

UE-991262/PacifiCorp
December 1, 1999
Public Counsel Data Request No. 51

Public Counsel Data Request No. 51:

Provide the historical availability factor, equivalent availability factor, forced outage rate, and capacity factor for Centralia for each year since commercial operation.

Response to Public Counsel Data Request No. 51:

The requested information is provided as Public Counsel Data Request Attachment Response 51.

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Year	Availability Factor	Equiv. Availability Factor	Forced Outage Rate	Capacity Factor
1974	56.30	56.30	15.00	37.06
1975	71.53	71.53	11.69	53.92
1976	70.49	66.47	21.34	53.74
1977	79.67	73.16	7.58	71.60
1978	69.90	64.06	20.92	55.99
1979	77.32	68.50	15.78	67.05
1980	79.76	72.54	7.38	64.01
1981	90.38	83.55	4.14	62.87
1982	84.46	79.90	5.57	48.77
1983	79.79	75.31	6.65	55.02
1984	74.50	71.55	3.11	57.81
1985	87.96	85.38	1.03	70.91
1986	86.43	85.38	3.19	45.53
1987	94.07	93.22	2.64	73.46
1988	89.34	86.76	3.29	77.79
1989	83.69	80.76	4.69	76.64
1990	89.43	89.20	5.49	65.66
1991	90.92	90.35	2.81	68.77
1992	92.90	92.50	2.03	83.45
1993	83.37	82.55	12.49	76.48
1994	90.43	86.93	3.54	83.28
1995	87.32	85.49	2.94	49.87
1996	96.87	95.41	2.41	68.48
1997	92.18	88.76	2.68	59.30
1998	92.37	91.22	1.61	79.16
1999	93.17	91.42	4.21	69.96

002
CC: NANCY TOWNE-SHIF
MARK WICKER

237

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Dec 10 3 40 PM '99

UTAH
SERVICE COMMISSION

Attorneys for PacifiCorp

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

IN THE MATTER OF THE APPLICATION)	
OF PACIFICORP, DBA UTAH POWER &)	
LIGHT COMPANY FOR APPROVAL OF)	Submission of Proposed Electric
STANDARD RATES FOR PURCHASES)	Service Schedule No. 37
OF POWER FROM QUALIFYING FACILITIES)	
HAVING A DESIGN CAPACITY OF 1,000)	DOCKET NO. 97-2035-02
KILOWATTS OR LESS)	

PacifiCorp, dba Utah Power & Light Company ("PacifiCorp" or "Company"), hereby submits for approval by the Public Service Commission of the State of Utah ("Commission") the Company's proposed Electric Service Schedule No. 37, and in support thereof as follows:

1. This filing is made pursuant to the Commission's October 20, 1999 Order issued in this docket, directing the Company to resubmit its proposed Electric Service Schedule No. 37 based on the recommendations of the Division of Public Utilities ("Division"). PacifiCorp's revised proposed Electric Service Schedule No. 37, which is attached hereto as Exhibit A, establishes standard avoided cost prices for purchases of power from qualifying facilities located in the State of Utah with a design capacity of 1,000 kW or less.

1 - SUBMISSION OF PACIFICORP

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2. As described in more detail in Exhibit B, which is attached hereto, the proposed avoided cost prices are based on PacifiCorp's Fourth Resource and Market Planning Program model (RAMPP-4), with known and measurable changes to inputs and assumptions.

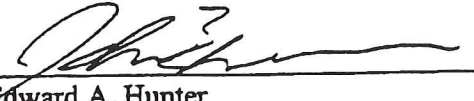
WHEREFORE, PacifiCorp respectfully requests that the Commission issue its Order Approving PacifiCorp's revised proposed Electric Service Schedule No. 37.

DATED this 10th day of December, 1999.

Respectfully submitted,

STOEL RIVES LLP

By


Edward A. Hunter
John M. Eriksson

Attachment 4

PacifiCorp
Avoided Costs
 RAMPP-4/5 Update (Utah)
 Summary

Year	Avoided Firm Capacity Costs (\$/kW-mo) (1)	Avoided Energy Costs \$/MWh (2)	Total Avoided Costs 75% CF \$/MWh (3)	Total Avoided Costs 85% CF \$/MWh (4)	Total Avoided Costs 95% CF \$/MWh (5)
1 1999	0.00	14.24	14.24	14.24	14.24
2 2000	0.00	15.03	15.03	15.03	15.03
3 2001	0.00	14.65	14.65	14.65	14.65
4 2002	0.00	16.57	16.57	16.57	16.57
5 2003	2.40	17.49	21.86	21.35	20.94
6 2004	2.48	18.71	23.24	22.70	22.28
7 2005	2.56	18.77	23.45	22.90	22.48
8 2006	2.65	22.37	27.21	26.64	26.19
9 2007	2.74	21.86	26.87	26.28	25.81
10 2008	5.13	23.76	33.14	32.04	31.17
11 2009	5.29	24.54	34.20	33.06	32.16
12 2010	5.45	25.38	35.33	34.16	33.24
13 2011	5.61	26.24	36.49	35.28	34.33
14 2012	5.78	27.16	37.72	36.48	35.50
15 2013	5.95	28.03	38.90	37.62	36.61
16 2014	6.13	29.03	40.23	38.91	37.87
17 2015	6.32	30.04	41.57	40.22	39.15
18 2016	6.50	31.05	42.94	41.54	40.43
19 2017	6.70	32.14	44.38	42.94	41.80
20 2018	6.90	33.27	45.88	44.39	43.22
21 2019	7.11	34.44	47.42	45.89	44.69
22 2020	7.32	35.65	49.02	47.45	46.20
23 2021	7.54	36.90	50.67	49.05	47.77
24 2022	7.77	38.19	52.38	50.71	49.39
25 2023	8.00	39.54	54.15	52.43	51.07
26 2024	8.24	40.92	55.97	54.20	52.81
27 2025	8.49	42.36	57.86	56.04	54.60
28 2026	8.74	43.85	59.82	57.94	56.46
29 2027	9.00	45.39	61.84	59.90	58.37
30 2028	9.27	46.99	63.93	61.93	60.33
31 2029	9.55	48.64	66.09	64.03	62.41
32 2030	9.84	50.35	68.32	66.21	64.54
33 2031	10.13	52.12	70.63	68.45	66.73
34 2032	10.44	53.95	73.02	70.78	69.01
35 2033	10.75	55.85	75.49	73.18	71.36

Column
Notes:

(1) The fixed cost of a simple cycle combustion turbine.

(2) Combined cycle fuel cost and capitalized fixed cost of a combined cycle combustion turbine which is in excess of a simple cycle combustion turbine.

(3) Combined costs, assuming a 75% capacity factor.

(4) Combined costs, assuming a 85% capacity factor.

(5) Combined costs, assuming a 95% capacity factor.

CMC Capital Expenditures (100%)

escalation rate 3.0%

5-yr Plan Direct Costs - 100%

	Actual Expenditures		esc. to year spent
	nominal \$	esc. factor	
2003	11,630	112.6%	13,090
2002	15,975	109.3%	17,456
2001	14,826	106.1%	15,729
2000	15,497	103.0%	15,962

Actual Direct Costs - 100%

	Actual Expenditures		esc. to 1999
	nominal \$	esc. factor	
1991	4,780	126.7%	6,055
1992	4,457	123.0%	5,462
1993	4,838	119.4%	5,777
1994	19,990	115.9%	23,174
1995	2,241	112.6%	2,522
1996	6,649	109.3%	7,266
1997	6,116	106.1%	6,488
1998	6,733	103.0%	6,935
total all years			63,699
8 year average in 1999\$			7,962

Use for modeling after 2003 \$18,000

PacifiCorp Share 3,800

*Centuria Model 5 box top
Capex*

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CENTRALIA PLANT 1999 5 YEAR CAPITAL PLAN 100% DIRECT COST		Direct Project Cost (\$000)									
Project Description	Overhaul Related "x"	Prior Years	1999	2000	2001	2002	2003	Future Years			
COMMON, REPLACE 10TH FLOOR ROOF			650								
COMMON, REPLACE CRAWLER 10			810								
COMMON, REPLACE MISC PUMPS, MOTORS, VALVES, ETC.			144								
UNIT #2, REPLACE COOLING TOWER FILL			1,157								
COMMON, EXTEND COAL UNLOADING FACILITY RAIL SPUR			979								
COMMON, REPLACE EQUIPMENT FOR YEAR 2000 COMPLIANCE			0								
COMMON, REPLACE FLYASH TRANSPORT SYSTEM CONTROLS			102								
COMMON, REPLACE ROOF ON TURB AND DEWHN ROOM				725							
COMMON, REPLACE JLG MANLIFT				100							
COMMON, REPLACE AUX BOILER CONTROLS				105							
UNIT #2, REPLACE DISSIMILAR METAL WT	x	60			833						
UNIT #2, REPLACE PCB TR*	x				600						
COMMON, REPLACE DROTT MOBILE CRANE					340						
COMMON, REPLACE B30 LOADER					250						
UNIT #2, REPLACE HYDROGEN COOLERS	x	8			169						
UNIT #2, REPAIR STRUCTURAL STEEL AN	x	163			79						
UNIT #2, CRITICAL PIPING REPAIR (REPL	x				750						
COMMON, REPLACE CEMS, UNIT #1 & UNIT #2					400						
UNIT #2, INSTALL MILL INERTING SYSTEM					900						
UNIT #2, REWIND GENERATOR (PHASE II	x				5,956						
UNIT #2, REPLACE GENERATOR ROTOR (x	1,812									
UNIT #2, REPLACE GENERATOR ROTOR (x				827						
UNIT #2, REPLACE AIR PREHEATER BASH	x				1,495						
UNIT #2, REPLACE LODGE PRECIP AVC'S	x				168						
UNIT #2, REPLACE #21 AND #22 AUX TUR	x				115						
UNIT #1, CRITICAL PIPING REPAIR (REPL	x					750					
UNIT #1, REPLACE PCB TR*	x					800					
UNIT #1, REWIND GENERATOR	x	8				168					
UNIT #1, REWIND GENERATOR	x	13			4,414						
UNIT #1, INSTALL MILL INERTING SYSTEM					6,783						
UNIT #1, REPLACE LODGE PRECIP AVC'S					900						
COMMON, UPGRADE COAL RECLAIM AND GALLERY SYSTEMS					168						
UNIT #1, REPLACE #11 & #12 AUX TURBINE ALARMS					120						
COMMON, REPLACE CAT #27 SCRAPER					115						
COMMON, REPLACE D8 CRAWLER							922				
UNIT #1, REPLACE COOLING TOWER FILL							800				
OTHER			2,816				1,900				
SUBTOTAL PLANT PROJECTS >100K		2,064	3,842	930	17,297	9,605	3,822				0
SUBTOTAL PLANT PROJECTS <100K		0	865	800	800	800	800				0
TOTAL PLANT CAPITAL PROJECTS		2,064	7,523	1,730	18,097	10,405	4,422				0
Escalation Factor	3.0%		100.00%	103.00%	106.09%	109.27%	112.55%				
Escalated Capital Cost			7,853	1,782	19,199	11,370	4,977				
Capital Projects @ PacifiCorp 47.5% Share			3,574	846	9,119	5,401	2,364				

(2)

From: <mschaer@wutc.wa.gov>
To: "George Galloway" <GMGALLOWAY@stoel.com>
Date: Monday, January 24, 2000 12:51 PM
Subject: Exhibit 239: Bench Request 11

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RECORDS MANAGEMENT
00 JAN 26 AM 11:16
STATE OF WASH.
UTIL. AND TRANSP.
COMMISSION

Dear Mr. Galloway:

Mr. Adams filed with the Commission on January 21, 2000, a letter questioning the admissibility of the PacifiCorp response to Bench Request No. 11 (Exhibit 239). The letter indicates that the response was provided to the parties after the close of the hearings in the Centralia applications.

I have checked with the Commission Record Center, and we are unable to find a copy of the PacifiCorp response to Bench Request No. 11. As a Bench Request, this should have been filed with the Commission. Please file a copy of this response as soon as possible.

Thank you for your assistance.

Very truly yours,

Marjorie R. Schaer]
Administrative Law Judge

CC: PDX.SMTP("lavitt@workerlaw.com","matth@summitlaw.c...

JAN 25 2000

Enclosed for filing are 20 copies of PacifiCorp's response to Bench Request No. 11.

WUTC DOCKET NO. UE-991255
EXHIBIT NO. 239
ADMIT W/D REJECT

From: George Galloway
To: "bcedarba@wutc.wa.gov"@PDX.SMTP, "mschaer@wutc.wa...
Subject: Re: Centralia Cross-Examination Estimates

Attached is PacifiCorp's response to Bench Request No. 11. A hard copy is being mailed to you and the parties today as well.

>>> <mschaer@wutc.wa.gov> 01/06 8:41 AM >>>

Please send in your time estimates asap. Also, the Comissioners would like to know the order of witnesses past Friday--please provide the order of staff witnesses, and the order in which the intervenors will appear. Finally, I do not have exhibit lists for each party, which was requested. ms

Bob Cedarbaum
01/05/2000 02:35 PM

To: Marjorie Schaer/WUTC@WUTC
cc: chucka@atg.wa.gov, gdahlke@painehamblen.com, gmgalloway@stoel.com,
matth@summitlaw.com, nancy@nwenergy.org, lavitt@workerlaw.com,
dunwei@ibm.net
Subject: Centralia Cross-Examination Estimates

Staff's preliminary assessment of its time estimates for cross examination are as follows:

No Questions Ely, Perks, Johnson (Avista)
 Weaver (Pacifcorp)
 Lazar (Public Counsel)
 Wolverton (ICNU)
 Hirsh (NW Energy Coalition)
 Howins (Local 612)

10-20 minutes each Gaines, Karzmar (PSE)
 Miller, Wright (Pacifcorp)
 Dukich, McKenzie (Avista)

CC: "chucka@atg.wa.gov"@PDX.SMTP, "dunwei@ibm.net"@PD...

Mail Envelope Properties (3884C9A4.698 : 5 : 27022)

Subject: Re: Centralia Cross-Examination Estimates
Creation Date: Tue, Jan 18, 2000 12:14 PM
From: George Galloway

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WUTC Bench Request 11 Response.xls		22016
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PacifiCorp's Response to Washington Utilities and Transportation Commission Bench Request 11 in Docket No. UE-991262

Request: Please provide results of Base Case 23-year analysis for power value only.

Response: PacifiCorp's analysis of the benefits to customers is a present value of revenue requirement analysis. It incorporates return of a portion of the gain on sale to customers.

It also includes removal of the mine and plant rate base and other fixed cost elements of Centralia-related revenue requirement.

The variable power cost impact of selling Centralia, called system net power cost in PacifiCorp's analysis, is addressed by rebalancing and redispatching the remaining system to meet load at lowest possible cost. This procedure, while appropriate, makes simple "power value only" analysis somewhat difficult.

Below is a tabulation of the value of power impacts of selling Centralia. It consists of:

Computing the increase in net power cost (only) resulting from the sale and rebalancing and redispatching the remaining system to meet load, then subtracting the plant and other fixed costs associated with power produced by Centralia, and adding in sell case incremental transmission costs.

The result is a measure of the impact on the value of power to PacifiCorp's customers of selling the Centralia Plant and Mine.

NOTE:

This analysis does not incorporate the value of the customer's share of gain on sale proposed by the Company. The value of the customer's share of gain on sale under the Company's proposal is \$87 million. When added to the analysis below, this results in net benefit to customers of \$42 million.

	Discount Rate:	7.82%	(\$000)										
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
BASE CASE increase in System Net Power Cost if Centralia is Sold /		493,669	35,786	37,202	39,138	39,332	42,168	40,836	43,869	43,074	46,190	46,250	48,041
Removal of Mine & Plant Non-fuel Revenue Requirement /2		(526,815)	(36,318)	(46,568)	(51,628)	(46,889)	(48,196)	(46,896)	(46,130)	(45,669)	(49,361)	(49,492)	(49,847)
Add in Sell Case Incremental Transmission Expense /3		77,882	6,171	6,262	6,357	6,087	6,482	6,181	6,660	6,604	7,284	7,060	7,188
Power Value Only (Benefit) / Disbenefit of Sale of Centralia		44,736	5,640	(3,104)	(6,134)	(1,470)	454	122	4,398	4,008	4,112	3,818	5,382
Excludes impact of gain on sale of Plant and Mine													

/1 From Centralia Model and Back Tab: System Net Power Costs BASE case "without" minus BASE case "with" Resulting from Rebalancing and Redispatching.

Does not include removal of plant from rate base or other fixed cost effects. Does not include transmission cost changes.

/2 From Centralia Model and Back Tab: Keep RevReq Line 32 plus Line 54

/3 From Centralia Model and Back Tab: Sell RevReq Line 5

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	48,963	50,125	50,257	50,922	51,608	51,198	51,128	50,756	51,670	52,600	53,547	54,511	55,492						
(50,434)	(51,204)	(51,946)	(48,128)	(48,885)	(49,467)	(49,939)	(50,523)	(51,050)	(51,360)	(50,811)	(49,599)	(49,180)		5,701	4,223	4,215	4,206	3,603	1,515
7,323	7,552	7,683	7,821	7,632	8,070	8,263	8,405	8,557	8,711	8,868	9,027	9,190							
5,852	6,473	5,993	10,614	10,354	9,802	9,452	8,639	9,177	9,951	11,604	13,938	15,501		5,701	4,223	4,215	4,206	3,603	1,515