 kilowatt-hour to each applicable rate schedule."¹

¹ PacifiCorp rate schedule 202, Renewable Adjustment Clause, Supply Service Adjustment page 2, special condition 3.

1 approves it. This will accommodate the timeline requested in this application without
2 modifying the existing language for future RAC filings.

3 Second, PacifiCorp proposes a housekeeping edit to remove from the Purpose
4 section outdated language referencing OAR 860-022-0041. This housekeeping edit is
5 appropriate because the OAR was repealed following the enactment of Senate Bill
6 967 in 2011 in the rulemaking docketed as AR 553.

7 **Q. What rates are reflected in the tariff in Exhibit PAC/502?**

8 A. The proposed tariff in Exhibit PAC/502 includes the proposed rates for October 1.

9 For rates effective December 1, 2019 the company proposes to file a
10 compliance filing updating Schedule 202 with the total December 1 rates shown in
11 Exhibit PAC/501. The compliance filing would be made on or before November 1,
12 2019.

13 **COMPARISON OF PRESENT AND PROPOSED RATES**

14 **Q. What are the overall rate effects of the changes proposed in this filing?**

15 A. The overall effect of the proposed rates is a rate increase of 1.~~12~~ percent, on a net
16 basis, effective October 1, 2019 followed by an incremental increase of 1.~~46~~ percent,
17 on a net basis, effective December 1, 2019. The rate change varies by customer type.
18 Exhibit PAC/503 shows the effect of PacifiCorp's proposed prices by delivery service
19 schedule both excluding (base) and including (net) applicable adjustment schedules.
20 Page 1 of the exhibit shows the proposed October 1 rate change. Page 2 of the exhibit
21 shows the proposed incremental December 1 rate change. On both tables, the net
22 rates in Columns 7 and 10 exclude effects of the Low Income Bill Payment
23 Assistance Charge (Schedule 91), the Adjustment Associated with the Pacific

1 Northwest Electric Power Planning and Conservation Act (Schedule 98), the Klamath
2 Dam Removal Surcharges (Schedule 199), the Public Purpose Charge (Schedule
3 290), and the Energy Conservation Charge (Schedule 297).

4 **Q. Did you prepare exhibits showing the impact on customer bills as a result of the**
5 **proposed rate changes?**

6 A. Yes. Exhibit PAC/504 contains monthly billing comparisons for the October 1 rate
7 change for customers at different usage levels served on each of the major delivery
8 service schedules. Exhibit PAC/505 contains monthly billing comparisons showing
9 the incremental rate impact of the December 1 rate change. Each comparison shows
10 the customer bill before and after the proposed change and shows the change as a
11 percentage. These bill comparisons include the effects of all adjustments schedules
12 including the Low Income Bill Payment Assistance Charge (Schedule 91), the
13 Adjustment Associated with the Pacific Northwest Electric Power Planning and
14 Conservation Act (Schedule 98), the Klamath Dam Removal Surcharges (Schedule
15 199), the Public Purpose Charge (Schedule 290), and the Energy Conservation
16 Charge (Schedule 297).

17 **Q. What is the estimated monthly impact to an average residential customer?**

18 A. The estimated monthly impact to the average residential customer using 900 kilowatt-
19 hours per month is \$1.~~0318~~ beginning October 1 plus an additional \$1.~~3351~~
20 beginning December 1. The total monthly bill increase for this customer from present
21 rates is \$2.~~3669~~.

22 **Q. Does this conclude your direct testimony?**

23 A. Yes.

1 **Q. Please state your name, business address, and present position with PacifiCorp.**

2 A. My name is Judith M. Ridenour. My business address is 825 NE Multnomah Street,
3 Suite 2000, Portland, Oregon 97232. My current position is Specialist, Pricing and
4 Cost of Service, in the regulation department.

5 **QUALIFICATIONS**

6 **Q. Briefly describe your education and professional experience.**

7 A. I have a Bachelor of Arts degree in Mathematics from Reed College. I joined the
8 company in the regulation department in October 2000. I assumed my present
9 responsibilities in May 2001. In my current position, I am responsible for the
10 preparation of rate design used in retail price filings and related analyses. Since 2001,
11 with levels of increasing responsibility, I have analyzed and implemented rate design
12 proposals throughout the company's six-state service territory.

13 **PURPOSE OF TESTIMONY**

14 **Q. What is the purpose of your testimony in this proceeding?**

15 A. I present the company's proposed Renewable Adjustment Clause (RAC) prices and
16 proposed tariff changes. I also provide a summary of the impact of the proposed rate
17 changes on customers' bills.

18 **SUMMARY OF TESTIMONY**

19 **Q. Please summarize your testimony.**

20 A. I show that the proposed RAC results in an overall rate increase of \$14.0 million or
21 1.1 percent on October 1, 2019, followed by an incremental increase of \$18.2 million
22 or 1.4 percent on December 1, 2019. The rate impact varies by customer class with
23 rate spread based on present generation revenues. The total bill increase for the

1 average residential customer resulting from both RAC rate changes is \$2.36 per
2 month.

3 RATES AND TARIFF

4 **Q. Please describe the company's tariff rate schedule that collects the RAC**
5 **adjustment from customers.**

6 A. The company's Schedule 202, Renewable Adjustment Clause describes the RAC and
7 contains the per kilowatt-hour adjustments applied to customers' bills. The current
8 tariff rates were set to zero in 2010 when the amounts previously collected through
9 the rate schedule were incorporated into base rates as part of the company's general
10 rate case, docket UE 210.

11 **Q. What is the total repowering revenue requirement PacifiCorp is seeking**
12 **recovery for at this time?**

13 A. As described in the testimony of Mr. Steven R. McDougal, the requested RAC
14 recovery amounts are \$14.0 million, through rates effective October 1, 2019, and an
15 additional \$18.2 million, through rates effective December 1, 2019.

16 **Q. What basis is used for the RAC rate spread?**

17 A. The special conditions in Schedule 202 provide that "Costs recovered through the rate
18 schedule will be allocated across customer classes using the applicable forecasted
19 energy on the basis of an equal percent of generation revenue applied on a cents per
20 kilowatt-hour to each applicable rate schedule."¹

¹ PacifiCorp rate schedule 202, Renewable Adjustment Clause, Supply Service Adjustment page 2, special condition 3.

1 approves it. This will accommodate the timeline requested in this application without
2 modifying the existing language for future RAC filings.

3 Second, PacifiCorp proposes a housekeeping edit to remove from the Purpose
4 section outdated language referencing OAR 860-022-0041. This housekeeping edit is
5 appropriate because the OAR was repealed following the enactment of Senate Bill
6 967 in 2011 in the rulemaking docketed as AR 553.

7 **Q. What rates are reflected in the tariff in Exhibit PAC/502?**

8 A. The proposed tariff in Exhibit PAC/502 includes the proposed rates for October 1.

9 For rates effective December 1, 2019 the company proposes to file a
10 compliance filing updating Schedule 202 with the total December 1 rates shown in
11 Exhibit PAC/501. The compliance filing would be made on or before November 1,
12 2019.

13 **COMPARISON OF PRESENT AND PROPOSED RATES**

14 **Q. What are the overall rate effects of the changes proposed in this filing?**

15 A. The overall effect of the proposed rates is a rate increase of 1.1 percent, on a net
16 basis, effective October 1, 2019 followed by an incremental increase of 1.4 percent,
17 on a net basis, effective December 1, 2019. The rate change varies by customer type.
18 Exhibit PAC/503 shows the effect of PacifiCorp's proposed prices by delivery service
19 schedule both excluding (base) and including (net) applicable adjustment schedules.
20 Page 1 of the exhibit shows the proposed October 1 rate change. Page 2 of the exhibit
21 shows the proposed incremental December 1 rate change. On both tables, the net
22 rates in Columns 7 and 10 exclude effects of the Low Income Bill Payment
23 Assistance Charge (Schedule 91), the Adjustment Associated with the Pacific

1 Northwest Electric Power Planning and Conservation Act (Schedule 98), the Klamath
2 Dam Removal Surcharges (Schedule 199), the Public Purpose Charge (Schedule
3 290), and the Energy Conservation Charge (Schedule 297).

4 **Q. Did you prepare exhibits showing the impact on customer bills as a result of the**
5 **proposed rate changes?**

6 A. Yes. Exhibit PAC/504 contains monthly billing comparisons for the October 1 rate
7 change for customers at different usage levels served on each of the major delivery
8 service schedules. Exhibit PAC/505 contains monthly billing comparisons showing
9 the incremental rate impact of the December 1 rate change. Each comparison shows
10 the customer bill before and after the proposed change and shows the change as a
11 percentage. These bill comparisons include the effects of all adjustments schedules
12 including the Low Income Bill Payment Assistance Charge (Schedule 91), the
13 Adjustment Associated with the Pacific Northwest Electric Power Planning and
14 Conservation Act (Schedule 98), the Klamath Dam Removal Surcharges (Schedule
15 199), the Public Purpose Charge (Schedule 290), and the Energy Conservation
16 Charge (Schedule 297).

17 **Q. What is the estimated monthly impact to an average residential customer?**

18 A. The estimated monthly impact to the average residential customer using 900 kilowatt-
19 hours per month is \$1.03 beginning October 1 plus an additional \$1.33 beginning
20 December 1. The total monthly bill increase for this customer from present rates is
21 \$2.36.

22 **Q. Does this conclude your direct testimony?**

23 A. Yes.

ERRATA

Docket No. UE 352

Exhibit PAC/501

Witness: Judith M. Ridenour

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Judith M. Ridenour
Renewable Adjustment Clause, Rate Spread and Rate Calculation

March 2019

**PACIFIC POWER
STATE OF OREGON
RENEWABLE ADJUSTMENT CLAUSE - RATE SPREAD AND RATE CALCULATION
FORECAST 12 MONTHS ENDING DECEMBER 31, 2019**

Line No.	Description	Sch No.	No. of Cust	MWh	Present Generation Rate Spread*	Proposed Schedule 202			Total Dec 1 Rates e/kWh	
						October 1 Rates		December 1 Alder		
						Rates e/kWh	Revenues \$	Rates e/kWh		Revenues \$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
Residential										
1	Residential	4	506,345	5,401,764	42.6654%	0.111	\$5,995,958	0.143	\$7,724,523	0.254
2	Total Residential		506,345	5,401,764			\$5,995,958		\$7,724,523	
Commercial & Industrial										
3	Gen. Svc. < 31 kW	23	80,663	1,139,223	8.6008%	0.106	\$1,207,576	0.137	\$1,560,736	0.243
4	Gen. Svc. 31 - 200 kW	28	10,452	1,972,036	15.2694%	0.108	\$2,129,799	0.141	\$2,780,371	0.249
5	Gen. Svc. 201 - 999 kW	30	866	1,328,571	9.8180%	0.103	\$1,368,428	0.134	\$1,780,285	0.237
6	Large General Service >= 1,000 kW	48	195	3,221,037	21.6635%	0.094	\$3,027,775	0.122	\$3,929,665	0.216
7	Partial Req. Svc. >= 1,000 kW	47	6	49,859		0.094	\$46,867	0.122	\$60,828	0.216
8	Agricultural Pumping Service		7,982	222,624	1.7016%	0.107	\$238,208	0.139	\$309,447	0.246
9	Total Commercial & Industrial		100,164	7,933,350			\$8,018,653		\$10,421,532	
Lighting										
10	Outdoor Area Lighting Service	15	6,305	9,058	0.0544%	0.084	\$7,609	0.109	\$9,873	0.193
11	Street Lighting Service	50	225	7,713	0.0382%	0.069	\$5,322	0.090	\$6,942	0.159
12	Street Lighting Service HPS	51	815	19,940	0.1557%	0.109	\$21,735	0.142	\$28,315	0.251
13	Street Lighting Service	52	35	404	0.0024%	0.084	\$339	0.109	\$440	0.193
14	Street Lighting Service	53	273	9,678	0.0247%	0.036	\$3,484	0.046	\$4,452	0.082
15	Recreational Field Lighting	54	104	1,345	0.0059%	0.062	\$834	0.080	\$1,076	0.142
16	Total Public Street Lighting		7,757	48,138			\$39,323		\$51,098	
17	Employee Discount			16,976			(\$4,711)		(\$6,069)	
18	Total		614,266	13,383,252			\$14,049,223		\$18,191,084	

*From UE.339

ERRATA

Docket No. UE 352

Exhibit PAC/502

Witness: Judith M. Ridenour

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Judith M. Ridenour

Proposed Tariff Schedule 202, Renewable Adjustment Clause

March 2019



RENEWABLE ADJUSTMENT CLAUSE
SUPPLY SERVICE ADJUSTMENT

Purpose

This schedule recovers, between rate cases, the costs to construct or otherwise acquire facilities that generate electricity from renewable energy sources and for associated electricity transmission.

This adjustment is to recover the actual and forecasted revenue requirement associated with the prudently incurred costs of resources, including associated transmission, that are eligible under Senate Bill 838 (2007) and in service as of the date of the proposed rate change. The revenue requirement includes the actual return of and grossed up return on capital costs of the renewable energy source and associated transmission at the currently authorized rate of return, forecasted operation and maintenance costs, forecasted property taxes, forecasted energy tax credits, and other forecasted costs not captured in the Transition Adjustment Mechanism (TAM). The revenue requirement for Oregon will be calculated using the forecasted inter-jurisdictional allocation factors based on the same 12-month period used in the TAM.

(D)

Applicable

To all Residential consumers and Nonresidential consumers.

(C)

Energy Charge

The adjustment rate is listed below by Delivery Service Schedule.

<u>Schedule</u>	<u>Charge</u>
4	0.111 cents per kWh
5	0.111 cents per kWh
15	0.084 cents per kWh
23, 723	0.106 cents per kWh
28, 728	0.108 cents per kWh
30, 730	0.103 cents per kWh
41, 741	0.107 cents per kWh
47, 747	0.094 cents per kWh
48, 748	0.094 cents per kWh
50	0.069 cents per kWh
51, 751	0.109 cents per kWh
52, 752	0.084 cents per kWh
53, 753	0.036 cents per kWh
54, 754	0.062 cents per kWh

(I)

(I)

(continued)

ERRATA

Docket No. UE 352

Exhibit PAC/503

Witness: Judith M. Ridenour

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Judith M. Ridenour

Estimated Effect of Proposed Price Changes

March 2019

RAC - October 1, 2019

PACIFIC POWER
ESTIMATED EFFECT OF PROPOSED PRICE CHANGE
ON REVENUES FROM ELECTRIC SALES TO ULTIMATE CONSUMERS
DISTRIBUTED BY RATE SCHEDULES IN OREGON
FORECAST 12 MONTHS ENDING DECEMBER 31, 2019

Line No.	Description	Sch No.	No. of Cust	MWh	Present Revenues (\$000)			Proposed Revenues (\$000)			Change			Line No.
					Base Rates	Adders ¹	Net Rates	Base Rates	Adders ¹	Net Rates	Base Rates	% ²	Net Rates	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
							(5) + (6)			(8) + (9)	(8) - (5)	(11)/(5)	(10) - (7)	(13)/(7)
Residential														
1	Residential	4	506,345	5,401,764	\$622,951	\$5,618	\$628,569	\$628,947	\$5,618	\$634,565	\$5,996	1.0%	\$5,996	1.0%
2	Total Residential		506,345	5,401,764	\$622,951	\$5,618	\$628,569	\$628,947	\$5,618	\$634,565	\$5,996	1.0%	\$5,996	1.0%
Commercial & Industrial														
3	Gen. Svc. < 31 kW	23	80,663	1,139,223	\$126,459	\$5,228	\$131,687	\$127,666	\$5,228	\$132,894	\$1,207	1.0%	\$1,207	0.9%
4	Gen. Svc. 31 - 200 kW	28	10,452	1,972,036	\$181,356	\$3,235	\$184,591	\$183,485	\$3,235	\$186,720	\$2,129	1.2%	\$2,129	1.2%
5	Gen. Svc. 201 - 999 kW	30	866	1,328,571	\$108,386	\$1,196	\$109,582	\$109,755	\$1,196	\$110,951	\$1,369	1.3%	\$1,369	1.3%
6	Large General Service >= 1,000 kW	48	195	3,221,037	\$226,762	(\$9,688)	\$217,074	\$229,791	(\$9,688)	\$220,103	\$3,029	1.3%	\$3,029	1.4%
7	Partial Req. Svc. >= 1,000 kW	47	6	49,859	\$5,615	(\$154)	\$5,461	\$5,661	(\$154)	\$5,507	\$46	1.3%	\$46	1.4%
8	Agricultural Pumping Service	41	7,982	222,624	\$25,966	(\$1,230)	\$24,736	\$26,204	(\$1,230)	\$24,974	\$238	0.9%	\$238	1.0%
9	Total Commercial & Industrial		100,164	7,933,350	\$674,544	(\$1,413)	\$673,131	\$682,562	(\$1,413)	\$681,149	\$8,018	1.2%	\$8,018	1.2%
Lighting														
10	Outdoor Area Lighting Service	15	6,305	9,058	\$1,167	\$216	\$1,383	\$1,175	\$216	\$1,391	\$8	0.7%	\$8	0.6%
11	Street Lighting Service	50	225	7,713	\$861	\$169	\$1,030	\$867	\$169	\$1,036	\$6	0.7%	\$6	0.6%
12	Street Lighting Service HPS	51	815	19,940	\$3,513	\$721	\$4,234	\$3,535	\$721	\$4,256	\$22	0.6%	\$22	0.5%
13	Street Lighting Service	52	35	404	\$53	\$9	\$62	\$53	\$9	\$62	\$0	0.0%	\$0	0.0%
14	Street Lighting Service	53	273	9,678	\$611	\$121	\$732	\$614	\$121	\$735	\$3	0.5%	\$3	0.4%
15	Recreational Field Lighting	54	104	1,345	\$112	\$21	\$133	\$113	\$21	\$134	\$1	0.9%	\$1	0.8%
16	Total Public Street Lighting		7,757	48,138	\$6,317	\$1,257	\$7,574	\$6,357	\$1,257	\$7,614	\$40	0.6%	\$40	0.5%
17	Total Sales before Emp. Disc. & AGA		614,266	13,383,252	\$1,303,812	\$5,462	\$1,309,274	\$1,317,866	\$5,462	\$1,323,328	\$14,054	1.1%	\$14,054	1.1%
18	Employee Discount				(\$484)	(\$3)	(\$487)	(\$489)	(\$3)	(\$492)	(\$5)		(\$5)	
19	Total Sales with Emp. Disc		614,266	13,383,252	\$1,303,328	\$5,459	\$1,308,787	\$1,317,377	\$5,459	\$1,322,836	\$14,049	1.1%	\$14,049	1.1%
20	AGA Revenue				\$2,439		\$2,439	\$2,439		\$2,439	\$0		\$0	
21	Total Sales		614,266	13,383,252	\$1,305,767	\$5,459	\$1,311,226	\$1,319,816	\$5,459	\$1,325,275	\$14,049	1.1%	\$14,049	1.1%

¹ Excludes effects of the Low Income Bill Payment Assistance Charge (Sch. 91), BPA Credit (Sch. 98), Klamath Dam Removal Surcharges (Sch. 199), Public Purpose Charge (Sch. 290) and Energy Conservation Charge (Sch. 297).

² Percentages shown for Schedules 48 and 47 reflect the combined rate change for both schedules

RAC - December 1, 2019

PACIFIC POWER
ESTIMATED EFFECT OF PROPOSED PRICE CHANGE
ON REVENUES FROM ELECTRIC SALES TO ULTIMATE CONSUMERS
DISTRIBUTED BY RATE SCHEDULES IN OREGON
FORECAST 12 MONTHS ENDING DECEMBER 31, 2019

Line No.	Description	Sch No.	No. of Cust	MWh	Present Revenues (\$000)			Proposed Revenues (\$000)			Change			Line No.
					Base Rates	Adders ¹	Net Rates	Base Rates	Adders ¹	Net Rates	Base Rates	% ²	Net Rates	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
					(5) + (6)		(5) + (6)		(8) + (9)	(10)	(8) - (5)	(11)/(5)	(10) - (7)	(13)/(7)
Residential														
1	Residential	4	506,345	5,401,764	\$628,947	\$5,618	\$634,565	\$636,671	\$5,618	\$642,289	\$7,724	1.2%	\$7,724	1.2%
2	Total Residential		506,345	5,401,764	\$628,947	\$5,618	\$634,565	\$636,671	\$5,618	\$642,289	\$7,724	1.2%	\$7,724	1.2%
Commercial & Industrial														
3	Gen. Svc. < 31 kW	23	80,663	1,139,223	\$127,666	\$5,228	\$132,894	\$129,227	\$5,228	\$134,455	\$1,561	1.2%	\$1,561	1.2%
4	Gen. Svc. 31 - 200 kW	28	10,452	1,972,036	\$183,485	\$3,235	\$186,720	\$186,267	\$3,235	\$189,502	\$2,782	1.5%	\$2,782	1.5%
5	Gen. Svc. 201 - 999 kW	30	866	1,328,571	\$109,755	\$1,196	\$110,951	\$111,535	\$1,196	\$112,731	\$1,780	1.6%	\$1,780	1.6%
6	Large General Service >= 1,000 kW	48	195	3,221,037	\$229,791	(\$9,688)	\$220,103	\$233,720	(\$9,688)	\$224,032	\$3,929	1.7%	\$3,929	1.8%
7	Partial Req. Svc. >= 1,000 kW	47	6	49,859	\$5,661	(\$154)	\$5,507	\$5,722	(\$154)	\$5,568	\$61	1.7%	\$61	1.8%
8	Agricultural Pumping Service	41	7,982	222,624	\$26,204	(\$1,230)	\$24,974	\$26,513	(\$1,230)	\$25,283	\$309	1.2%	\$309	1.2%
9	Total Commercial & Industrial		100,164	7,933,350	\$682,562	(\$1,413)	\$681,149	\$692,984	(\$1,413)	\$691,571	\$10,422	1.5%	\$10,422	1.5%
Lighting														
10	Outdoor Area Lighting Service	15	6,305	9,058	\$1,175	\$216	\$1,391	\$1,185	\$216	\$1,401	\$10	0.9%	\$10	0.7%
11	Street Lighting Service	50	225	7,713	\$867	\$169	\$1,036	\$874	\$169	\$1,043	\$7	0.8%	\$7	0.7%
12	Street Lighting Service HPS	51	815	19,940	\$3,535	\$721	\$4,256	\$3,563	\$721	\$4,284	\$28	0.8%	\$28	0.7%
13	Street Lighting Service	52	35	404	\$53	\$9	\$62	\$54	\$9	\$63	\$1	1.9%	\$1	1.6%
14	Street Lighting Service	53	273	9,678	\$614	\$121	\$735	\$619	\$121	\$740	\$5	0.8%	\$5	0.7%
15	Recreational Field Lighting	54	104	1,345	\$113	\$21	\$134	\$114	\$21	\$135	\$1	0.9%	\$1	0.8%
16	Total Public Street Lighting		7,757	48,138	\$6,357	\$1,257	\$7,614	\$6,409	\$1,257	\$7,666	\$52	0.8%	\$52	0.7%
17	Total Sales before Emp. Disc. & AGA		614,266	13,383,252	\$1,317,866	\$5,462	\$1,323,328	\$1,336,064	\$5,462	\$1,341,526	\$18,198	1.4%	\$18,198	1.4%
18	Employee Discount				(\$489)	(\$3)	(\$492)	(\$495)	(\$3)	(\$498)	(\$6)		(\$6)	
19	Total Sales with Emp. Disc		614,266	13,383,252	\$1,317,377	\$5,459	\$1,322,836	\$1,335,569	\$5,459	\$1,341,028	\$18,192	1.4%	\$18,192	1.4%
20	AGA Revenue				\$2,439		\$2,439	\$2,439		\$2,439	\$0		\$0	
21	Total Sales		614,266	13,383,252	\$1,319,816	\$5,459	\$1,325,275	\$1,338,008	\$5,459	\$1,343,467	\$18,192	1.4%	\$18,192	1.4%

¹ Excludes effects of the Low Income Bill Payment Assistance Charge (Sch. 91), BPA Credit (Sch. 98), Klamath Dam Removal Surcharges (Sch. 199), Public Purpose Charge (Sch. 290) and Energy Conservation Charge (Sch. 297).

² Percentages shown for Schedules 48 and 47 reflect the combined rate change for both schedules

ERRATA

Docket No. UE 352

Exhibit PAC/504

Witness: Judith M. Ridenour

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Judith M. Ridenour

Monthly Billing Comparisons for October 1

March 2019

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 4 + Cost-Based Supply Service
Residential Service

kWh	Monthly Billing*		Difference	Percent Difference
	Present Price	Proposed Price		
100	\$20.26	\$20.37	\$0.11	0.54%
200	\$30.02	\$30.24	\$0.22	0.73%
300	\$39.79	\$40.13	\$0.34	0.85%
400	\$49.55	\$50.01	\$0.46	0.93%
500	\$59.33	\$59.91	\$0.58	0.98%
600	\$69.11	\$69.79	\$0.68	0.98%
700	\$78.87	\$79.68	\$0.81	1.03%
800	\$88.64	\$89.56	\$0.92	1.04%
900	\$98.40	\$99.43	\$1.03	1.05%
950	\$103.31	\$104.40	\$1.09	1.06%
1,000	\$108.19	\$109.33	\$1.14	1.05%
1,100	\$121.12	\$122.37	\$1.25	1.03%
1,200	\$134.04	\$135.42	\$1.38	1.03%
1,300	\$146.98	\$148.47	\$1.49	1.01%
1,400	\$159.90	\$161.50	\$1.60	1.00%
1,500	\$172.84	\$174.56	\$1.72	1.00%
1,600	\$185.77	\$187.60	\$1.83	0.99%
2,000	\$237.49	\$239.77	\$2.28	0.96%
3,000	\$366.79	\$370.22	\$3.43	0.94%
4,000	\$496.09	\$500.66	\$4.57	0.92%
5,000	\$625.39	\$631.11	\$5.72	0.91%

* Net rate including Schedules 91, 98, 199, 290 and 297.

Note: Assumed average billing cycle length of 30.42 days.

**Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 23 + Cost-Based Supply Service
General Service - Secondary Delivery Voltage**

kW Load Size	kWh	Monthly Billing*						Percent Difference	
		Present Price		Proposed Price		Single Phase	Three Phase	Single Phase	Three Phase
		Single Phase	Three Phase	Single Phase	Three Phase				
5	500	\$72	\$81	\$73	\$82	0.76%	0.68%	0.76%	0.68%
	750	\$100	\$108	\$100	\$109	0.82%	0.76%		
	1,000	\$127	\$136	\$128	\$137	0.86%	0.81%		
	1,500	\$181	\$190	\$183	\$192	0.90%	0.86%		
10	1,000	\$127	\$136	\$128	\$137	0.86%	0.81%	0.86%	0.81%
	2,000	\$236	\$244	\$238	\$247	0.92%	0.90%		
	3,000	\$345	\$353	\$348	\$357	0.95%	0.93%		
	4,000	\$437	\$446	\$441	\$450	1.00%	0.98%		
20	4,000	\$464	\$473	\$468	\$477	0.94%	0.92%	0.94%	0.92%
	6,000	\$648	\$657	\$655	\$663	1.01%	1.00%		
	8,000	\$832	\$841	\$841	\$850	1.05%	1.04%		
	10,000	\$1,017	\$1,026	\$1,028	\$1,037	1.07%	1.06%		
30	9,000	\$978	\$987	\$988	\$997	1.00%	1.00%	1.00%	1.00%
	12,000	\$1,255	\$1,264	\$1,268	\$1,277	1.04%	1.04%		
	15,000	\$1,532	\$1,540	\$1,548	\$1,557	1.07%	1.06%		
	18,000	\$1,808	\$1,817	\$1,828	\$1,837	1.09%	1.08%		

* Net rate including Schedules 91, 199, 290 and 297.

**Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 23 + Cost-Based Supply Service
General Service - Primary Delivery Voltage**

kW Load Size	kWh	Monthly Billing*						Percent Difference	
		Present Price		Proposed Price		Single Phase	Three Phase	Single Phase	Three Phase
		Single Phase	Three Phase	Single Phase	Three Phase				
5	500	\$71	\$80	\$71	\$80	\$80	\$80	0.78%	0.68%
	750	\$97	\$106	\$98	\$107	\$107	\$107	0.84%	0.77%
	1,000	\$124	\$133	\$125	\$134	\$134	\$134	0.89%	0.82%
	1,500	\$177	\$186	\$179	\$187	\$187	\$187	0.92%	0.88%
10	1,000	\$124	\$133	\$125	\$134	\$134	\$134	0.89%	0.82%
	2,000	\$230	\$239	\$232	\$241	\$241	\$241	0.95%	0.92%
	3,000	\$336	\$345	\$339	\$348	\$348	\$348	0.98%	0.95%
	4,000	\$426	\$435	\$430	\$439	\$439	\$439	1.03%	1.01%
20	4,000	\$452	\$461	\$456	\$465	\$465	\$465	0.97%	0.95%
	6,000	\$632	\$641	\$638	\$647	\$647	\$647	1.04%	1.02%
	8,000	\$811	\$820	\$820	\$829	\$829	\$829	1.08%	1.06%
	10,000	\$991	\$1,000	\$1,002	\$1,011	\$1,011	\$1,011	1.10%	1.09%
30	9,000	\$954	\$963	\$964	\$972	\$972	\$972	1.03%	1.02%
	12,000	\$1,223	\$1,232	\$1,236	\$1,245	\$1,245	\$1,245	1.07%	1.06%
	15,000	\$1,493	\$1,501	\$1,509	\$1,518	\$1,518	\$1,518	1.10%	1.09%
	18,000	\$1,762	\$1,771	\$1,782	\$1,791	\$1,791	\$1,791	1.12%	1.11%

* Net rate including Schedules 91, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 28 + Cost-Based Supply Service
Large General Service - Secondary Delivery Voltage

kW Load Size	kWh	Monthly Billing*		Percent Difference
		Present Price	Proposed Price	
15	3,000	\$353	\$356	0.95%
	4,500	\$467	\$472	1.07%
	7,500	\$695	\$703	1.20%
31	6,200	\$709	\$716	0.97%
	9,300	\$945	\$955	1.09%
	15,500	\$1,417	\$1,434	1.22%
40	8,000	\$910	\$919	0.98%
	12,000	\$1,214	\$1,228	1.10%
	20,000	\$1,823	\$1,845	1.22%
60	12,000	\$1,357	\$1,370	0.98%
	18,000	\$1,813	\$1,833	1.10%
	30,000	\$2,709	\$2,742	1.23%
80	16,000	\$1,797	\$1,815	0.99%
	24,000	\$2,399	\$2,425	1.11%
	40,000	\$3,588	\$3,633	1.24%
100	20,000	\$2,238	\$2,260	0.99%
	30,000	\$2,981	\$3,014	1.12%
	50,000	\$4,468	\$4,523	1.24%
200	40,000	\$4,381	\$4,426	1.02%
	60,000	\$5,868	\$5,935	1.14%
	100,000	\$8,842	\$8,953	1.26%

* Net rate including Schedules 91, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 28 + Cost-Based Supply Service
Large General Service - Primary Delivery Voltage

kW Load Size	kWh	Monthly Billing*		Percent Difference
		Present Price	Proposed Price	
15	4,500	\$454	\$459	1.10%
	6,000	\$558	\$565	1.20%
	7,500	\$662	\$671	1.26%
31	9,300	\$912	\$922	1.14%
	12,400	\$1,127	\$1,141	1.22%
	15,500	\$1,342	\$1,360	1.29%
40	12,000	\$1,169	\$1,183	1.14%
	16,000	\$1,447	\$1,465	1.23%
	20,000	\$1,725	\$1,747	1.29%
60	18,000	\$1,744	\$1,764	1.15%
	24,000	\$2,154	\$2,181	1.24%
	30,000	\$2,561	\$2,594	1.30%
80	24,000	\$2,304	\$2,331	1.16%
	32,000	\$2,847	\$2,883	1.25%
	40,000	\$3,390	\$3,434	1.31%
100	30,000	\$2,862	\$2,895	1.17%
	40,000	\$3,540	\$3,584	1.26%
	50,000	\$4,218	\$4,274	1.32%
200	60,000	\$5,612	\$5,679	1.19%
	80,000	\$6,969	\$7,058	1.28%
	100,000	\$8,326	\$8,437	1.34%

* Net rate including Schedules 91, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 30 + Cost-Based Supply Service
Large General Service - Secondary Delivery Voltage

kW Load Size	kWh	Monthly Billing*		Percent Difference
		Present Price	Proposed Price	
100	20,000	\$2,666	\$2,688	0.80%
	30,000	\$3,267	\$3,299	0.97%
	50,000	\$4,469	\$4,522	1.19%
200	40,000	\$4,688	\$4,731	0.91%
	60,000	\$5,890	\$5,954	1.08%
	100,000	\$8,293	\$8,399	1.28%
300	60,000	\$6,881	\$6,944	0.93%
	90,000	\$8,683	\$8,778	1.10%
	150,000	\$12,287	\$12,447	1.30%
400	80,000	\$8,954	\$9,039	0.95%
	120,000	\$11,357	\$11,485	1.12%
	200,000	\$16,163	\$16,376	1.31%
500	100,000	\$11,059	\$11,165	0.96%
	150,000	\$14,063	\$14,222	1.13%
	250,000	\$20,070	\$20,335	1.32%
600	120,000	\$13,163	\$13,291	0.97%
	180,000	\$16,768	\$16,959	1.14%
	300,000	\$23,977	\$24,295	1.33%
800	160,000	\$17,372	\$17,542	0.98%
	240,000	\$22,178	\$22,433	1.15%
	400,000	\$31,791	\$32,215	1.33%
1000	200,000	\$21,581	\$21,794	0.98%
	300,000	\$27,589	\$27,907	1.15%
	500,000	\$39,604	\$40,135	1.34%

* Net rate including Schedules 91, 199, 290 and 297.

**Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 30 + Cost-Based Supply Service
Large General Service - Primary Delivery Voltage**

kW Load Size	kWh	Monthly Billing*		Percent Difference
		Present Price	Proposed Price	
100	30,000	\$3,204	\$3,236	0.99%
	40,000	\$3,794	\$3,836	1.12%
	50,000	\$4,383	\$4,436	1.21%
200	60,000	\$5,780	\$5,843	1.10%
	80,000	\$6,959	\$7,044	1.22%
	100,000	\$8,138	\$8,244	1.30%
300	90,000	\$8,515	\$8,610	1.12%
	120,000	\$10,283	\$10,411	1.24%
	150,000	\$12,052	\$12,211	1.32%
400	120,000	\$11,155	\$11,283	1.14%
	160,000	\$13,513	\$13,683	1.26%
	200,000	\$15,871	\$16,083	1.34%
500	150,000	\$13,808	\$13,967	1.15%
	200,000	\$16,755	\$16,967	1.27%
	250,000	\$19,702	\$19,968	1.35%
600	180,000	\$16,461	\$16,652	1.16%
	240,000	\$19,998	\$20,252	1.27%
	300,000	\$23,534	\$23,852	1.35%
800	240,000	\$21,766	\$22,021	1.17%
	320,000	\$26,482	\$26,821	1.28%
	400,000	\$31,197	\$31,622	1.36%
1000	300,000	\$27,072	\$27,390	1.18%
	400,000	\$32,966	\$33,391	1.29%
	500,000	\$38,861	\$39,391	1.37%

* Net rate including Schedules 91, 199, 290 and 297.

**Pacific Power
Billing Comparison
Delivery Service Schedule 41 + Cost-Based Supply Service
Agricultural Pumping - Secondary Delivery Voltage**

kW Load Size	kWh	Present Price*			Proposed Price*			Percent Difference		
		April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge	April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge	April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge
<u>Single Phase</u>										
10	2,000	\$193	\$222	\$155	\$196	\$224	\$155	1.14%	0.99%	0.00%
	3,000	\$290	\$319	\$155	\$293	\$322	\$155	1.14%	1.04%	0.00%
	5,000	\$483	\$512	\$155	\$489	\$517	\$155	1.14%	1.08%	0.00%
<u>Three Phase</u>										
20	4,000	\$387	\$444	\$309	\$391	\$448	\$309	1.14%	0.99%	0.00%
	6,000	\$580	\$637	\$309	\$587	\$644	\$309	1.14%	1.04%	0.00%
	10,000	\$967	\$1,024	\$309	\$978	\$1,035	\$309	1.14%	1.08%	0.00%
100	20,000	\$1,933	\$2,219	\$1,349	\$1,955	\$2,241	\$1,349	1.14%	0.99%	0.00%
	30,000	\$2,900	\$3,186	\$1,349	\$2,933	\$3,219	\$1,349	1.14%	1.04%	0.00%
	50,000	\$4,833	\$5,119	\$1,349	\$4,888	\$5,174	\$1,349	1.14%	1.08%	0.00%
300	60,000	\$5,800	\$6,657	\$3,409	\$5,866	\$6,723	\$3,409	1.14%	0.99%	0.00%
	90,000	\$8,700	\$9,557	\$3,409	\$8,799	\$9,656	\$3,409	1.14%	1.04%	0.00%
	150,000	\$14,500	\$15,357	\$3,409	\$14,665	\$15,522	\$3,409	1.14%	1.08%	0.00%

* Net rate including Schedules 91, 98, 199, 290 and 297.

**Pacific Power
Billing Comparison
Delivery Service Schedule 41 + Cost-Based Supply Service
Agricultural Pumping - Primary Delivery Voltage**

kW Load Size	kWh	Present Price*			Proposed Price*			Percent Difference		
		April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge	April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge	April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge
<u>Single Phase</u>										
10	3,000	\$281	\$308	\$155	\$284	\$312	\$155	1.18%	1.07%	0.00%
	4,000	\$374	\$402	\$155	\$379	\$406	\$155	1.18%	1.09%	0.00%
	5,000	\$468	\$496	\$155	\$474	\$501	\$155	1.18%	1.11%	0.00%
<u>Three Phase</u>										
20	6,000	\$562	\$617	\$309	\$568	\$624	\$309	1.18%	1.07%	0.00%
	8,000	\$749	\$804	\$309	\$758	\$813	\$309	1.18%	1.10%	0.00%
	10,000	\$936	\$991	\$309	\$947	\$1,002	\$309	1.18%	1.11%	0.00%
100	30,000	\$2,808	\$3,085	\$1,339	\$2,841	\$3,118	\$1,339	1.18%	1.07%	0.00%
	40,000	\$3,744	\$4,021	\$1,339	\$3,788	\$4,065	\$1,339	1.18%	1.10%	0.00%
	50,000	\$4,680	\$4,957	\$1,339	\$4,735	\$5,012	\$1,339	1.18%	1.11%	0.00%
300	90,000	\$8,424	\$9,254	\$3,399	\$8,524	\$9,354	\$3,399	1.18%	1.07%	0.00%
	120,000	\$11,233	\$12,063	\$3,399	\$11,365	\$12,195	\$3,399	1.18%	1.10%	0.00%
	150,000	\$14,041	\$14,871	\$3,399	\$14,206	\$15,036	\$3,399	1.18%	1.11%	0.00%

* Net rate including Schedules 91, 98, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 48 + Cost-Based Supply Service
Large General Service - Secondary Delivery Voltage
1,000 kW and Over

kW Load Size	kWh	Monthly Billing		Percent Difference
		Present Price	Proposed Price	
1,000	300,000	\$26,861	\$27,152	1.08%
	500,000	\$38,346	\$38,830	1.26%
	650,000	\$46,959	\$47,588	1.34%
2,000	600,000	\$53,290	\$53,871	1.09%
	1,000,000	\$74,009	\$74,977	1.31%
	1,300,000	\$90,410	\$91,669	1.39%
6,000	1,800,000	\$154,637	\$156,379	1.13%
	3,000,000	\$220,243	\$223,148	1.32%
	3,900,000	\$269,448	\$273,224	1.40%
12,000	3,600,000	\$307,949	\$311,435	1.13%
	6,000,000	\$439,162	\$444,971	1.32%
	7,800,000	\$537,572	\$545,124	1.40%

Notes:

On-Peak kWh	64.49%
Off-Peak kWh	35.51%

* Net rate including Schedules 91, 199 and 290. Schedule 297 included for kWh levels under 730,000.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 48 + Cost-Based Supply Service
Large General Service - Primary Delivery Voltage
1,000 kW and Over

kW Load Size	kWh	Monthly Billing		Percent Difference
		Present Price	Proposed Price	
1,000	300,000	\$25,410	\$25,700	1.14%
	500,000	\$36,076	\$36,560	1.34%
	650,000	\$44,076	\$44,705	1.43%
2,000	600,000	\$50,345	\$50,926	1.15%
	1,000,000	\$69,428	\$70,396	1.39%
	1,300,000	\$84,602	\$85,861	1.49%
6,000	1,800,000	\$145,401	\$147,144	1.20%
	3,000,000	\$206,099	\$209,004	1.41%
	3,900,000	\$251,623	\$255,399	1.50%
12,000	3,600,000	\$289,448	\$292,934	1.20%
	6,000,000	\$410,844	\$416,653	1.41%
	7,800,000	\$501,891	\$509,443	1.50%

Notes:

On-Peak kWh	61.36%
Off-Peak kWh	38.64%

* Net rate including Schedules 91, 199 and 290. Schedule 297 included for kWh levels under 730,000.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 48 + Cost-Based Supply Service
Large General Service - Transmission Delivery Voltage
1,000 kW and Over

kW Load Size	kWh	Monthly Billing		Percent Difference
		Present Price	Proposed Price	
1,000	500,000	\$35,770	\$36,254	1.35%
	650,000	\$43,221	\$43,850	1.46%
2,000	1,000,000	\$68,404	\$69,373	1.42%
	1,300,000	\$82,480	\$83,739	1.53%
6,000	3,000,000	\$203,204	\$206,109	1.43%
	3,900,000	\$245,431	\$249,207	1.54%
12,000	6,000,000	\$404,260	\$410,069	1.44%
	7,800,000	\$488,714	\$496,266	1.55%
50,000	25,000,000	\$1,677,614	\$1,701,819	1.44%
	32,500,000	\$2,029,508	\$2,060,975	1.55%

Notes:

On-Peak kWh 56.79%
Off-Peak kWh 43.21%

* Net rate including Schedules 91, 199 and 290. Schedule 297 included for kWh levels under 730,000.

ERRATA

Docket No. UE 352

Exhibit PAC/505

Witness: Judith M. Ridenour

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

PACIFICORP

ERRATA

Exhibit Accompanying Direct Testimony of Judith M. Ridenour

Monthly Billing Comparisons for December 1

March 2019

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 4 + Cost-Based Supply Service
Residential Service

kWh	Monthly Billing*		Difference	Percent Difference
	Present Price	Proposed Price		
100	\$20.37	\$20.51	\$0.14	0.69%
200	\$30.24	\$30.54	\$0.30	0.99%
300	\$40.13	\$40.57	\$0.44	1.10%
400	\$50.01	\$50.60	\$0.59	1.18%
500	\$59.91	\$60.64	\$0.73	1.22%
600	\$69.79	\$70.68	\$0.89	1.28%
700	\$79.68	\$80.71	\$1.03	1.29%
800	\$89.56	\$90.73	\$1.17	1.31%
900	\$99.43	\$100.76	\$1.33	1.34%
950	\$104.40	\$105.80	\$1.40	1.34%
1,000	\$109.33	\$110.80	\$1.47	1.34%
1,100	\$122.37	\$124.00	\$1.63	1.33%
1,200	\$135.42	\$137.18	\$1.76	1.30%
1,300	\$148.47	\$150.38	\$1.91	1.29%
1,400	\$161.50	\$163.56	\$2.06	1.28%
1,500	\$174.56	\$176.76	\$2.20	1.26%
1,600	\$187.60	\$189.96	\$2.36	1.26%
2,000	\$239.77	\$242.72	\$2.95	1.23%
3,000	\$370.22	\$374.64	\$4.42	1.19%
4,000	\$500.66	\$506.56	\$5.90	1.18%
5,000	\$631.11	\$638.47	\$7.36	1.17%

* Net rate including Schedules 91, 98, 199, 290 and 297.
Note: Assumed average billing cycle length of 30.42 days.

**Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 23 + Cost-Based Supply Service
General Service - Secondary Delivery Voltage**

kW Load Size	kWh	Monthly Billing*						Percent Difference	
		Present Price		Proposed Price		Single Phase	Three Phase	Single Phase	Three Phase
		Single Phase	Three Phase	Single Phase	Three Phase				
5	500	\$73	\$82	\$74	\$82			0.97%	0.86%
	750	\$100	\$109	\$101	\$110			1.06%	0.96%
	1,000	\$128	\$137	\$129	\$138			1.10%	1.03%
	1,500	\$183	\$192	\$185	\$194			1.16%	1.10%
10	1,000	\$128	\$137	\$129	\$138			1.10%	1.03%
	2,000	\$238	\$247	\$241	\$250			1.19%	1.14%
	3,000	\$348	\$357	\$352	\$361			1.22%	1.19%
	4,000	\$441	\$450	\$447	\$456			1.28%	1.25%
20	4,000	\$468	\$477	\$474	\$483			1.20%	1.18%
	6,000	\$655	\$663	\$663	\$672			1.29%	1.28%
	8,000	\$841	\$850	\$852	\$861			1.34%	1.33%
	10,000	\$1,028	\$1,037	\$1,042	\$1,051			1.37%	1.36%
30	9,000	\$988	\$997	\$1,001	\$1,010			1.29%	1.27%
	12,000	\$1,268	\$1,277	\$1,285	\$1,294			1.34%	1.33%
	15,000	\$1,548	\$1,557	\$1,569	\$1,578			1.37%	1.36%
	18,000	\$1,828	\$1,837	\$1,853	\$1,862			1.39%	1.38%

* Net rate including Schedules 91, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 23 + Cost-Based Supply Service
General Service - Primary Delivery Voltage

kW Load Size	kWh	Monthly Billing*						Percent Difference	
		Present Price		Proposed Price		Single Phase	Three Phase	Single Phase	Three Phase
		Single Phase	Three Phase	Single Phase	Three Phase				
5	500	\$71	\$80	\$72	\$81	0.98%	0.88%	0.98%	0.88%
	750	\$98	\$107	\$99	\$108	1.08%	0.99%		
	1,000	\$125	\$134	\$126	\$135	1.13%	1.05%		
	1,500	\$179	\$187	\$181	\$189	1.19%	1.13%		
10	1,000	\$125	\$134	\$126	\$135	1.13%	1.05%	1.13%	1.05%
	2,000	\$232	\$241	\$235	\$244	1.21%	1.17%		
	3,000	\$339	\$348	\$343	\$352	1.25%	1.22%		
	4,000	\$430	\$439	\$436	\$445	1.31%	1.28%		
20	4,000	\$456	\$465	\$462	\$471	1.24%	1.21%	1.24%	1.21%
	6,000	\$638	\$647	\$647	\$656	1.33%	1.31%		
	8,000	\$820	\$829	\$831	\$840	1.38%	1.36%		
	10,000	\$1,002	\$1,011	\$1,016	\$1,025	1.41%	1.40%		
30	9,000	\$964	\$972	\$976	\$985	1.32%	1.31%	1.32%	1.31%
	12,000	\$1,236	\$1,245	\$1,253	\$1,262	1.37%	1.36%		
	15,000	\$1,509	\$1,518	\$1,530	\$1,539	1.40%	1.39%		
	18,000	\$1,782	\$1,791	\$1,807	\$1,816	1.43%	1.42%		

* Net rate including Schedules 91, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 28 + Cost-Based Supply Service
Large General Service - Secondary Delivery Voltage

kW Load Size	kWh	Monthly Billing*		Percent Difference
		Present Price	Proposed Price	
15	3,000	\$356	\$360	1.22%
	4,500	\$472	\$478	1.39%
	7,500	\$703	\$714	1.55%
31	6,200	\$716	\$725	1.26%
	9,300	\$955	\$969	1.41%
	15,500	\$1,434	\$1,457	1.57%
40	8,000	\$919	\$930	1.26%
	12,000	\$1,228	\$1,245	1.42%
	20,000	\$1,845	\$1,874	1.57%
60	12,000	\$1,370	\$1,387	1.27%
	18,000	\$1,833	\$1,859	1.43%
	30,000	\$2,742	\$2,786	1.59%
80	16,000	\$1,815	\$1,838	1.28%
	24,000	\$2,425	\$2,460	1.44%
	40,000	\$3,633	\$3,691	1.60%
100	20,000	\$2,260	\$2,289	1.29%
	30,000	\$3,014	\$3,058	1.45%
	50,000	\$4,523	\$4,596	1.61%
200	40,000	\$4,426	\$4,484	1.31%
	60,000	\$5,935	\$6,022	1.47%
	100,000	\$8,953	\$9,098	1.62%

* Net rate including Schedules 91, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 28 + Cost-Based Supply Service
Large General Service - Primary Delivery Voltage

kW Load Size	kWh	Monthly Billing*		Percent Difference
		Present Price	Proposed Price	
15	4,500	\$459	\$465	1.43%
	6,000	\$565	\$574	1.54%
	7,500	\$671	\$682	1.62%
31	9,300	\$922	\$936	1.47%
	12,400	\$1,141	\$1,159	1.58%
	15,500	\$1,360	\$1,382	1.66%
40	12,000	\$1,183	\$1,200	1.47%
	16,000	\$1,465	\$1,488	1.59%
	20,000	\$1,747	\$1,776	1.66%
60	18,000	\$1,764	\$1,790	1.48%
	24,000	\$2,181	\$2,215	1.60%
	30,000	\$2,594	\$2,638	1.68%
80	24,000	\$2,331	\$2,366	1.50%
	32,000	\$2,883	\$2,929	1.61%
	40,000	\$3,434	\$3,492	1.69%
100	30,000	\$2,895	\$2,939	1.51%
	40,000	\$3,584	\$3,643	1.62%
	50,000	\$4,274	\$4,347	1.70%
200	60,000	\$5,679	\$5,766	1.53%
	80,000	\$7,058	\$7,174	1.65%
	100,000	\$8,437	\$8,582	1.72%

* Net rate including Schedules 91, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 30 + Cost-Based Supply Service
Large General Service - Secondary Delivery Voltage

kW Load Size	kWh	Monthly Billing*		Percent Difference
		Present Price	Proposed Price	
100	20,000	\$2,688	\$2,715	1.03%
	30,000	\$3,299	\$3,340	1.26%
	50,000	\$4,522	\$4,591	1.53%
200	40,000	\$4,731	\$4,786	1.17%
	60,000	\$5,954	\$6,036	1.39%
	100,000	\$8,399	\$8,537	1.64%
300	60,000	\$6,944	\$7,027	1.19%
	90,000	\$8,778	\$8,903	1.42%
	150,000	\$12,447	\$12,654	1.66%
400	80,000	\$9,039	\$9,149	1.22%
	120,000	\$11,485	\$11,650	1.44%
	200,000	\$16,376	\$16,652	1.69%
500	100,000	\$11,165	\$11,303	1.24%
	150,000	\$14,222	\$14,429	1.46%
	250,000	\$20,335	\$20,680	1.70%
600	120,000	\$13,291	\$13,456	1.25%
	180,000	\$16,959	\$17,207	1.46%
	300,000	\$24,295	\$24,709	1.70%
800	160,000	\$17,542	\$17,763	1.26%
	240,000	\$22,433	\$22,764	1.48%
	400,000	\$32,215	\$32,767	1.71%
1000	200,000	\$21,794	\$22,070	1.27%
	300,000	\$27,907	\$28,321	1.48%
	500,000	\$40,135	\$40,825	1.72%

* Net rate including Schedules 91, 199, 290 and 297.

**Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 30 + Cost-Based Supply Service
Large General Service - Primary Delivery Voltage**

kW Load Size	kWh	Monthly Billing*		Percent Difference
		Present Price	Proposed Price	
100	30,000	\$3,236	\$3,277	1.28%
	40,000	\$3,836	\$3,891	1.44%
	50,000	\$4,436	\$4,505	1.56%
200	60,000	\$5,843	\$5,926	1.42%
	80,000	\$7,044	\$7,154	1.57%
	100,000	\$8,244	\$8,382	1.67%
300	90,000	\$8,610	\$8,735	1.44%
	120,000	\$10,411	\$10,576	1.59%
	150,000	\$12,211	\$12,418	1.70%
400	120,000	\$11,283	\$11,448	1.47%
	160,000	\$13,683	\$13,904	1.61%
	200,000	\$16,083	\$16,359	1.72%
500	150,000	\$13,967	\$14,174	1.48%
	200,000	\$16,967	\$17,244	1.63%
	250,000	\$19,968	\$20,313	1.73%
600	180,000	\$16,652	\$16,900	1.49%
	240,000	\$20,252	\$20,583	1.64%
	300,000	\$23,852	\$24,266	1.74%
800	240,000	\$22,021	\$22,352	1.50%
	320,000	\$26,821	\$27,263	1.65%
	400,000	\$31,622	\$32,174	1.75%
1000	300,000	\$27,390	\$27,804	1.51%
	400,000	\$33,391	\$33,943	1.65%
	500,000	\$39,391	\$40,081	1.75%

* Net rate including Schedules 91, 199, 290 and 297.

**Pacific Power
Billing Comparison
Delivery Service Schedule 41 + Cost-Based Supply Service
Agricultural Pumping - Secondary Delivery Voltage**

kW Load Size	kWh	Present Price*			Proposed Price*			Percent Difference		
		April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge	April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge	April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge
<u>Single Phase</u>										
10	2,000	\$196	\$224	\$155	\$198	\$227	\$155	1.47%	1.28%	0.00%
	3,000	\$293	\$322	\$155	\$298	\$326	\$155	1.46%	1.34%	0.00%
	5,000	\$489	\$517	\$155	\$496	\$525	\$155	1.46%	1.38%	0.00%
<u>Three Phase</u>										
20	4,000	\$391	\$448	\$309	\$397	\$454	\$309	1.47%	1.28%	0.00%
	6,000	\$587	\$644	\$309	\$595	\$652	\$309	1.46%	1.33%	0.00%
	10,000	\$978	\$1,035	\$309	\$992	\$1,049	\$309	1.46%	1.38%	0.00%
100	20,000	\$1,955	\$2,241	\$1,349	\$1,984	\$2,270	\$1,349	1.46%	1.28%	0.00%
	30,000	\$2,933	\$3,219	\$1,349	\$2,976	\$3,262	\$1,349	1.46%	1.33%	0.00%
	50,000	\$4,888	\$5,174	\$1,349	\$4,960	\$5,246	\$1,349	1.46%	1.38%	0.00%
300	60,000	\$5,866	\$6,723	\$3,409	\$5,952	\$6,809	\$3,409	1.46%	1.28%	0.00%
	90,000	\$8,799	\$9,656	\$3,409	\$8,928	\$9,785	\$3,409	1.46%	1.33%	0.00%
	150,000	\$14,665	\$15,522	\$3,409	\$14,880	\$15,737	\$3,409	1.46%	1.38%	0.00%

* Net rate including Schedules 91, 98, 199, 290 and 297.

**Pacific Power
Billing Comparison
Delivery Service Schedule 41 + Cost-Based Supply Service
Agricultural Pumping - Primary Delivery Voltage**

kW Load Size	kWh	Present Price*			Proposed Price*			Percent Difference		
		April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge	April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge	April - November Monthly Bill	December- March Monthly Bill	Annual Load Size Charge
<u>Single Phase</u>										
10	3,000	\$284	\$312	\$155	\$288	\$316	\$155	1.51%	1.38%	0.00%
	4,000	\$379	\$406	\$155	\$385	\$412	\$155	1.51%	1.41%	0.00%
	5,000	\$474	\$501	\$155	\$481	\$508	\$155	1.51%	1.43%	0.00%
<u>Three Phase</u>										
20	6,000	\$568	\$624	\$309	\$577	\$632	\$309	1.51%	1.38%	0.00%
	8,000	\$758	\$813	\$309	\$769	\$824	\$309	1.51%	1.41%	0.00%
	10,000	\$947	\$1,002	\$309	\$961	\$1,017	\$309	1.51%	1.43%	0.00%
100	30,000	\$2,841	\$3,118	\$1,339	\$2,884	\$3,161	\$1,339	1.51%	1.38%	0.00%
	40,000	\$3,788	\$4,065	\$1,339	\$3,846	\$4,122	\$1,339	1.51%	1.41%	0.00%
	50,000	\$4,735	\$5,012	\$1,339	\$4,807	\$5,084	\$1,339	1.51%	1.43%	0.00%
300	90,000	\$8,524	\$9,354	\$3,399	\$8,652	\$9,482	\$3,399	1.51%	1.38%	0.00%
	120,000	\$11,365	\$12,195	\$3,399	\$11,537	\$12,367	\$3,399	1.51%	1.41%	0.00%
	150,000	\$14,206	\$15,036	\$3,399	\$14,421	\$15,251	\$3,399	1.51%	1.43%	0.00%

* Net rate including Schedules 91, 98, 199, 290 and 297.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 48 + Cost-Based Supply Service
Large General Service - Secondary Delivery Voltage
1,000 kW and Over

kW Load Size	kWh	Monthly Billing		Percent Difference
		Present Price	Proposed Price	
1,000	300,000	\$27,152	\$27,529	1.39%
	500,000	\$38,830	\$39,458	1.62%
	650,000	\$47,588	\$48,405	1.72%
2,000	600,000	\$53,871	\$54,625	1.40%
	1,000,000	\$74,977	\$76,233	1.68%
	1,300,000	\$91,669	\$93,302	1.78%
6,000	1,800,000	\$156,379	\$158,641	1.45%
	3,000,000	\$223,148	\$226,918	1.69%
	3,900,000	\$273,224	\$278,125	1.79%
12,000	3,600,000	\$311,435	\$315,959	1.45%
	6,000,000	\$444,971	\$452,511	1.69%
	7,800,000	\$545,124	\$554,925	1.80%

Notes:

On-Peak kWh	64.49%
Off-Peak kWh	35.51%

* Net rate including Schedules 91, 199 and 290. Schedule 297 included for kWh levels under 730,000.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 48 + Cost-Based Supply Service
Large General Service - Primary Delivery Voltage
1,000 kW and Over

kW Load Size	kWh	Monthly Billing		Percent Difference
		Present Price	Proposed Price	
1,000	300,000	\$25,700	\$26,077	1.47%
	500,000	\$36,560	\$37,188	1.72%
	650,000	\$44,705	\$45,522	1.83%
2,000	600,000	\$50,926	\$51,680	1.48%
	1,000,000	\$70,396	\$71,653	1.79%
	1,300,000	\$85,861	\$87,495	1.90%
6,000	1,800,000	\$147,144	\$149,406	1.54%
	3,000,000	\$209,004	\$212,774	1.80%
	3,900,000	\$255,399	\$260,300	1.92%
12,000	3,600,000	\$292,934	\$297,457	1.54%
	6,000,000	\$416,653	\$424,193	1.81%
	7,800,000	\$509,443	\$519,244	1.92%

Notes:

On-Peak kWh	61.36%
Off-Peak kWh	38.64%

* Net rate including Schedules 91, 199 and 290. Schedule 297 included for kWh levels under 730,000.

Pacific Power
Monthly Billing Comparison
Delivery Service Schedule 48 + Cost-Based Supply Service
Large General Service - Transmission Delivery Voltage
1,000 kW and Over

kW Load Size	kWh	Monthly Billing		Percent Difference
		Present Price	Proposed Price	
1,000	500,000	\$36,254	\$36,883	1.73%
	650,000	\$43,850	\$44,667	1.86%
2,000	1,000,000	\$69,373	\$70,629	1.81%
	1,300,000	\$83,739	\$85,372	1.95%
6,000	3,000,000	\$206,109	\$209,878	1.83%
	3,900,000	\$249,207	\$254,108	1.97%
12,000	6,000,000	\$410,069	\$417,609	1.84%
	7,800,000	\$496,266	\$506,068	1.98%
50,000	25,000,000	\$1,701,819	\$1,733,234	1.85%
	32,500,000	\$2,060,975	\$2,101,814	1.98%

Notes:

On-Peak kWh 56.79%
Off-Peak kWh 43.21%

* Net rate including Schedules 91, 199 and 290. Schedule 297 included for kWh levels under 730,000.