

 Public Utility Commission

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May 15, 2017

Via Electronic Filing

OREGON PUBLIC UTILITY COMMISSION ATTENTION: FILING CENTER PO BOX 1088 SALEM OR 97302-1088

RE: <u>Docket No. UM 1801</u>–In the Matter of IDAHO POWER COMPANY, Application for Authority to Implement Revised Depreciation Rates for Electric Plant-in-Service.

Enclosed for filing is Staff Testimony in support of Stipulation along with a Certificate of Service and UM 1801 Service List.

Exhibit 102 and 103 are spreadsheet and are filed in electronic format.

Exhibit 302 is confidential and a CD is being placed in today's first class US mail.

/s/ Kay Barnes (503) 378-5763 Email: kay.barnes@state.or.us

CASE: UM 1801 WITNESS: MING PENG

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 100

Testimony In Support Of Stipulation

May 15, 2017

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Α.

Introduction I. Q. Please state your name and position with the Public Utility Commission of Oregon. A. My name is Ming Peng. I am a Senior Economist and case manager for the Public Utility Commission of Oregon (OPUC or Commission). My business address is 201 High St SE Suite 100, Salem, OR 97301. My qualification statement is found in Staff/101. Q. What is the purpose of your testimony? The purpose of Staff's Testimony in Support of Stipulation (Staff Testimony) is to describe my analysis and to support the Stipulation submitted by Idaho Power Company (IPC or Company), Commission Staff (Staff), and the Citizens' Utility Board of Oregon (CUB), in docket UM 1801 (Docket). With the exception of the Valmy generating plant, which is being addressed in Docket No. UE 316, the Stipulation resolves all issues surrounding depreciation rates on common and directly assigned plant, respectively. The adjustments discussed in the

Q. What precipitated this proceeding? 18 Pursuant to ORS 757.140, "Each public utility shall conform its depreciation 19 Α. accounts to the rates so ascertained and determined by the commission." In 20 compliance with the ORS 757.140, IPC filed a depreciation study with the 21 Commission on November 2, 2016. Again, except for the Company's Valmy 22

Stipulation are reasonable and, for its part, will yield fair and equitable rates if

adopted by the Commission in its final order in this docket. I have attached

Staff/102 which sets forth the settlement of detailed depreciation parameters.

Coal-Fired Plant, all assets in the study are included as of December 31, 2015,
 in traditional FERC classification of transmission, distribution and general plant
 assets.

II. Summary of Proceeding

A. Depreciation Study Results

4 **Q.** Please summarize IPC's depreciation study proposal.

A. IPC's depreciation study recommended revisions in depreciation lives, survivor
curves, and net salvage rates for all plant accounts, and a revision to the
average remaining life methodology for plant assets.

8 On November 2, 2016, the Company filed its Application for Authorization to 9 Implement Revised Depreciation Rates (Application). The Application requested 10 Commission approval for the Company to revise its book depreciation rates 11 consistent with the results of a study recently undertaken by the Gannett 12 Fleming, Inc. (Gannett Study or Study). The objective of the Gannett Study was 13 to determine and recommend depreciation rates to be utilized by IPC for 14 accounting and ratemaking purposes.

The Study, according to the Company, shows that the system-wide annual
depreciation expense as of December 31, 2015, on the Company's books
should be increased by approximately \$24 million, based on the average service
life rates of electric plant in service as of December 31, 2012.

As set forth in more detail in the Stipulation, the parties reached final
agreement on revisions to the Company's book depreciation rates at their
April 20, 2017 settlement conference. If approved by the Commission, such

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1		rates would constitute the Oregon direct depreciation rates, which, per the
2		parties' agreement, would be effective on June 1, 2017, in IPC's Oregon rates.
3		For the remainder of this testimony, I will refer to the parties who have signed
4		the Stipulation (i.e. IPC, CUB and Staff) as the "Stipulating Parties."
5		
		B. Support for Stipulation
6	Q.	Did you independently review the depreciation study?
7	A.	Yes, I performed an independent review of IPC's depreciation statistics and
8		recommended depreciation parameters for numerous depreciation groups.
9		Utility depreciation expense includes components for both the recovery of the
10		original cost of the asset and an estimate of net salvage costs (gross salvage
11		less cost of removal) at retirement. The depreciation rate utilized will ensure an
12		appropriate level of total cost allocation to the customers who benefit from the
13		asset's service, based upon the best estimate of useful service life. (See
14		Introduction to Depreciation - for Public Utilities and Other Industries, page 111,
15		April 2015.) I proposed two types of adjustments. The first type of adjustment
16		concerns lowa survivor curves and projected average service lives. The second
17		type of adjustment concerns net salvage rates.
18	Q.	Did your analysis suggest adjustments to IPC's proposal?
19	A.	Yes. I proposed seven adjustments concerning lowa survivor curves and
20		projected average service lives, and 22 adjustments concerning net salvage
21		rates.

1	Q.	Were the Stipulating Parties able to resolve the study differences for the
2		electric plant accounts?
3	A.	Yes, the differences were resolved in a settlement meeting held on April 20,
4		2017. I accepted most of IPC's proposals for its FERC 300 level accounts. The
5		positions that differed from IPC's filing were reasonably close to those requested
6		by IPC. After considerable discussion and an understanding of the methods for
7		all plant assets at existing facilities, the Stipulating Parties reached the final
8		agreement as set forth in the Stipulation at Table 1 and I recommend that the
9		Commission adopt it.
10	Q.	What is the final impact on estimated depreciation expense due to
11		Stipulation?
12	A.	The result of the settlement is a depreciation expense of \$124,598,097 or a
13		depreciation rate of 2.55 percent, as shown in the Stipulation, Staff/103 -
14		Depreciation Settlement Summary Report. The net annual difference in
15		depreciation expense, when comparing the Stipulation to the depreciation study
16		as filed in the Company's Application, is a reduction of approximately
17		\$6.62 million.
18	Q.	Please describe the analyses that you performed regarding IPC's
19		depreciation study.
20	A.	I considered lowa survivor curves and average service lives as well as net
21		salvage rates. The review procedures included the selection of the capital
22		recovery parameters of retirement dispersion (survivor curve), service life

1		projections for the future, salvage, and cost of removal projections for the future.
2		The settlement of detailed depreciation parameters is set forth in Staff/102.
3	Q.	How did you analyze lowa Curves and Average Service Lives?
4	A.	I utilized the plant balances to analyze historical retirement data to help
5		determine lowa survivor curves and average service lives for each depreciation
6		group. For survivor curve fitting purposes, I utilized the ordinary least-squares
7		statistical method. Under this method, the lowa survivor curve alternative
8		resulting in a "fit" with the smallest sum of squared differences (fit to actual) is
9		considered to be the best fit and to be indicative of average life and retirement
10		dispersion of the account. Staff/102 shows the depreciation groups for which
11		the analyses produced differing results from IPC, and the final position agreed to
12		by the Stipulating Parties.
13	Q.	Could you please summarize the settlement results?
14	А.	Yes. The settled weighted depreciation rate for total depreciable plant is
15		2.55 percent from IPC's originally proposed rate of 2.69 percent. The Stipulation
16		has resulted in annual depreciation expense on a system basis of \$124.6 million,
17		based on December 31, 2015 plant values, which is a reduction from Idaho
18		Power's original proposed of \$131.2 million. (See settlement results by plant
19		function below) When the agreed upon depreciation rates are applied to
20		approved test year plant balances, the resulting incremental Oregon
21		jurisdictional depreciation expense is approximately \$343,000, as compared to
22		the Company's initial request of approximately \$604,000.
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UM 1801 ELECTRIC PLANT	Depreciation%		Depreciation%	Depreciation%
FUNCTION	IPC Proposed	Staff Proposed	SETTLED	SETTLED Difference
Steam Production Plant	Floposed	Floposed		Difference
(2025JB)			6.13	
Steam Production Plant (2034JB)*	3.60	3.53	3.46	(0.14)
Hydraulic Production Plant	2.03	1.91	1.98	(0.05)
Other Production Plant	2.93	2.44	2.91	(0.01)
Transmission Plant	2.00	1.85	1.86	(0.14)
Distribution Plant	2.42	2.16	2.23	(0.18)
General Plant	5.62	5.49	5.36	(0.26)
TOTAL DEPRECIABLE PLANT	2.69	2.49	2.55	(0.14)
Annual depreciation expenses	131,213,914	121,265,356	124,598,097	(6,615,817)
*JB 2034 is for book purposes				-5.04%

Summary of Settlement Results - Depreciation Rate & Expense

UM 1801 ELECTRIC PLANT	IPC Annual Accrual	Staff Annual Accrual	SETTLED	SETTLED Difference
Steam Production Plant (2025JB)			37,801,636	
Steam Production Plant (2034JB)	22,184,440	21,755,324	21,338,297	-846,143
Hydraulic Production Plant	15,245,122	14,325,807	14,837,407	-407,715
Other Production Plant	15,684,211	13,098,836	15,613,598	-70,613
Transmission Plant	21,430,635	19,844,748	19,889,481	-1,541,154
Distribution Plant	37,957,919	33,958,361	35,087,549	-2,870,370
General Plant	18,711,587	18,282,279	17,831,765	-879,822
TOTAL DEPRECIABLE PLANT	131,213,914	121,265,356	124,598,097	-6,615,817

1	Q.	Is there any background information that is relevant for the Commission's
2		consideration?
3	A.	Yes, there are two important considerations concerning IPC's coal plants as
4		follows.
5	1.	Jim Bridger (JB) Coal Plant End-Life at year 2025 in Oregon, and at year 2034 in
6		Idaho
7		IPC has a 33 percent ownership share of the JB plant, which is jointly owned
8		with PacifiCorp. In its Order No. 08-427, the Commission affirmed 2025 as the
9		end-life-date for the JB plant for PacifiCorp. To be consistent with Commission
10		Order No. 08-427, I did not make an adjustment related to the JB plant's service
11		life.
12	2.	Valmy Coal-fired Plant Shutdown by 2025, depreciation is not in this case
13		IPC has a 50 percent ownership share of the Valmy Plant (Nevada Energy owns
14		the other 50 percent). Valmy depreciation has been removed from and is not
15		considered in Docket No. UM 1801. The requirements for (1) the accelerated
16		depreciation and (2) the Valmy plant decommissioning cost recovery are being
17		addressed in Docket No. UE 316.
18	Q.	How did you determine curve-lives?
19	A.	lowa survivor curve-projection life selection was based on the Company's raw
20		data, and I also compared data from other electric companies. The curve-life
21		statistic is the minimum sum of the normalized squared deviations.
22		Normalization is done by dividing each deviation by the corresponding observed
23		balance. The selected survivor curve-projection lives were made in the average
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1 service life or dispersion curve (or both) for the FERC account categories in the 2 Transmission Plant, Distribution Plant, and General Plant, For example, R2-55 means the Right-Modal IOWA Type Survivor Curve with 2 Degree of Dispersion 3 that has 55 years of Projection Service Life. 4 Could you provide examples of how you agreed upon the curve-life 5 Q. 6 adjustment? 7 Yes. I modified curve life positions for seven accounts from 81 accounts for Α. depreciable plants. My modifications are not only based on statistical analysis 8 9 and tests on observational data set, but also take into consideration the factual 10 comparisons of the actual curve-life historical data from other 101 electric 11 companies nationwide to help identify asset survival behaviors and determine trends. 12 13 In the settlement proposal, I had an Account by Account Discussion of 14 Service Life Adjustment. For example, my position for the Hydraulic Production 15 Plant Account 334 Accessory Electric Equipment was a curve life combination of 16 R1-60 (R1 curve type & dispersion and 60 year of average service life). The IPC 17 Study recommendation was R1.5-54. I evaluated that curve life combination in a 18 statistical model, finding that the curve fitting Residual (SSR) for R1-60 shows a 19 significantly better fit for a set of observations and it has 51 percent less residual 20 (see Table 2 above) than does the curve of R1.5-54. I also reviewed national 21 data from 101 electric companies, and found out that Industry projection life for 22 this account has a wide range from 35 to 80 years, but the majority projection life 23 is 60 years and above. My recommended projection life is 60 years, which is

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Staff/100 Peng/10

within the range of majority industry statistics. I believe that assets such as these
 have life characteristics to justify an average 60-year depreciation life.
 For settlement purposes, the Stipulating Parties agreed to a curve of
 R1.5-65 after coordinated with the curve-life from Idaho parties' proposal. This
 service life is longer than Oregon's R1-60, and IPC's R1.5-54.

Account	Account	IPC	Staff	Settled
Description	Number	curve life	Curve-life	Curve- life
ACCESSORY ELECTRIC EQUIPMENT	334	54-R1.5	R1-60	65-R1.5

7 My position for Account 370.1 Meters – AMI (Advanced Metering Infrastructure) under the Distribution Plant is a curve life combination of R1-20. 8 IPC discussed the statistical support underlying the S1.5-16 curve life in its filing. 9 I evaluated that curve life combination in a statistical model, finding that the 10 curve fitting Sum of Squares of Residuals (SSR) for R1-20 shows a significantly 11 better fit for a set of observations, and it has 41 percent less residual than the 12 curve of S1.5-16 does. I also reviewed national data from 101 electric 13 companies. I found that Industry projection life for this account has a wide range 14 from 15 to 21 years, but the majority projection lives are 15 and 20 years 15 respectively. I then conducted a field trip investigation to an AMI workshop, and 16 found out that the Battery life for an AMI meter is 20 years, and also, the 17 retirement data shows that after 10 years of AMI usage, 90 percent of AMI has 18 survived (not been replaced). I believe that assets such as these have life 19 characteristics to justify an average 20-year depreciation life. 20

Staff/100 Peng/11

IPC believes that a service life of 16 years with a S1.5 curve for AMI account
is preferred, because AMI is a new technology, and the Company might have to
face future uncertainty and risks. Given the lack of retirement activity, and
assuming the actual life is equal to the average life, the Stipulating Parties
agreed to a curve of R1.5-18 for this depreciation study which the Stipulating
Parties find supportable and fair.

Account	Account	IPC	Staff	Settled
Description	Number	curve life	Curve-life	Curve-life
METERS - AMI	370.1	16-S1.5	R1-20	18-R1.5

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- Q. Why it is important to include a net salvage component in depreciation rates?

A. The annual depreciation rate is the ratio of plant costs, adjusted for net salvage
value, that are allocated to a one-year period in accordance with a rational and
consistent plan of allocation over the average service life of the property.

13 It is important to include a net salvage component in depreciation rates for proper cost allocation. For example, assume an account with assets costing 14 15 \$100. Further, assume a net salvage cost of \$80 is required to retire the \$100 of 16 assets at the end of their lives. That equates to a net salvage percentage of 17 negative 80 percent (-80 percent). Instead of only allocating the installed cost of 18 \$100, to ensure equitable cost allocation to customers receiving the service 19 value, \$180 of cost allocation is required over the lives of the assets. Without 20 the inclusion of the \$80 in net cost to retire the assets, the Company will not be 21 made whole, the equitable cost allocation will not occur, and customers who 22 have benefitted from the use of the assets will not pay the full cost of the assets.

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(See Introduction to Depreciation - for Public Utilities and Other Industries,

page 112, April 2015.)

3 || Q. How did you determine net salvage rates?

A. To set the proper net salvage rates, IPC and Staff thoroughly studied the
observed data for plant assets to help estimate net salvage characteristics and
help determine future net salvage trends.

Net salvage is the difference between gross salvage and cost of removal. 7 Net salvage is positive when gross salvage exceeds the "cost of removal" and 8 reduces the revenue requirement. Conversely, net salvage is negative when 9 cost of removal exceeds gross salvage and increases the revenue requirement. 10 FERC defines cost of removal as "the cost of demolishing, dismantling, tearing 11 down, or otherwise removing retirements of utility plant, including the cost of 12 transportation, and handling incidental thereto." (See FERC 18 CFR 4-1-12 13 Edition, Pt 101, Definition 10, Pg. 365). 14

To determine net salvage rates for its facilities, the analysis relied primarily 15 upon historical retirement data. The Stipulating Parties utilized the statistical 16 methods of overall averages, and "Rolling Band" (i.e., moving average) 17 analyses, to study historical data to help estimate net salvage characteristics. 18 Banding is the compositing of a number of years of data in order to merge them 19 into a single data set for further analysis. By making determinations of the net 20 salvage indicated in successive bands, it is possible to determine a clear 21 indication of whether there is a trend in the net salvage experience. The Rolling 22 Band analyses have the selection of three and five years' bandwidth to detect 23

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1		trends. The "3-year and 5-year Bandwidth" (three and five years of data banded
2		together over the period 1909 through 2015) are used in Rolling Band analyses
3		to detect account trends.
4	Q.	Please explain why you recommend the stipulated net salvage rates for
5		plant assets.
6	A.	I made 22 modifications to IPC's proposed Net Salvage Rates from 81 accounts
7		for depreciable plants and determined there should be an adjustment for net
8		salvage rates.
9		For example, for Account 312.1 – Boiler Plant Equipment - Scrubbers and
10		312.2 Boiler Plant Equipment - Other under the Jim Bridger Steam Production
11		Plant I concluded that there should be a salvage level of negative 9 percent
12		(-9 percent). In its Application, IPC proposed a salvage level of negative
13		10 percent (-10 percent).
14		From my net salvage analysis based on IPC's book salvage record, the year-by-
15		year net salvage rate was negative 12 percent (-12 percent), the 3-year and
16		5-year rolling bands results were negative 6.7 percent (-6.7 percent) and
17		negative 8.4 percent (-8.4 percent) respectively. The average of the three data
18		trends is -9 percent.
19		I also reviewed national data from 101 electric companies. I found that
20		Industry net salvage for this account has a wide range from -35 percent to
21		0 percent, but the majority net salvage rates are from -10 percent to 0 percent.
22		Based on IPC's actual asset retirement and cost removal level, I concluded
23		that an average net salvage level at negative 9 percent (-9 percent) for Accounts

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312.1 was appropriate. However, after discussions with IPC and CUB, I concluded, and recommend to the Commission, that a net salvage of negative 5 percent (-5 percent) is appropriate. This takes into consideration the net salvage from State of Idaho parties' proposal for this Account 312.1.

Account	Account	IPC	Staff	Settled
Description	Number	net salvage	net salvage	net salvage
BOILER PLANT EQUIPMENT - SCRUBBERS	312.10	-10	-9	-5

For Account 312.3 - Boiler Plant Equipment - Railcars under the Jim Bridger Steam Production Plant, my initial determination was a salvage level of positive 20 percent (+20 percent). IPC proposed a salvage level of 0 percent (0 percent). I reviewed national data from 101 electric companies and I found that the majority of Industry net salvage for this account are from +20 percent to +30 percent.

For settlement purposes, the Stipulating Parties agreed to a net salvage of positive 10 percent (+10 percent). For comparison, the net salvage from Idaho parties' proposal for this Account 312.3, which the net salvage is less positive than Oregon's +20 percent and more positive than IPC's 0 percent.

Account	Account	IPC	Staff	Settled
Description	Number	net salvage	net salvage	net salvage
BOILER PLANT EQUIPMENT - RAILCARS	312.3	0	20	10

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17 18 For Account 356 - Overhead Conductors And Devices under the Transmission Plant, my initial conclusion was that a Salvage level of negative

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41 percent (-41 percent) was appropriate. IPC proposed a salvage level of negative 50 percent (-50 percent).

3 My analysis was based on IPC's actual asset retirement activities and cost 4 removal level, and I recommended the net salvage level at negative 41 percent 5 (-41 percent) for Account 356. The net salvage from year-by-year data result 6 was -48 percent, the 3-year Rolling Band data result was -14 percent, and 7 5-year rolling bands result was -63 percent, the average of the three data trends 8 is -41 percent. I also reviewed national data from 101 electric companies. I 9 found that Industry net salvage for this account has a wide range from -100 10 percent to 0 percent, but the majority net salvage rate is -20 percent. Based on all information above, in this review I concluded that the net salvage level at 12 negative 41 percent (-41 percent) for Account 356, which is within the range of 13 industry statistics.

14 I then reviewed FERC definition on this account: 356 Overhead conductors 15 and devices. This account includes the cost to install of overhead conductors 16 and devices used for transmission purposes: 1. Circuit breakers. 2. Conductors, 17 including insulated and bare wires and cables. 3. Ground wires and ground 18 clamps. 4. Insulators, including pin, suspension, and other types. 5. Lightning 19 arresters. 6. Switches. 7. Other line devices.

20 I considered that the net salvage experience is highly correlated to scrap 21 material prices for salvage, labor costs related to removal and inflation rates 22 over the life of the plant. Therefore, when analyzing such data, emphasis should 23 be placed on more recent periods.

1		Given the consideration of	the labor	economics	that the fund	ctioning and
2		dynamics of the markets for wa	age labor	is increasing	g, and net s	alvage
3		economics that the factors whi	ch determ	ine the proc	luction, dist	ribution and
4		consumption of goods and serv	vices is ch	nanging, I ga	ave more we	eight to more
5		recent net salvage activities to	deal with	the upward	trend of lab	or cost. I
6		concluded that a negative 50 p	ercent (-5	0 percent) f	or Account	356 is
7		supportive.				
		Account	Account	IPC	Staff	Settled
		Description	Number	net salvage	net salvage	net salvage
		OVERHEAD CONDUCTORS AND DEVICES	356.00	-50	-41	-50
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9	Q.	Were the Stipulating Parties	able to re	esolve the s	study differ	ences for the
10		plant accounts?				
11	A.	Yes, the differences were reso	lved in the	e settlement	meeting he	ld on April 20,
12		2017. The Stipulating Parties	recommer	nd that the C	Commission	adopt the
13		position outlined in the Stipulat	ion. The	Stipulation of	discusses th	e changes in
14		depreciation parameters, and a	also provid	des a table v	which detail	s the straight
15		line, asset remaining life, avera	age servic	e life group	depreciatio	n rates derived
16		for each depreciation group (se	ee Staff/10	02 and Staff	/103).	
17		The Bridger 2025 rates are	e not refle	cted in Staff	/103 (the Ta	able reflects a
18					*1	
19		Bridger 2034 end-of-life for boo	ok purpos	es), but they	/ do reflect f	he final agreed
		upon Bridger 2034 end-of-life for boo				

1	Q. What is the final impact on estimated depreciation expense due to
2	settlement discussions?
3	A. About 4 percent depreciation expense will be allocated to Oregon based on the
4	share of IPC's service in Oregon. The net annual difference in total system
5	depreciation expense comparing the final settlement position to the depreciation
6	study as-filed is a reduction of approximately \$6.6 million, from \$131.2 million to
7	\$124.6 million.
8	Q. What is the depreciation effect on the revenue requirement?
9	A. In the traditional rate base rate-of-return environment, customer rates and
10	utility costs are components of a utility's revenue requirement. NARUC, in its
11	"Public Utility Depreciation Practices" manual on "Depreciation Expense and Its
12	Effect on the Utility's Financial Performance – Revenue Requirement" states:
13 14 15 16 17 18 19	Depreciation has a profound effect on the revenue requirement of a utility, and for many utilities, depreciation expense represents a large percentage of total operating expenses. In addition, deferred income taxes, rate base, and cost of capital are all affected by the depreciation practices of a utility. ¹
20	Q. What is the relationship between depreciation and revenue requirement?
21	A. Under cost of service regulation, revenue requirement refers to the revenues
22	the utility must earn to recover the cost of providing service and to earn a
23	reasonable return on its investment. To compute the revenue requirement (RR)
24	(RR is measured by cost-of-service), a basic formula is followed ² :
н	
	 ¹ NARUC, <u>Public Utility Depreciation Practices</u> p.195 (1996). ² Federal Energy Regulatory Commission, <u>Cost-of-Service Rates Manual</u> p. 6-7 (1999), www.ferc.gov/industries/gas/gen-info/cost-of-service-manual.doc

1		RR = O&M Expense + "Depreciation" + Taxes + Return percent x Rate
2		Base
3		Rate Base = Gross Plant – "Accumulated Depreciation" – Accumulated
4		Deferred Income Taxes + Working Capital
5		In this formula, "Depreciation" is one of the largest line items in the cost of
6		service; therefore, "Depreciation" is important as both an annual expense and as
7		a reduction of rate base.
8	0.	How are depreciation parameters used in determining the utility's revenue
9		requirement?
10	A.	In a general rate case filing, the depreciation expense is calculated by using the
11		Commission's authorized depreciation parameters, from which depreciation
12		rates are derived, and in traditional FERC classification of generation,
13		transmission, distribution, and general plant assets.
14		Accumulated Depreciation is the cost of the investment in gross plant that is
15		recovered through the cost-of-service as Depreciation Expense. Accordingly,
16		the depreciation expense is accumulated and is subtracted from the gross plant
17		to reduce the remaining investment to be recovered. The remaining balance is
		the Net Book Plant. The net book plant represents the portion of gross plant
18		
19		that is not depreciated.
20	Q.	Please describe Idaho Power's original revenue requirement increase
21		request.
22	A.	The Company's proposed rate adjustment related to the revised depreciation
23		rates would have resulted in an increase to "annual depreciation expense" in

Staff/100 Peng/19

1		Oregon of approximately \$604,000—which translates to an increase in the
2		Company's Oregon "revenue requirement" of \$721,548. The Stipulating parties
3		agreed to an increase in the incremental Oregon jurisdictional revenue
4		requirement of \$300,000, which equates to an overall increase of 0.54 percent.
5	Q.	Why do you support the revisions to the depreciation rates proposed?
6	A.	The final adjustment decisions were made based on the combination of the
7		considerations of IPC's plant retirement patterns and in-house engineering
8		opinion, the industry average level, and my analytical skills and industry
9		experience. The stipulated position on plant asset survivor curves-projection
10		life, net salvage rates as reflected in the depreciation rates is consistent with the
11		results of my thorough review and valuation of plant asset by depreciation
12		groups. Accordingly, the stipulated adjustment represents a fair and reasonable
13		level of depreciation expenses to be included in the depreciation rates.
14	Q.	What do you recommend regarding the Stipulation?
15	A.	I recommend that the Commission adopt the Stipulation in its entirety.
16	Q.	What is the date for the next depreciation filing?
17	A.	IPC agreed to file a new detailed depreciation study within five years of the date
18		of the Company's most recent filing – i.e. within five years of November 2, 2016.
19	Q.	Does that complete your testimony in this proceeding?
20	A.	Yes, it does.

List of Staff Exhibits

<u>Exhibit</u>	Description
101	Witness Qualification Statement: Ming Peng
102	Settlement Adjustments – Parameter Comparison
103	Depreciation Settlement Summary Report

CASE: UM 1801 WITNESS: MING PENG

PUBLIC UTILITY COMMISSION OF OREGON

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STAFF EXHIBIT 101

Witness Qualifications Statement

May 15, 2017

Staff/101 Peng/1

WITNESS QUALIFICATIONS STATEMENT

NAME: Ming Peng (Ms.)

EMPLOYER: Public Utility Commission of Oregon

TITLE: Senior Economist Energy Rates, Finance and Audit Division

ADDRESS: 201 High Street SE. Suite 100 Salem, OR. 97301

EDUCATION & TRAINING: M.S. Applied Economics

University of Idaho, Moscow

B.S. Statistics People's University of China, Beijing

C.R.R.A. Certified Rate of Return Analyst Society of Utility and Regulatory Financial Analysts

Depreciation studies - the Society of Depreciation Professionals

NARUC Annual Regulatory Studies Program Michigan State University, East Lansing

300+ credit hours on 30+ topics trainings in public utility industry

EXPERIENCE: 1/11/1999-Present, Public Utility Commission of Oregon

I have been employed by the Public Utility Commission of Oregon (Commission) for 18 years since January 1999. My roles include: <u>Expert Witness, Case Manager, Economist, Policy Analyst,</u> <u>Econometrician, and Principal Analyst</u> I have testified in various formal state hearings and performed numerous analyses including economic, financial, statistical, mathematical, marketing, and policy analyses in public utility industry.

Principal Analyst & Case Manager, Settlement Leader/Negotiator for Depreciation and Ratemaking:

For the "Depreciation Rate Determination" (fixed cost allocation, capital recovery), I have served as a Principal Analyst and Case Manager for the determination of Energy Property Depreciation Rates (Oregon Revised Statute 757.140) for past 10 years.

In this position, I investigate, analyze and calculate "Energy Asset Retirement Cost & Impact" and "Power Plant Decommissioning Cost & Impact" on Customer Rates. I review, calculate, analyze fixed asset depreciation and propose depreciation parameters for each of FERC accounts on Generation, Transmission, Distribution, General, and Coal Mining Plants. The energy sources I have worked on are Steam/Coal, Hydraulic, Natural Gas, Wind, Solar and Geothermal.

My analyses of "Power-Plant-Shutdown" activities include the following cases:

- 1. PGE closes Boardman Coal-fired plant (UM 1679 & UE 215),
- 2. PacifiCorp closes Carbon Coal Plant in Utah (UE 246)
- Multi-state PacifiCorp Klamath Hydro Dam Removal Cost recovery for (1) J. C. Boyle Dam, (2) Copco 1 Dam, (3) Copco 2 Dam, and (4) Iron Gate Dam removal under the ORS 757.734 - Recovery of investment in Klamath River dams in OPUC UE 219.
- 4. Idaho Power Valmy Coal-fired power plant Shutdown (UE 316)
- 5. PGE Colstrip Coal-fired power plant Shutdown (UM 1809)

I conduct case investigation and analysis on Utility's filings, make rate adjustments, lead settlement negotiation, prepare testimony, and appear on behalf of the Commission. The energy companies I work with are: (1) PacifiCorp (serves 6 states), (2) PGE, (3) Northwest Natural Gas (NWN), (4) Idaho Power, (5) Avista Corp (Washington), and (6) Cascade Gas (CNG, Montana).

Lead Analyst and Case Manager on Financial Dockets:

Prior to my present position, I was a lead analyst and case manager for cost of capital, mainly debt capital analysis for nine years. My responsibilities included: review and analyze regulatory policy on Cost of Capital and Market Risks from utility's financial applications for their Derivative Instruments & Hedging Activities and Capital Raising Activities.

I advised the Commission on over 60 Financial Dockets and obtained the Commission Orders.

I passed the certification test offered by "Society of Utility and Regulatory Financial Analysts", become a "Certified Rate of Return Analyst" in 2002.

Public Utility & Policy Analyst:

<u>Energy Merger & Acquisition</u>: I have testified in formal state hearings involving Energy Merger & Acquisition, I conducted Acquisition Premiums & Credit Risk Analysis and testified for the Merger case of "PacifiCorp vs. MidAmerican Energy Company" (a subsidiary of Berkshire Hathaway Energy) in UM 1209. My reviews on Energy Merger & Acquisition also include "PacifiCorp vs. Scottish Power", "PGE vs. Enron".

<u>Clean Energy – Dollar Impact on Customer Rates</u>: I performed analyses of "Rate Impact Calculation of Oregon Clean Energy Capital Investment, Comparative Advantage of Oregon Clean Energy – Dollar Impact in Rates".

<u>General Rate Case Ratemaking (Revenue requirement) and Other Cases</u>: I testified and conducted analyses on some subjects in the revenue requirement models for General Rate Cases. I testified on Fuel Price Forecasting regarding Property Sales; I reviewed Load Forecasting, Weather Normalization in "Integrated Resource Planning" (IRP) and Rate Case filing.

My work functions have also included the Statistical Sampling Design & Procedure Design, and I testified on Revenue Issues (UM 1288) by presenting the sampling results.

I conducted Energy Utility Auditing for cost of capital component on energy companies and also preformed utility operational auditing. I have conducted "Interest Rate and Late Payment Charge" Survey and Analysis annually for state of Oregon (UM 779).

I conducted Telecommunications "Market Competition and Economic Policy Survey Analysis" and write report for House Bill 2577, the report has been published on OPUC web annually for 15 years.

Mentor in the ICER - International Confederation of Energy Regulators

I was selected to act as a mentor in the ICER (International Confederation of Energy Regulators) Women in Energy (ICER WIE) pilot mentoring program. My "Mentoring Topics" were focus on Incentive Regulation; Rate and Economic Impacts of "Cost-of-Service" regulation in US and "Price-Cap" in Europe; Cost of Capital, Energy Demand and Price Forecasting Models; Least Cost Planning; and Regulatory Policy & Renewable Energy issues affecting Utility Rates.

CASE: UM 1801 WITNESS: MING PENG

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 102

Exhibits in Support Of Testimony

May 15, 2017

Exhibit 102

Settlement Adjustments-Parameter Comparison

Is provided in electronic format

CASE: UM 1801 WITNESS: MING PENG

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 103

Exhibits in Support Of Testimony

May 15, 2017

Exhibit 103

Depreciation Settlement Summary Report

Is provided in electronic format

CASE: UM 1801 WITNESS: MARIANNE GARDNER

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 200

Testimony in Support of the Stipulation

May 15, 2017

I		
1	Q.	Please state your name, occupation, and business address.
2	A.	My name is Marianne Gardner. I am a Senior Revenue Requirement Analyst
3		employed in the Energy Rates, Finance and Audit Division of the Public Utility
4		Commission of Oregon (OPUC). My business address is 201 High Street SE.,
5		Suite 100, Salem, Oregon 97301.
6	Q.	Please describe your educational background and work experience.
7	A.	My witness qualification statement is found in Exhibit Staff/201.
8	Q.	What is the purpose of your testimony?
9	A.	The purpose of my testimony is to discuss Staff's review of Idaho Power's (IPC
10		or Company) earnings and overall staff recommendations.
11	Q.	What are Staff's overall recommendations?
12	A.	We recommend the Commission adopt the stipulation supported by the parties
13		to raise rates related to increases in depreciation rates applied to current plant
14		balances for plant that was used and useful as of December 31, 2011.
15	Q.	How is Staff's testimony organized?
16	A.	Staff witness Matt Muldoon discusses cost of capital and Staff witness Ming
17		Peng discusses depreciation rates.
18	Q.	Did you include any other exhibits for this docket?
19	A.	Yes. I included Exhibit Staff/202 and Exhibit Staff/203.
20	Q.	How is your testimony organized?
21	A.	My testimony is organized as follows:
22 23 24		Issue 1, Summary of Company Request2 Issue 2, Standard. of Staff Review and Past Commission Practice

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Staff/200 Gardner/2

1		Janua 4. Regulta of Operational Idaha Dewar Company
		Issue 4, Results of Operations Idaho Power Company7
2	8	ISSUE 1, SUMMARY OF COMPANY REQUEST
3	Q	. What is the Company's request in this case?
4	A.	The Company is requesting rate recovery due to changes in depreciation
5		rates as applied to plant.
6	Q.	Is the Company asking for recovery of a change in depreciation rates
7		relating to all used and useful plant?
8	A.	No. While the Company has made many plant additions since its last general
9		rate case, the Company is only asking for recovery of its overall increase in
10		depreciation costs due to changes in depreciation rates applied to the plant
11		balances that are in rates, from the last general rate case. That is remaining
12		plant balances for plant that was used and useful on December 31, 2011, as
13		found by the Commission in Idaho Power's most recent general rate case
14		order.
15	Q.	What increase did the Company request and how does that differ from
16		the level stipulated to among the parties?
17	A.	The Company requested a rate adjustment related to the revised depreciation
18		rates that would have resulted in an increase to annual depreciation expense in
19		Oregon of approximately \$604,000 based on a 4% of Oregon allocation factor,
20		which translates to an increase in the Company's Oregon jurisdictional revenue
21		requirement of \$721,548, as measured against the revenue requirement
22		identified in the Partial Stipulation in Docket UE 233, which was approved by
23		the Commission on February 23, 2012. The Stipulating Parties in this case

Docket No: U	M 1801	
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1		agreed to an increase in rates of \$300,000, which translates to a 0.54 percent
2		rate increase.
3 4		ISSUE 2, STANDARD OF STAFF'S REVIEW AND PAST COMMISSION PRACTICE
5	Q.	Does Staff support ratemaking treatment of the difference in
6		depreciation rates outside of a general rate proceeding?
7	A.	Typically not. Although it is Staff's long-standing policy position that changes
8		in depreciation rates should not be reflected in rates outside of a general
9		rate review, Staff believes that the circumstances in this case warrant what
10		might be viewed as a departure from that policy.
11	Q.	Please describe the circumstances that led Staff to recommend the
12		stipulated ratemaking treatment in this case.
13	A.	Typically, the Commission implements changes in depreciation rates for
14		ratemaking purposes in general rate proceedings. ¹ In this case, Idaho
15		Power is seeking to update retail rates outside of a general rate proceeding
16		to include new book depreciation rates. The timing of the Company's
17		request is driven by OAR 860-027-0350(2), which requires that each energy
18		utility file a new depreciation study with the Commission no less frequently
19		than once every five years. Therefore, there is a mismatch between the

¹ See e.g. In re PacifiCorp, OPUC Docket No. UM 1647, Order No. 13-347 (Sep. 25, 2013) (change in depreciation rates implemented via PacifiCorp's UE 263 general rate case); In re Portland General Electric, OPUC Docket UM 1679, Order No. 14-297 (Sep. 2, 2014) (change in depreciation rates implemented via PGE's UE 283 general rate case); In re Avista Utilities, OPUC Docket No. UM 1626, Order No. 13-168 (May 6, 2013) (Ratemaking treatment for changes in book depreciation rates reserved until Avista's next general rate case); In re Cascade Natural Gas Co., OPUC Docket No. UM 1727, Order No. 15-315 (Oct. 14, 2015) (change in depreciation rates implemented via Cascade's UG 287 general rate case).

Staff/200 Gardner/4

1 2 Company's requirement to file a depreciation study and the timing of a general rate case.

3 Idaho Power's most recent depreciation study was filed on February 2. 4 2012, and docketed as UM 1576. In that case, the Commission approved 5 ratemaking treatment for the change in book depreciation rates outside of a general rate proceeding, for rates effective July 2012.² However, rates from 6 7 the Company's most recent general rate proceeding, docket UE 233, became effective five months prior to the rate change in docket UM 1576.³ 8 9 Similar to its last depreciation study, there is a mismatch between the 10 timing of the Company's request for a change in depreciation rates for 11 ratemaking purposes, and the timing of a general rate case. However, the 12 timing between the Company's most recent general rate case and 13 depreciation study is approximately five years, rather than five months. 14 Therefore, Staff believes that a review of the Company's earnings is 15 necessary prior to recommending the Commission order new rates resulting 16 from a depreciation rate change. As discussed later on in my testimony. 17 Staff conducted a limited review of the Company's earnings rather than an 18 in depth review that is typically the case for general rate filings. 19 As discussed more fully below, Staff began its earnings review by 20 beginning with the Company's 2016 results of operations, after Type I and 21 Type II adjustments. Staff believes that this provides a reasonable picture for 22 the Company's future earnings levels.

 ² In re Idaho Power Co., OPUC Docket No. UM 1576, Order No. 12-296 (Jul. 20, 2012).
 ³ In re Idaho Power Co., OPUC Docket No. UE 233, Order No. 12-055 (Feb. 23, 2012).

1		ISSUE 3, RESULTS OF OPERATIONS BACKGROUND
2	Q.	Please provide general background regarding a results of operations
3		(ROO) review as it relates to electric utilities regulated by the
4		Commission.
5	A.	Annually each electric utility is required to report to the Commission its ROO
6		based on its most recent fiscal year's operating results. ⁴ The utility is required
7		to restate its actual ROO using a two-stage adjustment process. This
8		requirement is rooted in past Commission policy that is detailed in Staff's letter
9		to utilities provided in Exhibit 202.
10	Q.	Why is a two-stage adjustment process important?
11	A.	The two-stage adjustment process is critical because it allows Staff to better
12		evaluate each utility's earnings on a normalized basis. These adjustments are
13		segregated into Type I and Type II. ⁵
14	Q.	Would you please describe the purpose of Type I adjustments?
15	A.	Yes. Type I adjustments take into account certain normalizing and ratemaking
16		adjustments, which adjust the utility's actuals so the operational results align
17		with Commission policies and precedents established primarily in general rate
18		case dockets. ⁶

⁴ OAR 860-027-0045(3) provides that "Each electric company having multistate operations must file annually its Oregon allocated results of operations using allocation methods acceptable to the Commission. The results of operations report must be filed with the Commission on or before May 1 of each year." ⁵ Staff/202, Gardner/1-4. ⁶ Ibid/1-2.

Q. What is the purpose of Type II adjustments?

A. Type II adjustments are adjustments made after Type I adjustments and
provide pro forma operational statements that are forward-looking. These
adjustments are primarily annualizing adjustments. For example, some
changes like an overall wage increase may have occurred close to year end.
Annualizing operational results for known and measureable changes like
wages provides results that are representative of a forecasted test year.

1		ISSUE 4, RESULTS OF OPERATIONS IDAHO POWER COMPANY
2	Q.	Did Staff review Idaho Power's ROO?
3	A.	Yes. Staff requested the Company provide its 2016 ROO report before the
4		May 1 st report filing deadline so that Staff could review the Company's earnings
5		level after Type I and Type II adjustments. In response, Idaho Power filed
6		Witness Mr. Larkin's supplemental testimony in UE 316 ⁷ that includes the 2016
7		ROO. ⁸
8	Q.	Did Staff find that Idaho Power presented its 2016 ROO consistent with
9		Commission Staff instructions?
10	A.	Yes. As Mr. Larkin explains in his testimony, Idaho Power's ROO Type I and
11		Type II adjustments are consistent with a January 2011 agreement between
12		the Commission Staff and Idaho Power. ⁹ For the purposes of the earnings test
13		after Type I, it was agreed to move normalizing adjustments from Type I to
14		Type II.
15	Q.	Did Staff review the Company's Type I and Type II adjustments and the
16		results at each stage?
17	A.	Yes. Staff issued more than 15 data requests, reviewed the Company's ROO
18		report and supporting work papers. ¹⁰
	⁸ UE	316 - Idaho Power/300, Larkin/1 at 13-20. 316 - Idaho Power/302, Larkin. 316 - Idaho Power/301, Larkin/1-2. aff203, Gardner.

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1	Q. V	What Type I adjustments did the Company make to its unadjusted 2016
2	F	ROO?
3	А. Т	he Company made adjustments that Staff would expect to be made in a
4	g	eneral rate case consistent with Commission orders or precedents. The
5	c	Company's Type I adjustments are as follows: ¹¹
6	•	Removed revenue and expenses for the Demand-Side Management (DSM)
7		rider fund since these transactions are tracked separately in a balancing
8		account;
9	•	Removed deferred expenses related to excess power costs from prior years,
10	•	Restated CSPP contracts to non-levelized amounts and removed capacity
11		payments;
12	•	Removed 100 percent of general advertising expenses, lobbying, charitable
13		donations, and either 33 percent of 100 percent of memberships and dues
14		expenses;
15	•	Removed 50 percent of employee target incentive payout and 100 percent
16		of the incentive payout above target and 100 percent of officer incentives
17	•	Synchronized interest expense; and,
18	•	Removed accounting entries related to prior period activities. ¹²
	¹¹ lbid/1- ¹² lbid/9.	-4.

1	Q.	What Type II adjustments did the Company make?
2	A.	The Company made the following adjustments:
3		 Normalized net power supply expense (NPSE), and revenue sensitive
4		items,
5		 Annualized payroll costs,
6		 Removed NPSE related amortization,
7		 Annualized depreciation and amortization expense; and,
8		 Synchronized interest expense.¹³
9	Q.	How did Staff conduct its earnings review?
10	A.	To review what may be the Company's earnings on the time period the
11		requested rates will be in effect, Staff selected 2016 as a representative year of
12		Idaho earnings as that is the last calendar year for which we have recorded
13		results. To that end, Staff began with the Company's 2016 results of
14		operations, including Type I and Type II adjustments.
15	Q.	Did Staff make any changes to the Company's 2016 results of
16		operations?
17	A.	Yes. Staff analyzed Idaho Power's cost of capital. That is discussed in Staff
18		Witness Matt Muldoon's testimony (Staff/300).
	¹³ Ibio	J.
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1	Q.	Why is Staff's methodology for an earnings review appropriate under the
2		circumstances in this case?
3	A.	Staff believes that the length of time between the Company's last general rate
4		case and its current request warrants a review of the Company's earnings prior
5		to reflecting the change in book depreciation rates in retail rates.
6	Q.	Did Staff analyze the Company's 2016 ROE based on additional
7		assumptions?
8	A.	Yes. Staff reviewed the Company's ROE after Type I and Type II
9		adjustments based on the following scenarios that are illustrated in Table 1,
10		below. The analysis directly below uses the Company's estimate of the
11		updated cost of debt of 5.214 percent. That value is slightly higher than the
12		Staff estimate that I will more fully discuss later on in this testimony.
13		 Scenario 1 – The Company's Capital Structure (CS) and the actual
14		cost of long-term debt (COD) of 5.214 percent as presented in the
15		Company's testimony. ¹⁴
16		 Scenario 2 -The Company's average CS with the 5.214 percent
17		COD. ¹⁵
18		• Scenario 3 – Scenario 2 with the additional assumption that the costs
19		associated with the scrubbers have been removed. ¹⁶
20		Additionally, Staff calculated the basis point impact of the difference of the
21		stipulated incremental revenue requirement of \$300,000 and the requested

 ¹⁴ UE 316 -Idaho Power/302, Larkin.
 ¹⁵ Staff/ 203, Gardner/23.
 ¹⁶ Ibid/25.

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change of \$405,000;¹⁷ a difference of \$105,000. Using the Company's value of \$130,000 for 10 basis points provided in the Company's May 5th e-mail,¹⁸, Staff calculates the difference of \$105,000 in revenue requirement translates to 8.1 basis points (105/130 x 10 = 8.1).

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Table 1				
(1)	(2)	(3)	(4)	(5)
Scenario	ROE percentage after TYPE I	ROE percentage after Type II	Basis points adjustment	ROE percentage after Type II and basis point adjustment
1	7.075	9.36	.081	9.279
2	7.129	9.447	.081	9.366
3	7.103	9.549	.081	9.468

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Q. Please explain how the above ROE percentages are relevant to Staff's

evaluation of whether ratemaking treatment for the change in Idaho

Power's depreciation rates is appropriate?

A. Staff's calculated ROEs after Type II adjustments and the basis point 10 adjustment are relevant to this case because the pro forma results after Type II 11 adjustments are forward-looking and an indicator of whether a change in rates 12 is merited.¹⁹ Also Staff, in its review of the Company's structure, has added an 13 additional layer. As stated above, Staff believes that a 9.5 notional ROE for the 14 limited purposes of this case, in conjunction with the actual cost of long-term 15 debt and the average capital structure, provides a reasonable approximation of 16 whether the Company's forward-looking ROE justifies an increase in customer 17 rates. This is further substantiated by Staff' calculated 9.468 ROE in Table 1. 18

¹⁷ Ibid/22 at 5.

¹⁸ Ibid/24.

¹⁹ Staff/202/, Gardner/2.

1	(See Scenario 3, col (5).) This ROE is lower than Staff's notional rate because	
2	parties stipulated to an incremental revenue requirement that is \$105,000 less	
3	than the actual \$405,000 of revenue requirement associated with the change in	ĺ
4	depreciation rates. Staff's calculation supports its belief the incremental	
5	revenue requirement will not result in the Company earning above Staff's 9.5	
6	percent notional ROE. Also, the \$300,000 of incremental revenue requirement	
7	represents an overall change of 0.54 percent in customer rates. Therefore,	
8	Staff supports the stipulation as it results in a change in rates that is just and	
9	reasonable for customers.	
10	Q. Did you ask the Company to do similar analysis but with Staff's	
11	estimate of the updated cost of debt?	
12	A. Yes. Staff's updated cost of debt value is 4.981 percent. From Staff	
13	witness Matt Muldoon, I understand from Staff's perspective, the difference	
14	is that the Company retained in the calculation of the cost of debt a debt	
15	issuance that matures in 2016, while Staff removed it consistent with long-	
16	standing Commission practice. The Company supports its calculated cost of	
17	debt of 5.214 percent. Whether the Company or Staff is correct with	
18	regards to the cost of debt is not material to the conclusion as to whether	
19	recovery of increases in depreciation is warranted. Under either case, there	
20	is support for recovery of \$300,000 in additional revenues as that level will	
21	not cause Idaho to exceed 9.5 percent ROE on a forward-looking basis.	

1		In addition to the change in cost of debt for the Staff analysis, there was							
2		one additional item that Staff requested the Company provide in the analysis							
3		below.							
4	Q.	What was	the additional i	ssue?					
5	A.	Staff aske	d the Company to	o identify the leve	el of increase in d	epreciation			
6		expense th	ne Company will	incur associated	with plant additio	ns post 2011.			
7		This is an	additional cost th	nat the Company	will absorb havin	g not requested			
8		recovery o	of that cost.						
9	Q.	What is th	ne increase in de	epreciation expe	ense?				
10	A.	The Comp	any calculated th	ne increase to the	e Oregon jurisdict	ional			
11		depreciatio	on expense to be	\$595,000. ²⁰					
12	Q.	What is th	e impact to RO	E using Staff's o	cost of debt valu	e of 4.981			
13		percent and including the revenue requirement effect of the							
14		depreciati	ion expense rela	ated to post 201	1 plant additions	s? ²¹			
15	A.	The impac	t is shown as Sce	nario 4 in Table 2	e below:				
16		Table 2							
		(1)	(2)	(3)	(5)	1			
		Scenario	ROE	ROE	ROE				
		Scenario	percentage	percentage	percentage				
			after TYPE I	after Type II	after Type II				
		4	6.245	6.751	9.233				
17		2.1	0.2.10			1			
18	Q.	What do y	ou conclude fro	om Table 2?					
19	A.	Table 2 illu	ustrates that with	the Staff cost of	debt and taking i	nto account the			
20		increase in depreciation expense associated with post 2011 plant additions,							

²⁰ Staff/203, Gardner/26. ²¹ Ibid at 27.

Staff/200 Gardner/14

the Company's earnings after Type II adjustments is well below 9.5 percent.
 These values exclude plant associated with Jim Bridger scrubbers that have
 not been recognized in rates in Oregon by this Commission. This table
 supports the stipulation terms for recovery of increased depreciation
 expense through an increase in revenues of \$300,000.
 Q. Does this conclude your testimony?

A. Yes.

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CASE: UM 1801 WITNESS: MARIANNE GARDNER

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 201

Staff Witness Qualifications Statement

May 15, 2017

Staff/201 Gardner/1

ITNESS QUALIFICATION STATEMENT

NAME: Marianne Gardner EMPLOYER: Public Utility Commission of Oregon TITLE: Senior Revenue Requirement Analyst Energy Rates, Finance and Audit Division ADDRESS: 201 High Street SE., Suite 100 Salem, OR. 97301 EDUCATION: Master of Business Administration Oregon State University, Corvallis, Oregon Bachelor of Science in Accounting Montana State University, Bozeman, Montana CPA, Oregon EXPERIENCE: I have been employed by the Public Utility Commission of Oregon since March 2013, with my current position being a Senior Revenue Requirement Analyst, in the Energy - Rates, Finance and Audit Division. My responsibilities include research, analysis, and recommendations on a range of cost, revenue and policy issues for electric and natural gas utilities. As the revenue requirement summary witness, I have provided testimony in dockets UE 263, UG 246, UE 283, UE 294, UG 284, UG 287, UG 288, and UG 305, I have approximately 20 years of professional accounting experience, including: Thirteen years as a cost accountant with responsibilities including cost accounting, budgeting, product costing, and the preparation of management reports; Four years experience in public accounting working in the areas of audit, tax and financial accounting for individual and small business clientele; and, Three years experience in non-profit accounting for an agency administrating funds under the Federal Job Training Partnership Act.

CASE: UM 1801 WITNESS: MARIANNE GARDNER

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 202

Exhibits in Support Of Testimony

May 15, 2017

Oregon Gardner/1

PUBLIC UTILITY COMMISSION

March 25, 1992

Anne Eakin Pacific Power & Light Co 920 SW 6th Ave Portland OR 97204

, Kelley Marold Portland General Electric Co 121 SW Salmon St Portland.OR 97204

Bruce Samson Northwest Natural Gas Co 220 NW 2nd Ave . Portland OR 97209 John Buergel Washington Water Power Co PO Box 3727 Spokane WA 99220

Jon Stoltz Cascade Natural Gas Corp PO Box 24464 Seattle WA 98124

J Ric Gale Idaho Power Co PO Box 70 Boise ID 83707

RE: Semiannual Adjusted Results of Operations Reports

My letter of February 17, 1989, outlined several principles for making adjustments to your semiannual results of operations reports. Based on our review of recent filings, I believe it would be useful to restate those principles along with the rationale behind them.

As you know, we have asked each energy company to file its semiannual report using a two-stage adjustment process. Each stage provides operating results which can be evaluated for a specific purpose.

Earnings Test Adjusted Results

The first stage takes into account certain normalizing and rate-making adjustments and results in "Earnings Test Adjusted" results of operations. The purpose of this stage is to produce an earnings picture that can be used to perform earnings

> Barbara Roberts Governor



350 Winter St. NE Salem, OR 97310-0335 (503) 378-5849 March 25, 1992 Page Two

tests required by ORS 757.259. Such tests are necessary for evaluating potential amortization of deferred costs and revenues. Accordingly, the operating results at this stage of the report should reflect as closely as possible the company's actual earnings for the reporting period and its ability to absorb a deferred cost or its need to retain deferred revenues.

Under current policy, therefore, the first stage of the report should include adjustments to actual recorded results as follows:

- Normalizing for weather, streamflows, and plant availability;
- Incorporating significant rate-making adjustments adopted in your most recent Oregon rate order if not reflected on your books (for example, advertising, memberships, payroll escalation, bonuses, and nonoperating expenses); and
- Removing entries relating to prior period activity, and including subsequent period transactions clearly related to the test period. Examples include corrections of estimates or errors, and removal of credits or charges associated with other periods.

To avoid confusion, refer to these as "Type I" adjustments, as shown in the attached tables.

No other adjustments should be made at this stage of the report. Common adjustments which have been misclassified here include annualizing revenues and expenses and removing entries related to nonrecurring events. Although such adjustments are reasonable when constructing a test year, for example, they distort the company's earnings position for deciding whether a deferred amount should be amortized.

Total Pro Forma Results

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The second stage of adjustments is intended to provide results of operations on a more forward-looking basis, by reflecting known and measurable changes occurring before the end of the 12-month period. These results help us to assess each company's current earnings situation and whether a rate change may be needed. The following "Type II" adjustments should be included in this stage of the report:

Staff/202 Gardner/3

March 25, 1992 Page Three

- Annualizing adjustments to reflect end-of-period customers, tariff rates, employee levels, wage rates, tax rates, supply contracts, rate base, etc.
- Restating adjustments to remove recorded entries related to significant nonrecurring events.

The most common error in this second stage has been to make adjustments for plant or expense changes occurring <u>after</u> the end of the recorded period. All "future" events--even if known and measurable--should be excluded from this report. (Note the exception above, however, for Type I adjustments to incorporate subsequently recorded error or estimate corrections.)

Workpapers

Each company should provide the following supporting documentation for its semiannual report:

- A table consisting of a columnar summary for the adjustments; with a total for both Types I and II. (Tables 2 and 3 of the attached sample illustrate some typical adjustments.) Also include in the same form the calculation of income taxes associated with each adjustment. (Not shown here)
- A short narrative description of each adjustment.
 (See attachment for sample; provide additional detail as needed.)
- Backup workpapers supporting actual recorded results by revenue, expense, income tax and rate base categories, tying Oregon allocated data to system data, if applicable. Note that the report is to be prepared showing Oregon allocated adjustments as well as summary data.
- Summary workpapers supporting each adjustment.
 - The information used to calculate the cost of capital and the implied rate of return on equity--that is, average actual capital structure (describe any other formulation) and average actual debt and preferred stock costs for the 12-month period. The appropriate data may be included with the summary table as shown or by reference to a separate workpaper.

March 25, 1992 Page Four

For companies with jurisdictional allocations, a summary of the allocation factors used and a description of any material changes in the method from the prior report.

Unless we hear from you otherwise, we will expect adjustments in subsequent semiannual reports to be classified according to the above criteria. Call me, Ed Busch (378-6625), or Ed Krantz (378-6117) if you have any questions regarding these reports.

J. Ray atta

T. Ray Dambeth Manager Energy Revenue Requirements (503) 378-6917

18/20/3718HH

Attachment

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cc: Mike Kane Bill Warren Phil Nyegaard Scott Girard Ed Busch Ed Krantz Les Margosian Imisc/w/\semirpt

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SAMPLE

NORTHWEST NATURAL GAS COMPANY Oregon Allocated Results of Operations Twelve Months Ending December 31, 199X (\$000)

,		TOTAL		TOTAL	12
			ARNINGS TEST	TYPE II	TOTAL
	12/31/9X	ADJUSTMENTS	ADJUSTED	ADJUSTMENTS	PRO FORMA
	ACTUAL	(t/Table 2, col.k)	RESULTS	(f/Table 3, col.k)	RESULTS
	(1)	(2)	(3)	. (4)	(5)
Operating Revenues			4001 500	47 7F0	4000 OF0
1 Sale of Gas	\$253,400 500	\$8,100 0	\$261,500 500	\$7,750 0	\$269,250 500
2 Oil & Incentive Gas Margin 3 Revenue & Technical Adj.	(1,500)	ŏ	(1,500)	ō	(1,500)
4 Transportation	30,400	· O	30,400	(1,350)	29,050
5 Miscellaneous Revenues	1,000	0	1,000	0	1,000
 Total Operating Revenues 	283,800	. 8,100	291,900	6,400	298,300
Operating Revenue Deductions		· · · · ·		•	
7 Gas Purchased .	111,300	3,300	114,600	6,070	120,670
 8 Uncollectible Accrual 9 Other Oper, & Maint, Exp. 	. 1,100 53,000	40 (3,520)	1,140	35 425	1,175 49,905
	165,400	(180)	165,220	6,530	171,750
o Total Oper. & Maint. Exp.	1001100	(1000 March 1000	4006 (315 - 11,57452)
Taxes	11500	0744	170//	(970)	16,274
11 Federal Income	14,500 4,100	2,744 2,076	17,244 6,176	(180)	5,996
3 Taxes Other than Income	20,800	19	20,819	1,432	22,251
4 Depreciation & Amortization	24,700	16	24,716	760	25,476
5 Total Oper. Revenue Deductions	229,500	4,675	234,175	7,572	241,747
6 Net Operating Revenues	\$54,300	\$3,425	\$57,725	(\$1,172)	\$56,553
	•			1	
Average Rate Base 17 Utility Plant in Service	\$636,600	(\$120)	\$636,480	\$18,500	\$654,980
18 Accumulated Depreciation	(174,200)	8	(174,192)	(380)	(174,572)
19 Net Utility Plant	462,400	. (112)	462,288	18,120	480,408
20 Customer Advances for Constr.	(100)	. 0	(100)	· 0	(100)
21 Average Materials & Supplies	18,600	0	18,600 2,500	0	18,600 2,500
22 Leasehold Improvements 23 Water Heater Program	2,500	0	900	0	900
23 Water Heater Program 24 Accum. Deferred Income Taxes	(22,300)		(22,300)	(296)	(22,596)
25 Total Rate Base	\$462,000	(\$112)	\$461,888	\$17,824	\$479,712
	41021000	<u>، بېر</u> ا		1 - 2 - 2 - 1 - 1	
26 Rate of Return	11.75%		12.50%	с а ^н а б	. 11.79%
27 Implied Return on Equity	13,80%		15.32%	(*)	13.88%
DOT OF CADITAL (Aussissa) for turble m	onthe onding:	12/31/9X			
DSTOF CAPITAL (Average) for twelve m		, IZ/JI/SA	WEIGHTED		
	% OF CAPITAL	COST	COST	5	
Long Term Del	card and a second second second		4 -		• 12
Preferred Stock	S		0,53%		
Common Equi			C. 2011. (1943. 2011. 1945.	2 B	
. TOTAL	100.00%		11,48%		
. IOTAL	100.007	,			

Type I: Normalizing adjustments for water, weather, plant availability; ratemaking adjustments; removing out-of-period.

Type II: In-period annualizing adjustments for significant revenue, expense and rate base elements;

removing nonrecurring entries.

NORTHWEST NATURAL GAS COMPANY Twelve Months Ending December 31, 199X Description of Adjustments

Type I Adjustments

(1a) Weather-Normalized Revenue & Gas Purchases

Adjusts revenues and purchased gas costs to the levels which would have been realized under normal system temperatures.

(1b) Income Taxes

Reflects the difference between the estimated income tax as booked and the actual tax liability calculated based on the actual results of operations for the period.

(1c) Interest Coordination Capital Structure

Adjusts income tax expense to reflect an appropriate regulatory interest deduction using Oregon allocated rate base multiplied by the company's current weighted cost of debt.

(1d) Payroll and Incentive Pay

Reduces non-union wages and salaries using the three-year wage formula model applied in the company's most recent rate case. Also reduces O&M expense to exclude, for ratemaking purposes: (a) bonuses paid to officers, and (b) one-half of actual payments under the company's general employee bonus program.

(1e) Advertising

Adjusts advertising expense to a level equal to .125% of authorized gross retail revenues, as specified in OAR 860-26-022 and adopted in the company's most recent general rate order, UG 81.

(1f) Corporate Communications

As adopted in UG 81, removes a portion of utility corporate communications department salary and overhead expense associated with nonutility operations.

(1g) Nonoperating

Removes expenses exceeding Commission ordered allowance of 75% of AGA and PCGA membership dues. For promotional activities, removes 50 percent of expenditures for trade shows and open houses as directed by the OPUC in UG 81.

(1h) Main & Service Extensions

As adopted in UG 81, adjusts rate base to reflect under recoveries of excess footage charges by the company.

(1i) Insurance Recovery

Removes the effect of insurance reimbursement for damage claim relating to a prior period. (i.e., removing an out-of-period entry)

(1j) Legal Fees

Adjustment to include refund of legal expense booked in subsequent period but related to activity in the current period.

*_____

NORTHWEST NATURAL GAS CO. Oregon Allocated TYPE I Adjustments Twelve Months Ending December 31, 199X (\$000)

Operating Revenues 1 Sale of Gas 2 Oil & Incentive Gas Margin 3 Revenue & Technical Adj. 4 Transportation 5 Miscellaneous Revenues	Weather- Normalized Revenue & Gas Purchases (1 a) \$8,100	Income Taxes (1b)	Interest Coord, <u>Cap. Str.</u> (1 c)	Payroll & Incentive Pay (1 d)	Advertising (1 e)	Corporate Commun. (11)	Nan Operating (1g)	Main & Service Extensions Adjustments (1 h)	Insurance <u>Recovery</u> (11)	Legal Fees (1))	TOTAL TYPE I ADJUSTMENTS (1k) \$8,100 0 0 0 0 0
6 Total Operating Revenues	8,100	0	0	0		Ø	O	0	•		8,100
Operating Revenue Deductions 7 Gas Purchased 8 Uncollectible Accrual	3,300 40		•	(1,300)	(950) (520)	(790)	14	·1i0	. (70)	3,300 40 (3,520)
9 Other O & M Expenses 10 Total O & M Expenses	3,340	0	0	(1,300)	(950		(790)		110	(70)	(180)
Taxes 11 Federal Income 12 State Excise 13 Taxes Other than Income	1,510 290 20	(490) 1,450	610 120	410 80	300 60		250 50	(3 (1 (1 16) (7))	22 4	2,744 2,076 19 15
14 Depreciation & Amort. 15 Total Oper. Rev. Ded.	5,160	960	730	(810)	(590) (320)	(490)	• . 11	68	(44)	4,675
15 Net Operating Revenues	2,940	(960)	(730)	810	590	320	490	(11) (68)	44	3,425
Average Rate Base 17 Utility Plant in Service 18 Accumulated Depreciation	• (a)				• *			. (120 8			. (120) 8
19 Net Utility Plant	. 0	0	. 0	0	. 0	0	0	(112) . 0	٥	(112)
20 Customer Adv. for Constr. 21 Ave. Materials & Supplies 22 Leasehold Improvements 23 Water Heater Program 24 Accum. Def. Income Taxes		• B.	.°			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					. 0 0 0 0 0
-	. \$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$112) \$0	\$0	(\$112)
25 Total Rate Base =	φ0						(in				

Staff/202 Gardner/7

NORTHWEST NATURAL GAS COMPANY Twelve Months Ending December 31, 199X Description of Adjustments

Type II Adjustments

(2a) Annualized Revenue & Gas Purchases

Adjusts revenues and purchased gas costs to reflect levels which would have occurred had current (year-end) rates and costs been in effect for the entire period.

(2b) Payroll Adjustment

Normalizes actual salaries and wages to reflect end-of-period wage levels and employee counts. (Note: This adjustment should not reverse the effect of adjustment 1d.)

(2c) Payroll Overhead

Adjusts health and life insurance costs for year-end employee counts and carrier per person rates. Includes retiree costs and offsets for member contributions. Also adjusts payroll taxes for year-end employee counts and for changes in taxing rates.

(2d) Postage Increase

Normalizes utility-related mailing expense for the change in postage rates which occurred during the period.

(2e) Early Retirement Program

Removes nonrecurring expense associated with one-time bonuses paid to employees participating in the company's early retirement program.

(2f) Property Taxes

Normalizes property taxes from an accrual for two separate tax years to an actual cash basis.

(2g) Year-End Customers & Rate Base

Adjusts revenues and associated expenses not accounted for separately to reflect end-of-period customer counts. Includes annualized loss of two major transportation customers to bypass during the period. Also adjusts rate base, depreciation expense, depreciation reserve and property tax expense to reflect end-of-period plant balances.

(Note: Must include year-end customer adjustment if year-end rate base adjustment made.)

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NORTHWEST NATURAL GAS CO. Oregon Allocated TYPE II Adjustments Twelve Months Ending December 31, 199X (\$000)

*						8.8		Year-End					TOTAL
•		Annualized				Early		8.50					TYPE II
		Revenue &	*	Payroll	Postage	Rethement	Property	Custamers/				ADJ	USTMENTS
		Gas Purch.	Payroll	Overhead	Increase	Program	Taxes	Rate Base	(01)	(21)	(2])		(2k)
		(2a)	(2b)	(2c)	(2ď)	(2e)	(2f)	(2g)	(2h)	(21)	(- 1)		
													\$7,750
Operating F								\$2,550				1	\$7,750 · O
1 Sale of G	ias	\$5,200	-										o
2 Oll & Inc	entive Gas Margin										1	1.12	(1,350)
	& Technical Adj.				2	•		(1,350)					O
4 Transpor 5 Miscellar	neous Revenues												6,400
		5,200	. 0	0	0	0	0	1,200					
a Total Op	perating Revenues	0,200											
	Descente Descuellant								×			•	5,070
	Revenue Deductions	5,050						1,020					35
	zible Accrual	25			• 00000			10 75					425
	& M Expenses		720	175	230	(775)							5,530
CARACTERISTICS		5,075	720	175	230	(775)	. 0	1,105					0,000
10 Total O	& M Expenses	0,010											
													(970)
Taxes 11 Federall	Income	. 40	(230)	(60)	(70) 250	(270						(180)
11 Federal 12 State Ex		10	(40)	(1 0)	(10	o) 50	(50		¥:				1,432
	ther than income			2			850	760					760
	tion & Amort.	*	% •			and the state of the					• .		7,572
and the state of the second	per, Rev. Ded.	5,125	450	107	150) (475)	530						(1,172)
10000000000000000000000000000000000000	ting Revenues	75	(450)	(107)	. (15)	0) 475	(530) (485)	-				
10 Mar Operat	THA HEADINGS												
_							•						18,500
Average R	ate Base lant in Service					÷		18,500					(380)
	lated Depreciation							(380)				-	10 1 20
1000		0	0	0		0 0	0	18,120	٠				18,120
19 Net Uti	Tity Plant .	Ű	U	5								1	0
20 Custom	er Adv. for Constr.												0
21 Ave. Ma	terlas & Supplies			51	w.								0
	old Improvements												(296)
23 Water H	leater Program							(296)					(230)
24 Accum.	Def. Income Taxes												A17 001
			\$0	\$0	\$	0 \$0	\$0	\$17,824				•	\$17,824
25 Total F	Rate Base	\$0	\$0	40	Ŷ		<u></u>				2		

Staff/202 Gardner/9

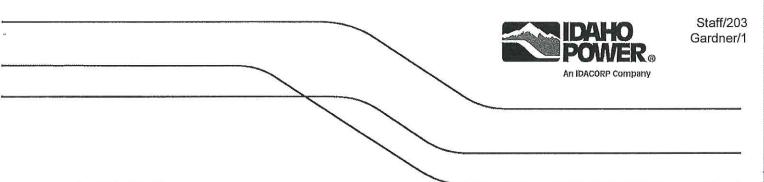
CASE: UM 1801 WITNESS: MARIANNE GARDNER

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 203

Exhibits in Support Of Testimony

May 15, 2017



April 17, 2017

Subject: Docket No. UE 316 – Recovery of Costs Associated with North Valmy Power Plant Idaho Power Company's Response to the Public Utility Commission of Oregon Staff's Data Request Nos. 66-79

STAFF'S DATA REQUEST NO. 66:

Referring to the Company's workpaper, "2016 Oregon Results of Operations Report.xlsx", tab "STMTOPS1", please:

- a. Add a column and provide the Oregon allocated amount for each Type I and Type II adjustment;
- b. Provide a narrative explanation for each Type I and II adjustment listed. In the narrative, please provide the rationale or basis for the adjustment and, where applicable, please cite the relevant OPUC order.
- c. Explain why the total interest synchronization expense is the total of the Type I and Type II adjustments.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 66:

- a. Please see the "Oregon1" tab in the "2016 Oregon Results of Operations Report.xlsx" file for the Oregon allocated Statement of Operations on an Actual, Type I and II basis.
- b. Please see the attached Excel file for a narrative explanation for each Type I and II adjustment listed.
- c. The total interest synchronization expense does not total the Type I and II adjustments. The total interest synchronization expense listed on the "STMTOPS1" is the sum of the Type I and II interest synchronization <u>adjustments</u>. The total interest synchronization expense can be found on page 96 of the 2016 Oregon Results of Operations ("ROO") workpapers.

IDAHO POWER COMPANY STATEMENT OF OPERATIONS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2016

OREGON - Adjusted

OPERATING REVENUE Adjustments <u>Type I Adjustments</u> Actual Adjustments:

Other Revenue - Account #415	4,054,219	<	Merchandising Revenue and Expense (Accounts 415 and 416, respectively) are below-the-line accounts for ratemaking purposes. As discussed on page 10 of ldaho Power Exhibit No. 802 in the Company's last general rate case, Docket No. UE 233, these accounts are related to Idaho Power Solutions, water management services, and joint pole use. These accounts are typically close to equal and offsetting, and are therefore excluded from earnings test calculations and rate case test year development.
DSM Rider Fund Removal	(33,754,061)	~ -	Demand-Side Management ("DSM") Rider revenues and expenses are effectively recorded and tracked through a balancing account. Therefore, these revenues and expenses are removed from adjusted runs of the Oregon report. (see line 32 below for the exact offsetting expense entry. The sum of these adjustments nets to zero).

Type II Adjustments

Revenue Normalization/Annualization		
Firm Energy - Retail	(98 482 867) <	Reflects an adjustment due to weather normalizing sales and applying rates in effect as of December 31 of the historical period to the entire year. These are standard rate case test year adjustments to remove the Impact of a single year of weather on a rate case filing. All general rate case filings reflect normalized retail revenues and annualized retail rates, and have been relied upon by the Commission as the basis for test year development.

(113,698,994)

APCU Filings since UE 195.

expenses.

Total Revenue Adjustments

OPERATING EXPENSES

OPERATION & MAINTENANCE

Type I Adjustments Actual Adjustments:

O&M - Account #416

DSM Rider Funds

Out of Period Adjustments

Account #557 Deferred Expenses

Reflects removal of out-of-period NPSE deferrals. This treatment is further 43,840,810 <--- detailed on page 2 of Staff's letter to Idaho Power dated March 2, 2011, provided as Exhibit No. 301 In this docket.

3,886,708 <-- Please see row 12 above for an explanation regarding Accounts 415 and 416. (33,754,061) <-- Please see row 13 above for an explanation of DSM rider revenues and

has been utilized and relied upon by the Commission in each of the Company's

ADJUSTMENT NARRATIVE

Commission-Ordered Adjustments;

Staff/203 Gardner/2

ATTACHMENT - RESPONSE TO STAFF'S DR 66

Staff/203
Gardner/3

CSPP at Oregon Rates	23,743,797	OPUC Order No. 85-010 requires CSPP contracts to be priced using a non- - levelized methodology. The adjustment brings actuals to non-levelized amounts. The adjustment also includes the removal of capacity payments.
Account 930.1	(582,063)	Adjustment to remove 100% of general advertising expenses consistent with < approved treatment in the Company's 2003 Idaho general rate case, IPC-E-03- 13. Consistent with treatment in all subsequent Oregon general rate case filings.
Account 930.2	322,484	Adjustment to remove 100 % of lobbying and charitable donations, and either 33% or 100% of memberships and dues expenses.
Employee Incentive Adjustment	(17,763,196)	Established in Order No. 12-055. Removes half of the employee target incentive — payout, plus all payout amounts above target, plus all executive incentive payments.
Type II Adjustments		
Normalizing Adjustments: Account #501 - Fuel Account #547 - Fuel Account #555 - Purchased Power	19,444,571	 Please see note in line 21 regarding NPSE normalization Please see row above. Please see row above. Net Power Supply Expense (NPSE) normalization. The Company's approved
Account #555 - CSPP	7,629,266	NPSE methodology is detailed in the stipulation approved by Order No. 08-238 in Docket No. UE 195, which esablished the Company's Annual Power Cost Update ("APCU"). To summarize this component of the stipulated methodology, the AURORA power supply model utilizes an average of all known historical water conditions to develop a normalized amount of NPSE. This methodology has been utilized and relied upon by the Commission in each of the Company's APCU Filings since UE 195.
Commission-Ordered Adjustments:		
Account 904 - Revenue Sensitive	(13,159)	Commission-ordered adjustment showing impact of the difference between normalized and actual revenues on Account 904 - Uncollectible Accounts.IN PROGRESS
Annualizing Adjustments:		
Operating Payroll	255,763	Standard rate case adjustment reflecting annualization of payroll. Similar to the < annualization of retail revenue, applies labor rates in effect as of December of the historical period to the entire historical vear.
Payroll Related Items	9,290	Similar annualization adjustment applied to Employee Savings Plan employer contributions.
Labor Taxes Transferred from Other Taxes	0	
Removal of #557 Amortization Expense	(38,510,643)	Reflects removal of out-of-period NPSE amortization. This treatment is further
Total O&M Adjustments	(71,751,584)	
DEPRECIATION		
Type Il Adjustments	2,024,648	< Standard rate case adjustment reflecting annualization of depreciation expense.

ATTACHMENT - RESPONSE TO STAFF'S DR 66

AMORTIZATION		
Type I Adjustments		
Actual Adj: Acct#411.8	49,267 ·	< Standard rate case adjustment reflecting the removal of Idaho Power's share of the gain associated with the sale of Clean Air Credits.
Type II Adjustments		
Annualizing Adjustment	(332,073)	< Standard rate case adjustment reflecting annualization of amortization expense.
Total Amortization Adjustments	(282,806)	
ACCRETION		
Type II Adjustments	٥	
TAXES OTHER THAN I/T		
Type Il Adjustments		
Normalized Irrigation KWH Taxes	465,242	Because this amount is based on kWh / revenues, when energy and revenues are normalized as detailed above, this item changes as well.
Normalized Imigation Refund	127,318	Please see row above.
Franchise Fees - Revenue Sensitive OPUC Fees - Revenue Sensitive		<- Please see row above. <- Please see row above.
Total Taxes Other Than 1/T Adjustments	542,390	Reflects an adjustment to normalize kWh taxes and irrigation rebates as of December 31 of the historical period to the entire year. These are standard rate case test year adjustments. Also includes the Commission ordered adjustment showing impact of the difference between normalized and actual revenues on Account 408 – Franchise Fees and State of Oregon Regulatory Commission Fees.
REGULATORY DEBITS/CREDITS		
Type I Adjustments	(1,075,354)	Removal of amortization associated with the Siemens Long-Term Program Contract deferrals approved with IPUC Order No. 33420.
INTEREST SYNHCRONIZATION EXPENSE		
<u>Type I Adjustments</u>	5,558,265	When rate base changes due to the adjustments listed above, the corresponding — level of interest expense changes as well. This adjustment is made to synchronize interest expense with final as-adjusted rate base amounts.
Type II Adjustments	(109,495)	< Please see row above.
Total Interest Synchronization Expense	5,448,770	

Staff/203 Gardner/4

STAFF'S DATA REQUEST NO. 67:

Referring to the OREOM1, Removal of Advertising Expenses, please provide supporting details that demonstrate the Company has properly categorized advertising expenses as Category A, B, C, and D and removed the proper amounts consistent with Commission policy. Additionally, please explain why the adjustment to account 930.2 is an increase to expense rather than a decrease.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 67:

As can be seen on the JSS – PF tab, Idaho Power Company ("Idaho Power" or "Company") has removed 100 percent of the Account 930.1 – Advertising Expenses balance. The adjustment to Account 930.2 was entered incorrectly and should be a decrease to the Account 930.2 balance. If the above error is corrected in the ROO, the Type I Return on Equity ("ROE") would increase from 7.075 percent to 7.100 percent, still below the Company's current authorized ROE.

STAFF'S DATA REQUEST NO. 68:

Referring to Idaho Power/302, Larkin/1, has the Company removed the following costs as Type I adjustments:

- a. 100 percent of costs related to lobbying or charitable donations. Please provide the amount and supporting details of the adjustment. If no adjustment was required, please explain; and,
- b. 100 percent of memberships and dues expense excluding payments to industry research organizations and national and regional industry trade organization. Please provide the amount and supporting details of the adjustment. If no adjustment was required, please explain.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 68:

- a. Yes. Idaho Power has identified \$322,484 in expenses associated with lobbying, charitable donations, memberships, and dues expenses that should be excluded from Account 930.2 and removed as a Type I adjustment. Please see pages 71-72 of the workpapers filed as part of the Company's ROO for supporting details.
- b. Yes. Please see the response to a. above.

STAFF'S DATA REQUEST NO. 69:

Please explain whether any Valmy-related costs requested to be included as set forth in the UE 316 filing are also included in the Company's 2016 Oregon ROO.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 69:

A portion of the Valmy-related costs requested in UE 316 are included in Idaho Power's ROO as the ROO includes Valmy-related costs through December 31, 2016.

STAFF'S DATA REQUEST NO. 70:

Please explain whether the Company made any major rate base adjustments for the 2016 Oregon ROO.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 70:

The only major rate base adjustment made was the Type I adjustment of \$28,650,771 to Account 151, Fuel Inventory, to reduce the fuel inventory balance to allowed inventory levels. Please see Section C (pages 45-57) of the ROO for the development of the rate base components.

STAFF'S DATA REQUEST NO. 71:

Please explain whether in the Company's 2016 Oregon ROO the Company removed accounting entries related to prior period activities.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 71:

As detailed in Exhibit 301, Type I adjustments remove all out-of-period transactions, including the current reporting year's power cost deferral amounts, if any exist, to reflect expenses for the period in which they are recognized. Please see page 29 of the ROO for a summary of all Oregon-allocated Type I adjustments.

STAFF'S DATA REQUEST NO. 72:

Please explain if any subsequent period transactions that clearly relate to the 2016 year have been included in the 2016 Oregon ROO.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 72:

All known transactions related to 2016 have been included in the ROO.

STAFF'S DATA REQUEST NO. 73:

Please provide the calculation of the interest synchronization and the related income tax calculation and adjustment.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 73:

Please see the attached Excel spreadsheet for the calculation of the interest synchronization presented on page 96 of the ROO workpapers. Please note, the interest synchronization calculation can be a circular process depending on any tax adjustments. Because adjustments to accumulated deferred income taxes can affect rate base, final adjusted rate base amounts in the ROO may not tie to initial rate base levels contained in this spreadsheet.

ATTACHMENT - RESPONSE TO STAFF'S DR 73

Staff/203 Gardner/12

IDAHO POWER COMPANY Interest Synchronization For the Historical Year Ended December 31, 2016

LINE NO.	DESCRIPTION	<u>ADJUSTED -</u> <u>TYPE I</u>	<u>ADJUSTED -</u> <u>TYPE I & II</u>
1	Total Company Rate Base	3,163,968,898	3,159,464,761
2	Adjustments to Rate Base: Construction Work-in-Progress	435,978,988	435,978,988
3	Adjusted Rate Base	3,599,947,886	3,595,443,749
4	Company Weighted Cost of Debt	2.431%	2.431%
5	Synchronized Interest Expense	87,514,733	87,405,238

STAFF'S DATA REQUEST NO. 74:

Referring to Idaho Power/300, Larkin/2 at 11- 21 and Exhibit 301, does the inclusion of this exhibit imply that Idaho Power is requesting recovery of costs only up to 100 basis points of its currently authorized 9.9 percent return on equity?

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 74:

No. Exhibit 301 was provided as a basis for the methodology behind Idaho Power's Type I and II adjustments. The letter was a result of Staff's review of the ROO in the Company's Power Cost Adjustment Mechanism ("PCAM") docket (UE 195) and was prepared to document the agreement made between Idaho Power and Commission Staff with respect to Type I and II adjustments made in the ROO. The reference to earnings within 100 basis points of Idaho Power's authorized ROE is pursuant to Order No. 08-238, the methodology for determining PCAM true-up amounts approved for subsequent recovery or refund.

STAFF'S DATA REQUEST NO. 75:

If Idaho Power Company used the UE 233 capital structure (50.1 LTD, 49.9 CE) what would be the 2016 effective ROE and ROR: 1) after the Type I adjustments; 2) after Type I and Type II adjustments.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 75:

Please see the attached Excel file for the 2016 effective ROE and Rate of Return using the UE 233 docket capital structure. Please note, the attached Excel file includes a correction for the error identified in the Company's Response to Staff's Data Request No. 67.

STAFF'S DATA REQUEST NO. 76:

If Idaho Power Company used the updated cost of long-term debt the Company prepared in response to Staff DR No. 23 and the UE 233 capital structure, what would be the 2016 effective ROE and ROR: 1) after the Type I adjustments; 2) after Type I and Type II adjustments.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 76:

Idaho Power objects to this request because the information it seeks is not relevant or designed to lead to relevant evidence. The requested analysis would yield an invalid result because it creates a mismatch between capital structure and cost of capital which are interrelated.

STAFF'S DATA REQUEST NO. 77:

What was the average equity capital over calendar year 2016? Please provide supporting workpapers in Excel.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 77:

The following summarizes the average equity capital over the calendar year 2016 based on Idaho Power's consolidated balance sheets published in its quarterly reports on Form 10-Q and Annual Report on Form 10-K:

	Q1 2016 (000s)	Q2 2016 (000s)	Q3 2016 (000s)	Q4 2016 (000s)	AVG (000s)
Common at par	97,877	97,877	97,877	97,877	
Premium less expense	710,161	710,161	710,161	710,161	
Accumulated other comprehensive income	(20,712)	(20,149)	(19,586)	(20,882)	
Retained earnings	1,127,095	1,156,138	1,210,430	1,211,547	
Total common equity	1,914,421	1,944,027	1,998,882	1,998,703	1,964,008

Staff/203 Gardner/17

STAFF'S DATA REQUEST NO. 78:

Referring to Idaho Power/302, Larkin/1, is the actual capital structure reflecting that as of December 31, 2016?

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 78:

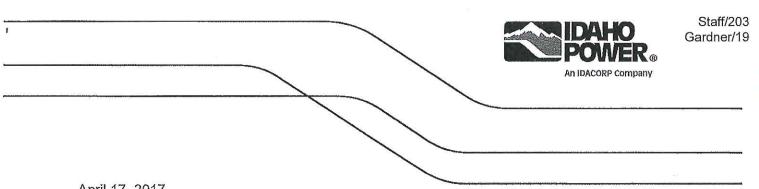
Yes.

STAFF'S DATA REQUEST NO. 79:

For purposes in Idaho, below what equity return is Idaho Power allowed to track additional costs in rates? For example, is it 9.5 percent ROE? Please provide a copy the Idaho PUC order that establishes this threshold.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 79:

Idaho Power does not have an approved mechanism that allows the Company to track additional costs in rates should Idaho Power's ROE fall below a certain threshold. The Company does however have a regulatory mechanism in its Idaho jurisdiction that includes provisions for the accelerated amortization of certain tax credits to help achieve a minimum 9.5 percent Idaho jurisdictional ROE on year-end equity. This mechanism also includes a provision that requires the Company to share earnings above a 10 percent Idaho jurisdictional ROE. The Company retains earnings between a 9.5 percent Idaho jurisdictional ROE and a 10 percent Idaho jurisdictional ROE. Please see the attached IPUC Order No. 33149 for details regarding the mechanism.



April 17, 2017

Subject: Docket No. UE 316 – Recovery of Costs Associated with North Valmy Power Plant Idaho Power Company's Response to the Public Utility Commission of Oregon Staff's Data Request Nos. 80-81

STAFF'S DATA REQUEST NO. 80:

If Idaho Power Company used the updated cost of long-term debt the Company prepared in response to Staff DR No. 23, 9.5 percent cost of equity, and the capital structure of 50.10 percent long term debt and 49.90 percent common equity, what would be the 2016 effective ROE and ROR: 1) after the Type I adjustments; and 2) after Type I and Type II adjustments respectively.

Note that this notional ROE is restricted to analysis herein.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 80:

Idaho Power objects to this request because the information it seeks is not relevant or designed to lead to relevant evidence. The requested analysis would yield an invalid result because it creates a mismatch between capital structure and cost of capital which are interrelated.

STAFF'S DATA REQUEST NO. 81:

Does the Company's Oregon 2016 Results of Operations include any one-time charges in excess of \$500,000? If so, for each one-time charge, please identify the amounts and the reason/cause of the one-time charge.

IDAHO POWER COMPANY'S RESPONSE TO STAFF'S DATA REQUEST NO. 81:

As clarified in discussions with Public Utility of Oregon Staff on April 13, 2017, the request is to provide the one-time, out-of-period adjustments, made in excess of \$500,000. Idaho Power made a single, one-time out-of-period adjustment of \$43,840,810 in the 2016 Results of Operations ("ROO") associated with the 2016 Idaho jurisdictional power supply expense deferral. Please see a summary of the other Oregon allocated Type I adjustments on page 29 of the 2016 ROO. Please note this adjustment is Idaho-specific and has no impact on results in the Company's Oregon jurisdiction.

GARDNER Marianne

Staff/203 Gardner/21

From:	White, Tami <twhite@idahopower.com></twhite@idahopower.com>
Sent:	Tuesday, April 25, 2017 4:55 PM
To:	HELLMAN Marc
Cc:	'Moser Sommer'; Weirich Michael; GIBBENS Scott; GARDNER Marianne; Tatum, Tim;
	Waites, Courtney
Subject:	FW: supplement to data request
Attachments:	Email DR 1_Cap Structure_Avg.xlsx; Email DR 6_Allocation of Expense and Reserve.xlsx;
	Email DR 7_IPC2015-ASLREMLIFE_OR Settlement_Bridger 2025.xlsx; Email DR 8_Rate
	spread.xlsx

Hello Marc,

Per our conversation this afternoon, below and attached please responses to your supplemental data request dated April 20, 2017 and received via email. As we discussed, we expect to follow-up with the answers to 3. and 4. by this Friday. Thanks,

Tami

Iann

Tami White MANAGER, REVENUE REQUIREMENT Idaho Power | Regulatory Affairs

1221 W. Idaho St. | Boise, ID | 83702

Work 208-388-6938 Fax 208-388-6449

Email twhite@idahopower.com

From: HELLMAN Marc [mailto:marc.hellman@state.or.us]
Sent: Thursday, April 20, 2017 12:29 PM
To: Tatum, Tim
Cc: Bob Jenks (Bob@oregoncub.org); WEIRICH Michael; MOSER Sommer
Subject: [EXTERNAL] FW: supplement to data request

Here is the information I am requesting:

1. Type 1 and Type 2 results, including ROE, for 2016 assuming actual average capital structure and updated cost of debt.

Please see the attached Excel file titled Email DR 1_Cap Structure_Avg.

2. Increase in depreciation, so increase in 2016 depreciation expense, above 12/31/2011 plant balances. Expressed in both expense and revenue requirement.

The proposed depreciation rates, when applied to 12/31/2015, would result in depreciation expense of approximate§taff/203 \$131.3 million on a total system basis, or approximately \$15.7 million more than what's currently included in custof and ner/22 rates. The Oregon jurisdictional share of the increase in depreciation expense is approximately \$568k. The proposed depreciation rates, when applied to 12/31/2011 plant balances, would result in an increase in the Oregon jurisdictional depreciation expense of \$343,041 and an increase in the Oregon jurisdictional revenue requirement of \$404,887.

- Type 1 and Type 2 results, including ROE, for 2016 assuming actual average capital structure, updated cost of debt excluding revenue requirement effects of new Bridger SCRs that was included in request (1) above.
- 4. Increase in depreciation, so increase in 2016 depreciation expense, above 12/31/2011 plant balances, excluding depreciation expense associated with new Bridger SCRs that was included in request (2) above. Expressed in both expense and revenue requirement.
- 5. Change in revenue requirement associated with a change in 100 basis points ROE

A change in the Oregon jurisdictional revenue requirement of approximately \$114k would result in a change in the ROE of 100 basis points.

Other things to consider including

6. Oregon composite allocation factor used to develop depreciation expense amounts

Please see the attached Excel file titled Email DR 6_Allocation of Expense and Reserve.

7. A third table that combines the change in depreciation rates as well as the different life of Bridger.

Please see the attached Excel file titled Email DR 7_IPC2015-ASLREMLIFE_OR Settlement_Bridger 2025

8. We will need rate spread table and estimate of change in monthly bill for a typical residential customer.

Please see the attached Excel file titled Email DR 8_Rate Spread for the rate spread table. The agreed upon settlement proposal of a change in the Oregon jurisdictional revenue requirement of \$300,000 would increase the average Residential customer, using 1,175 kWh, approximately \$0.60 or 0.52%.

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Please give me a call if any request is unexpected from our call or unclear

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IDAHO POWER COMPANY STATEMENT OF OPERATIONS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2016

OPUC JURISDICTION

DESCRIPTION	ACTUAL ALLOCATION	TYPE I ADJUSTMENTS	ADJUSTED TOTAL - TYPE I	TYPE II ADJUSTMENTS	ADJUSTED TOTAL - TYPE I & II
OPERATING REVENUES					
Retail Sales Revenues	53,271,854	0	52 071 954	(2 222 242)	10 000 000
Sales for Resale	03,271,034	0	53,271,854 0	(3,289,846)	49,982,008
Opportunity Sales	1,176,057	0		0	0
Other Operating Revenues			1,176,057	661,656	1,837,713
Total Operating Revenue	4,613,177	(2,273,242)	2,339,934	(16,439)	2,323,495
Total Operating Revenue	59,061,088	(2,273,242)	56,787,845	(2,644,629)	54,143,216
OPERATING EXPENSES					
Operation & Maintenance Expense	42,151,872	(2,284,495)	39,867,377	(5.191,939)	34,675,438
Depreciation Expense	5,936,079	0	5,936,079	42.876	5,978,954
Amortization Expense	285,073	2,128	287,200	(16,698)	270,503
Accretion Expense	10,127	2,120	10,127	(10,030)	10,127
Taxes Other Than Income Taxes	2,317,483	Ď	2,317,483	(37,732)	
Regulatory Debits/Credits	167,068	Ŭ Ŭ	167,068	(37,732)	2,279,751
Provision for Deferred Income Taxes	1,299,323	154,248	1,453,571	51,395	167,068
Investment Tax Credit Adjustment	13,172	154,248			1,504,966
Federal Income Tax		(254,045)	13,172	(100)	13,072
State Income Taxes	(989,650) 12,686		(1,243,695)	783,130	(460,565)
Total Operating Expenses		(222,562)	(209,875)	136,115	(73,761)
Total Operating Expenses	51,203,233	(2,604,727)	48,598,507	(4,232,952)	44,365,554
OPERATING NET INCOME	7,857,855	331,484	8,189,339	1,588,323	9,777,661
Add: IERCO Operating Income	372,976	0	372,976	(2,850)	370,126
CONSOLIDATED OPERATING INCOME	8,230,830	331,484	8,562,314	1,585,473	10,147,787
RATE OF RETURN EARNED	5.917%		6.221%		7.440%
IMPLIED RETURN ON EQUITY	6.550%		7.129%		9.447%
COST OF CAPITAL - DEC 31, 2016	ACTUAL STRUCTURE	EMBEDDED COST	WEIGHTED COST		
Long Term Debt	47,409%	5,214%	2.472%		
Preferred Stock	0.000%	0.000%	0.000%		
Common Equity	52,591%	9.900%			
Common Equity	52.591%	9.900%	5.207%		
Total	100.000%	2	7.678%		

Email DR 1_Cap Structure_Avg (2)

GARDNER Marianne

Staff/203 Gardner/24

From: Sent: To: Cc: Subject: Attachments:	White, Tami <twhite@idahopower.com> Friday, May 5, 2017 2:11 PM GARDNER Marianne HELLMAN Marc; Weirich Michael; 'Moser Sommer'; MULDOON Matt; GIBBENS Scott; Waites, Courtney; Tatum, Tim supplement to data request Email DR 3_Earnings Test less SCRs.xlsx; Email DR 4_Earnings Test less SCRs_Plus New Depr Exp.xlsx</twhite@idahopower.com>
Importance:	High
Follow Up Flag: Flag Status:	Follow up Flagged

Hi Marianne,

Below and attached please find the answers to questions 3 and 4. Please note that we are also providing a corrected answer to question 5 because when we responded previously on 4/25/17 we had incorrectly answered this question in regards to a **10** basis point change in the ROE (which would be approximately \$114K) instead of a **100** basis point change in the ROE (which would be approximately \$1.3 million). I apologize for the error. Please let me know if you have any questions or need anything else from us.

Thanks, Tami

Tami White MANAGER, REVENUE REQUIREMENT Idaho Power | Regulatory Affairs

1221 W. Idaho St. | Boise, ID | 83702

Work 208-388-6938 Fax 208-388-6449

Email twhite@idahopower.com

 Type 1 and Type 2 results, including ROE, for 2016 assuming actual average capital structure, updated cost of debt excluding revenue requirement effects of new Bridger SCRs that was included in request (1).

Please see the attached Excel file titled Email DR 3_Earnings Test less SCRs.

 Increase in depreciation, so increase in 2016 depreciation expense, above 12/31/2011 plant balances, excluding depreciation expense associated with new Bridger SCRs that was included in request (2). Expressed in both expense and revenue requirement.

IDAHO POWER COMPANY STATEMENT OF OPERATIONS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2016

OPUC JURISDICTION

DESCRIPTION	ACTUAL ALLOCATION	TYPE I ADJUSTMENTS	ADJUSTED TOTAL - TYPE 1	TYPE II ADJUSTMENTS	ADJUSTED TOTAL - TYPE &]
OPERATING REVENUES					
Retail Sales Revenues	53,271,854	0	50 074 054	10 000 0 (0)	
Sales for Resale	53,271,654	0	53,271,854	(3,289,846)	49,982,008
Opportunity Sales			0	0	0
Other Operating Revenues	1,176,057	0	1,176,057	661,656	1,837,713
Total Operating Revenue	4,613,177	(2,273,242)	2,339,934	(16,439)	2,323,495
Total Operating Revenue	59,061,088	(2,273,242)	56,787,845	(2,644,629)	54,143,216
OPERATING EXPENSES					
Operation & Maintenance Expense	42,151,872	(2,254,951)	39,896,921	(5,192,073)	34,704,848
Depreciation Expense	5,936,079	(1,101,001)	5,936,079	9,295	5,945,374
Amortization Expense	285,073	2,128	287,200	(16,694)	
Accretion Expense	10,127	2, 120	10,127	(10,694)	270,506
Taxes Other Than Income Taxes	2,317,483	0			10,127
Regulatory Debits/Credits	167,068	0	2,317,483	(37,730)	2,279,753
Provision for Deferred Income Taxes	1,299,323	154.007	167,068	0	167,068
Investment Tax Credit Adjustment	13,172	154,007	1,453,330	(431,895)	1,021,435
Federal Income Tax		U C	13,172	(99)	13,072
State Income Taxes	(989,650)	(263,445)	(1,253,095)	1,337,073	83,978
	12,686	(224,022)	(211,335)	137,820	(73,516)
Total Operating Expenses	51,203,233	(2,586,284)	48,616,949	(4,194,303)	44,422,646
OPERATING NET INCOME	7,857,855	313,042	8,170,896	1,549,674	9,720,570
Add: IERCO Operating Income	372,976	0	372,976	(2,850)	370,126
CONSOLIDATED OPERATING INCOME	8,230,830	313,042	8,543,872	1,546,824	10,090,696
RATE OF RETURN EARNED	E 0470/				
RATE OF RETURN EARNED	5.917%		6.207%		7.494%
IMPLIED RETURN ON EQUITY	6.550%		7.103%		9.549%
				- 0	
COST OF CAPITAL - DEC 31, 2016	ACTUAL STRUCTURE	EMBEDDED COST	WEIGHTED COST		
Long Term Debt	47,409%	5.214%	0 (704)		
Preferred Stock	0.000%	5.214%	2.472%		
Common Equity			0.000%		
Common Equity	52.591%	9.900%	5.207%		
Total	100.000%		7.678%		

Email DR 3_Earnings Test less SCRs (3)

10

IDAHO POWER COMPANY STATEMENT OF OPERATIONS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2016

OPUC JURISDICTION

DESCRIPTION	ACTUAL ALLOCATION	TYPE I ADJUSTMENTS	ADJUSTED TOTAL - TYPE I	TYPE II ADJUSTMENTS	ADJUSTED TOTAL - TYPE I & II
OPERATING REVENUES					
Retail Sales Revenues	53,271,854	0	53,271,854	(3,289,846)	10 082 003
Sales for Resale	00,211,004	õ	00,271,004	(3,209,046)	49,982,008
Opportunity Sales	1,176,057	0	1,176,057	661,656	0
Other Operating Revenues	4,613,177	(2,273,242)	2,339,934	(16,439)	1,837,713
Total Operating Revenue	59,061,088	(2,273,242)	56,787,845	(2,644,629)	2,323,495 54,143,216
OPERATING EXPENSES					
Operation & Maintenance Expense	42,151,872	(2,254,951)	39,896,921	(5,192,073)	34 704 949
Depreciation Expense	6,530,979	(2,204,007)	6,530,979	9,283	34,704,848
Amortization Expense	285,073	2.128	287,200	(16,694)	6,540,262
Accretion Expense	10,127	2, 120	10,127	(10,094)	270,506
Taxes Other Than Income Taxes	2,317,483	0	2,317,483	(37,730)	10,127
Regulatory Debits/Credits	167,068	, o	167,068	(37,730)	2,279,753
Provision for Deferred Income Taxes	1,296,913	156,251	1,453,164	(425,415)	167,068
Investment Tax Credit Adjustment	13,172	000,201	13,172		1,027,749
Federal Income Tax	(1,177,900)	(270,500)	(1,448,400)	(99) 1,344,599	13,072
State Income Taxes	(14,889)	(188,849)	(203,738)	88,931	(103,801)
Total Operating Expenses	51,579,898	(2,555,923)	49,023,976	(4,229,198)	(114,808) 44,794,778
	N 450 - 1897-189 189	• • • •		(1,440),100)	
OPERATING NET INCOME	7,481,190	282,680	7,763,870	1,584,568	9,348,438
Add: IERCO Operating Income	372,976	0	372,976	(2,850)	370,126
CONSOLIDATED OPERATING INCOME	7,854,165	282,680	8,136,845	1,581,719	9,718,564
RATE OF RETURN EARNED	5.646%		5.912%		7.217%
IMPLIED RETURN ON EQUITY	6.035%		6.541%		9.023%
COST OF CAPITAL - DEC 31, 2016	ACTUAL STRUCTURE	EMBEDDED COST	WEIGHTED COST		
Long Term Debt	47.409%	5,214%	2.472%		
Preferred Stock	0.000%	0.000%	0.000%		
Common Equity	52,591%	9,900%	5.207%		
	02.00170	0.00070	0.20170		
Total	100.000%		7.678%		

Email DR 4_Earnings Test less SCRs_Plus New Depr Exp (3)

GARDNER Marianne

From:	White, Tami <twhite@idahopower.com></twhite@idahopower.com>
Sent:	Monday, May 15, 2017 10:37 AM
То:	MULDOON Matt; GARDNER Marianne
Subject:	FW: Additional UM 1801 Questions
Attachments:	REVISED Email DR 4_Earnings Test less SCRs_Plus New Depr Exp_Updated LTxlsx

Hi Matt,

I got your message. I had sent this to Marc earlier today. I believe this is the run you guys need, but please take a look and let me know if there is anything else you need from us in order to complete your testimony. Thanks,

Tami

From: White, Tami Sent: Monday, May 15, 2017 10:25 AM To: 'HELLMAN Marc' Cc: Waites, Courtney; Tatum, Tim Subject: RE: Additional UM 1801 Questions

Hi Marc,

Attached please find an updated response to your follow up data request number 4 using Staff's updated cost of debt number of 4.981%.

In this run you had asked for the Type 1 and Type 2 results, including ROE, for 2016 assuming actual average capital structure, updated cost of debt excluding the revenue requirement effects of new Bridger SCRs and including the increase in 2016 depreciation expense above 12/31/2011 plant balance, excluding depreciation expense associated with the new Bridger SCRs. In this run we are using Staff's updated cost of debt number of 4.981%.

The proposed depreciation rates, when applied to 12/31/2016 plant, excluding depreciation expense associated with the new Bridger SCRs, would result in depreciation expense of approximately \$132.0 million on a total system basis, or approximately \$16.5 million more than what's currently included in customer rates. The Oregon jurisdictional share of the increase in depreciation expense is approximately \$595k.

I would like to note that the Company believes the correct cost of long-term debt number to use is 5.214%. The debt issuance you are referring to was redeemed in April of 2016 and was not included in Idaho Power's 2016 cost of long-term debt calculation.

I am looking at our Response to Staff's DR 23 that had a note about the debt issuance that was redeemed in April of 2016 and Staff's calculated 4.981% end of test period cost of LT debt. The difference between our 5.214% and Staff's 4.981% is not due to the removal of the debt issuance that was redeemed in April of 2016 but rather is due to a difference in the calculation that Staff used.

Staff/203 Gardner/28

IDAHO POWER COMPANY STATEMENT OF OPERATIONS FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2016

OPUC JURISDICTION

DESCRIPTION	ACTUAL ALLOCATION	TYPE I ADJUSTMENTS	ADJUSTED TOTAL - TYPE I	TYPE II ADJUSTMENTS	ADJUSTED TOTAL - TYPE I & II
OPERATING REVENUES					
Retail Sales Revenues	53,271,854	0	53,271,854	(3,289,846)	49,982,008
Sales for Resale	00,211,004	õ	00,211,004	(0,200,040)	49,982,008
Opportunity Sales	1,176,057	0	1,176,057	661.656	1 007 710
Other Operating Revenues	4,613,177	(2,273,242)	2,339,934		1,837,713
Total Operating Revenue	59,061,088	(2,273,242)	56,787,845	(16,439)	2,323,495
	29,001,000	(2,213,242)	30,707,045	(2,644,629)	54,143,216
OPERATING EXPENSES	¥				
Operation & Maintenance Expense	42,151,872	(2,254,951)	39,896,921	(5,192,073)	34,704,848
Depreciation Expense	6,530,979	(2,204,001)	6,530,979	9.283	
Amortization Expense	285,073	2,128	287,200		6,540,262
Accretion Expense	10,127	2010 • 10 00 0 T		(16,694)	270,506
Taxes Other Than Income Taxes		0	10,127	0	10,127
	2,317,483	0	2,317,483	(37,730)	2,279,753
Regulatory Debits/Credits	167,068	0	167,068	0	167,068
Provision for Deferred Income Taxes	1,296,913	156,251	1,453,164	(425,415)	1,027,749
Investment Tax Credit Adjustment	13,172	0	13,172	(99)	13,072
Federal Income Tax	(1,177,900)	(270,500)	(1,448,400)	1,344,599	(103,801)
State Income Taxes	(14,889)	(188,849)	(203,738)	88,931	(114,808)
Total Operating Expenses	51,579,898	(2,555,923)	49,023,976	(4,229,198)	44,794,778
OPERATING NET INCOME	7,481,190	282,680	7,763,870	1,584,568	9,348,438
Add: IERCO Operating Income	372,976	0	372,976	(2,850)	370,126
CONSOLIDATED OPERATING INCOME	7,854,165	282,680	8,136,845	1,581,719	9,718,564
RATE OF RETURN EARNED	5.646%		5.912%		7.217%
IMPLIED RETURN ON EQUITY	6.245%		6.751%		9.233%
COST OF CAPITAL - DEC 31, 2016	ACTUAL STRUCTURE	EMBEDDED COST	WEIGHTED COST		
Long Term Debt	47,409%	4,981%	2.361%		
Preferred Stock	0.000%	0.000%	0.000%		
Common Equity	52,591%	9,900%	5.207%		
Common Equity	52,59176	3.30070	J.20176		
Total	100.000%		7.568%		

CASE: UM 1801 WITNESS: MATT MULDOON

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 300 Abbreviated Cost of Capital Update

Testimony in Support of Stipulation

May 15, 2017

1	Q.	Please state your name, occupation, and business address.
2	A.	My name is Matt Muldoon. I am a Senior Economist for the Public Utility
3		Commission of Oregon (Commission or OPUC). My business address is
4	3.	201 High Street SE, Suite 100, Salem, OR 97301.
5	Q.	Please describe your educational background and work experience.
6	A.	My educational and work experience are set forth in Staff Exhibit 301.
7	Q.	What is the purpose of your testimony?
8	A.	The general purpose of my testimony is to provide support for the settlement
9		reached in this proceeding. More specifically, my testimony discusses three
10		issues related to Staff's review of Idaho Power's earnings in docket UM 1801.
11	.	The overall methodology for Staff's earnings review is described in Staff
12		Witness Marianne Gardner's testimony (Staff/200). Specifically, my testimony
13		addresses the following inputs for Staff's review of Idaho Power's earnings:
14		Cost of Capital (CoC):
15		1. Capital Structure;
16		2. Cost of Common Equity (CE), also known as Return on Equity (ROE);
17		and
18		3. Cost of Long-Term (LT) Debt.
19	Q.	Please describe how your issues fit within Staff's earnings review for
20		the revenue requirement effect of the change in book depreciation
21		rates settled in this case.
22	A.	My recommendations herein in support of Staff's narrowly-focused settlement
23		position in this case. CoC components and overall Rate of Return (ROR)

	0	
1		were last set by Commission Order No. 12-055 in Idaho Power's most recent
2		general rate case, Docket No. UE 233.
3		For purposes of settlement in this case, I examined Idaho Power's
4		Capital Structure and Cost of Long Term (LT) Debt. I analyzed the
5		Company's financial conditions in 2016, developed a lower bound for a
6		reasonable ROE informed by the Idaho Commission's processes, and
7		updated both cost of long-term debt and Company's capital structure to actual
8		2016 values.
9	Q.	What were your summary findings for discrete components of CoC
10		for the limited purposes of Staff's earnings review in this case?
11	A.	I conclude that a Capital Structure of 52.1 percent Equity and 47.9 percent LT
12		Debt represents the Company's actual 2016 experience with a lower ROE
13		bound of 9.5 percent, and an actual 2016 Cost of LT Debt of 4.981 percent.
14	Q.	What Rate of Return (ROR) do the above values represent?
15	A.	They generate an overall required ROR of 7.335 percent.
16	Q.	Did you prepare tables showing current Commission authorized Cost
17		of Capital values and Staff's inputs in this case?
18	A.	Yes, the following two tables provide that information.
	1	

Staff/300 Muldoon/3

Table 1

IPC Curre (UE 233	Last		
Component	Percent of Total	Stipulated or Implied Cost	Weighted Average
Long Term Debt	50.10%	5.623%	2.817%
Preferred Stock	0.00%	0.00%	0.000%
Common Stock	49.90%	9.90%	4.940%
	100.00%		7.757%

Table 2

Staff Proposed	– UM 1801 Joint Testimony in Sup		pport	
Component	Percent of Total	Cost	Weighted Average	ROR vs. Current
Long Term Debt	47.9%	4.981%	2.386%	
Preferred Stock	0.00%		0.000%	-0.422%
Common Stock	52.1%	9.5%	5% 4.950% -0.422	
	100.00%		7.335%	

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Have you issued data requests (DRs) relevant to Cost of Capital Q.

issues in this case?

Yes, however please note that the most directly dispositive CoC DR response 7 Α. related to my issues is that of DR 23. The Company's response to DR 23 8 updates Staff's Cost of LT Debt table as of the last calendar day of 2016, and 9 is included as Staff Exhibit 302 within Staff's framework. Again, this financial 10 snapshot is supportive of the stipulated agreement and provides a check on 11 reasonable Staff's settlement position. 12

ISSUE 1 – CAPITAL STRUCTURE

- Q. What is the basis for your use of a capital structure of 52.1 percent 14 15
 - equity and 47.9 percent LT Debt?

Staff/300 Muldoon/4

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1	A.	I have three primary reasons for my recommended Capital Structure:
2		1. The average annual Capital Structure for 2016 matches the timing for
3		other CoC inputs;
4		2. Use of actual values is preferable when data inputs are certain; and
5		3. This approach somewhat smooths the effect of CE issuances which, due
6		to cost and complexity, are less frequent than issuances of LT Debt. ¹
7	Q.	What is the source data for the capital structure of 52.1 percent equity
8		and 47.9 percent LT Debt?
9	A.	The Company provided the average capital structure for 2016 within
10		settlement for the limited purpose of facilitating Staff's calculations herein.
11		As 2016 is Staff's representative "test-year" for the earnings review, Staff
12		recommends using the actual average 2016 capital structure in place of
13		the basis the Company provided in its testimony.
14	Q.	What did the Company propose in its testimony?
15	A.	The Company proposed an end of year 2016 snap-shot. I do not
16		recommend an end of year value as capital structure changes within the
17		year, if for no other reason than timing of cash flows.
18		ISSUE 2 – COST OF COMMON EQUITY (ROE)
19	Q.	Why is an ROE of 9.5 percent reasonable for purposes of an earnings
20		threshold above which Staff recommends the Company absorb the
21		changes in depreciation expense?

See Idaho Power Annual Report Form 10-K for the fiscal year ended December 31, 2016 at <u>https://www.sec.gov/Archives/edgar/data/49648/000105787717000035/ida12311610k.htm</u>

1	A.	According to MarketWatch, rates in Idaho are intended to allow Idaho Power
2		an opportunity to recover its expenses and earn a reasonable return on
3		investments. MarketWatch, on February 18, 2016, discussed a stipulation in
4		Idaho Power's Form 10-K annual report filed with the US Securities and
5		Exchange Commission (SEC) that included provisions remaining in effect in
6		2016 to help Idaho Power achieve a minimum 9.5 percent end of year ROE in
7		the Idaho jurisdiction. ²
8		I view, in the context of this settlement, that a 9.5 percent ROE is
9		reasonable for the review performed herein. Even if this review may not
10		capture all forward looking information, it is informed by Idaho proceedings
11		and general market trends since the Commission's (now rather distant) last
12		Cost of Capital decisions regarding Idaho Power in UE 233.
13		I also note that this Commission has adopted cost of equity values in
14		recent general rate cases of roughly between 9.4 and 9.6 percent, with the
15		lower values representing natural gas companies. My analysis has shown
16		that natural gas companies tend to be lower risk than electric utilities
17		providing service in Oregon. Therefore, having a lower range of ROE equal
18		to 9.5 percent for purposes of this earnings review, in the context of this case,
19		is reasonable.
20	Q.	Are you recommending the Commission reset Idaho Power's ROE to
21		9.5 percent for general rate purposes?

2 See this report and the Edgar Online Comtex source material links at: http://www.marketwatch.com/story/10-k-idaho-power-co-2016-02-18

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Staff/300 Muldoon/6

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1	A.	No. As noted by Staff witness Marianne Gardner, a long-standing
2		Commission practice is that changes in depreciation rates should not be
3		reflected in rates outside of a general rate review. There have been
4		exceptions for those occasions where the depreciation docket concluded
5		somewhat close to a Commission general rate decision. Given that the
6		Company's most recent general rate case order was almost five years ago,
7		Staff believes it reasonable to review Idaho Power's earnings in order to
8		determine whether the change in depreciation rates should be absorbed by
9		the Company. Staff's use of a 9.5 ROE lower bound is for purposes of its
10		review of Idaho Power's earnings in this case ONLY.
11		Staff believes this approach is appropriate because the Company is not
12		asking to reflect in rates changes costs that they may be experiencing other
13		than depreciation costs, or to even recover ANY changes in depreciation
14		costs for plant added after the year 2011. This testimony is therefore
15		narrowly considering only whether it is reasonable to allow the Company to
16		include in rates increases in depreciation costs for plant balances remaining
17		for plant that was in service as of the end of 2011.
18		INFORMED STAFF ANALYSIS
19	Q.	Do you monitor and analyze current and projected market
20		conditions?
21	A.	Yes. My analysis includes analysis of the current economic climate and its
22		impact on my estimates of long-term growth. I also rely heavily on feeds from
23		SNL Financial LC (SNL), Bloomberg, Moody's, S&P, WSJ and other sources
	1	

1		to make sure that my financial understandings are reflective of investor
2	17	expectations.
3	Q.	Did you develop your inputs while informed by authorized ROEs in
4		other parts of the country?
5	A.	Yes. I examined 2016 authorized ROEs across the nation in comparison with
6		2015 ROE decisions published by SNL Financial LC. Staff's recommended
7		ROE here is within 10 basis points of national average electric utility rate case
8		ROEs decided in 2016 according to Regulatory Research Associates (RRA).
9		ISSUE 3 – COST OF LT DEBT
10	Q.	Have you compiled a summary table illustrating your calculation of
11		Idaho Power's Cost of LT Debt?
12	A.	Yes. See the table in Exhibit 302 supporting my recommendation for a 4.981
13		percent Cost of LT Debt. Because LT Debt inputs shown are known and
14		measurable point-in-time historical values, Staff believes that this update is
15		appropriate. Again. Staff is not recommending these values replace the
16		Commission authorized CoC and ROR values outside of this docket. Rather
17		they act as a check of to ensure Staff's considerations are reasonably
18		reflective of the Company's actual operating conditions now.
19	Q.	Why is it appropriate to update the cost of debt?
20	Α.	The changes in Cost of LT Debt capture historical changes in the
21		outstanding long-term debt since the last general rate order. LT debt
22		expense is a known and measurable change from the Company's last

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Staff/300 Muldoon/8

1		general rate case and so seems appropriate to include in the Staff
2		earnings review.
3	Q.	Why is this table confidential?
4	A.	This Table is confidential because it captures and organizes more issuance
5		detail than is publicly available.
6	Q.	Is this table accurate as December 31, 2016?
7	A.	Yes, it captures Bloomberg, SNL, SEC filing and presentations information.
8	Q.	Did Staff ask the Company to check this work and provide additional
9		issuance detail allowing for very high certainty of accuracy?
10	A.	Yes, the Company reviewed and updated Staff's Cost of LT Debt Table in
11		response to Staff DR 23. The Commission can have high confidence in
12		Staff's recommendation for updated Cost of LT Debt.
13		CONCLUSION
14	Q.	Please recap Staff's position regarding Cost of Capital for purposes
15		of its earnings review.
16	A.	
17		For purposes of an earnings review in this case, which Staff relied upon in
10004		For purposes of an earnings review in this case, which Staff relied upon in order to reach settlement in this proceeding, I utilized a Capital Structure of
18		
18 19		order to reach settlement in this proceeding, I utilized a Capital Structure of
	Q.	order to reach settlement in this proceeding, I utilized a Capital Structure of 52.1 percent equity and 47.2 percent LT Debt, an ROE of 9.5 percent, and a
19		order to reach settlement in this proceeding, I utilized a Capital Structure of 52.1 percent equity and 47.2 percent LT Debt, an ROE of 9.5 percent, and a Cost of LT Debt of 4.981 percent. Each component of CoC is well supported.
19 20	Q.	order to reach settlement in this proceeding, I utilized a Capital Structure of 52.1 percent equity and 47.2 percent LT Debt, an ROE of 9.5 percent, and a Cost of LT Debt of 4.981 percent. Each component of CoC is well supported. What ROR is generated by the above inputs to CoC?
19 20 21	Q. A.	order to reach settlement in this proceeding, I utilized a Capital Structure of 52.1 percent equity and 47.2 percent LT Debt, an ROE of 9.5 percent, and a Cost of LT Debt of 4.981 percent. Each component of CoC is well supported. What ROR is generated by the above inputs to CoC? Staff's inputs generate a 7.335 percent ROR.

CASE: UM 1801 WITNESS: MATT MULDOON

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 301

Witness Qualification Statement

May 15, 2017

Staff/301 Muldoon/1

WITNESS QUALIFICATION STATEMENT

NAME: Matthew J. Muldoon

EMPLOYER: PUBLIC UTILTY COMMISSION OF OREGON

TITLE: Senior Economist Energy – Rates Finance and Audit Division

ADDRESS: 201 High Street SE, Suite 100 Salem, OR 97301

EDUCATION: In 1981, I received a Bachelor of Arts Degree in Political Science from the University of Chicago. In 2007, I received a Masters of Business Administration from Portland State University with a certificate in Finance.

EXPERIENCE: From April of 2008 to the present, I have been employed by the OPUC. My current responsibilities include financial and rate analysis with an emphasis on Cost of Capital. I have worked on Cost of Capital in the following general rate case dockets: AVA UG 186, UG 201, UG 246, UG 284, UG 288, and UG 325 current; NWN UG 221; PAC UE 246, and UE 263; PGE UE 262, UE 283, UE 294, and UE 319 current CNG UG 287 and UG 305.

From 2002 to 2008 I was Executive Director of the Acceleration Transportation Rate Bureau, Inc., where I developed new rate structures for surface transportation and created metrics to insure program success within regulated processes.

I was the Vice President of Operations for Willamette Traffic Bureau, Inc. from 1993 to 2002. There, I managed tariff rate compilation and analysis. I also developed new information systems and did sensitivity analysis for rate modeling.

OTHER: I have prepared, and defended formal testimony in contested hearings before the OPUC, ICC, STB, WUTC and ODOT. I have also prepared OPUC Staff testimony in BPA rate cases.

Abbreviations: AVA – Avista Corp., CNG – Cascade Natural Gas Company, IPC – Idaho Power Company, NWN – Northwest Natural Gas Company, PAC – PacifiCorp, PGE – Portland General Electric Company

CASE: UM 1801 WITNESS: MATT MULDOON

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 302

Cost of Long-Term Debt

Exhibits in Support of Testimony

May 15, 2017

Staff Exhibit 302 is confidential and

Is subject to Protective Order Nos.16-441 and 16-445