BEFORE THE PUBLIC UTILITY COMMISSION

OF OREGON

UE 219

In the Matter of

PACIFICORP, dba PACIFIC POWER

ORDER

Application to Implement the Provisions of Senate Bill 76.

DISPOSITION: DEPRECIATION SCHEDULES ADOPTED

I. INTRODUCTION

PacifiCorp, dba Pacific Power (Pacific Power or the Company), owns and operates the Klamath Hydroelectric Project (Klamath Project). The Klamath Project is a 169 megawatt hydroelectric facility on the Klamath River in southern Oregon and northern California that includes, among other facilities, the following four mainstem hydroelectric dams on the Klamath River: Iron Gate, Copco No. 1, Copco No. 2, and J.C. Boyle. The Company operates the Klamath Project under one Federal Energy Regulatory Commission (FERC) license (FERC Project No. 2082). The Klamath Project is partially located on federal lands administered by the Bureau of Land Management and the Bureau of Reclamation.

During FERC relicensing proceedings, settlement discussions occurred among Pacific Power and stakeholders to remove the Klamath Project. As a result, an agreement in principle, the Klamath Hydroelectric Settlement Agreement (KHSA), was reached among Pacific Power, the states of Oregon and California and the United States Department of the Interior.¹ On July 14, 2009, the Oregon legislature passed Senate Bill (SB) 76 to facilitate removal of the Klamath Project pursuant to the KHSA. Among other things, SB 76 establishes procedures to implement the removal of certain Klamath Project dams.

Section 3 of SB 76, codified as ORS 757.734, requires the Public Utility Commission of Oregon (Commission) to determine new depreciation schedules that facilitate removal of certain Klamath Project dams by 2020.² ORS 757.734(2) provides that once the

¹ A more expansive description of the Klamath Project and the KHSA will be provided in a subsequent order addressing all issues in this proceeding other than those related to depreciation schedules.

² Pacific Power observes, "[t]he 'Whereas' clauses to SB 76 indicate that the policy underlying these provisions was to 'facilitate removal of the Klamath dams' by requiring the Commission to 'set rates that allow Pacific

depreciation schedule is determined, the "Commission shall use the depreciation schedules * * to establish rates and tariffs for the recovery of Oregon's allocated share of undepreciated amounts prudently invested by Pacific Power in a Klamath River dam." ORS 757.734(1) requires the Commission to approve the new depreciation schedules within six months of the execution of the KHSA. As the KHSA was executed on February 18, 2010, a new depreciation schedule must be determined by August 18, 2010.

II. PROCEDURAL HISTORY

On March 18, 2010, Pacific Power filed Advice No. 10-008, as well as an application and direct testimony to implement the provisions of SB 76. Testimony by Andrea L. Kelly addressed the adoption of new depreciation schedules.³ On June 4, 2010, Staff filed testimony recommending specific proposed depreciation schedules for each of the four dams. On June 21, 2010, Pacific Power filed reply testimony addressing and agreeing with Staff's proposed depreciation schedules. No other party filed testimony.

While Pacific Power proposed a depreciation methodology in this case, the Company included proposed depreciation rates in its pending general rate case, docket UE 217.⁴ On July 12, 2010, an uncontested stipulation was filed in UE 217. The parties to that Stipulation agree that the Commission should implement the new depreciation schedules as determined in this docket.⁵

III. DISCUSSION

A. The Proposed Depreciation Rates Conform to the Requirements of ORS 757.734

1. Parties'

Pacific Power proposes depreciation of the net book value of the Klamath Project on a straight-line basis over the remaining life of the plant, anticipated to end as early as December 31, 2019.⁶ Under Pacific Power's proposed methodology, the net book value would be adjusted each month to reflect impact from additions, retirements or any associated net salvage, as would the straight-line depreciation over the remaining period. Pacific Power recommends applying this depreciation methodology to the J. C. Boyle, Copco I, Copco II, and Iron Gate dams.⁷ Pacific Power indicates that its proposal is consistent with the

Power to recover Oregon's fair share of Pacific Power's undepreciated investment in the dams." Pacific Power's Brief on Depreciation Rate Issues at 3 (July 20, 2010).

³ See PPL/200, Kelly/16, ll. 9-19.

⁴ See Tab 6, adjustment 6.2, of the Company's general revenue requirement exhibit, PPL/1102, as filed in UE 217 on March 1, 2010. Bryce Dalley sponsored these depreciation rates in testimony at PPL/1102, Dalley/25.

⁵ See In the matter of PacifiCorp, dba Pacific Power, Request for General Rate Revision, docket UE 217, Stipulation at 3 (July 12, 2010).

⁶ See PPL/200, Kelly/16, ll. 9-13.

⁷ The Company did not propose that the new depreciation methodology be applied to the East Side and West Side dams, the two smaller facilities in the Klamath Project. In the Company's last depreciation study, the Company established a small hydro decommissioning reserve. The costs to decommission East Side and West

Company's proposal in FERC relicensing proceedings, as well as with the provision in the KHSA that Pacific Power retains the responsibility to decommission these facilities.

Staff proposes depreciation schedules using a straight-line depreciation methodology and applies it to Oregon's share of the gross plant value for the four dams.⁸ Staff obtained data from Pacific Power by FERC accounts for each of the four dams.⁹ Staff divided the remaining net balance for each of the dams as of June 30, 2009, by the remaining 10.5-year life (the period between June 30, 2009, and December 31, 2019).¹⁰ Staff calculated the straight-line depreciation rate as 6.4. percent.¹¹ Applying this rate to Oregon's share of the gross plant, valued at \$21.38 million, Staff computed a collective \$1.37 million annual depreciation expense for the four dams.¹² Based on these calculations, Staff recommends a depreciation schedule for each dam.¹³

Staff's calculations do not contain any salvage or cost of removal estimates, nor values for interim additions or interim retirements. Staff recommends that depreciation figures be adjusted as the net book value of the dams fluctuates each month due to capital additions and retirement activities—but not removal costs. Staff also recommends that plant balances and remaining life in the schedules (currently calculated from June 2009) be updated to December 2010 as a part of the Company's compliance filing in docket UE 217 prior to implementation of these depreciation rates on January 1, 2011. Staff indicates the updated plant balance should include changes from capital improvements but not removal costs.

In reply testimony, Pacific Power concurs with Staff's calculations. Pacific Power observes that Staff's calculations in the schedules for each dam varied in some respect from the Company's calculations (filed in docket UE 217), but that end results for the revenue requirement and depreciation rate are the same.¹⁴

2. Discussion

We adopt Staff's depreciation schedules, attached as Appendix A, for the J. C. Boyle, Copco I, Copco II, and Iron Gate dams. We direct Pacific Power to update these depreciation schedules to December 2010 as part of the Company's compliance filing in docket UE 217 prior to implementation of these depreciation rates on January 1, 2011. We also adopt the recommendation that as the net book value of the dams fluctuates each month due to capital additions and retirement activities, the associated depreciation rates will be adjusted to fully depreciate such capital improvements by the end of the expected life.

Side will be charged against that reserve. Pacific Power indicates that the reserve balance will be evaluated and the accrual adjusted during the next depreciation study.

⁸ See Staff/202.

⁹ Staff/200, Peng 4, ll. 5-6.

¹⁰ Staff/200, Peng/4, ll. 9-10.

¹¹ Staff/200, Peng/4, 1. 11.

¹² Staff/200, Peng/4, ll. 11-13.

¹³ Staff/202, Peng/1-9; Staff 200, Peng/5, Table I

¹⁴ Pacific Power's Brief on Depreciation Rate Issues at p. 5.

B. Implementation of New Depreciation Rates

1. Parties' Positions

Pacific Power requested an effective date of January 1, 2011, for new depreciation rates for the Klamath Project. This date coincides with the effective date of new rates resulting from the stipulation filed in docket UE 217.¹⁵ An uncontested stipulation was filed on July 12, 2010 in that docket. The parties to the UE 217 stipulation agree that the Commission should implement the new depreciation schedules determined in this docket.¹⁶

2. Discussion

We agree that implementation of new depreciation rates for the Klamath Project should take effect on the same day, January 1, 2011, as new rates resulting from resolution of Pacific Power's general rate case, docket UE 217. We will address implementation of the new depreciation rates for the Klamath Project by this date in a subsequent order entered in docket UE 217.

IV. ORDER

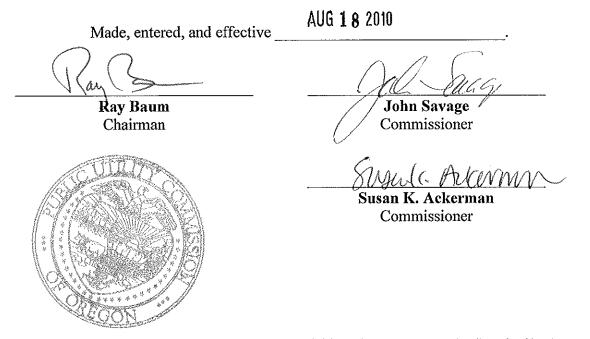
IT IS ORDERED that:

- 1. New depreciation schedules, attached as Appendix A, are adopted for the following four Klamath Hydroelectric Project dams owned and operated by PacifiCorp, dba Pacific Power: J. C. Boyle, Copco I, Copco II, and Iron Gate.
- 2. Implementation of new depreciation rates by January 1, 2011, will be addressed by a subsequent order entered in docket UE 217.
- 3. PacifiCorp, dba Pacific Power will update these new depreciation schedules to December 2010 as part of the Company's compliance filing in docket UE 217 prior to implementation of these depreciation rates on January 1, 2011.

¹⁵ See In the Matter of PacifiCorp, dba Pacific Power, Request for General Rate Revision, docket UE 217, Stipulation at 3.

 $^{^{16}}$ *Id*.

4. As the net book value of the dams fluctuates each month due to capital additions and retirement activities, the associated depreciation rates will be adjusted to fully depreciate such capital improvements by the end of the expected life.



A party may request rehearing or reconsideration of this order pursuant to 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 860-014-0095. A copy of any such request must also be served on each party to the proceeding as provided by OAR 860-013-0070(2). A party may appeal this order by filing a petition for review with the Court of Appeals in compliance with ORS 183.480-183.484.

OREGON SUMMARY

Location	FERC		End	Plant Balance	Accum Depreciation	Amount to Recover	Remaining Life	Annual Depreciation	Depreciation Rate%	Oregon Allocation %
Description	Account	Account Methodology	Lite	at b/ 30/ 2003	I conzincio 10					
JC BOYLE HYDRO				010 100 0	(7 367 303)	6.461.716	10.5	615,401	6.974%	26.177%
PLANT	303-398	LIFE SPAN	2TN7/TC/7T	0,044,040						
IRON GATE HYDRO				375 503 7	(7 DZU 22)	3 662 542	10.5	348,813	6.127%	26.177%
PLÀNT	330-398	LIFE SPAN	STN7/19/71	0/2/260/2	1. 20/220/21				-	5
COPCO #1 HYDRO				201 091 0	(1 138 151)	1.302.635	10.5	124,061	. 5.083%	26.177%
PLANT	330-397	LIFE SPAN	ATN7/TS/71	70/100	1					
COPCO #2 HYDRO				200 006 1	(1 484 204)	2.938.782	10.5	279,884	6.328%	26.177%
PLANT	330-398	LIFE SPAN	STU2/15/21	4,444,300	(; /~ /~ /					
								1 260 160	%989% A	26.177%
				21.381,167	(7,015,493)	14,355,6/4	COT	2000'T		
TOTAL										

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Depreciation Schedule for 4 Klamath Hydro Dams - Total Company

JC BOYLE HYDRO PLANT-COMPANY

	·		-																											
	Depreciation	Doted 200	roi roi/rai	[4] [4]	3.42%	9.52%		6.53%	7.27%	6.25%	7.65%	7.59%	7.95%	8.09%	4.94%	6.41%	3.34%	7000 0	0/64-0	0./0%	8.91%	4.64%	8.51%	4.25%	3.66%	6.33%	6.15%		6.97%	
•.	Annical	Councilation	Depreciation	[8]=[6]/[/]	1,030	2,503	1	154,514	3,873	841,531	83,098	629,179	419,478	73,306	7,211	56,828	156	1	04 1	10,375	4,246	2,684	629	3,385	. 854	25,548	416		2,350,917	•
			Lite	E	10.5	10.5	10.5	10.5	10.5	10.5	10-5	10.5	10.5	10.5	10.5	10.5			10.5	10.5	. 10.5	10.5	10.5	10.5	10.5	10.5	10.5			
		Amount to	Recover	[6]=[4]+[5]	10,817	26,277	0	1,622,402	40,671	8,836,078	872,527	6,921,376	4,404,518	769.714	75,715	596,693	1001	7+0'T	667	108,932	44,580	28,181	6,710	35,545	8,963	268,250	4,367		24.684.624	
	Accum	Depreciation	at 6/30/2009	[5]	(19,306)	0	0	(744,800)	(12,641)	(4,622,617)	(213,717)	(1.765,077)	(871.520)	(136.741)	(70 773)			(2,030)	(81)	(44,611)	(3,081)	(29,705)	(161)	(44,029)	(14,383)	(135.490)	(2.397)		(a n24 217)	1.+~(F30(5)
	Plant	Balance at	6/30/2009	[4]	30,123	26,277	0	2.367.202	53,311	13,458,694	1.086.244	8,686,453	5 276.038	ang arg	1 15 000	000,041		4,677	748	153,544	47,660	57,885	7,507	79.573	73,346	403 740	6 76A	1010	100 000 00	146'00'/'CC
		End	Life	[3]	12/31/2019	12/31/2019	12/31/2019	17/15/019	17/15/21	17/31/2019	17/31/2019	P100/12/01	0100/12/01		GT02/FC/21	6T07/T6/7T	FU2/18/21	12/31/2019	12/31/2019	12/31/2019	12/31/2019	17/31/2019	12/31/2019	P102/12/01	0100/12/01	010C/12/C1	0100/10/21	ł	UIAL	
JC BOYLE HYDRO PLANI-LL			Methodology	[2]	LIFF SPAN	LIFE SPAN	I IFF SPAN	LICE SPAN		LIEE SDAN							LIFE SPAN	LIFE SPAN	LIFE SPAN	11FF SPAN	LIFE SPAN	LIFE SPAN	11FF SPAN	LIFE SPAN					IVDRO PLANT	×
JC BOYLE F		FERC	Account	[1]	2034900	3301000	2210000	0001125	0002120		00000000	00000000	2330000	3340000	334/000	3351000	3360000	3910000	3912000	2970400	2010500	0000265		0000766	0000100	0000200	0000/65	298000	JC BOYLE	COMPANY

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IRON GATE HYDRO PLANT-COMPANY

:	Depreciation	Rate%	[9]=[8]/[4]	9.52%	4.46%	5.54%	6 73%	6.70%	6 36%	4.83%	л 13%	221%		5.95%	4.63%		5.85%	3.02%	5.28%	2.87%	7.11%	9.03%	5 05%	8.79%		6.13%	
	Annual D	Depreciation	[8]=[6]/[7]	32.105	205	00 087	157 783	22 667		101 0K	001000		/,T40	3,174	716	•	62.906	228	1 375	151	1 776		21 127 tr	104(17)	2	1.332,514	•
	Rem	Life	[7]	10 5	2 C F							2.U	10.5	10.5	10.5	រ ប្រ ក									CONT		
	Amount to	Recover	[6]=[4]+[5]	527105		+CT'7	1,040,41/	1,604,224	353,501	8,080,081	471,108	1,050,361	75,060	33,328	7 516			200,000	010 21	016/61	100'T	10,040	c/c	288,345	785	12 001 407	
Accum	uo					(2,448)	(746,799)	(666,071)	(148,867)	(4,020,040)	(409,014)	(898,884)	(140,587)	(19.682)	(CNO 7)	(7+c'))		(415,607)	(5,128)	(17,181,181)	(3,681)	(6,313)	(32)	(255,707)	(49)	(1 TLO 061)	(TON'OC/'/)
	olont Rolance		at 6/ 50/ 2003	[4]	337,105	4,601	1,787,216	2,270,295	502,368	12,100,121	830,121	1,949,245	215.647	52 011		12,455	Q	1,076,116	7,553	25,091	5,268	24,956	607	544,052	631		21,749,463
	742	ENU.	Lite	[3]	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/21/2019		ETN7/TC/7T	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	TOTAL	
			Methodology	[2]	LIFE SPAN	LIFE SPAN	11FF SPAN			LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	IRON GATE HYDRO PLANT	×					
IKON GALE	,	FERC	Account	(E)	3301000	3302000	3311000	3312000	3313000	3321000	3322000		0000500	334000	3347000	3351000	3352000	336000	3910000	3920400	3930000	3940000	395000	3970000	398000	IRON GAT	COMPANY

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COPCO #1. HYDRO PLANT-COMPANY

																				•			i			
	Depreciation	Rate%	[9]=[8]/[4]	9.52%	0.61%	20000	0.00%	6.03%	5.34%	%27. 6	2004 0	0/11/0	5.60%	5 08%		4.07%	6.54%		E 4602	N.C.T.C.	4.60%	7.53%		5.08%	, , ,	
	Annual	Depreciation	[8]=[6]/[7]	13.620		33	(71)	77,069	4,680	71 840		218,485	74,750	700 0	10017	59	6.901	1		1,430	312	1711		A72 078		
	Rem	Life	17	10.5		CTOT	10.5	10.5	10.5	104	C ÓT	10.5	10.5		C DT	10.5	10 10			10.5	10.5	и С т				
Amount	to	Recover	[6]=[4]+[5]			2,340	(127)	809,219	49.145		124,321	2,294,070	784874		31,46/	618	77 458	00-1-1-7-1	S	13,609	3,280		706'/T		4,9/0,243	
Accum	Depreciation	at 6/30/2009	<u>ut 0/ 50/ 5005</u> [5]			(34,000)	. (1,156)	(469-036)	(38,577)		(1,887,263)	(1,288,287)	1540 041)		(27,569)	(644)		(-05'75)	0	(10,167)	(3.504)		(4,764)		(1.58,745,4)	
Plant	Balance at	0006/06/3	CONT INC IN	4	143,005	36,340	1.030	1 778 755		77110	2,641,584	3 582 357		1,004,014	59,036	1.262		1105,444 Z	0	23,777	6 784		22,726		9,324,133	
	End	211	216	[5]	12/31/2019	12/31/2019	12/15/219		6T07/TC/7T	STUS/15/21	12/31/2019.	0100/12/010		6T07/TE/ZI	12/31/2019	0100/12/010		12/31/2019	12/31/2019	12/31/2019		CTN7/TC/7T	12/31/2019	NT TOTAL	•	
COPCO #1 HYDRU PLANI-C			Methodology	[2]	LIFE SPAN	LIFE SPAN	I ICE SDAN			LIFE SPAN	LIFE SPAN	ITEE CDAM		LIFE SPAN	LIFE SPAN	LIFE CDAM		LIFE SPAN	LIFE SPAN	I IFF SPAN		LIFE SPAN	LIFE SPAN	COPCO #1 HYDRO PLANT	×	
COPCO #1		FERC	Account	E	3301000	3307000		00000000	3311000	3313000	3321000		2220000	3340000	3347000		23521000	3360000	390000	2020400	00000000	3940000	3970000	COPCO #1	COMPANY	

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COPCO #2 HYDRO PLANT-COMPANY

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			Plant	Accum					
		End	Balance at	Depreciation	Amount to		Annual	Depreciation	
FERC		сла 1 îfe	6/30/2009	at 6/30/2009	Recover	Rem Life	Depreciation	Rate%	
Account	NIECTIOGUUGY	121	[7]	[5]	[6]=[4]+[5]	E	[8]=[6]/[7]	[9]=[8]/[4]	
[1]	[2]		10 0C		20.914	10.5	1,992	9.52%	
3301000	LIFE SPAN	6T07/T2/7L	4TA102		1 472 073	10.5	135,612	6.21%	
3311000	LIFE SPAN	12/31/2019	2,184,729				707 50	0.81%	
3321000	LIFE SPAN	12/31/2019	2,954,724	(2,704,856)	249,869	C'NT	161/07		
	LIES SPAN	12/31/2019	3,485,850	(1,421,954)	2,063,896	10.5	196,562	2.04%	
00000000		0100/10/01	6 553 106	(260.500)	6,292,606	10.5	599,296	9.15%	
3340000		0100/10/01	759.420	(124.611)	134,808	10.5	12,839	4.95%	
3347000	LIFE SPAIN	2707/TC/7T			с	10.5	ı		
3351000	LIFE SPAN	12/31/2019	5			104	26 570	7.63%	
3360000	LIFE SPAN	12/31/2019	479,588	(95,507)	584,UST			0 51%	
3910000	LIFE SPAN	12/31/2019	1,934	(1,831)	103	10.5	2		
2012000	LIFE SPAN	12/31/2019	749	(81)	668	10.5	64	8.43%	
0002700	LIFE CDAN	0100/15/01	1.572	(62)	892	10.5	85	5.41%	
DUDELES		0102/mc/21		(38,575)	108,671	10.5	10,350	7.03%	
3920400		GTN7/TC/7T		(2.2(22) (2.809)	176.485	10.5	16,808	9.32%	
3920600	LIFE SPAN	6TN7/T9/7T	100,234	(000/0)	12 445	10.5	1.281	9.01%	
3920900	LIFE SPAN	12/31/2019	14,207			101	319	9.48%	
3930000	LIFE SPAN	12/31/2019	3,367	(/T)			1 745	3 07%	
3940000	LIFE SPAN	12/31/2019	57,759	(39,436)	18,324	COT			
	I IEE SDAN	9100/15/01	534.770	(211,912)	322,859	10.5	30,748	5./5%	
			2 649	(211)	3,138	10.5	299	8.19%	
3972000	LIFE SPAN	CTNY /TC/7T			O EAD	•	810	6.47%	
3980000	LIFE SPAN	12/31/2019	12,523	(4,014)	200'0				
COPCO #	COPCO #2 HYDRO PLANT 7	TOTAL					1 050 1 04	%EE 9	
COMPANY	١٧		16,896,402	(5,669,860)	11,226,542	1	107'000'T	1	

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page 6		Oregon	Allocation%	[10]	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	
		Depreciation		[9]=[8]/[4]	3.42%	9.52%		6.53%	7.27%	6.25%	7.65%	7.59%	7.95%	8.09%	4.94%	6.41%	3.34%	8.49%	6.76%	8.91%	4.64%	8.51%	4.25%	3.66%	6.33%	6.15%	6.97%
		Annual	Depreciation	[8]=[6]/[7]	270	655	. 0	40,447	1,014	220,288	21,753	172,554	109,807	19,189	1,888	14,876	41	17	2,716	1,111	703	167	886	223	6,688	109	615,401
		Rem	Life	Ε	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	
-		Amount to	Recover	[6]=[4]+[5]	2,832	6.879	0	424,697	10,646	2,313,028	228,402	1,811,815	1,152,975	201,489	19,820	156,197	430	175	28,515	11,670	7,377	1,756	9,305	2,346	70,220	1,143	6,461,716
	Accum	Depreciation	at 6/30/2009	[5]	(5.054)	0	, c	(194.967)	(3,309)	(1,210,066)	(55,945)	(462,046)	(228,139)	(35,795)	(18,395)	(75.918)	(795)	(12)	(11.678)	(806)	(1,776)	(209)	(11,525)	(3,765)	(35,467)	(627)	(2,362,303)
	Plant	Balance at	6/30/2009	[4]	7.885	5 879		619 665	13,955	3.523,094	284,347	2.273,861	1.381.113	237.284	38.215	732.115	1.224	104	40.193	12,476	15,153	1.965	20.830	6.111	105,687	1,771	8,824,019
EGON	•	End	Lífe	[2]	12/21/2019	0100/10/01		6100/10/21	010C/1E/C1	17/31/2019	12/31/2019	12/31/2019	17/31/2019	10/12/019	910C/12/C1	010C/1E/C1	0102/12/21		6102/12/21	12/31/2019	12/31/2019	12/31/2019	12/31/2019	12/31/2019	17/31/2019	12/31/2019	OTAL OREGON
IC BOYLE HYDRO PLANT-OREGON			Methodology	[2]	1 IEE CDAN			LIFE SPAN	LIFE SFAN		LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN					LIFE SPAN	LIFE SPAN	LIFF SPAN	1 IFF SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	LIFE SPAN	JC BOYLE HYDRO PLANT -TOTAL ORE
JC BOYLE H		LEED	Acronint	141	141	5054500	NONTRE	3310000	0002122	0001000	3372000			0001466	2041000	0000366	0000100	0000165	3912000	2920400	2020202	2020000	0000765		0000202	0000166	JC BOYLE

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page 7		Uregon	Allocation%	[10]	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	25 1774	0///T'07	0///7.07	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	26.177%	10/11/0/	0///T.07		
ba		LO LO		[9]=[8]/[4]	9.52%	4.46%	5.54%	6.73%	6.70%	6.36%	4.83%	5.13%	3.31%	2,09%	1000	4.03%		5.85%	3.02%	5.28%	2.87%	7.11%	9.03%	5 N5%		8./3%	6.13%	
			Depreciation	[8]=[6]/[7]	. 8,404	54	25,938	39,994	8,813	201,441	10,498	26,186	1,871	821		/91	0	16,467	60	347	40	465	14	7 1 20	COT'/	15	348,813	
		Rem	Life.	[2]	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	104		10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5		C-01	10.5		·
		Amount to	Recover	[6]=[4]+[5]	88,244	564	272,351	419,939	92,536	2.115.130	110,234	274.954	19,649		0,124	1,968	0	172,902	627	3,641	416	4,880	151		/2/48U	152	2 667 EA7	340,200,0
	Accum	Depreciation	at 6/30/2009	[5]	0	(641)	(195.490)	(174,358)	(38,969)	(1 052.329)	(107,068)	(735,307)	(36 807)	(200/00)	(אכב,כ)	(2,079)	0	(108,794)	(1,350)	(2,927)	(363)	(1.653)	(8)		(66,937)	(13)	(700 000 0)	(+-0,050,2)
	Plant	Balance at	6/30/2009	[4]	88.244	1 204	467,841	594.297	121 505	2 167 459	217 307	E10 356		004/00	13,877	4,047	0	281.696	1.977	6,568	1.379	6 523	150		142,417	165		5,693,576
DREGON		End	Life	[3]	17/31/2019	0100/12/01	01UC/12/01	17/31/2019	0100/100/01		0100/10/77		6TU2/L6/21	ST07/T2/7T	12/31/2019	12/31/2019	12/31/2019	12/31/2019	17/31/2019	12/31/2019	12/31/2019	10/21/21/010		ETNZ/TE/ZT	12/31/2019	12/31/2019	TOTAL	
IRON GATE HYDRO PLANT-OREGON			Methodology	161										LIFE SPAN	LIFE SPAN	LIFE SPAN	11FF SPAN	LIFE SPAN		LIFE SPAN	LIFF SPAN			LIFE SPAIN	LIFE SPAN	LIFE SPAN	IRON GATE HYDRO PLANT TOTAL	
IRON GATE		FERC	Account	151		ODOTOSS	3302000	0001725	0000755	3313000	3321000	3322000	3330000	3340000	3347000	3351000	2252000	226000	200000		2020000	0000000	294000	3950000	3970000	3980000	IRON GAT	OREGON

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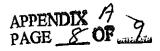
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COPCO #1 HYDRO PLANT - OREGON

26.177% 26.177% 26.177% 26.177% 26.177% 26.177% 26.177% 26.177% 26.177% Allocation% 26.177% 26.177% 26.177% 26.177% 26.177% 26.177% Oregon 9 5.08% 5.45% 4.60% 4.67% 7.53% 5.60% 5.08% 6.54% Depreciation 6.10% 9.52% 0.61% 0.00% 6.03% 5.34% 2.72% [9]=[8]/[4] Rate% 339 1,806 448 124,061 5 82 3,565 18,806 57,192 19,567 784 30 20,174 1,225 $\widehat{\mathbb{O}}$ Depreciation [8]=[6]/[7] Annual 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 Rem Life Ξ 859 3,563 4,702 18,968 1,302,635 0 197,459 205,457 8,237 162 613 211,830 12,865 (33) 600,521 37,435 Amount to [6]=[4]+[5] Recover (1,138,151) (2,662) (917) (8,634) (1,247) (337,236) (7,217) (168) (8,900) (303) (10,098) (143,958) 122,780) 494,031) Depreciation at 6/30/2009 Accum 5 1,776 6,224 330 27,602 5,949 269 334,610 22,963 349,416 15,454 2,440,787 9,513 691,490 37,435 937,757 **Plant Balance** at 6/30/2009 4 12/31/2019 2/31/2019 2/31/2019 12/31/2019 2/31/2019 2/31/2019 2/31/2019 2/31/2019 12/31/2019 2/31/2019 2/31/2019 2/31/2019 2/31/2019 2/31/2019 12/31/2019 End Life Ξ COPCO #1 HYDRO PLANT TOTAL Methodology LIFE SPAN LIFE SPAN LIFE SPAN JFE SPAN LIFE SPAN LIFE SPAN JFE SPAN LIFE SPAN LIFE SPAN IFE SPAN JFE SPAN JFE SPAN IFE SPAN JFE SPAN LIFE SPAN [2] 3970000 OREGON 390000 3940000 3920400 3347000 3351000 3360000 3304000 3311000 3313000 3321000 3330000 3340000 Account 3302000 3301000 FERC Ξ



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COPCO #2 HYDRO PLANT - OREGON

			Plant	Accum						
FERC		End	Balance at	Depreciation	Amount to	Rem	Annual	Depreciation	Oregon	
Account	Methodology	Life	6/30/2009	at 6/30/2009	Recover	Līfe	Depreciation	Rate%	Allocation%	
[1]	[2]	[3]	[4]	[5]	[6]=[4]+[5]	E	[8]=[6]/[7]	[9]=[8]/[4]	[10]	
3301000	LIFE SPAN	12/31/2019	5,475	0	5,475	10.5	521	9.52%	26.177%	
3311000	LIFE SPAN	12/31/2019	571,898	(199,157)	372,742	10.5	35,499	6.21%	26.177%	
3371000	11FE SPAN	12/31/2019	773,461	(708,052)	65,408	10.5	6,229	0.81%	26.177%	
333000	LIFF SPAN	12/31/2019	912,494	(372,226)	540,268	10.5	51,454	5.64%	26.177%	
2240000	LIFE SPAN	12/31/2019	1.715.412	(68,191)	1,647,221	10.5	156,878	9.15%	26.177%	1
3247000	LIFE SPAN	17/31/2019	606.79	(32,620)	35,289	10.5	3,361	4.95%	26.177%	
2261000	LIFE SPAN	17/21/2019		• O	o	10.5	0		26.177%	
3360000	LIFE SPAN	12/31/2019	125.542	(22,001)	100,541	10.5	9,575	7.63%	26.177%	
3910000	LIFF SPAN	12/31/2019	506	(479)	27	10.5	'n	0.51%	26.177%	
	LIFF SPAN	12/31/2019	196	(21)	175	10.5	17	8.49%	26.177%	
3913000	LIFE SPAN	12/31/2019	411	(178)	234	10.5	77	5.41%	26.177%	
3020400	LIFF SPAN	17/31/2019	38.545	(10,098)	28,447	10.5	2,709	7.03%	26.177%	
3970600	I IFF SPAN	12/31/2019	47.196	(266)	46,199	10.5	4,400	9.32%	26.177%	
3920900	LIFE SPAN	12/31/2019	3,719	(199)	3,520	10.5	335	9.01%	26.177%	
3930000	LIFE SPAN	12/31/2019	881	(4)	, 877	10.5	84	9.48%	26.177%	
3940000	LIFE SPAN	12/31/2019	15,120	(10,323)	4,797	10.5	457	3.02%	26.177%	
3970000	1 IFF SPAN	12/31/2019	139,987	(55,472)	84,515	10.5	8,049	5.75%	26.177%	
3972000	I IFF SPAN	12/31/2019	955	(134)	821	10.5	78	8.19%	26.177%	
3980000	LIFE SPAN	12/31/2019	3,278	(1,051)	2,227	10.5	212	. 6.47%	26.177%	
5	COBCO #2 HYDRO PI ANT TOTAL OBEGON	DTAL ORFGON	4.422.986	(1.484,204)	2,938,782		279,884	6.33%	÷	

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6.40%

1,368,159

14,365,674

(7,015,493)

21,381,167

TOTAL OREGON

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