ORDER NO. 17/ 207

ENTERED SEP 0 2 2014

BEFORE THE PUBLIC UTILITY COMMISSION

OF OREGON

UM 1679

In the Matter of

PORTLAND GENERAL ELECTRIC COMPANY

ORDER

Detailed Depreciation Study of Electric Utility Properties.

DISPOSITION: STIPULATION ADOPTED

I. INTRODUCTION

On December 5, 2013, Portland General Electric Company (PGE) filed the results of a detailed depreciation study of its utility properties (as of December 31, 2013). Based on the December 31, 2012, plant balances, PGE proposed changes in depreciation parameters that would have resulted in an annual depreciation decrease of about \$2.2 million, not including PGE's new Tucannon River Wind Farm and Port Westward II generating facilities. PGE filed separate proposed depreciation parameters to be used for those two generating facilities.

In its filing, PGE requested that the Commission approve the results of the study so that the new depreciation rates could be implemented in PGE's (then) upcoming general rate case (docket UE 283, filed February 13, 2014). PGE's filing was assigned to this docket.

A prehearing conference was held on January 28, 2014, and a schedule adopted. Parties appearing at the prehearing conference were PGE, the Oregon Public Utility Commission Staff (Staff), and the Citizens' Utility Board of Oregon (CUB).

On June 3, 2014, Staff filed a motion requesting that the schedule in this matter be suspended, pending the filing of a stipulation among all parties with joint supporting testimony. On June 30, 2014, the parties filed their stipulation and supporting testimony. However, their filing was not perfected until July 25, 2014, when the parties filed their last supporting witness affidavit.

In the stipulation, the net annual difference in depreciation expense when comparing the final settlement position to the depreciation study as-filed is a reduction of approximately

\$11.5 million for existing assets (\$11.3 million in rate case) and a reduction of \$8.2 million for the new plants (on an annualized basis). The stipulation resolves all issues in this docket.

II. THE STIPULATION

The stipulation, signed by PGE, Staff, and CUB, is attached as Appendix A and received into evidence.

The terms of the stipulation are technical in nature. The parties agree that certain changes shown in the exhibit attached to the stipulation should be made for the identified lives, curves, net salvage value, and rates. Except for those changes, the parameters should remain as filed by PGE.

The parties agree that PGE should use the Average Service Life (ASL) depreciation procedure for all new generating plants placed in service after December 31, 2012. PGE will continue to use the straight-line Equal Life Group (ELG) method for all existing assets and accounts.

Under the terms of the stipulation, PGE will make a compliance filing by submitting the depreciation technical update filing to the Commission no later than one year after a new generating facility comes on line. PGE's filing will consist of an attestation by its chief financial officer that the company is using the ASL method for the new generating plant(s) and will include sample accounting entries that demonstrate its use.

The parties stipulate that the revised depreciation parameters set forth in their exhibit are reasonable and should be adopted, to be implemented on the effective date of PGE's impending rate case (docket UE 283).

The parties also agree that PGE shall file another detailed depreciation study of its utility property not later than December 31, 2018. The depreciation parameters detailed in this stipulation will be used until the effective date of the next depreciation study.

III. TESTIMONY IN SUPPORT OF STIPULATION

A. Introduction

Each of the parties sponsored a witness to support the stipulation. Their testimony is received into evidence.

As explained in the testimony, in its filing PGE requested that the Commission prescribe the depreciation rates derived from, and included with, the Iowa curve and life combinations and that the rates be fixed until the effective date of the next depreciation study. The depreciation rates proposed by PGE would have resulted in an annual depreciation expense decrease of about \$2.2 million, based on a comparison of 2012 depreciation expense using filed

depreciation study rates to 2012 depreciation expense using previously approved depreciation parameters.

Staff and CUB independently reviewed PGE's depreciation study. Staff developed a set of proposed Iowa curves, average service lives, and net salvage rates for each of the plant accounts. Staff performed an independent review of PGE's depreciation statistics and recommended depreciation parameters for numerous depreciation groups, and proposed two types of adjustments. The first type concerns Iowa curves and projected average service lives. The second type concerns net salvage rates.

B. Iowa Curves and Average Service Lives

Staff and PGE each used the actuarial retirement rate methodology to analyze historical retirement date to help determine Iowa curves and average service lives for each depreciation group. Where Staff's position was "reasonably close" to PGE's, PGE accepted Staff's position.¹ When PGE did not agree with Staff's initial recommendation, Staff and PGE discussed their differences to establish the most appropriate life parameters for each account. In their testimony, the witnesses describe their resolution of two such issues in some detail.

Staff's Iowa survivor curve-projection life selection was based on PGE's raw data and data from other electric companies nationwide. Staff recommended several changes to PGE's proposed curve-life combination for depreciable property groups.

C. Net Salvage Rates

1. Generation Assets

In determining net salvage rates for its generation facilities, PGE relied primarily on site specific decommissioning studies, historical retirement date, and input from in-house engineering personnel. PGE's net salvage rates for the hydro generation accounts resulted from site specific decommissioning studies performed at each of the hydro facilities in 2009. Staff objected to the results of PGE's studies because the net salvage estimates were outside the range of most estimates used by other utilities. PGE countered with the argument that a site specific estimate was more reliable than statistics of net salvage rates approved for other utilities. As a compromise, the parties agreed to discount the expected inflation estimate to reflect the uncertainty of when the facilities would be shut down.

The net salvage rates for the other production assets, such as Accessory Electric Equipment and Miscellaneous Power Plant Equipment, Staff recommended net salvage range for these accounts was 0 percent to -6 percent with the 0 percent net salvage relating to the wind facilities. The parties agreed that the net salvage component for these type of assets should be the same regardless of the type of generating facility, therefore, a

¹ Staff-CUB-PGE/100 at 7.

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compromise of -6 percent for all assets in Account 345 and 345.01 and a net salvage percent of -2 percent for all assets in Account 346 and 346.01.

2. Transmission Assets

For transmission tower assets, PGE proposed a net salvage rate of -25 percent, based on the average of net salvage rates used by other utilities. PGE believed that industry experience was more pertinent, since very few retirements have been recorded upon which to base a statistical estimate. Staff recommended a net salvage rate of 0 percent, based on judgment due to the lack of historical data. The parties agreed on a net salvage rate of -10 percent for this depreciation study. Net salvage experience and industry trends will be analyzed in the next depreciation study to determine if an adjustment is necessary.

For transmission poles and fixtures, PGE agreed to use Staff's proposed net salvage rate for this study, based on the average of other utilities and the lack of recent activity. For transmission overhead conductor and devices, PGE proposed a reduction in the currently approved net salvage rate to -35 percent because there has been very little activity in the past 12 years. Staff recommended a net salvage rate of -27 percent. The parties agreed to a compromise position of -30 percent for this study.

3. Distribution Assets

For distribution poles, towers and fixtures, PGE recommended a net salvage rate of -65 percent, based on its historical analyses of the period 1971-2013 and its general knowledge of the effort required to remove distribution poles. Staff recommended a net salvage rate of -50 percent, based on the recent trend for less net salvage. The parties agreed on a net salvage rate of -60 percent for this study.

For distribution overhead conductors and devices, PGE recommended a net salvage rate of -75 percent, based on historical data for the period 1971-2013. Staff recommended a net salvage rate of -57 percent, reflecting statistical results in recent years. The parties agreed to a net salvage rate of -70 percent, putting a greater emphasis on the overall net salvage statistics.

For distribution underground conduit, PGE recommended a net salvage rate of -15 percent, while Staff proposed a net salvage rate of -11 percent. The parties agreed to a net salvage rate of -13 percent, reflecting the most recent 5 year period.

For the meters subaccount, PGE recommended a net salvage rate of -10 percent, while Staff recommended -8 percent. The parties agreed to use Staff's proposed rate to reflect new technology.

For street lighting, PGE recommended a net salvage rate of -60 percent, based on historical net salvage data, the current prescribed net salvage percent, and expectations of future costs.

Staff recommended a net salvage rate of -27 percent, based on the recent 5 year trend. The parties agreed to a net salvage rate of -35 percent, reflecting recent trends and the estimates of other comparable utilities.

D. ASL/VG versus ELG

PGE has been using the Equal Life Group (ELG) Procedure to calculate depreciation rates since 1978. Staff recommended using Average Service Life (ASL, i.e. VG, Vintage Group) procedure to calculate depreciation rates. Staff s recommendation is consistent with the following statement set forth by NARUC, "in comparison with the VG procedure, the ELG procedure results in annual accruals that are higher during the early years of a vintage's life, thereby causing an increase in depreciation expense and revenue requirements during these years" Staff also considered NARUC's discussion that "the use of the ELG procedure has not been approved by the Federal Energy Regulatory Commission (FERC) for use in the gas, oil, and electric industries." PGE argued, "attempting to switch from the ELG procedure to the Vintage Group/Broad Group procedure will result in an unnecessary reduction of \$32.2 million in annual depreciation expense. Not only does the switch in procedure cause a major swing in annual depreciation expense, but future depreciation expense will also be unnecessarily higher." 3

Depreciation has a significant effect on the revenue requirement of a utility, and depreciation expense represents a large percentage of total operating expenses, therefore, for settlement purpose, Staff proposed a "hybrid procedure" that is the combination of ELG and VG procedures to calculate depreciation rates. In the stipulation, the parties agree that for existing plant facilities as of December 31, 2012, PGE will continue to use the ELG procedure to calculate depreciation rates. The parties agreed to use the ASL/VG procedure for all new generating facilities that are built after December 12, 2012. The parties further agreed to submit a "Technical Update" or compliance filing to the Commission within one year after each new facility is placed in-service, showing plant dollars placed in-service, accounts, and parameters used as agreed to in the settlement.

E. Conclusion

The witnesses recommend that the Commission approve their stipulation. They further recommend that the commission order PGE to implement the depreciation, amortization and net salvage rates proposed in the stipulation as of the effective date of the general rate case order in docket UE 283. For the portion of 2014 prior to the effective date of the general rate case order, the company shall use current depreciation, amortization and net salvage rates.

² Public Utility Depreciation Practices, National Association of Regulatory Utility Commissioners at 176.

³ Staff-CUB-PGE/100 at 13-14, citing PGE data response 006.

IV. RESOLUTION

As noted above, the terms of the stipulation are technical in nature. In their testimony, the witnesses explain the technical terms of the stipulation and providing supporting exhibits. Their testimony confirms that the review and analysis of PGE's filing was thorough and the resulting settlement is reasonable. The stipulation should be adopted.

V. ORDER

IT IS ORDERED that

- 1. The stipulation between Portland General Electric Company, the Oregon Public Utility Commission Staff, and the Citizens' Utility Board of Oregon is adopted;
- 2. Portland General Electric Company shall implement the depreciation, amortization and net salvage rates proposed in the stipulation as of the effective date of the general rate case order in docket UE 283.

Made, entered, and effective

SEP 0 2 2014

COMMISSIONER ACKERMAN WAS

Susan K. Ackerman Chair



John Savage

Commissioner

Stephen M. Bloom Commissioner

A party may request rehearing or reconsideration of this order under ORS 756.561. A request for rehearing or reconsideration must be filed with the Commission within 60 days of the date of service of this order. The request must comply with the requirements in OAR 860-001-0720. A copy of the request must also be served on each party to the proceedings as provided in OAR 860-001-0180(2). A party may appeal this order by filing a petition for review with the Court of Appeals in compliance with ORS 183.480 through 183.484.

BEFORE THE PUBLIC UTILITY COMMISSION OF OREGON

UM 1679

In the Matter of

PORTLAND GENERAL ELECTRIC COMPANY

STIPULATION

Detailed Depreciation Study of Electric Utility Properties.

This Stipulation ("Stipulation") is between Portland General Electric Company ("PGE"), Staff of the Public Utility Commission of Oregon ("Staff"), and the Citizens' Utility Board of Oregon ("CUB") (collectively, the "Stipulating Parties").

On December 5, 2013, PGE filed with Oregon Public Utility Commission ("Commission") the results of a detailed depreciation study of its utility properties as of December 31, 2012, which included proposed depreciation lives, curves, and net salvage rates (collectively the "parameters") and depreciation rates for PGE's generation, transmission, distribution, general plant, and intangible assets. Based on the December 31, 2012, plant balances, the change in depreciation parameters proposed by PGE would have resulted in an annual depreciation decrease of approximately \$2.2 million, not including PGE's new Tucannon River Wind Farm and Port Westward II generating facilities. In addition, PGE filed proposed depreciation parameters to be used for the Tucannon River Wind Farm and Port Westward II generation facilities.

On February 13, 2014, PGE filed an application for a general rate revision, Docket UE 283, to be effective January 1, 2015. The depreciation rates that will be used in Docket UE 283 are the rates set in this docket.

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On May 22, 2014, PGE, Staff and CUB participated in a Settlement Conference at the Commission's office in Salem, Oregon. The discussions resulted in a compromise settlement of the Parties. Exhibit "102, Table1" to this stipulation, attached hereto, sets forth the detailed account-by-account depreciation parameters and rates that parties agree should be adopted by the Commission.

PGE, Staff and CUB request that the Commission issue orders in this docket implementing the terms of this Stipulation. As a compromise position on the issues in controversy, the Parties have agreed to depreciation parameters and rates that would result in a decrease of approximately \$11.5 million on an annual basis from that originally proposed in this docket based on plant data at December 31, 2012. Applying the stipulated depreciation parameters, including those applicable to new generation facilities, to PGE's 2015 test year in docket UE 283 results in the revenue requirement changes summarized in Exhibit "102, Table1".

TERMS OF STIPULATION

1. This Stipulation resolves all issues regarding PGE's application seeking a change in depreciation rates applicable to its plant.

2. The Parties agree that the changes shown in Exhibit "103, Table2" to this Stipulation should be made for the identified lives, curves, net salvage value, and rates. With the exception of the parameters set forth in Exhibit "103, Table2" to this Stipulation, the parameters should remain as filed in PGE's Study.

3. Exhibit "102, Table1" to the Stipulation is a complete list of all PGE depreciation parameters for all plant accounts by location.

4. As part of this settlement the Parties agree that PGE should use the Average Service Life depreciation procedure for all new generating plants placed in service after

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December 31, 2012. Regarding the new generating plants that will come on line between 2013 and 2016 that are currently in development the list for these new plants is shown on Exhibit "102, Table1, Note 1." PGE will continue to use the straight-line, Equal Life Group method for all existing assets and accounts. This approach and resulting depreciation parameters and rates are included in the parameters listed in Exhibit "103, Table2".

5. PGE will make a compliance filing by submitting the depreciation technical update filing to OPUC no later than one year after a new generating facility comes on-line that will consist of an attestation by the CFO that PGE is using the Average Service Life for the new generating plant(s) as well as sample accounting entries that demonstrate its use.

6. The revised depreciation parameters described above and set forth in Exhibit "102, Table1" are reasonable and should be adopted.

7. The revised depreciation rates shall be implemented on the effective date of PGE's pending general rate request in Docket UE 283.

8. No later than the end of 2018, PGE shall file with the Commission another detailed depreciation study of its utility property. The depreciation parameters detailed in Stipulation Exhibit 102, Table1 will be utilized until the effective date of the next depreciation study.

 The Stipulating Parties recommend and request that the Commission approve the adjustments described herein as appropriate and reasonable resolutions of all issues in this docket.

10. The Stipulating Parties agree that this Stipulation is in the public interest and will result in rates that are fair, just and reasonable and, if approved, will meet the standard in ORS 756.040.

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The Stipulating Parties agree that this Stipulation represents a compromise in the 11. positions of the parties. Without the written consent of all parties, evidence of conduct or statements, including but not limited to term sheets or other documents created solely for use in settlement conferences in this docket, are confidential and not admissible in the instant or any subsequent proceeding, unless independently discoverable or offered for other purposes allowed under ORS 40.190.

The Stipulating Parties have negotiated this Comprehensive Settlement as an 12. integrated document. If the Commission rejects all or any material part of this Stipulation, or adds any material condition to any final order that is not consistent with this Stipulation, each Stipulating Party reserves its right to: (i) withdraw from the Stipulation, upon written notice to the Commission and other Parties within five (5) business days of service of the final order that rejects this Stipulation, in whole or material part, or adds such material condition; (ii) pursuant to OAR 860-001-0350(9), to present evidence and argument on the record in support of the Stipulation, including the right to cross-examine witnesses, introduce evidence as deemed appropriate to respond fully to issues presented, and raise issues that are incorporated in the settlement embodied in this Stipulation; and (iii) pursuant to ORS 756.561 and OAR 860-001-0720, to seek rehearing or reconsideration or to appeal the Commission order under ORS 756.610. Nothing in this paragraph provides any Party the right to withdraw from this Stipulation as a result of the Commission's resolution of issues that this Stipulation does not resolve.

This Stipulation will be offered into the record in this proceeding as evidence 13. pursuant to OAR 860-01-0350(7). The Stipulating Parties agree to support this Stipulation throughout this proceeding and in any appeal, provide witnesses to support this Stipulation (if

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specifically required by the Commission), and recommend that the Commission issue an order adopting the settlements contained herein. The Stipulating Parties also agree to cooperate in drafting and submitting an explanatory brief and written testimony per OAR 860-001-0350(7), unless such requirement is waived. By entering into this Stipulation, no Stipulating Party shall be deemed to have approved, admitted or consented to the facts, principles, methods or theories employed by any other Party in arriving at the terms of this Stipulation. Except as provided in this Stipulation, no Stipulating Party shall be deemed to have agreed that any provision of this Stipulation is appropriate for resolving issues in any other proceeding.

14. This Stipulation may be signed in any number of counterparts, each of which will be an original for all purposes, but all of which taken together will constitute one and the same agreement.

DATED this <u>3</u>¹/₂ day of June, 2014.

VERAL ELECTRIC

PORTLAND GENERAL ELECTRIC COMPANY

STAFF OF THE PUBLIC UTILITY COMMISSION OF OREGON

CITIZENS' UTILITY BOARD OF OREGON

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adopting the settlements contained herein. The Stipulating Parties also agree to cooperate in drafting and submitting an explanatory brief and written testimony per OAR 860-001-0350(7), unless such requirement is waived. By entering into this Stipulation, no Stipulating Party shall be deemed to have approved, admitted or consented to the facts, principles, methods or theories employed by any other Party in arriving at the terms of this Stipulation. Except as provided in this Stipulation, no Stipulating Party shall be deemed to have appropriate for resolving issues in any other proceeding.

14. This Stipulation may be signed in any number of counterparts, each of which will be an original for all purposes, but all of which taken together will constitute one and the same agreement.

DATED this 27 day of June, 2014.

PORTLAND GENERAL ELECTRIC COMPANY

STAFF OF THE PUBLIC UTILITY COMMISSION OF OREGON

CITIZENS' UTILITY BOARD OF OREGON

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deemed to have approved, admitted or consented to the facts, principles, methods or theories employed by any other Party in arriving at the terms of this Stipulation. Except as provided in this Stipulation, no Stipulating Party shall be deemed to have agreed that any provision of this Stipulation is appropriate for resolving issues in any other proceeding.

14. This Stipulation may be signed in any number of counterparts, each of which will be an original for all purposes, but all of which taken together will constitute one and the same agreement.

DATED this $27^{\text{TL}}_{\text{day of June, 2014.}}$

PORTLAND GENERAL ELECTRIC COMPANY

STAFF OF THE PUBLIC UTILITY COMMISSION OF OREGON

CITIZENS' UTILITY BOARD OF OREGON

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		SURVIVOR	NET SALVAGE	ORIGINAL COST AT	воок	FUTURE	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING
	ACCOUNT	CURVE	PERCENT	DECEMBER 31, 2012	RESERVE	ACCRUALS	AMOUNT	RATE	LIFE
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(7)/(4)	(9)=(6)/(7)
5	STEAM PRODUCTION PLANT								
	BOARDMAN								
311.00	STRUCTURES AND IMPROVEMENTS	90 - S1.5 *	(1)	103,163,606.77	76,864,082	27,331,161	3,287,441 **	3.19	8.0
312.00	BOILER PLANT EQUIPMENT	65 - R3 *	(1)	227,278,716.19	143,601,262	85,950,241	10,459,682 **	4.60	8.0
312,00	BOARDMAN DECOMMISSIONING ACCRUAL			0.00	27,346,614	17,406,389	2,175,804 **	-	8.0
312.01	RAIL CARS	26 - SO *	0	9,758,265.28	7,667,449	2,090,816	261,352 **	2.68	8.0
314.00	TURBOGENERATOR UNITS	60 - S0.5 *	(1)	90,135,378.46	56,819,219	34,217,513	4,164,520 **	4.62	8.0
315.00	ACCESSORY ELECTRIC EQUIPMENT	60 - R2.5 *	(1)	23,582,186.18	17,351,696	6,466,312	778,811 **	3.30	8.0
316,00	MISCELLANEOUS POWER PLANT EQUIPMENT	55 - R1 *	(1)	5,803,273.23	3,970,515	1,890,791	229,095 **	3.95	8.0
	TOTAL BOARDMAN			459,721,426.11	333,620,837	175,353,223	21,356,704	4.65	8.0
211.00	COLSTRIP STRUCTURES AND IMPROVEMENTS	00 615 *	(5)	415 208 244 22	04 005 040	20.000.005	058 800	0.02	
311.00	DOILED DI ANT FOLIDMENTS	90 - 51.5 *	(5)	115,306,214.32	94,965,540	26,088,285	900,629	0.63	21.2
312.00		00 - K3 ·	(5)	216,919,662.50	109,009,021	57,895,235	2,1/3,/48	1.00	26.6
314.00		00 - 30,0 ···	(5)	10,000,070.08	40,157,331	36,970,520	1,044,217	2.18	23.7
315.00		60 - R2.3	(3)	23,330,907.88	10,040,900	0,100,910	200,109	1.09	24.2
310.00		00 - KI "	(5)	427 406 772 54	4,741,020	1,922,431	<u> </u>	1.33	22.8
	TOTAL GOLGINIP			437,490,772.31	. 320,299,217	131,072,393	5,119,520	1.17	25.6
٦	TOTAL STEAM PRODUCTION PLANT			897,218,198.62	661,920,054	306,425,616	26,476,032	2.95	11.6
H	HYDRAULIC PRODUCTION PLANT								
331.00	STRUCTURES AND IMPROVEMENTS								
	FARADAY	100 - R2.5 *	(50)	6,479,397.20	1,212,225	8,506,871	224,988	3.47	37,8
	NORTH FORK	100 - R2.5 *	(115)	8,260,817.28	1,580,450	16, 180, 307	420,381	5.09	38.5
	OAK GROVE	100 - R2.5 *	(50)	3,398,112.29	1,458,859	3,638,309	99,796	2.94	36.5
	OAK GROVE - TIMOTHY LAKE	100 - R2.5 *	(50)	2,252,149.83	810,067	2,568,158	66,267	2.94	38.8
	PELTON	100 - R2.5 *	(110)	5,645,635.78	1,872,777	9,983,058	263,270	4.66	37.9
	RIVER MILL	100 - R2.5 *	(80)	2,753,573.44	888,480	4,067,952	115,450	4.19	35.2
	ROUND BUTTE	100 - R2.5 *	(75)	9,696,059.00	2,341,042	14,627,061	385,957	3,98	37.9
	TOTAL STRUCTURES AND IMPROVEMENTS	100 - R2.5	(30)	47,923,595,23	1,478,588	10,790,618 70,362,334	<u> </u>	5.30 4.33	21.6
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
332.00	RESERVOIRS, DAMS AND WATERWAYS			0/000 75/ 5/					
		100 - K3 *	(50)	24,223,754.94	11,961,626	24,3/4,007	025,24/	2.58	39.0
		100 - KJ *	(115)	22,104,599.29	15,651,253	31,8/3,030	193 663	3.84	37.5
		100 - R3 *	(50)	4,720,000,43	5 207 424	1 902 676	52 606	1.01	38.1
	PELTON	100 - R3 *	(110)	10 223 106 37	8 252 401	13 216 122	362,030	3.54	36.5
	RIVER MILL	100 - R3 *	(80)	52 789 060 05	8 988 578	86 031 730	2 145 074	4.06	40.1
	ROUND BUTTE	100 - R3 *	(75)	103.758.407.21	25.289.701	156.287.512	3,895,851	3.75	40.1
	SULLIVAN	100 - R3 *	(30)	23.381.331.65	4.831.799	25,563,932	1,160,692	4.96	22.0
	TOTAL RESERVOIRS, DAMS AND WATERWAYS		N7	255,948,830.73	94,611,715	346,913,439	9,284,398	3.63	37.4

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		SURVIVOR	NET SALVAGE	ORIGINAL COST	BOOK	FUTURE	CALCUL ANNUAL AC	ATED CCRUAL	COMPOSITE REMAINING
	ACCOUNT	CURVE	PERCENT	DECEMBER 31, 2012	RESERVE	ACCRUALS	AMOUNT	RATE	LIFE
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(7)/(4)	(9)=(6)/(7)
333.00	WATER WHEELS, TURBINES AND GENERATORS								
	FARADAY	90 - S1 *	(50)	6,608,291.00	2,914,660	6,997,777	189,402	2.87	36.9
	NORTH FORK	90 - S1 *	(110)	6,887,358.20	4,808,993	9,654,459	279,711	4.06	34.5
	OAK GROVE	90 - S1 *	(50)	6,438,763.32	2,695,592	6,962,553	188,685	2.93	36.9
	PELTON	90 - S1 *	(100)	3,964,266.18	4,137,997	3,790,535	115,856	2.92	32.7
	RIVER MILL	90 - S1 *	(80)	5,666,409.59	2,183,139	8,016,398	215,831	3.81	37.1
	ROUND BUTTE	90 - S1 *	(70)	13,170,715.97	7,767,838	14,622,379	392,371	2.98	37.3
	SULLIVAN	90 - S1 *	(30)	9,206,560.54	3,018,905	8,949,624	415,581	4.51	21.5
	TOTAL WATER WHEELS, TURBINES AND GENERATORS			51,942,364.80	27,527,125	58,993,725	1,797,437	3.46	32.8
334.00	ACCESSORY ELECTRIC EQUIPMENT								
	FARADAY	60 - R2.5 *	(30)	2,300,700.84	1,009,001	1,981,911	62,329	2./1	31.8
	NORTH FORK	60 - R2.5 *	(75)	949,835.89	505,575	1,156,637	39,264	4.13	29.5
	OAK GROVE	60 - R2.5 *	(30)	2,372,228.34	748,450	2,335,447	71,867	3.03	32.5
	PELTON	60 - R2.5 *	(75)	2,231,610.73	690,153	3,215,166	99,259	4.45	32.4
	RIVER MILL	60 - R2.5 *	(45)	2,528,354.14	843,022	2,823,092	86,091	3.41	32.8
	ROUND BUTTE	60 - R2.5 *	(35)	1,909,870.89	736,560	1,841,765	54,801	2.87	33.6
	SULLIVAN	60 - R2.5 *	(25)	4,270,652.93	674,739	4,653,577	221,169	5.18	21.1
	TOTAL ACCESSORY ELECTRIC EQUIPMENT			16,563,253,76	5,207,500	18,017,595	634,780	3.83	28.4
335.00	MISCELLANEOUS PLANT EQUIPMENT	55 DA 5 4	(45)	007 707 07	00.004	175 000	7 404	9.90	00 <i>4</i>
	FAKADAY	55 - RU.5 *	(15)	221,1U1.01	00,001	175,003	1,404	3.29	23.4
	NURTHFORK	55 - RU,5 *	(50)	453,549.96	248,429	431,696	10,704	3.70	20.0
		55 - RU,5 -	(5)	90,217.98	41,306	53,423	2,055	2.20	20.0
	OAK GRUVE - TIMUTHY LARE	55 - RU.5	(5)	2,761.24	1,393	1,506	63 E 007	2.20	23.9
		55 - RU.5 *	(40)	180,729.78	126,495	120,027	5,000	3,10	22.0
		55 - RU.5 *	(30)	20,110,12	4,000	21,283	20 727	3.00	27.5
	RUUND BUTTE	55 - RU.5 *	(30)	100 005 69	210,201	119 221	20,131	5,74	2J,2 19 A
	TOTAL MISCELLANEOUS PLANT EQUIPMENT	55 - RU.5	(20)	1,853,414.12	802,894	1,652,465	67,920	3.66	24.3
336.00	ROADS RAILROADS AND BRIDGES								
000.00	FARADAY	80 - R15 *	(15)	1 976 298 06	567 848	1 704 895	49 998	2.53	34.1
	NORTH FORK	80 - R1.5 *	(50)	1 662 876 54	527.674	1,966,641	61.300	3.69	32.1
	OAK GROVE	80 - R15 *	(5)	2 215 114 33	2 153 069	172 801	5 323	0.24	32.5
	OAK GROVE - TIMOTHY LAKE	80 - R15 *	(5)	107 015 18	18 308	94 058	2,810	2.63	33.5
	PELTON	80 - R1.5 *	(40)	2 151 532 99	694 407	2 317 740	68,183	3.17	34.0
	RIVER MILL	80 - R15 *	(30)	458 019 14	114 105	481 320	14 109	3.08	34.1
	ROUND BUTTE	80 - R15 *	(30)	1 192 102 68	393,917	1.155.817	36,749	3,08	31.5
	TOTAL ROADS, RAILROADS, AND BRIDGES	00 - 111,0	(00)	9,762,958.92	4,469,327	7,893,272	238,472	2.44	33,1
т	OTAL HYDRAULIC PRODUCTION PLANT			383,994,417.56	144,261,048	503,832,830	14,098,957	3.67	35.7

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		SURVIVOR		NET SALVAGE	ORIGINAL COST AT	воок	FUTURE	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING
	ACCOUNT	CURVE		PERCENT	DECEMBER 31, 2012	RESERVE	ACCRUALS	AMOUNT	RATE	LIFE
	(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)=(7)/(4)	(9)=(6)/(7)
0	THER PRODUCTION PLANT									
341.00	STRUCTURES AND IMPROVEMENTS						·			
041.00	BEAVER - CT	70 - R2	*	(8)	31,384,599.71	27,842,665	6,052,703	369,866	1.18	16.4
	COYOTE SPRINGS - CT	70 - R2	*	(8)	10,792,758.11	6,593,674	5,062,505	203,418	1.88	24.9
	PORT WESTWARD - CT	70 - R2	*	(10)	40,951,570.86	4,719,732	40,326,996	1,246,251	3.04	32.4
	TOTAL STRUCTURES AND IMPROVEMENTS			(/	83,128,928.68	39,156,071	51,442,204	1,819,535	2,19	28.3
341.01	STRUCTURES AND IMPROVEMENTS - WIND	40 - R4		(9)	32,813,735.10	4,812,435	30,954,537	910,651	2.78	34.0
0.40.00										
342.00	POEL HOLDERS, PRODUCERS AND ACCESSORIES	50 23	*	(8)	51 221 330 42	48,220,046	7,098,991	475,497	0.93	14.9
		50 - 173	*	(8)	1 301 12	765	640	38	2.92	16.8
·	BEAVER UNIT 0 - CT	50 - 173	*	(8)	35 792 019 04	21.039.639	17,615,742	743,942	2.08	23.7
	CUTUTE SPRINGS - CT	50 - 103	*	(10)	9 462 372 34	4 494 496	5,914,114	182,391	1.93	32.4
	PORT WESTWARD - CT	50 - R3	*	(10)	19 373 076 01	15,258,576	5.664.346	347,713	1.79	16.3
	TOTAL FUEL HOLDERS, PRODUCERS AND ACCESSORIES	00 - 110		(0)	115,850,098,93	89,013,522	36,293,833	1,749,581	1.51	20.7
344.00	GENERATORS			(0)	00 074 545 04	ET 012 031	42 642 679	2 863 947	3 10	14.9
	BEAVER - CT	45 - R1	2	(8)	3 820 200 44	2 001 119	2 044 536	135 042	3.53	15.1
	BEAVER UNIT 8 - CT	45 - R1	1	(8)	3,029,309.44	40.066.244	84 369 695	4 270 941	3.46	19.8
	COYOTE SPRINGS - CT	45 - R1	2	(8)		49,000,011	175 777 424	7 200 621	3.83	24.4
	PORT WESTWARD - CT	45 - R1	-	(10)	188,072,933.42	51,102,003	204 824 224	14 470 651	3 55	21.1
	TOTAL GENERATORS				407,727,720.40	139,273,063	304,034,334	14,470,001	5.55	21.1
344.01	GENERATORS - WIND	30 - R3		(9)	860,382,974.39	127,377,520	810,439,922	35,197,604	4,09	23.0
345.00	ACCESSORY ELECTRIC EQUIPMENT							A / A 747	0.05	00.5
	DISPATCH GENERATION	40 - R2.5		(6)	7,166,364.41	1,356,275	6,240,072	218,737	3.05	28.0
	BEAVER - CT	40 - R2.5	*	(6)	12,901,411.46	11,380,180	2,295,316	168,732	1.31	13.0
	BEAVER UNIT 8 - CT	40 - R2.5	*	(6)	75,508.20	17,759	62,280	3,845	5.09	10.2
	COYOTE SPRINGS - CT	40 - R2.5	٠	(6)	11,549,937.95	7,022,985	5,219,949	263,497	2.28	19.8
	PORT WESTWARD - CT	40 - R2.5	*	(6)	8,909,074.88	1,965,498	7,478,122	275,599	3.09	27.1
	TOTAL ACCESSORY ELECTRIC EQUIPMENT				40,602,296.90	21,742,697	21,295,739	930,410	2.29	22.9
345.01	ACCESSORY ELECTRIC EQUIPMENT - WIND	30 - R2.5		(6)	24,958,049.06	2,866,156	23,589,376	1,063,450	4.26	22.2
346.00	MISCELLANEOUS PLANT EQUIPMENT									
0.000	BEAVER - CT	55 - R2	*	(2)	4,303,163.78	3,422,973	966,254	61,121	1.42	15,8
	COYOTE SPRINGS - CT	55 - R2	*	(2)	2,060,507.64	1,207,375	894,343	38,090	1.85	23:5
	PORT WESTWARD - CT	55 - R2	*	(2)	2,876,766.10	404,039	2,530,263	83,999	2.92	30.1
	KB PIPELINE	55 - R2	*	(2)	78,841.79	64,122	16,297	1,024	1.30	15.9
•	TOTAL MISCELLANEOUS PLANT EQUIPMENT			N- 7	9,319,279.31	5,098,509	4,407,157	184,234	1.98	23.9
346.01	MISCELLANEOUS PLANT EQUIPMENT - WIND	35 - R2.5		(2)	847,553,98	132,834	731,671	29,059	3.43	25.2
	TOTAL OTHER PRODUCTION PLANT				1,575,630,636.75	429,472,806	1,283,988,773	56,355,075	3.58	22.8
	TOTAL PRODUCTION				2,856,843,252.93	1,235,653,908	2,094,247,219	96,930,064		
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		SURVIVOR	NET SALVAGE	ORIGINAL COST AT	BOOK	FUTURE	CALCULA ANNUAL AC	ATED CRUAL	COMPOSITE REMAINING
	ACCOUNT	CURVE	PERCENT	DECEMBER 31, 2012	RESERVE	ACCRUALS	AMOUNT	RATE	LIFE
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(7)/(4)	(9)=(6)/(7)
T	RANSMISSION PLANT								
352.00	STRUCTURES AND IMPROVEMENTS	60 - R2.5	(15)	17.407.069.85	6.797.117	13,221,013	353,866	2.03	37.4
353.00	STATION EQUIPMENT	55 - R2	(15)	241,319,092.06	82,698,466	194,818,490	5,630,960	2.33	34.6
354.00	TOWERS AND FIXTURES	70 - R3	(10)	46,808,291.56	21,550,183	29,938,938	866,584	1.85	34.5
355.00	POLES AND FIXTURES	50 - R1.5	(50)	20,460,355.74	9,396,543	21,293,991	669,961	3.27	31.8
356.00	OVERHEAD CONDUCTORS AND DEVICES	60 - R2.5	(30)	74,129,949.12	57,901,127	38,467,807	918,417	1.24	41.9
359.00	ROADS AND TRAILS	60 - R4	0	339,371.32	146,519	192,853	6,680	1.97	28.9
٦	OTAL TRANSMISSION PLANT			400,464,129.65	178,489,955	297,933,092	8,446,468	2.11	35.3
ſ									
361.00	STRUCTURES AND IMPROVEMENTS	70 - R1.5	(25)	36.822.187.13	12.249.928	33,777,806	796.858	2.16	42.4
362.00	STATION EQUIPMENT	54 - SO	(20)	384,524,570.26	120,825,481	340,604,004	11,185,779	2.91	30.4
364.00	POLES, TOWERS AND FIXTURES	48 - R1	(60)	325,204,225.23	233,516,446	286,810,314	10,281,387	3.16	27.9
365.00	OVERHEAD CONDUCTORS AND DEVICES	48 - S0.5	(70)	533,059,150.98	324,305,182	581,895,375	20,060,538	3.76	29.0
366.00	UNDERGROUND CONDUIT	75 - R4	(13)	15,523,586.14	9,517,421	8,024,232	176,763	1.14	45.4
367.00	UNDERGROUND CONDUCTORS AND DEVICES	50 - S1.5	(70)	624,820,668.61	351,739,956	710,455,181	21,951,949	3.51	32.4
368.00	LINE TRANSFORMERS	· 45 - R3	(20)	306,548,578.44	158,484,717	209,373,577	7,431,903	2,42	28.2
369.01	SERVICES - OVERHEAD	55 - R1.5	(45)	40,361,949.72	37,798,996	20,725,831	658,812	1.63	31.5
369.03	SERVICES - UNDERGROUND	50 - R4	(45)	337,639,570.26	263,527,773	226,049,604	6,287,797	1.86	36.0
370.00	METERS	30 - S1.5	(8)	5,613,935.18	594,883	5,468,167	284,811	5,07	19.2
370.01	METERS - AMI	16 - S2.5	(8)	112,581,575.01	20,648,101	100,940,000	8,356,515	7.42	12.1
370.02	METERS - RETAINED	16 - L0.5	(8)	7,523,316.60	1,781,367	6,343,815	867,815	11.54	7.3
371.00	INSTALLATIONS ON CUSTOMERS' PREMISES	30 - R4	0	376,133.46	253,970	122,163	7,254	1.93	16.8
373.01	CIRCUITS - OTHER	46 - S0.5	(30)	21,175,639.91	15,125,414	12,402,918	451,214	2.13	27,5
373.02 373.07	SENTINEL LIGHTING EQUIPMENT	28 - L1 29 - L0.5	(30) (30)	28,661,421.75 8,483,865.88	27,473,507 9,442,510	9,786,341 1,586,516	99,584	1.17	15,9
1	TOTAL DISTRIBUTION PLANT			2,788,920,374.56	1,587,285,652	2,554,365,844	89,510,151	3.21	28.5
,	SENERAL PLANI								
390.00	STRUCTURES AND IMPROVEMENTS	40 - R0.5	(5)	50,907,101.98	22,999,361	30,453,096	1,475,457	2.90	20.6
390.1 0	STRUCTURES AND IMPROVEMENTS - LEASE							0.07	
	CSS	SQUARE	0	6,709.18	2,976	3,733	622	9.27	6.0
	EASTPORT	SQUARE	0	58,032.12	54,037	3,995	1,019	1.70	3.9
	ERCIUALATIN	SQUARE	0	276,892.45	1/2,9/5	103,916	19,1/4	6,92	5,4
	HILLSBORD	SQUARE	U	59,238.14	53,297	5,941	0,942	10.03	1.0
		SQUARE	· U	84,421.47	51,/31	32,710	13,010	10.01	2.4
	WILSONVILLE	SQUARE	0	100,328.32	101,221	04,107 12 020 540	24,040	10.40	2.2
	TOTAL STRUCTURES AND IMPROVEMENTS	SQUARE	U	20,016,090.05	5,973,138	14,042,950	514,358	2.52	27,3
	OFFICE FURNITURE AND FOUIPMENT								
391.10	FURNITURE AND EQUIPMENT	15 - SO	0	16,154,320.04	5.067.207	11.087.113	1,777,770	11.00	6.2
391.20	COMPUTERS AND EQUIPMENT	5 - SQ	ō	50,495,108.71	21,120,607	29,374,501	10,624,019	21.04	2.8
	TOTAL OFFICE FURNITURE AND EQUIPMENT			66,649,428.75	26,187,814	40,461,614	12,401,789	18.61	3.3

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	ACCOUNT	SURVIVOR	NET SALVAGE	ORIGINAL COST AT	BOOK	FUTURE	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING
	ACCOUNT	CURVE	PERCENT	DECEMBER 31, 2012	RESERVE	ACCRUALS	AMOUNT	RATE	LIFE
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(7)/(4)	(9)=(6)/(7)
	TRANSPORTATION EQUIPMENT								
392,04	HEAVY DUTY TRUCKS	19 - S2	10	10,310,358.99	7,478,261	1,801,062	127,752	1.24	14.1
392.05	MEDIUM DUTY TRUCKS	15 - S1.5	10	13,096,541.35	7,837,401	3,949,487	460,131	3.51	8,6
392.06	LIGHT DUTY TRUCKS	12 - L2	10	8,585,404.78	5,761,784	1,965,081	327,645	3.82	6.0
392.08	TRAILERS	25 - SO	10	5,035,199.33	2,414,441	2,117,238	149,698	2.97	14.1
392.09	AUTOS	11 - S1.5	10	1,174,746.91	422,708	634,565	106,935	9,10	5.9
392.10	HELICOPTER	20 - S4	10	2,703,076.25	564,801	1,867,967	122,655	4.54	15.2
	TOTAL TRANSPORTATION EQUIPMENT			40,905,327.61	24,479,396	12,335,400	1,294,816	3.17	9.5
393.00	STORES EQUIPMENT	20 - SQ	0	2,851,685,89	1,067,992	1,783,694	154,588	5.42	11.5
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	20 - SQ	0	11,124,758,65	4,201,984	6.922.774	840,771	7.56	8.2
395,00	LABORATORY EQUIPMENT	17 - SQ	D	9,949,815.67	2,780,784	7,169,032	918,162	9.23	7.8
	POWER OPERATED EQUIPMENT								
396.01	MAN LIFT	14 - S1.5	5	25,760,291.28	13,170,098	11,302,179	1,477,363	5,74	7.7
396.02	DIGGER	15 - S3	5	8,491,374.37	4,659,141	3,407,665	328,124	3.86	10.4
396.03	CRANE	20 - L3	5	4,868,443.43	3,235,875	1,389,147	102,937	2.11	13.5
396.07	CONSTRUCTION EQUIPMENT	20 - L1	5	5,680,187.07	3,479,017	1,917,161	174,793	3.08	11.0
	TOTAL POWER OPERATED EQUIPMENT			44,800,296.15	24,544,130	18,016,152	2,083,217	4.65	8.6
	COMMUNICATION EQUIPMENT								
397,01	LINE EQUIPMENT	15 - SQ	0	1,833,384,98	544,039	1,289,346	116,397	6.35	11.1
397.03	RADIO, MICROWAVE AND TERMINAL EQUIPMENT	15 - SQ	0	69,486,640.99	31,953,470	37,533,171	5,863,891	8.44	6.4
397,06	MOBILE RADIO EQUIPMENT	15 - SQ	0	598,856,17	303,999	294,857	25.475	4.25	11.6
397.07	TELEPHONE EQUIPMENT	15 - SQ	0	688,064,05	439,897	248,167	49,235	7.16	5.0
	TOTAL COMMUNICATION EQUIPMENT			72,606,946,19	33,241,405	39,365,541	6,054,998	8.34	6.5
398.00	MISCELLANEOUS EQUIPMENT	20 - SQ	0	129,175.32	93,653	35,522	2,261	1.75	15.7
	TOTAL GENERAL PLANT			319,940,626.26	145,569,658	170,585,775	25,740,417	8.05	6.6
	TOTAL DEPRECIABLE PLANT			6,366,168,383.40	3,146,999,173	5,117,131,930	220,627,100	3.47	23.2
	·							•	
202.00	NONDEPREGIABLE / ACCOUNTS NOT STUDIED			444 004 075 00					
302,00		· ·		144,231,075.68	28,535,297				
303.00				212,946,637.54	122,646,130				
310.00				4,160,671.10					
317.00				24,903,797.00	5,327,284				
330,00				8,047,625.51	1,341,061				
332.00	BULL KUN			0.00	683,971				

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		SURVIVOR	NET SALVAGE	ORIGINAL COST AT	BOOK	FUTURE	CALCUL ANNUAL AC	ATED CRUAL	COMPOSITE REMAINING
	ACCOUNT	CURVE	PERCENT	DECEMBER 31, 2012	RESERVE	ACCRUALS	AMOUNT	RATE	LIFE
	(1)	(2)	(3)	(4)	(5)	(6)	{7}	(8)=(7)/(4)	(9)=(6)/(7)
337.00				4,276.00					
340.00				48,946.01	275,794				
347.00				2,213,947.65					
350.00				11,230,107.76	(6,753)				
360.00				20,358,924.85	(1,115)				
370.03				0.00	(8,218)				
374.00				460,131.00					
389.00				7,195,880.64	(3,616)				
392.01				0.00	241,194				
399,00				64,488.00					
				100 007 (00 74	450 004 000				
TOT	AL NONDEPRECIABLE / NOT STUDIED			433,867,708.74	159,031,030				
TOT	AL ELECTRIC PLANT			6,800,035,492.14	3,306,030,202	5,117,131,930	220,627,100		

* Curve shown is Interim survivor curve. Each facility in the account is assigned an individual probable retirement year, ** Annual depreciation expense based on method previously approved by the OPUC in Order No. 10-478.

Notes:

1.) Accrual rates for facilities to be placed in service after December 31, 2012 using the ASL/VG procedure are as follows.

			Survivor	Net Salvage		Using E	LG Procedure
		Rate	Curve	Percent	Remaining Life	Rate	Remaining Life
Port Westwa	rd II						
	341.00	2.52	70 - R2 *	* (7)	42.5	3.22	33.2
	342.00	2.57	50 - R3 💙	* (7)	41.7	2.87	37,3
	344.00	2.93	45 - R1 '	* (7)	36.5	5.61	19.1
	345.00	2.85	40 - R2.5	(6)	37.2	3.76	28.2
	346.00	2.50	55 - R2	* (2)	40.8	3.40	30.0
Carty		Rate					
	341.00	2.52	70 - R2	* (6)	42.1	3.15	33.6 .
	342.00	2.57	50 - R3	* (6)	41.3	2.85	37.2
	344.00	2.93	45 - R1 '	* (6)	36,2	5.30	20.0
	346.00	2.52	55 - R2	* (2)	40.5	3.34	30.5
Tucannon Ri	ver	Rate					
	341.01	2.82	40 - R4	* (12) ·	39.8	2.99	37.4
	344.01	3.74	30 - R3	* (12)	30.0	4.44	25.2
	345.01	3,54	30 - R2.5	* (6)	29.9	4,81	22.0
	346.01	2.94	35 - R2.5	* (2)	34,7	4.00	25.5
Sunway 1		Rate					
	344.00	4.85	25 - S2.5	* (2)	17.2	5.20	16.0
Sunway 2		Rate					
	344.00	5.53	25 - S2.5	* (2)	14.1	5.73	13.7
Sunway 3		Rate					
	344.00	5,44	25 - \$2.5	* (2)	15.8	5,62	15.3

ORDER NO.

UM 1679 - Stipulating Parties / 103 Peng - McGovern - Spanos/ 1

PORTLAND GENERAL ELECTRIC COMPARISON OF ESTIMATED SURVIVOR CURVES, NET SALVAGE AND CALCULATED ANNUAL DEPRECIATION RATES

			2012 F	12 PGE PROPOSED		ED.	2012 S	TAFF PRI PARAM	ESETTLEME ETERS	ILEMENT S		05-22-14 SETTLEM PARAMETERS	
		ORIGINAL COST AS OF ECEMBER 31, 2012 (2)	SUR CU	VIVOR RVE 31	N SAL PER	IET VAGE CENT	SUR CU	VIVOR RVE 19)	NET SALVAG PERCEN (20)		SURV CUF	1VOR (VE)	NET SALVAGE PERCENT (20)
\$	STEAM PRODUCTION PLANT	(CUTO											
311.00	BOARDMAN	103.163.607	90	- \$1.5		(1) (1)	90	S1.5	(1)		90	S1.5	(1) (1)
	COLSTRIP	115,308,214	90			(5)	90	S1.5	(5)		90	S1.5	(5)
	TOTAL STRUCTURES AND IM	218,471,821											
312.00	BOARDMAN	227,278,716	65	- R3		(1)	65	R3 .	• (1)		65 -	R3	• (1)
	COLSTRIP	216,919,921	65	- R3		(5)	65	- R3	(5)		65	R3	* (5)
	TOTAL BOILER PLANT EQUIP	444,198,637											
312.01	RAIL CÁRS	9,758,265	26	- S0		0	26	SO	0		26 -	SO	0
314.00	TURBOGENERATOR UNITS	00 125 270		CA.F			EQ.	S0 5	,		80	50 F	
:	COLSTRIP	75.365.521	60	- S0.5		(5)	60	S0.5	(5) (5)		60	S0.5	(1)
	TOTAL TURBOGENERATOR	165,500,899					CONCERNENCES						
315.00	ACCESSORY ELECTRIC EQUIP	23 592 196	60	01 F			én	D7.5	•		60	025	
	COLSTRIP	23,556,968	60	- R2 5		(5)	60	R2.5	(5)		60	R2.5	• (5)
	TOTAL ACCESSORY ELECTR	47,139,154											
316.00	BOARDMAN	5 803 273	55	- R1			55	R1	- m		55	R1	* (1)
	COLSTRIP	6,346,149	55	- R1		(5)	55	- R1	• (5)		55	R1	(5)
	TOTAL MISCELLANEOUS POV	12,149,422					andrand.						
٢	TOTAL STEAM PRODUCTION PL	897,218,199											
ł	HYDRAULIC PRODUCTION PLAN	т				APRATE AREADY ANALON ANALON ANALON ANALON ANALON ANALON ANALON							
331.00	STRUCTURES AND IMPROVE	MENTS											
001.00	FARADAY	6,479,397	100	- R2.5		60)	100	R2.5	* (25)		100 -	R2.5	(50)
	NORTH FORK	8,260,817	100	- R2.5	i(196)	100	R2.5	* (80)		100	R2.5	(115)
	OAK GROVE	3,398,112	100	- R2.5)	68)	100	R2.5	(28)		100 -	R2.5	(50)
	PELTON	5.645.636	100	- R2 5	2	83)	100	R2.5	(20) (75)		100	R2.5	(110)
	RIVER MILL	2,753,573	100		, . (1	05)	100	- R2.5	(43)		1.00	R2.5	• (8D)
	ROUND BUTTE	9,696,059	100	R2.5	5	89)	100	- R2.5	(36)		100	- R2.5	• (75)
	SULLIVAN	9,437,850	100	- R2.5) 	31) -	100	< .R2.5	(13)		100	R2.5	(30) = (70)
	TOTAL STRUCTURES AND IM	47,823,385			age(average	17 I.I.			averag	
332.00	RESERVOIRS, DAMS AND WA	TERWAYS											
	FARADAY	24,223,755	100	- R3	(60)	100	- R3 cc	(36)		100	R3	(50)
	NORTH FORK	22,104,599 14 728 506	100 100	- R3. - R3	aa	196): 68):	100	- ro . Ra	(118) (41)		100	R3	(50)
	OAK GROVE - TIMOTHY L	4,740,065	100	- R3		68)	100	- R3	• (41)		100	R3	• (50)
	PELTON	10,223,106	100	. R3		183)	100	R3 🔅	• (110)		100	R3	• (110)
	RIVER MILL	52,789,060	100	R3		105)	100	- R3	(63)		100	R3	(80)
	ROUND BUTTE	103,758,407	100	- R3 pa	() () ()	89) 311	100	- K3 - R3	(53) /101		100	R3	(30)
	TOTAL RESERVOIRS, DAMS /	255,948,831		aven	age= (*	100)		average	e= (60)			average	
333.00	WATER WHEELS, TURBINES A	AND GENERATORS	90	- S1	(60)	90	- 51 - 1	(13)		90.	S1	(50) (110)
	FARADAY NORTH FORK	6,608,291 6,887,358	90	51 1051		90) 68)	90	- 31 - S1	(41) (14)		90	SI	• (50)
	OAK GROVE	6,438,763	90	- S1	(* (*	183)	90	- S1	(39)		90	S1	(100)

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	PFLTON 3.964.266	90	S1	(105)	90 S1	(22)	90	- S1	* (80)
	RIVER MILL 5.666.410	90	- S1	(89)	90 - S1	(19)	90	- S1	* (70)
	ROUND BUTTE 13,170,716	90	S1	(31)	90 S1	(7)	90	- St	* (30)
	SULLIVAN 9,206,561		average	= (105)	average=	(22)	Baraka	averag	e= (70)
	TOTAL WATER WHEELS, TUF 51,942,365	DINC 949			CONTRACTOR OF				
. 334.00	ACCESSORY ELECTRIC EQUIPMENT	CINERCONS SCENE:							
	FARADAY 2,300,701	60	R2,5 *	(60)	60 - R2.5	(23)	60	- R2.5	* (30)
	NORTH FORK 949,836	60	R2.5 *	(196)	60 - R2,5	(75)	60	R2.5	* (75)
•	OAK GROVE 2,372,228	60.	R2.5 *	(68)	60 R2.5 *	(26)	60	R2,5	* (3D)
	PELTON 2,231,611	60	R2.5 *	(183)	60 - R2.5.*	(70)	60	R25	* (75)
	RIVER MILL 2,528,354	60	R2.5	(105)	60 - R2.5 *	(40)	60	- R2.5	• (45)
	ROUND BUTTE 1,909,871	60	R2.5 *	(89)	60 - R2.5 *	(34)	60	- R2.5	* (35)
	SULLIVAN 4,270,653	60	R2.5	(31)	60 - R2.5	(12)	60	R2.5	* (25)
	TOTAL ACCESSORY ELECTR 16,563,254	ARD	average	e= (105)	average≂	(40)	NAME OF THE OWNER	averag	e= (45)
335.00	MISCELLANEOUS PLANT EQUIPMENT	Sec.							
	FARADAY 227,708	55	R0.5	(60)	55, S.R0.5	dia (3) dia 1	55	- R0,5	* (15)
	NORTH FORK 453,550	55	R0.5 *	(196)	55 - R0.5 *	(10)	55	- Ŕ0,5	*
	OAK GROVE 90,218		- R0.5	(68)	55 - R0.5 *	(3)	55	- R0,5	* (5)
	OAK GROVE - TIMOTHY L 2,761	55	R0.5	(68)	55 R0.5	(3)	55	- R0.5	•
•	PELTON 180,730	55	R0.5	(183)	55 R0.5 *	(9)	.55	R0.5	* (40)
	RIVER MILL 20,116	55	R0.5 *	(105)	.55 - R0.5	(5)	55	- R0,5	* (30)
	ROUND BUTTE 769,106	55	R0.5	(89)	55 R0.5 *	(4)	55	R0.5	(30)
	SULLIVAN 109,226	55	R0.5	(31)	55 R0.5 *	(2)	55	R0.5	(25)
	TOTAL MISCELLANEOUS PLA 1,853,414		average	= (106)	average=	(5)		averagi	e= (25)
336.00	ROADS, RAILROADS, AND BRIDGES								
	FARADAY 1,976,298	80	R1.5 *	(60)	80 - R15 *	(1)	80	🔆 R1.5	* (15)
	NORTH FORK 1,662,877	80	R1.5.*	(196)	80 - R1.5 -	(4)	80	- R1.5	* (50)
	OAK GROVE 2,215,114	80	R1.5 *	(68)	80 - R1.5 *	(1)	80	- R1.5	(5)
	OAK GROVE - TIMOTHY L 107,015	80	R1,5	(68)	80 - R1.5 *	(1)	80	R1.5	* (5)
	PELTON 2,151,533	80	R1.5	(183)	80 - R1.5 *	(3)	80	R1.5	* (40)
	RIVER MILL 458,019	80	R1.5	(105)	80 - R1.5 *	(2)	80	- R1.5	* (30)
	ROUND BUTTE 1,192,103	80	R1.5 *	(89)	80 - R15 *	(2)	80	- R1.5	* (30)
	TOTAL ROADS, RAILROADS, 9,762,959		average	= (110)	average≂	(2)		average	e=::: (25)
	, <u> </u>	CONCERNENCE CONCERNENCE SUPPORT			La Concentration				
I	OTAL HYDRAULIC PRODUCTIC 383,994,418	Nice State							
•		<u>ANGER U</u>							
C	OTHER PRODUCTION PLANT								
0.44.00		LE CARACTER STATE							
341.00	STRUCTURES AND IMPROVEMENTS	REFER	1 2						
	BEAVER - C1 51,504,000		. Ao 	101		(0)		- nz D0	•
	COTOTE SPRINGS-CT 10,192,130	76		10)		(0)			(0)
	TOTAL OTDUOTUDED AND M 40,951,571		r(3		C AUT C BZ	(10)		RZ	(10)
	TUTAL STRUCTURES AND IM 65,126,929								
341.01		20	₽ 1 .*	70\	10 P 1	70)	1	DИ	(0)
541.01									197 197
342.00	FUEL HOLDERS, PRODUCERS AND ACCESSORIES						Nonorana Nonorana Nonorana		
	BEAVER - CT 51.221.330	45	R3 *	(8)	50 - R3 *	(8)	50	- `R3`	• (8)
	BEAVER UNIT 8 - CT 1.301	45	R3 *	(8)	50 - R3	(8)	50	R3	*(8)
	COYOTE SPRINGS - CT 35.792.019	45	R3		50 - R3	(8)	50	83	(8)
	PORT WESTIMARD - CT 9462 372	45	- R3 *	200	50 - B3 *	210	50	B 3	(e) (10)
	KB PIPELINE 19 373 076	45	R3 *	78)	50 - R3	484	50	P3	(8)
	TOTAL ELIEL HOLDERS PROL 115,850,099								
344.00	GENERATORS				Kickere Mark		Sales and		
	BEAVER - CT 92.274.546	35	- R2 *	(8)	45 - R1 *	(8)	45	R1	(8)
	BEAVER UNIT 8 - CT 3.829.309	35		(B)	45 - R1 *	(8)	45	R1	(8)
	COYOTE SPRINGS - CT 123,550.932	35	• R2	(8)	45 R1 ***	(8)	45	- R1	(8)
	PORT WESTWARD - CT 188.072.933	35	R2	10) (10)	45 - R1	(10)	45	R1	(10)
	TOTAL GENERATORS 407.727.720								
344.01	GENERATORS - WIND 860,382,974	30	R3 *	(9)	30 R3	(9)	30	R3	(9)
							kendelaj e Referalaj		
345.00	ACCESSORY ELECTRIC EQUIPMENT								
	DISPATCH GENERATION 7,166,364	40	R2.5	(5)		(6).	40	R2.5	(6)
	BEAVER - CT 12,901,411	40 -	R2.5	(8)	.40 - R2.5 *	(6)	40	R2.5	(6)
	BEAVER UNIT 8 - CT 75,508	40	R2,5 *	(8)	40 - R2.5. *	(6)	40	R2.5	(6)

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	COYOTE SPRINGS - CT PORT WESTWARD - CT	11,549,938 8,909,075	40 40	- R2.5 * - R2.5 *	(8) (10)	40 40	R2.5 R2.5	(6) (6)	40 - R25 * 40 - R25 *	(6) (6)
	TOTAL ACCESSORY ELECTR	40,602,297	CINCKLA MONOMI CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES		KARATATATA MANGANAN MANGANAN MANGANAN NATATATA					
345.01	ACCESSORY ELECTRIC EQU	24,958,049	30	- (R2.5 *	(9)	30	R2.5	(6)	30 - R2.5	(6)
346.00	MISCELLANEOUS PLANT EQUI	PMENT								
	BEAVER - CT	4,303,164	55	- R2 *	(8)	55	- R2	(2)	55 - R2 *	(2)
	COYOTE SPRINGS - CT	2,060,508	55	- R2 *	(8)	55	R2.	(2)	55 - R2 *	(2)
	PORT WESTWARD - CT	2,876,766	<u>255</u>	e R2	(10)		- R2	(2)	55 - R2	(2)
		/8,842	55	- K 2	(8)		- KZ	(Z)	->::≎5 -: R2*	(2)
	TOTAL MISCELLANEOUS PLA	3,313,213								
346.01	MISCELLANEOUS PLANT EQL	847,554	35	- R2.5 *	(9)	35	R2.5	(2)	35 - R2.5	(2)
Т	OTAL OTHER PRODUCTION PL	1,575,630,637								
Т	OTAL PRODUCTION	2,856,843,253								
Т	RANSMISSION PLANT	•								
352.00	STRUCTURES AND IMPROVE	17,407,070	60	- R2.5	(15)	60	R2.5	(15)	60 R2.5	(15)
353.00	STATION EQUIPMENT	241,319,092	52	R2	(15)	55	R2	(15)	55 - R2	(15)
354.00	TOWERS AND FIXTURES	46,808,292	70	- R3	(25)	70	- R3	(10)	70 - R3	(10)
355.00	POLES AND FIXTURES	20,460,356	48	- R1	(80)	50	R1.5	(50)	50 - R1.5	(50)
356.00	OVERHEAD CONDUCTORS A	74,129,949	60	-: R2.5	(35)	60	- R2.5	(30)	60 - R2.5	(30)
359.00	ROADS AND TRAILS	339,371	., 60	× R4	Ű	60	- R4	0	60 - R4	0
т	OTAL TRANSMISSION PLANT	400,464,130								
D	ISTRIBUTIÓN PLANT									
361.00	STRUCTURES AND IMPROVE	36,822,187	65	R2	(25)	70	- R1.5	(25)	70 - R1.5	(25)
362.00	STATION EQUIPMENT	384,524,570	54	- S0	(20)	.54	- S0	(20)	54 – S0	(20)
364.00	POLES, TOWERS AND FIXTU	325,204,225	43	n K1	(65)	48	- R1	(50)	48 - R1	(60)
365.00	OVERHEAD CONDUCTORS A	533,059,151	40	50.5	Card (10)	648 66 6	- SU.5	(60)	46 50.5	(10)
366,00		10,020,080	10	C1.6	(C),102	50	C1 E	(10)	73 - K4	(13)
367,00		306 548 578	45		(20)	45	- 01.0 D3		16 P3	(20)
369.00	SERVICES - OVERHEAD	40 361 950	50	- S0	(45)	6000	R1 5	(45).	55 R1.5	(45)
369.03	SERVICES - UNDERGROUND	337,639,570	50	- R4	(45)	50	R4	(45)	50 - R4	(45)
370.00	METERS	5,613,935	28	- S1.5	(10)	30	- S1.5	(8)	30 - \$1.5	(8)
370.01	METERS - AMI	112,581,575	15	- S2.5	(10)	18	S2.5	(8)	16 S2.5	(8)
370.02	METERS - RETAINED	7,523,317	16	- LO:5	(10)	16	- 10.5	(8)	16 L0.5	(8)
371.00	INSTALLATIONS ON CUSTOM	376,133	30	- R4	0	30	• R4	0	1	D
373.01	CIRCUITS - OTHER	21,175,640	46	+ S0.5	(60)	46	- S0.5	(30)	46 — S0.5	(30)
373.02	FIXTURES, ORNAMENTAL PO	28,661,422	28	- L1	(60)	28		(30)	28 L1	(30)
373.07	SENTINEL LIGHTING EQUIPM	8,483,866	295	10.5	(6D)	29	- L0.5	(30)	29 - 105	(50).
т	OTAL DISTRIBUTION PLANT	2,788,920,374.56								
G	ENERAL PLANT									
390.00	STRUCTURES AND IMPROVE	50,907,102	40	- R0.5	(5)	40	- R0.5	(5)	40 R0.5	(5)
390.10	STRUCTURES AND IMPROVEM	ENTS - LEASE								
	CSS	6,709	SQ	UARE	0	- Secol	IARE	0	SQUARE	0
	EASTPORT	58,032	SQ	UARE	0	SQL	JARE	0	SQUARE	U.S.
	ERC TUALATIN	276,892	SQ	UARE	0.00	SQL	IARE	0.000	SQUARE	U
	HILLSBORO	59,238	SQ	UARE	0	SQL	JARE	0	SQUARE	0
	SALEM	84,421	SQ X			SQU		0	SUUAKE	0
	WILSONVILLE	155,328	SQ SQ			SUL		U.S. C		0
	TOTAL STRUCTURES AND IM	20.016.090		UARE						
	TO THE OTTOOL ON EO AND IM	20,0,0,000								
	OFFICE FURNITURE AND EQUI	PMENT								
391.10	FURNITURE AND EQUIPN	16,154,320	15	SQ	O	15	SQ	0	15 SQ	0
391.20	COMPUTERS AND EQUIP	50,495,109	5	- SQ	0	5	- SQ	0.0	5 - SQ	Contraction of the second

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					5.5988-0-1017-1-1			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	and a second second second second second	
	TOTAL OFFICE FURNITURE A	66,649,429				LEON OF CO				
	TRANSBORTATION FOLIDMENT					Serences Serences				
202.04		10 210 250	10	c	10	to	62			40
392.04	MEDILIM DUTY TRUCKS	13,006,541	45	SL S1 5	10	19	S2 S1 5		15 Cr 5	
392.00	MEDIOM DOTT TRUCKS	8 585 405	12		10	50 10 K		0	12 12	10
392.00	TRAILERS	5,035,405	25	50	10	20.25	S0		25 50	10
392.00	AUTOS	1 174 747	1	S1 5	10	41	\$15	10	11	10
392.00	HEUCOPTER	2,703,076	20	S4	10	20	S4	10	20 54	10
002.10	TOTAL TRANSPORTATION EC	40.905.328								
					Kerenter					
393.00	STORES EQUIPMENT	2,851,686	20	SQ	0	20	SQ	0	20 - SQ	O
394.00	TOOLS, SHOP AND GARAGE	11,124,759	- 20	SQ	0	20	SQ	0	20 - SQ	0
395.00	LABORATORY EQUIPMENT	9,949,816	15	SQ	0	17 -	SQ	0	17 - SQ	0
									CLASS CLASS	
	POWER OPERATED EQUIPMENT	•			NGNENGIGU					
396.01	MAN LIFT	25,760,291	143	S1.5	5	14	S1.5	5	14 - S1 5	5
396.02	DIGGER	8,491,374	15 -	S3	5	15	S3	5	15 - S3	5.00
396.03	CRANE	4,868,443		L3	5	20	L3	5	- 20. – L3	5
396.07	CONSTRUCTION EQUIPM	5,680,187	20	Ltess	5	20	- L1	5	20 - L1	5
	TOTAL POWER OPERATED E	44,800,296				Selfer Selfer				
			CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNER OWNER OF THE OWNER OWN							
	COMMUNICATION EQUIPMENT								C.	
397.01		1,833,385	15	sa	0	15	Su	0	15 - SQ	0
397.03	RADIO, MICROWAVE ANL	69,486,641	15	su su	63 C U	15	.SQ.,	0	15 - SQ	
397,06		598,856		Su		10	50	0.0	15 - SU	U a co
397.07		72 606 046				Sector Disc	30		15 - SU	U STATE
	TOTAL COMMUNICATION EQ	72,000,940								
398.00	MISCELLANEOUS FOLIPMEN	129 175	20	sn	n an	20	SO		20	
550.00	MISCLES MECODO EQUILIMENT	120,170								
т	OTAL GENERAL PLANT	319.940.626				Network Constraints				
T	TOTAL DEPRECIABLE PLANT	6,366,168,383								
				• • • • • • • • • • • • • • • • • • •		an.c.X		nawa na ana kao amin'ny faritr'i Mariana.	an waa alaa ka ka waanging tili tabuta.	recentration and a second

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