



May 2, 2011

VIA ELECTRONIC FILING AND OVERNIGHT DELIVERY

Utah Public Service Commission Heber M. Wells Building, 4th Floor 160 East 300 South Salt Lake City UT 84111

Attention:

Julie P. Orchard

Commission Secretary

Re:

Docket No. 06-999-03

Rocky Mountain Power's Fossil Fuel Energy Efficiency Standard Plan

On August 10, 2007, the Public Service Commission of Utah issued its Determination Concerning the PURPA Fossil Fuel Generation Efficiency Standard and adopted the PURPA Fossil Fuel Generation Efficiency Standard with a due date of March 31 each year. On November 25, 2010, the Commission modified the filing schedule to May 1 each year.

Enclosed for filing is the 2011 Rocky Mountain Power Fossil Fuel Energy Efficiency Plan Report for all coal fired plants. The report includes a heat rate improvement plan for the PacifiCorp system followed by individual plans for each coal fired plant. Heat rate improvement plans are still being developed for gas fueled plants and therefore are not included with this report. Also included is the summary of the 2010 FERC Form 1 data.

It is respectfully requested that all formal correspondence and staff requests regarding this filing be addressed to:

By e-mail (preferred):

datarequest@pacificorp.com

By regular mail:

Data Request Response Center

PacifiCorp

825 NE Multnomah, Suite 2000

Portland, Oregon, 97232

Utah Public Service Commission May 2, 2011

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Informal questions should be directed to Dave Taylor at (801) 220-2923.

Sincerely,

Jeffrey K. Larsen

Vice President, Regulation

cc:

Division of Public Utilities Office of Consumer Services

- 0				Hari						100					Total	Acct no
	Kind of Plant (Internal Comb, Gas Turb, Nuclear	Steam - Geo	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Gas - Turbine	Steam	Steam		
	Type of Constr (Conventional, Outdoor, Boiler, etc)	Indoor	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor Bailer	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Conventional		
	Year Originally Constructed	1984	1954	1959	1951	1978	1980	1983	1978	1974	1974	1972	1963	1978		
	Total Installed Can (Max Gan Name Diste Detine: MM)	78.5	3 881	7 310	1800	0.00	1960	1963	200	78-00	8/80	7/61	C 50 F	1978		
	Net Peak Demand on Plant - MM (60 minutes)	24	183	707	0.103	400	7.507	440.4	1.040.1	0.2%.0	0.484.4	0.0	7.101	7.887	0,617.0	
	Plant Hours Connected to Load	8 719	8 754	8 76n	8 485	8 370	7 621	8 220	3,760	8 727	0 t-1 0	0 90 1	760	7 956	D D	
	Net Continuous Plant Capability (Megawatts)				; '			O Table				7	20,10	200,		
	When Not Limited by Condenser Water	23	175	772	235	370	238	395	1 004	805	1.387	14	700	268	5 382	
10	When Limited by Condenser Water				٠				,				. '	,		
	Average Number of Employees	18	90	249	81	105	105	104	314	217	455	7	209	119	1,759	
	Net Generation, Exclusive of Plant Use - KWh	194,804,000	1,366,958,000	6,183,480,000	639,083,000	3,112,108,000	1,807,385,000	3,184,514,000		6,664,839,000	10,821,981,000	63,373,000	4,951,002,000	2,095,027,000	41,084,554,000	
	Cost of Plant: Land and Land Rights	30,974,693	956,546	10,417,291	1,020,271	9,872,987	9,872,987	ŀ	29,618,961	2,205,422	1,199,736	635	413,248	1	77,017,329	
	Structures and improvements	6,006,725	9,549,421	25,917,317	11,621,141	59,375,576	48,640,543	88,347,491	196,363,610	92,005,281	129,268,575	191,032	50,278,717	39,931,615	561,133,434	
15	Equipment Costs	32,060,206	51,282,011	248,302,773	57,569,618	182,918,678	125,112,823		667,619,948	278,648,212	629,516,200	3,197,146		268594280	2,186,255,002	
	Asset Retirement Costs															
	Total Cost	\$ 69,041,624	\$ 61,787,978	\$ 284,637,381	\$ 70,211,030	\$ 252,167,241	\$ 183,626,353	\$ 457,808,925	\$ 893,602,519	\$ 372,858,915 3	\$ 759,984,511	\$ 3,388,813 \$	268,750,853 \$	40,142,141	\$2,824,405,765	
18	Cost per KW of Installed Capacity (our share)		\$ 327.54	\$ 348,51	\$ 279.01	\$ 602.55	\$ 682.07	\$ 1.025.56	\$ 787.93	\$ 417.63 3	\$ 508.37	\$ 211.80 \$	380 02 \$	138.58	485 48	
19	Operation Supervision and Engineering	110,959	474,831	2,362,454	962,586	381,236	134,484	443,980	959,700	2,116,206	2,783,412	47,176	1,974,972	1,248,118	13,040,414	
20	Fuel		9,766,561	43,642,707	17,225,265	30,833,902	17,689,177	30,605,484	79,128,563	51,015,131	116,433,297	1,736,840	60,392,238	17,805,722	397,146,324	
	Coolants and Water (Nuclear Plants Only)		•	•	•		,	•		*		,	•	•	•	
	Steam Expenses	320,481	1,120,685	1,936,876	1,181,130	2,114,917	883,000	2,269,180	5,267,097	2,387,130	6,060,139	•	3,135,072	1,914,440	23,323,050	
	Steam From Other Sources	3,498,961	•	•	•	,	•			•	,	٠			3,498,961	
	Steam Transferred (Cr)	•		1		1	,	•	٠	1	1		•	•	•	
	Electric Expenses	252,298	1,017,561	2,151,554	136,863	1,242,905	467,300	1,382,834	3,093,039	1,703,559	2,108,663	465,953	1,452,891	451,225	12,833,606	
	Misc Steam (or Nuclear) Power Expenses	201,772	3,448,613	2,097,901	1,512,459	1,365,301	524,827	1,524,335	3,414,463	3,727,874	3,866,791		3,067,685	1,235,074	22,572,632	
27	Kents	379	•		,	482	169	541	1,192	•	33,050	•	99.766		44,387	
	Allowances	, , , , , ,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			, ,		' !	' !		, !	,			' !	
	Maintenance of Structure	62 107	1,070,511	4,395,732	128 057	642.518	298,240	946,316	2,087,174	2,480,815	1,798,457	47,084	2,281,112	1,101,714	14,141,462	
	Maintenance of Boiler (or reactor) Plant	152 972	1 739 586	7.253.830	4 047 312	1 920 131	2 527 260	000,733	0.778 555	1,517,607	10 410 367	0,810	6 514 022	361,937	0,7382,770 A8 158 340	
	Maintenance of Electric Plant	99,728	447.587	2.178.121	1.250.338	311.462	610.148	340.878	1 262 488	1.567.721	1 640 795	100 855	1.842.380	754 286	11 144 299	
	Maintenance of Misc Steam (or Nuclear) Plant	134,918	231,053	1,330,134	361,313	308,614	121,729	359.117	789.460	2,870,128	2.792.808	86.602	600.211	537.379	9.734.006	
	Total Production Expenses	\$ 4,947,089	\$ 19,486,264	\$ 66,625,779	\$ 27,573,572	\$ 39,975,206	\$ 23,532,680	\$ 43,389,592	\$ 106,897,478	\$ 75,125,024 \$	\$ 149,607,882	\$ 2,491,420 \$	82,031,699	28,243,844	563,030,051	
	Expenses per Net KWh		\$ 0.0143	\$ 0.0108	\$ 0.0431	\$ 0.0128	\$ 0.0130	<i>₩</i>	\$ 0.0132		\$ 0.0138	S	0,0166 \$	١.,	0.0137	
	Total Busbar - \$/MWh	\$ 25.40	5 14.26	\$ 10.77	\$ 43.15	\$ 12.85	\$ 13.02	€9			\$ 13.82	• •	16.57		13.70	
	Fuel - \$/MWh	9	7.14	\$ 7.06	\$ 26.95	. 19.91	\$ 9.79	69			\$ 10.76	\$ 27.41 \$	12.20		19.6	
		25.40	7.11	\$ 3.72	\$ 16.19	2.94	\$ 3.23	69	3.43	\$ 3.62			4.37	4.98	4.04	
	Variable O&M (per RDI definition) - \$MM/h			\$ 0.74	\$ 324	0.59	\$ 0.65	•••					0.87		0.81	
	Fixed O&M (RDI definition) - \$/kW installed			- 1	\$ 12.95	2.35	\$ 2.59	321		4	- 1	\$ 9.53 \$	3.50		3 23	
	First Man Com Without Files	3 1,448,128	807,817,8	\$ 22,983,072	\$ 10,348,307	\$ 9,141,304	5 5,843,503	\$ 12,784,108	27,76	\$ 24,109,893	\$ 33,174,585	\$ 754,580 \$	21,639,461	10,438	165,883,727	
	Fuel Kind (Coal Gas, Oil, or Nuclear)		Coal			Coal	Coal	Coal	Coal	Coal	Coal		Coal	Coal	Coal	
	Unit (Coal-tons/Un-barrel/Gas-mct/Nuclear-indicate)		lons			Tons	Tons	Tons	Tons	Tons	Tons		Tons	Tons	Tons	
	Quantity (units) of Fuel Burned		630,533	4,379,803		1,455,709	819,796	1,434,398	3,709,903	2,818,109	6,006,828		2,649,148	1,564,857	21,759,181	
	Avg meat cont - Fuel burned (bturingleate if nuclear)		11,948	C8/'/		11,285	9/5,17	11,387	11,353	11,759	9.410		6,799	7,948	9,733	
	Avg Cost of Fuelfunt, as Delvo 1.0.b. during year		14,002	9.216		20.353	20.353	20.353	20.353	15.374	18.945		22.286	10.977		
	Average Cost of Flue Birmed her Million BTH		0.645	9000		0.036	0.843	21.180	777.7	16.024	19.290		1 115	0.743		
	Average Cost of Fuel Burned per KWh Net Gen		2	600		0000.0	26.0	nce.'a	* no.0	9	620		0.7	0.7 %		
	Fuel Kind (Coal Gas Oil or Nuclear)				C.							38	98		ee.	
	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)				W. H.							MOR	MCE		M CM	
	Quantity (units) of Fuel Burned				7,440,507							975 200	116 652		8 532 359	
	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)				1.044							1 057	1 033		1.045	
	Avg Cost of Fuel/unit, as Delvd fo.b. during year				2.315							1 781	7 602			
	Average Cost of Fuel per Unit Burned				2.315							1 781	7 602			
	Average Cost of Fuel Burned per Million BTU				2.218							1.586	7.360			
43	Average Cost of Fuel Burned per KWh Net Gen				0.027							0.027	0.012			
	Fuel Kind (Coal, Gas, Oil, or Nuclear)		ō	ō		ŏ	ĕ	ö	ō	ō	ō		Ō	ö	ō	
	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)		Barrels	Barrels		Barrels	Barrels	Barrels	Barrels	Barrels	Barrels		Barrels	Barrels	Barrels	
	Quantity (units) of Fuel Burned		1,557	12,180		2,585	3,369	7,580	13,534	7,536	20,201		3,138	3,322	61,468	
	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		140,000	141,000		140,000	140,000	140,000	140,000	140,000	140,000		140,000	141,000	140,252	
	Avg Cost of Fuelfunit, as Delvd f.o.b. during year		25,715	28.288		26.707	26.707	26,707	26.707	27,441	26.063		26.486	28.543		
	Average Cost of Fuel per Unit Burned		26.902	28.364		27.417	27.374	28.232	27.863	29,334	27.773		26.976	28.843		
	Average Cost of Fuel Burned per Million BTU		4.575	4.790		4.663	4.655	4.801	4.739	4,989	4.723		4.588	4.870		
	Average Cost of Fuel Burned per KWh Net Gen						1	•	•				,			

	FERC Form 1	F 2	Blundell Plant	Carbon Plant	Dave Johnston	Gadsby Plant	Hunter Unit No. 1	Hunter Unit No.	Hunter Unit No.	Hunter Plant	Huntington	ger	Little Mountain Naughton Plant		Wyodak Plant	Thermal Plants	FERC
The control			Steam - Geo	Steam	Steam	Steam	Steam		Steam	Steam	Steam		Gas , Tirrhine		Steam	lotal	Acct no
we contact with the terms of the contact with the contact	8	Type of Constr (Conventional, Outdoor, Boiler, etc.)	Indoor	Outdoor Bailer	Semi-Outdoor	Outdoor Boiler	Outdoor Roller	Outdoor Boiler	Outdoor Boiler	Outdoor Boller	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Roller	Conventional		
we we will not manched with the control of the cont	m	Year Originally Constructed	1984	1954	1959	1951	1978	1980	1983	1978	1974	1974	1972	1963	1978		
Part	4	Year Last Unit was Installed	1984	1957	1972	1955	1978	1980	1983	1983	1977	1979	1972	1071	1078		
Part	40	Total Installed Cap (Max Gen Name Plate Ratings-MW)	26.1	188.6	816.8	251.6	4185	2692	446 4	1 134 1	8928	1 494 9	16.0	707 2	7887	5 817 9	
Note that content to the content t	9	Net Peak Demand on Plant - MW (60 minutes)	24	183	798	235	409	256	418	1.074	879	1.628	18	716	318	5 882	
Note the control of	7	Plant Hours Connected to Load	6,243	8,736	8,760	7,781	7,735	8,578	8,634	8,760	8,709	8,760	5,765	8.758	7,911		
Part	œ	Net Continuous Plant Capability (Megawatts)			,		,										
Particular Par	တ	When Not Limited by Condenser Water	23	175	772	235	389	250	395	1,034	805	1.387	14	700	268	5.413	
	10	When Limited by Condenser Water	•		•		,		,				1		1		
Mathematic Decimals	11	Average Number of Employees	31	85	223	46	94	94	94	282		426	7	196	114	1.584	
	12	Net Generation, Exclusive of Plant Use - KWh	139,742,000	1,352,883,000	5,956,956,000	637,451,000	2,888,717,000	2,054,693,000	3,380,858,000	8,324,268,000	1	10.367,115,000	81,285,000	4.772.109.000	١.	10 450 564 000	
Particular and interpretation Control of the co	13	Cost of Plant: Land and Land Rights	31,026,429	956,546	10,417,291	1.020.271	9.872.826	9.872.826	9.872.826	29.618.478	1	1 199 736	635	499 478	1	77 154 812	
Comparison Com	14	Structures and Improvements	6,191,502	9,793,071	29,426,348	12,884,598	59.428.479	48.672.284	87 685 820	195.786 583	91 748 371	129 570 839	191 032	50 607 879		565 966 341	
Particular Par	15	Equipment Costs	32.522.648	51 177 777	250,791,832	55 021 697	187 937 032	126 515 317	356 679 078	671 131 427	285 695 443	630 232 353	3 197 146	222 266 509	260 284 818	2 462 321 650	
	18	Assat Ratirament Costs				100	100'100'101	10000	0.010.000		200000	200,404,000		200,000,200	20,102,003	2,122,1201,2	
Contain with With Expression and E	7 5	Total Cost	073 074 03	П		000 000 00	-1	-1	100 -00	- 1	- 1	200 000 101	П	000 000	200 100 000		
Control protection in the protection of the pr	2 :	I CALL COST	03,740,573	Н		000,076,000	- 0	183	424,237,124	- 8	31	\$ /61,00Z,9Z8	. 1	2/3,3/3,866	300,261,462		
Common bloowment and pigners Common bloomment and pigners		Cost per KW of Installed Capacity (our share)				\$ 273.91	\$ 614.67	\$ 687.39	\$ 1,017,56	\$ 790.51	\$ 425.23	\$ 509.06	\$ 211.80	\$ 386.56	1,036.60	533.78	
		Operation Supervision and Engineering	110,313	625,476	2,587,543	921,086	489,382	173,622	568,899	1,231,903	1,947,130	3,055,916	49.408	2,184,262	1,311,467	14,024,504	
Commission and Water (Notes) Paris Commission and W	501 20	Fuel		9,554,517	45, 163, 353	16,243,850	28 902 680	20.611.914	33 147 253	82.661.847	45.803.547	114 147 043	2 412 499	57 328 318	17 667 306	390 982 280	
State Control Baserse State St	21	Coolants and Water (Nuclear Plants Only)				,	,						,				
State Color Colo	502 22	Cheam Exhapses	336 600	1 102 605	2 167 143	4 557 750	7 363 484	957 750	7 201 601	5 697 603	322 363 6	0000003		020 230 0	0.300 6.30	044 46	
	200	Stands From Other Sections	200,000	1, 100,000	2, 101, 140	007,100,1	Z,303,10#	332,130	100,180,2	200,100,0	2,000,100	0,020,040		7,955,070	2, 100, 370	74, 143,040	
Particular Par	202 23	Steam Total Other Sources	5,205,645				•	•			•	*		•	1	3,205,843	
Participations Part	204 74	Steam Iransferred (Cr)		,	1					,	•	•			•	•	
Machine Paralle Para	505 25	Electric Expenses	274,631	1,136,368	2,194,646	194,375	1,312,526	507,230	1,491,724	3,311,480	2,168,167	2,062,217	630,616	1,489,330	474,851	13,936,681	
State Stat	506 26	Misc Steam (or Nuclear) Power Expenses	192,558	1,078,557	2,207,753	1,218,290	1,276,310	458,224	1,380,460	3,114,994	3,850,778	3,588,962		3,549,367	1,294,118	20,095,377	
Note Properties Propertie	507 27	Rents	5.007	•			6	33	104	228		37 241	,	1 340		43 786	
	509 28	Allowances						5	5	3				2			
	20 20	Maintenance Organization and Planting	10000	*****							, 000	, , , , , , , ,					
	24 20	Maintenance of Christian	10,001	1,170,004	4,092,093	2/0,410	942,350		805,000,1	6,329,079	2,407,089	2,303,001	43,214	2,450,023	367,702,1	13,403,674	
National Procession	20 20	Marinellance of Orlocures	40,400	799'071	1,000,478	112,055	116,888		616,108	090,778,7	1/0,626	1,421,405	900	897,545	307,923	6,716,736	
Manufaction	12.37	Maintenance of Boller (or reactor) Plant	227.219	1,903,608	8,030,285	1,372,378	4,379,171		2,579,856	8,015,241	4,664,275	11,899,150	•	6,658,074	2,276,720	45,046,950	
	13 32	Maintenance of Electric Plant	283,945	479,514	1,362,909	584, 135	777,246		320,450	1,237,807	1,043,540	2,464,814	56,189	2,097,844	380,970	9,991,667	
Particular Particula	14 33	Maintenance of Misc Steam (or Nuclear) Plant	161,723	235,320	1,505,471	808,405	605,223		610,744	1,407,890	1,773,305	2,206,936	63,233	877,452	446,229	9,485,964	
Tubil Busher MANN S	34	Total Production Expenses	\$ 4,944,963	\$ 17,502,611	\$ 68,617,674	\$ 23.827.015	\$ 41.947 081	24	\$ 44.349.055	\$ 110,975,732	\$ 67 124 212	\$ 148 758 051	\$ 3.261.667	\$ 80.488 625	5 27 577 952	553.078.502	
Fuel Balant SAMP Septembro	35	Expenses ner Net KWh	\$ 0.0354	0.0120	\$ 0.0115	0.0374	ļ,	l,	0.0121	C 0.0133	0 0000	0.0142		00460	5 0 0 1 2 7	0.0427	
Front July Man State Sta		Total Busbar - \$/MWh	\$ 35.39	12.94	11.52	\$ 37.38	. 4	12 01	13.12	13.33	980	25.71		16.97	12.72	13.67	
Particle		1,44,440		5.5	40.5	9 5	+ •	0.25	2 0	9 6	0000	9 4		70.00	200	0.07	
Participation of the partici		FLUE GARAGE	, ,	95.7	907	20.48	A (10:03	08.8	55.5	5,0	10.11	28.08	12.07	08.80	/9.6 9.67	
Particular College Particu		- 85	A	28.5		1190	69	1.98	33,	3.40	w 23	3.34	\$ (29.68)	\$ 4.85	4,93	4 01	
Figure Conting Conti			.			238	6	5 0.40	980	. 0.68	. 0.83	290 \$. 209	: 084 \$	560	080	
Total Columnia production and Columnia (Section Columnia) 5 1739, 120 g. 73, 469, 204 s. 2344, 401 g. 4, 201, 20 g. 73, 130, 20 g.		Fixed O&M (RDI definition) - \$/kW installed	96.6	\$ 4.70	\$ 3.15	\$ 9.52	€1	1.58	\$ 2.65	\$ 2.72	\$ 2.50	\$ 2.67	8.36	3.88	3.95	3.21	
Fig. Kind Coad Line Sol or Nucleary Coad Coad Coad Coad Coad Coad Coad Coad Coad Coad Coad Coad		Total O&M without Fuel	\$ 1,739,120	\$ 7,948,094		\$ 7.583.165	\$ 13	\$ 4,067,682	\$ 11,201,802	\$ 28,313,885	\$ 21,320,665	\$ 34 611,008	\$ 849.168	\$ 23 160 307	9 910 646	162 096 222	
Direct Consistant Barrender (Cash Barrender Barrender Consistant Barrender Consistant Barrender Consistant Barrender (Cash Barrender Barrender Consistant Barrender Consistant Barrender (Cash Barrender Barrender Consistant Barrender Consistant Barrender (Cash Barrender Barrender Consistant Barrender Consistant Barrender Consistant Barrender (Cash Barrender Barrender Barrender Barrender Barrender Consistant Barrender Consistant Barrender (Cash Barrender Barrende	36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)		Coal	Coal		***************************************	Coal	Coal	Coal	Coal	Coal		Coal	- EOC	ECC	
Authority of Fuel Burned (burned and function) 1365 256 164.77 1462.222 14.00 14.0	37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)		Tons	Tons		Tons	Tons	Tone	Tons	Tons	Tons		Tons	Tons	Tons	
Angle feet Cont. Feet Bring Tit 460 Tit	38	Quantity (units) of Fuel Bismed		633 123	4 256 572		1 256 256	054 175	1 542 322	3 850 753	2 012 250	5 844 050		9 5.87 258	1 507 834	21 550 000	
Agic Stock of Feelinary and Parameter (buildingter of Feelinary and Parameter) 1, 200 (bit of Parameter) 1, 20	8 8	Aver Host Cont - Engl Burned (htt://ndicate if puolean)		42,020	30.003,1		44 470	27, 426	1,044,042	3,002,733	14 940	90000		0.0,040,0	**************************************	005,000,13	
Awage Cost of Freducing year of Cost of Market Cost of	3 5	And Cost of English on Debut 6 th design con-		12,070	127.1		11.479	1,430	10401	0440	040,1	050'6		0.00	# D	9,790	
Average Cost of the Burned of Mills Burned for Mill	7	Avg Cost of Fuel min, as Deive 10.0. during year		999.51	9.703		20.780	20.780	ZU. 78U	20.780	/90.4	19.270		21,733	1.133		
Average Cost of the Burnel bermining that the Burnel facilities of the Burnel founding bermining that the Burnel founding bermining that the Burnel for Morfe (Chail Casa) (1983 6 935 6 9354 6 935 7 935 6 935 7 935 6 935 7	± ;	Average Cost of Fuel per Offit Burned		15,035	10.548		21.250	21.368	21.340	51.365	129.6L	19.439		21.892	11.628		
Fuel Kind (Coal, Coal,	7 9	Weight Cost of Fuel Burned per Million B.		0.623	0.583		0.926	0.843	0.935	0.934	0.659	1.034		1.116	0.735		
Trigonomy Trig	9	Average Cost of Fuel Burned per Kwyn Net Gen		,	1		t		,		,			•			
NCF	ę,	Fuel: Kind (Coal, Gas, Oil, or Nuclear)				Gas							Gas	Gas		Gas	
Adjusted formation of the Burned fetulinidate if nuclear) Adjusted Cont. Fuel Burned (Ruthinidate if nuclear) Adjusted Cont. Fuel Burned Fet Million BTU Average Cost of Fuel Burned Pet Million BTU Avera	37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)				MCF							MCF	MCF		MCF	
And Cotat Cortic Fuel Burned (Futnicitate if nuclear) Average Cost of Fuel Port I Burned Average Cost of Fuel Port I Burned Average Cost of Fuel Burned Park MVIN Not Cart Average Cost of Fuel Park MVIN Not Cart Average Cost of Fuel Park MVIN No	38	Quantity (units) of Fuel Burned				7,127,720							1,352,646	128,467		8,608,833	
A Vegage Cost of Fuel burned per luft Burned between this ord of Fuel burned per luft Burned P	33	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)				1,055							1,053	1,043		1,055	
Average Cost of Keel per Unit Burned Average Cost of Keel per Unit Burned Average Cost of Keel per Unit Burned Average Cost of Keel per Willion BTU Average Cost of Keel Burned Average Cost of Keel Burned Average Cost of Keel Burned Average Cost of Keel Purned Willion BTU Average Cost of Keel Burned Average Cost of Keel Burned Average Cost of Keel Burned Per Willion BTU Average Cost of Keel Burned Average Cost of Keel Burned Per Willion BTU Average Cost of Keel Burned Per KYM1 Net Cosn Average Cost of Keel Per Willion BTU Average Cost	40	Avg Cost of Fuelfunit, as Delvd to b. during year				2.279							1.784	12,151			
Average Cost of Full Burnar bet Million BTU Oil	41	Average Cost of Fuel per Unit Burned				2.279							1.784	12.151			
Average Cost of Fuel Burnet Cost of Fuel Burnet Oil	42	Average Cost of Fuel Burned per Million BTU				2 159							1 695	11 652			
Full Minion Brun Oil	43	Average Cost of Fuel Burned per KWh Net Gen				0.026							0.030	0 0 12			
Unit Coal-branc/Inductoral multicolar and coal-branced coal-	38	Fuel: Kind (Coal, Gas, Oil, or Nuclear)		ō	ö		ĪÖ	Ö	Ĉ	ō	Ĉ	Ö		Ö	Õ	č	
Quantity (units) of Fuel Burned 1.581 10.487 2.974 1,141 8,246 12.361 11,202 23,036 77 4,899 Ang Ord Carl Chairing and Chairing	37	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)		Rarrels	Barrels		Rarrels	Barrels	Barrels	Barrels	Barrele	Barrele		Barrais	Barrels	Barrate	
Avg Heat Cont - Fuel Burned (btu/Indicate if nuclear) 140,000 14	38	Quantity (units) of Fuel Burned		1581	10 497		2 974	1 141	8 246	12 361	11 202	23.036		77	4 899	63 653	
Avg Cost of Fuelkunit, as Delivid for bruning year 23.546 23.457 28.681 28.681 28.681 28.681 28.681 28.687 22.283 24.824 27.642 28.537 28.535 28.530 27.764 26.290 27.764 26.290 27.764 26.290 4.669 Average Cost of Fuel Burned per KWIn of Control Burned Per KWIN Net Control Burned Pe	36	Ave Heat Cont - Firel Burned (btt/Indicate if nuclear)		140,000	140 000		140.000	140 000	000 071	140.000	140,000	140,000		240.000	140,000	140,000	
Average Cost of Twel Burned per KMI Net Gen 2017 64 522 4 803 4 822 4 803 4 822 4 869 4 86	40	Ava Cost of Estal(unit as Dahod to higher year		23.546	23.454		200,000	78,681	200,05	70 681	30,000	96, 36		200'01	72 60	200	
Average Cost of Flue Burned per KMN Not Gen 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	7 7	Average Cost of Early per limit Costs of the		20.040	100.00		20.001	20.001	20.001	20.001	20,200	004.02		, 00	20.001		
Average vois in the Brinde Bri	Ę	Average Cost of first Discould be 1400 to 1500		202.72	170.17		010.17	40.00	4 900	047.07	107.75	7007		23.2.10	204.12		
Average Dat in After the KMN Net Gen	į	Average Cost of Fuer purified per (William of Cost of Fuer purifier)		3.121	777.4		4.730	4.000	779.4	4.000	77.1.6	4.400		4. VD3	4.003		
The second of th	2 ;	Average Cost of Fuer purified per NAVII Ivet Gen					3,7								,		

- 46				Fiant											200
	Kind of Plant (Internal Comb, Gas Turb, Nuclear	Steam - Geo	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Gas - Turbine	Steam	Steam	
	Type of Constr (Conventional, Outdoor, Boiler, etc)	Indoor	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor Bailer	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Conventional	
	Year Onginally Constructed	1984	1954	1959	1951	1978	1980	1983	1978	1974	1974	1972	1963	1978	
	Tear Last Only was installed	1964	/082	7/61	1855	8/61	1960	1883	1983	1/61	19/9	19/2	1/61	8/61	
	Mot Dool Demond on Dinot Mark 60 minutes	207	0.001	0.0.0	201.02	4 (0.0)	7.607	440.4	1.04	692.6	9.484.9	0.0	7.101	1.807	9,10,0
	Plant Hours Connected to Load	1 287 8	R 784	8 784	1 986	8 436	310	8 2 18 0	8 784	8 708	1,430	7 280	71 / a	8 505	nga'c
	Net Continuous Plant Capability (Megawatts)	. '	. '	; '			,	1	5			1	· ·	· '	
	When Not Limited by Condenser Water	23	175	772	235	388	250	405	1,044	845	1,387	14	700	268	5,463
12	When Limited by Condenser Water		,		*		ł	•	1	•		,	•	1	•
7	Average Number of Employees	16	79	214	39	88	88	88		184	413	g	186	105	1,508
	Net Generation, Exclusive of Plant Use - KWh	191,912,000	1,411,250,000	5,958,080,000	155,583,000	3,011,143,000	1,924,874,000	3,150,037,000	1	6,408,968,000	9,908,635,000		5,080,911,000		39,478,301,000
	Cost of Plant: Land and Land Rights	31,026,429	956,546	10,417,291	1,020,271	9,870,408	9,870,408			2,205,422	1,199,736	635	544,478	210,526	77,192,557
	Structures and Improvements	6,082,870	10,175,036	29,833,785	13,090,439	59,529,880	48,754,739	87,911,287	196,195,906	91,872,655	130,983,405	199,034	49,690,448	40,339,656	568,463,234
£ 5	Equipment Costs	32,521,846	52.047,167	257,901,375	55,609,481	188,864,939	126,993,854			286,551,764	636,298,133	3,268,330	229,917,653	259,920,145	2,486,486,046
	Asset Ketirement Costs			- 1						- 1				-	
	I Otal Cost	69,631,145	63,178,749	867	\$ 69,720,191	-	185,6	454,373,053	\$ 898,257,281	_	\$ 768,481,274	5 3,467,999 \$	280,152,579	. 1	\$3,132,141,837
	Cost per KW of Installed Capacity (our share)		\$ 334.92	\$ 365.04	\$ 277.06		\$ 689.47 \$	1,017.86	792.03	\$ 426.33	5 514.08	\$ 216.75 \$	396.14 \$	1,037.32 \$	538.37
6	Operation Supervision and Engineering	71,142	551,050	2,386,093	416,663	467,775	166,019	540,211	1,174,005	1,561,503	2,513,896	•	2,098,073	1,092,742	11,865,167
	- Tree		9,704,582	38,957,090	4,467,945	30,076,106	19,438,304	30,115,113	79,629,523	48,801,875	104,186,272	i	62,249,237	20,187,717	368, 184, 241
	Coolants and Water (Nuclear Plants Only)	* :	1					,		•	•		•	1	•
	Steam Expenses	308,743	1,046,152	2,255,325	812,534	2,417,990	962,664	2,396,751	5,777,405	2,805,105	5,453,312	,	2,785,240	2,019,373	23,263,189
	Steam From Other Sources	3,595,449	1	F	•	•	•	•	•	1	1	•		•	3,595,449
	Steam Transferred (Cr.)			1 11 0 0	, , ,	,			'		'			,	
	Electric Expenses	292, 155	909,509	7,272,557	18,896	1,152,038	425,852	1,280,149	2,858,039	2,189,069	2,022,707	,	1,511,162	462,404	12,476,758
	Misc Steam (of Nuclear) Power Expenses	Zen. 13Z	1,232,751	760,502,2	267,782	1,223,230	4.30,690	1,363,388	3,023,530	5,134,917	4,077,411	,	3,503,168	1,536,537	20,354,840
	Alemana	4.610		F	•	340	D	380	828	•	119,65	,	7,12,7		1/8,54
	Maintenances Supergraphs and Engineering	- 25 22	. 050	1 607 709 1	, 450 700	0 000	1 200 000	1 000 000	, 404 050 4	, 000 000 1	, 250 034 0	•	1 224 004 0	, 000 4	1 100 000
	Maintenance Supervision and Chynesing	30,378	120.004	027,180,1	450,700	001,370	200,433	240,926	1010101	1,002,236	4,103,97+	1	7,332,341	000,123	12,491,321
	Maintenance of Delocior to receive	39,320	130,004	930,551	104,13	201,423	2404,042	13,234	1,425,319	1 040 500	880,010,1		202,400	239,714	3,004,004
	Maintenance of Electric Clost	130,130	200,000	0,672,888	191,133	7,101,964	107,000	3,207,400	6,477,030	025,818,4	11,575,790		5,757,548	2,318,811	41,348,605
	Maintenance of Miss Steam (or Nuclear) Diant	163 324	576,125	2 061 304	305 477	524,654	103,201	1 060 164	108,301	010,070	2, 150, 764		4 484 133	521,038	50,704,034
	Total Production Exposes	100,324 \$ 5.105,436	17 3/13 873	4 AN BOA 557	301.477	953.267	342,871	1,058,154	2,364,302	1	2,500,980		1,484,122	286,117	520 751 249
	The state of the s	1	0,040,050	100't00'00 #	600,010,0	000000000000000000000000000000000000000	23,020,010	000,102,24	102,042,104	١,	130		00,013,357	30,113,002	320,731,240
	Tittle Direct County	9070'0	0.0123	70107	0.0347	0.0133	0.0122	0.0134	0,0131	8010.0	0.0140	<i>A</i> •	10.010	0.0132	0.0132
	Chai Casal - Similari		12.23	770	9.47	87.5	12.22	24.5	13.09	10.80	10.47	<i>A</i> 6	10.73	13.23	6.19
	Many for South	, 00 00	00.0	500	77.07	n con	2.00	000	000	0.0	10.01	96	2.23	000	n e
	Manager - Stringer	20.07	14.0	/D'7	79.07	2000	2.13	0.00	3.24	0.0	5.48			4. 30 4.	2.00
	Fixed O&M (RD) definition) . \$\langle KW installed			203	20.80	990	170	900	250	255	270	* WAG#	25.00	3 40	908
	Total O&M without Fuel	1.506	7.639.241	\$ 21 847 467	\$ 4.048.714	\$ 9,950,237	4 090.371	12 171 973	26 212 581	\$ 20 423 502	34 600 061	5	22 764 120	9 925 885	152 567 007
	Firel: Kind (Coal Gas, Oil or Niclear)	The state of the s	Coal			leo	Coal	Coal	- Cool	Cool	Coal	And the second s	lead	Coal	Coal
	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-Indicate)		Tons	Tons		Tons	Tons	Tons	Tons	Tons	Tons		Tons	Tons	Tons
	Quantity (units) of Fire! Rumed		657 283	4 191 858		1 388 202	882 975	1 382 710	3 653 086	2 204 681	5 646 056		2 600 004	1 701 479	21 366 187
_	Ava Heat Cont - Fuel Burned (btu/indicate if nuclear)		12 104	7 769		11.575	11 465	11.367	11.470	11.534	9 293		6966	7 976	9 735
_	Ava Cost of Euel/unit as Delvd flo bill during year		13.681	8,672		21 128	27, 128	21 128	21 128	14 823	17,802		23.240	11.330	3
	Average Cost of Fuel per Unit Burned		14.682	9.196		21.603	21.985	21 571	21 683	16.678	18.332		23.344	11.785	
	Average Cost of Fuel Burned per Million BTU		0.607	0.592		0.933	0.959	0.949	0.945	0.723	0.986		1.171	0,739	
	Average Cost of Fuel Burned per KWh Net Gen		,											; ,	
	Fuel: Kind (Coal, Gas, Oil, or Nuclear)				Gas								Gas		Gas
	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)				MCF								MCF		MCF
_	Quantity (units) of Fuel Burned				1,984,906								87,050		2,071,956
_	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)				1,021								1,040		1,022
_	Avg Cost of Fuel/unit, as Delvd f.o.b. during year				2.251								15.181		
_	Average Cost of Fuel per Unit Burned				2.251								15.181		
	Average Cost of Fuel Burned per Million BTU				2.205								14.593		
~	Average Cost of Fuel Burned per KWh Net Gen				0.029								0.012		
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear)		ō	ō		ō	Θ	ē	ō	ō	ō			ō	ō
	Unit (Coal-tons/Oli-barrel/Gas-mcf/Nuclear-indicate)		Barrels	Barreis		Barrels	Barrels	Barrels	Barrels	Barrels	Barrels			Barrels	Barrels
~	Quantity (units) of Fuel Burned		1,681	13,761		2,700	856	9,686	13,242	11,125	22,377			4,860	67,046
_	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		140,000	140,000		140,000	140,000	140,000	140,000	140,000	140,000			140,000	140,000
	Avg Cost of Fuel/unit, as Delvd f.o.b. during year		35.338	30.895		31.280	31.280	31.280	31.280	32.357	33,993			31.858	
	Average Cost of Fuel per Unit Burned		32.282	29.789		31.314	30.220	29.740	30.082	32.034	30.084			27,165	
	Average Cost of Fuel Burned per Million BTU		5.491	5.066		5.326	5.140	5.058	5.118	5.448	5.116			4.620	
	Average Cost of Fuel Burned per KWh Net Gen		,												

kind of Plent (Int. 'ye of Coast (ICA 'ye of Coast (ICA 'ye of Coast (ICA 'ye of Loat Unit we' 'ye of Coast (ICA) 'ye of Loat (ICA) 'ye of Coast (ICA) 'ye of ICA 'ye of IC	Muslace Comb Osc Turk Muslace														9
Type of C Year Only Year Only Year I salt Total Inst Net Cont Net Cont When Inst Average I Net Cont When Inst Average I Structure Equitor	Kind of Plant (Internal Comb. Gas Turb, Nuclear	Steam - Geo	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Gas - Turbine	Steam	Steam	
Year Ong Year Last Total Instal Net Peak Net Comb When No When No When No When No When Stal Average Net Gup Cost of P Structure Equipme Equipme	Type of Constr (Conventional, Outdoor, Boiler, etc)	Indoor	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Conventional	
Year Last Total Set Total Set Net Paint Hou Net Confu Net Confu Net Gge Cost of P Structure Equinted Asset Re Asset Re	Year Originally Constructed	1984	1954	1959	1951	1978	1980	1983	1978	1974	1974	1972	1963	1978	
Total Inst Net Peak Net Peak Net Peak Net Conti When In When Lin When Lin When Lin When Lin When Lin Total (Total (Year Last Unit was Installed	1984	1957	1972	1955	1978	1980	1983	1983	1977	1979	1972	1971	8/61	
Net Peak Net Control Net Control When Lin When Lin When Lin Average Net Ge Cost of P Structure Equipme Asset Re Total (Total Installed Cap (Max Gen Name Plate Ratings-MW)	26.1	188.6	816.8	251.6	418.5	269.2	446.4	1,134.1	892.8	1,518.0	16.0	707.2	7.697	5,840.9
Plant Hou Net Combine When Lin When Lin Average I Average I Cost of P Structure Equipme Equipme Asset Re Total C	Net Peak Demand on Plant - MW (60 minutes)	24	184	807	225	400	336	421	1,245	857	1,555	16	726	3333	5,889
Net Conti When No When Lin Average I Net Ge Cost of P Structure Equipme Asset Re Total C	Plant Hours Connected to Load	8,45/	8,760	8,760	1,644	8,195	7,423	8,23/	8,745	8,750	8,750	2,46/	9,750	700'9	
When Nor When Lin Avveage I Net age Cost of P Structure Equipme Asset Re Total C	Net Continuous Plant Capability (Megawatts)	•		•			1	1	1		' !	. :	' '		
When Lim Average I Net Ge Cost of P Structure Equipme Asset Re Total C	When Not Limited by Condenser Water	23	1/5	112	235	388	520	405	1,044	842	1,387	4.	90/	907	0,403
Average Net Ge Cost of P Structure Equipme Asset Re Total C	When Limited by Condenser Water	4	*		•	•		* 1	1	•			. !	1 4	
Net Ge Cost of P Structure Equipme Asset Re Total C	Average Number of Employees	17	7.7	213	34	87	87	87	261	182	395	9	18/		1,4/1
Cost of Pl Structure: Equipment Asset Re Total C	Net Generation, Exclusive of Plant Use - KWh	168,518,000	1,405,087,000	5,983,492,000	181,486,000	2,877,739,000	1,622,550,000	3,217,046,000	7,717,335,000	6,142,165,000	9,786,354,000		5,089,288,000		38,773,647,000
Structure: Equipmer Asset Re Total C	Cost of Plant: Land and Land Rights	31,026,429	956,547	10,417,291	1,020,271	9,868,916	9,868,917	9,868,916	29,606,749	2,205,422	1,199,736	635	544,478	210,526	77,188,084
Asset Re-	Structures and Improvements	6,135,077	10,010,664	33,051,815	13,399,378	59,667,714	48,889,633	88,049,671	196,607,018	92,739,268	131,156,324	204,044	50,401,898	47,781,677	581,487,163
Asset Rei	rt Costs	32,608,604	53,358,962	268,902,191	55,480,540	189,379,503	127,814,526	357,388,134	674,582,163	296,733,901	643,262,608	3,280,554	234,825,158	251,816,132	2,514,830,813
Total C	Asset Retirement Costs														
	150	\$ 69 770 110	\$ 64 326 173	\$ 312 371 297	\$ 69 880 189	\$ 258 916 133	\$ 186,573,076	\$ 455,306,721	\$ 900,795,930	391,678,591	775,618,668	\$ 3,485,233	\$ 285,771,534	\$ 299,808,335	\$3,173,506,060
		0.000	244 00		02.220	ŧI .	1	4 040 05	#	420 74	510 DE	047.82	ADA 00 6	2 1035 0A	CC C72
3 :	st per nev or mistaried capacity (our snare)	400.00		č	01.112	00.000	1000.00	1,020,00	2000 000	4 407 775	0 564 400	8	2210016	1 031 690	12 496 830
Operation	Operation Supervision and Engineering	135,57	/10,/46	2,654,825	444,128	491,551	1/2,/90	247,289	1,217,546	1,437,78	2,541,423		410,810,2	1,031,033	12,400,030
Fuel			10,049,693	39,592,819	4,326,368	28, 165, 475	16,587,719	30,415,127	75,168,321	42,465,129	104,933,344	r	63,347.739	Z0,U36,8Z3	308,920,210
Coolants	Coolants and Water (Nuclear Plants Only)		,	•	,	,		,			•				,
Steam Expenses	penses	250,277	1,060,549	2,265,354	448,370	2,238,374	847,599	2,205,456	5,291,429	2,520,241	5,121,727	P	3,386,420	2,081,439	22,425,806
Steam Fr	Steam From Other Sources	3 557 608									4			,	3,557,608
Stoom Tr	Stram Transferred (Cr.)											•	,	٠	
olean i	ansiened (c:)		020100		47.70	000 27 7 7	007007	2007	720004		0 400 670		4 547 239	A09 CC3	12 437 085
Electric Expenses	xbeuses	292,100	878,878	2,146,411	21.7.13	1.147,290	430,103	1,143,432	2,120,911	2,142,412	2,120,012		022,116,1	220,024	20,457,000
Misc Ste.	Misc Steam (or Nuclear) Power Expenses	355,843	1,134,033	2,1//,358	576,554	1,189,470	547,759	1,535,825	3,081,054	3,312,192	4,841,294		088,102,0	000' /+6'-	FO1,024, 104
Rents		4,655	•	6,000		242	82	273	909		38,604	r	1,236	,	deu, re
Allowances	SE	•	1	1	1	•			•			•	1	ı	
Maintena	Maintenance Supervision and Engineering	80,656	685,161	1,791,159	401,474	820,618	286,806	920,535	2,027,959	1,962,507	2,200,929	•	2,968,317	1,073,434	13,191,596
Maintana	Maintenance of Structures	36 549	94 103	771 331	124 149	411 716	161 469	427 107	1 000 292	790 122	1 615 571	,	482.476	208.946	5,123,539
A CONTRACTOR	and the second of the second o	376 375	2 474 244	200 0 0 0 0 0 0	DEE 013	2 2 4 7 2 6 7	2 600 200	2 502 436	7 5/10 0/12	7 037 360	10 076 380		5 974 263	2 224 450	47 217 103
Maintena	Maintenance of Boller (of reactor) Plant	300,730	110,174,2	7+0,018,0	610,000	707.190,2	2,039,239	2,302,430	200,640,1	904,400	907.000.0		77.000	2004,400	40.244.465
Maintens	Maintenance of Electric Plant	88,124	384,688	1,806,E2	293,079	338,746	748,558	303,175	1,390,430	1,974,702	2,339,355	•	110,500,1	210,420	10,214,103
Maintena	Maintenance of Misc Steam (or Nuclear) Plant	228,922	617,200	1,813,835	428,600	848,434	491,705	981,749	2,321,888	2,850,661	2,240,185		1,100,698	804,380	12,406,369
Total F	Total Production Expenses	\$ 5,339,128	18,152,373	\$ 63,940,660	\$ 7,869,448	\$ 38,009,199	\$ 22,979,998	6 40,782,345	101,771,542	67,390,113	138,977,726	\$	\$ 85,958,372	5 29,656,233	519,055,595
FX	Expenses per Net KWh	\$ 0.0317	0.0129	\$ 0.0107	\$ 0.0434	\$ 0.0132	\$ 0.0142	0.0127	0.0132	0.0110	\$ 0.0142		\$ 0.0169	\$ 0.0129	0.0134
F	Total Bushar - S/M/A/h	3168	12 92	10.69	43.36	13.21	14 16	12 68	13.19	10.97	14.20		\$ 16.89	12.89	13.39
, u	Section Section 1		7.15	663	23.84	0.70	10.22	9 45	72.6	6.91	27 01 8		\$ 12.45	8.71	9.28
3 1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	90 100	212	20.0	10.03		700	200	2.45	90 7	2 48	٠	4 44	4 18	4 10
	NOT-IUS - S/MAYATI	St.00	STAD SCREEN		700	74.0	, ,	2.70			000	CONTRACTOR MANAGEMENT OF THE	C0 C	**************************************	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P
S :	Vanable C&M (per RIJ) definition) - S/MV/n	9 07 9		7 (C)	35 E	900	10 to		000		80.7		19 C	2 25 2	200
F)	Fixed O&M (RDI definition) - \$/kW installed		4.61	3.26	29.01	5 2.74	3.15	7.26	7.70	3.23	9/7	#D!V/U.	00.00	0.00	07.0
Total (Total O&M without Fuel	\$ 1,781,520	8,102,680	\$ 24,347,841	\$ 3,543,080	\$ 9,843,724	\$ 6,392,279	\$ 10,367,218	5 26,603,221	24,924,984	34,044,382	9	\$ 22,610,653	5 9,619,410	159,135,379
Fuel: Kin	Fuel: Kind (Coal. Gas. Oil. or Nuclear)		Coal	Coal		Coal	Coal	Coal	Coal	Coal	Coal		Coal	Coal	Coal
Unit (Cos	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)		Tons	Tons		Tons	Tons	Tons	Tons	Tons	Tons		Tons	Tons	Tons
one of the	Ouentity (mits) of Fired Burged		653 833	4 297 263		1 369 335	793 668	1 472 632	3 635 635	2 686 976	5 463 528		2 761 404	1 725.240	21,223,879
Anna Clark	Control of rues durings		200,000	2021,103,1		11.061	11,580	14 557	14 700	11 381	0 305		978.0	7 997	9 778
Avg nea	Avg neat cont - ruet burned (biu/morate it nuclear)		12,001	0.76,		0.6.1	000	200,1	11,102		0,00		012,00	14 243	
Avg Cos.	Avg Cost of Fuel/unit, as Delvd to b during year		14.284	0.040		18.7.10	01.7.61	18.7.0	19.7.10	24.742	10.077		22.310	71 222	
Average	Average Cost of Fuel per Unit Burned		15.238	9.120		20 468	20.170	20.417	20.038	0.000	2 7 7 7		22.032	2000	
Average	Average Cost of Fuel Burned per Million BTU		0.632	0.576		0.856	0.896	0.886	0.87	0.588	707		140	0.123	
Average	Average Cost of Fuel Burned per KWh Net Gen		,	,	,	,	,			4			, (ć
Fuel: Kin	Fuel: Kind (Coal, Gas, Oil, or Nuclear)				Gas								Cas		Cas.
Out (Co	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)				MCF								. ₹		TOE .
Quantity	Quantity (units) of Fuel Burned			*	2,208,315	•	•		,	•	1		98,005		2,306,320
Ave Heat	Ava Heat Cont - Fuel Burned (btu/indicate if nuclear)		•		1.032	,	•	1		1	•		1,041		1,032
Avo Cost	Ava Cost of Fuelfunit as Delvd folb during year			,	1,959	>		,		٠	,		8.694		
Average	Average Cost of Fire ner linit Burned		,	4	1 959	,		٠	٠				8.694		
of the state of th	Among Cost of Eucl Durned not Million DTII				1 800		•			,			8 350		
Avelage	Cost of river bullied per million of O		2000	200.0	200 C	0000	0100	0.010	0.010	0.007	0.011		0.012		
Average	Average Cost of Fuel Burned per Navn Met Gen		200.0	100.0	170.0	0.00	20.5	200	200	igo:	3		4 0.0	č	Č
Fuel: Kir.	Fuel: Kind (Coal, Gas, Oil, or Nuclear)		5	5 .		5	5 -	5 -	5 -	5	5 1			i olomolo	D lorroll
Ouit (Co.	Unit (Coal-tons/OII-barrel/Gas-mcf/Nuclear-indicate)		Barrels	Barrels		Barrels	Barrels	Barrels	Barrels	Barreis	Barrels			Saireis	Dalles
Quantity	Quantity (units) of Fuel Burned		2,204	12,441		4,204	3,062	8,008	15,274	6,829	15,876		•	3,328	20,60
Avg Heal	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		140,000	140,000	•	140,000	140,000	140,000	140,000	140,000	140,000		,	140,000	140,000
Avg Cost	Avg Cost of Fuel/unit, as Delvd flo.b. during year		32.641	31.699	,	32.166	32.166	32.166	32.166	33.234	31,396		•	33,335	
Average	Average Cost of Fuel per Unit Burned		33,364	32.277		32.815	32,245	32,510	32.541	34.077	30.633			30.544	
Average	Average Cost of First Burned nor Million BTII		5.675	5.489	,	6.581	5 484	5 529	5.534	5.795	5.210		,	5.195	
JAMES OF STREET	COST OF FUEL DATE of PRINCIPLE DE CO		2	200		5	· · · · · · · · · · · · · · · · · · ·	1		;				,	
AVBIAGE	Average Cost of Fuel Burned per KWn Net Gen			- 000 77		- 44 204 57	44 240 50	40 505 00	44 097 95	20,000	40,400,62		40 730 48	12 006 08	10 774 8

Control Cont			Carbon Plant	Dave Johnston Plant	Gadsby Plant	HUNGE ONE NO. HUNGE ONE NO. HUNGE ONE NO.	2 2 40. r	3	Hunter Plant	Plant	Plant	Little Mountain Naughton Plant			Total
Part	Kind of Plant (Internal Comb. Gas Turb, Nuclear Type of Constr./Compartional Outdoor Boiler oft)	Steam - Geo	Outdoor Boiler	Speni Outdoor		Steam	Steam Outdoor Boiler	Steam Outdoor Boiler	Steam Outdoor Boiler	Steam Outdoor Boiler	Steam	Gas - Turbine	Steam Outdoor Boiler	Steam	
Part	pe of constructed, Cutabot, Boiler, etc.) ar Originally Constructed	1984	Outdoor boller	Semi-Outdoor		Outdoor Baller	Outgoor boiler	Outdoor Boller	Outdoor Boller	Cuttagor Boller	Semi-Outgoor 1974	Cutdoor Boiler	Outdoor Boiler	Conventional	
Particularies 1,500 1,50	ar Last Unit was installed	1984	1957	1972	1955	1978	1980	1983	1983	1977	1979	1972	1971	1978	
	al Installed Cap (Max Gen Name Plate Ratings-MW)		188.6	816.8	251.6	418.5	269.2	446.4	1,134,1	892.8	1,518.0	16.0	707.2	289.7	5,840.9
1 1 1 1 1 1 1 1 1 1	Peak Demand on Plant - MW (60 minutes)		183	803	220	412	315	469	1,165	918	1,441	16	713	342	5,855
Part	int Hours Connected to Load	8,047	8,714	8,760	3,607	8,342	8,610	6,281	8,760	8,704	8,760	6,718	8,760	8,551	
This column	t Continuous Plant Capability (Megawatts)	•		•	•		•			•			•	•	
This column	nen Not Limited by Condenser Water	23	175	772	235	389	250	405	1,044	845	1,387	14	200	268	5,463
Column C	en Limited by Condenser Water	1	1			. ,	. ,			•	• 1		,	١.	1 1
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	erage Number of Employees	17	11	213	34	87	87	87	261	182	395	9	187	66	1,471
1,000,000 1,000	let Generation, Exclusive of Plant Use - KWh	160,057,000	1,288,602,000	5,928,660,000	356,380,000	2,947,052,000	2,056,767,000	2,555,684,000	7,552,503,000	6,452,895,000	10,753,560,000		5,223,025,000	2,289,651,000	0,012,333,000
Particular Par	st of Frank, Land and Land Rights	31,020,429	800,04B	167'/14'01	L/2/070'L	9,858 915	9,808,916	9,608,915	29,500,749	275°C02'7	1,145,351	0.50	707'906	070,012	17,048,480
Control Cont	inment Corts	37.664.750	10,096,817	35,557,000	13,344,555	190,300,338	096,101,36	387,151,454	208,861,781	310 500 301	131,995,200	204,044	25,258,753	267,795,340	595,302,000
Column C	of Define and Ones	607'100'76	04,024,070	670,804,777	100'000'00	108, 704, 080	131,002,002	201,701,003	C11'17C'901	anciencini c	741, 002, 100	170'007'0	017,040,062	6/0'0'4'707	7:007:313,031
	et Netteril Custs	302 000 00	П	200 000 000	000 027 02	- 3	1	400 400	000,000,000			- [000 000	000 000	0 000 000
	DISI COSI	09,522,700	00	3 310,183,880	\$ /U,1/U,388	1		4/9//81,3/3	935,283,820	` }	30.	H	291,203,238	300,481,440	3,735,325,348
Transformer betrappenent and betrappenen	Cost per KW of Installed Capacity (our share)	S,	347.64		\$ 278.85	\$ 620.17	\$ 753.93	1,074.78	824.69	\$ 454.38	\$ 520.68	\$ 216.27	411.85	1,037.36	557.33
a supplied by the control by the con	eration Supervision and Engineering	76,339	641,233	2,507,502	333,383	575,567	342,741	512,641	1,134,414	1,512,788	2,271,303		1,974,540	1,030,346	11,778,383
Part	9		9,585,769	41,089,094	8,559,223	29,724,576	20,264,471	24,720,159	74,709,117	51,744,288	122,355,665		62,938,356	19,910,256	390,891,857
Expense 200.02 100.02	polants and Water (Nuclear Plants Only)	1	•	•	•	,	•	•	1	•	•	•	•	•	
Friend Divelopment (2) Friend Divelopment (2) Friend Divelopment (3) Friend Divelopment (3) Friend Divelopment (3) Friend Divelopment (4) Friend Divelopment (4) Friend Divelopment (5)	sam Expenses	230,872	1,085,286	1,951,405	657,800	2,356,179	1,695,768	1,765,129	4,892,886	2,703,768	5,729,399	•	3,560,767	2,121,568	23,857,941
	eam From Other Sources	3,607,452	•	1	ì	*	•	,		,	,	,			3,607,452
	eam Transferred (Cr.)		,		1	1	1		,	•	•	•	•	•	•
1,11,12,211 1,11,2,211 1,11,2,111 1,11,2,111 1,11,2,111 1,11,2,111 1,11,2,111 1,1,2,1,111 1,1,2,1,111 1,1,2,1,111 1,1,2,1,111 1,1,2,1,111	Electric Expenses	279,216	873,601	1,942,512	62,285	1,241,625	876,658	1,079,573	2,690,424	2,122,061	2,056,153	*	1,505,451	527,547	12,566,682
1.00 1.00	isc Steam (or Nuclear) Power Expenses	363,613	1,119,281	1,857,837	579,587	1,123,121	782,994	1,420,083	2,857,306	2,531,989	4,585,966	1	3,097,370	738,291	18,200,132
10 10 10 10 10 10 10 10	ents	3.900	•	2,209	•	170	118	180	396	385	(450)	•	1,236	•	7,748
1,2,0,0,0,0 1,2,0,0 1,2,0,0,0 1,2,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0,0 1,2,0,0 1,	llowances		*	•	1	*	•	•	•	*	•	1	•	,	1
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	aintenance Supervision and Engineering	163,362	683,602	1,596,913	358,662	738.387	513,474	780,407	1,720,751	1,796,855	1,877,569	•	1,560,212	727,742	10,797,185
12,1516 50,473 170,403 2543,28 2256,187 1972,289 2265,187 1972,289 2265,187 172,182 2652,188 2256,187 2562,188 2265,187 2562,188 2266,187 2562,188 2266,188 2266,187 2562,188 2266,187 2562,188 2266,187 2562,188 2266,187 25622,187 25622,187 25622,187 25622,187 25622,187	aintenance of Structures	28,663	138,672	721,814	77,830	423,754	326,329	570,729	1,046,474	767,934	1,239,745	,	412,418	177,516	4,885,404
This control This	aintenance of Boiler (or reactor) Plant	121,650	2,343,288	7,094,033	757,688	2,351,871	1,976,289	4,097,509	7,403,436	7,264,178	8,394,122	1	5,629,938	2,659,468	42,690,034
\$ 200 027 \$ 1,000 08 \$ 1,000 08 \$ 2,000 080 \$ 1,000 080 \$ 2,000 080 \$ 1,000 080 \$ 2,000 080 \$ 0,0145 \$	aintenance of Electric Plant	165,711	504,711	1,123,098	252,935	252,747	367,659	1,295,521	1,696,122	1,603,843	1,387,196	6	772,395	294,592	8,020,408
S. DOZZA S. 17861568 S. 60006163 S. 17861786 S. 1786178 S. 17861786 S. 1786178 S. 1786178 S. 1786178 S. 1786178 S. 1786 S.	aintenance of Misc Steam (or Nuclear) Plant	206,927	712,122	2	343,392	679,612	541,276	938,403	1,916,135	3,105,988	2,645,883	,	1,908,376	456,960	13,661,685
3 COUNTING S COUNTING <t< td=""><td>Total Production Expenses</td><td>\$ 5,247,705</td><td>17,687,565</td><td></td><td>\$ 11,982,785</td><td>\$ 39,467,609</td><td>\$ 27,687,777</td><td>37,180,334</td><td>100,067,461</td><td>\$ 75,154,077</td><td>\$ 152,542,551</td><td>9</td><td>5 83,361,059 9</td><td>28,644,286</td><td>540,964,911</td></t<>	Total Production Expenses	\$ 5,247,705	17,687,565		\$ 11,982,785	\$ 39,467,609	\$ 27,687,777	37,180,334	100,067,461	\$ 75,154,077	\$ 152,542,551	9	5 83,361,059 9	28,644,286	540,964,911
5 7.24 5 1.04 5 3.24 5 1.04 5 3.24 5 1.04 5 3.24 5 1.04 5 3.24 5 1.04 5 3.24 5 1.04 5 3.24 5 1.04 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 5 3.24 3	Expenses per Net KWh	\$ 0.0328	0.0137	\$ 0.0105		\$ 0.0134	\$ 0.0135	0.0145	0.0132	\$ 0.0116	\$ 0.0142	,	\$ 0.0160 \$	\$ 0.0125	0.0135
5 7 6 6 5 6 6 5 6 6 5 6 7 8 9 5 6 7 8 0 7 8 0 7 8 0 7 8 0 7 8 0 7 1 8 0 7 8 0 7 8 0 7 9 0 7 1 0 8 0 0 8 0	Total Busbar - \$/MWh	\$ 32.79	13.73			13,39	\$ 13.46	14.55	13.25	\$ 11.65	\$ 14.19		15,96	12.51	13.52
\$ \$	Fuel - \$/MWh		7.44			\$ 10,09	\$ 9.85	29.6	686	\$ 8.02	\$ 11.38		12.05		9.77
\$ 2 Oct 5 1.78 9 0.71 8 0.07 8 0.07 8 0.07 8 0.07 8 0.07 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 8 0.04 9 0.04 9 0.04 9 0.04 9 0.04 9 0.04 <t< td=""><td>Non-ftell - S/MWh</td><td></td><td>629</td><td></td><td></td><td>331</td><td>361</td><td>4 88</td><td>938</td><td>3.63</td><td>281</td><td></td><td>391</td><td></td><td>3.75</td></t<>	Non-ftell - S/MWh		629			331	361	4 88	938	3.63	281		391		3.75
\$ \$	Variable O&M (per RD) definition) - \$/MWh	\$ 204				990 8	0.72	86.0	290	\$ 0.73	\$ 0.56				0.75
\$ 1,040,253 \$ \$ 10,0756 \$ 3,4223,562 \$ \$ 3,4223,562 \$ \$ 3,4223,562 \$ \$ 3,4223,562 \$ \$ 3,4223,562 \$ \$ 3,4223,562 \$ \$ 3,4223,562 \$ \$ 3,4223,562 \$ \$ 3,4223,562 \$ \$ 3,4223,662 \$ \$ 3,	Fixed O&M (RDI definition) - \$/kW installed	\$ 820				264	2 89	390	2 69	2 90	\$ 225			00000000	3.00
Coal Coal <th< td=""><td>Total O&M without Fuel</td><td>\$ 1,640,253</td><td>10</td><td>\$ 20,920,069</td><td>6</td><td>\$ 9,743,033</td><td>\$ 7,423,306</td><td>12,460,175</td><td>\$ 25,358,344</td><td>\$ 23,409,789</td><td>\$ 30,186,886</td><td>\$</td><td>1 :</td><td>8.734</td><td>150,073,054</td></th<>	Total O&M without Fuel	\$ 1,640,253	10	\$ 20,920,069	6	\$ 9,743,033	\$ 7,423,306	12,460,175	\$ 25,358,344	\$ 23,409,789	\$ 30,186,886	\$	1 :	8.734	150,073,054
Figure F	el Kind (Coal Gas, Oil or Nuclear)	***************************************	Coal	Coal		Coal	Coal	Coal	Coal	Coal	Coal		Coal	Coal	Coa
1,231 4,196,252 1,386,536 9,46,144 1,32,777 3,447,456 2,94,653 6,086,879 2,607,287 1,966,697 2,167 1,027 1,047 2,1034 1,132 1,047 2,1034 1,047 2,1034 1,047 2,1034 1,1035 1,047 2,1034 1,1036 1,1036 1,047 2,1034 1,1036 1,1036 1,1036 1,1036 1,1036 1,1036 1,1036 1,1036 1,1036 1,1036 1,1036 1,1036 1,1036 1,044	ort (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)		tons	tons		Tons	Tons		tons	tons	tons		tons	tons	Tons
1.291 7.337 10.703 10.	nantity (units) of Euel Burned		600 317	4 196 252		1 368 535	946 144	1 130 777	3 447 456	2 914 593	6.085.879		2 697 267	1 696 697	21 638 461
15.071 9.08	received (armed or a common for the former of mine and		11.201	7,037		10.703	10,703	10,703	10 703	10.150	10.529		10 412	60,000,	0 844
15 15 15 15 15 15 15 15	and Cost of English as Debut flow during year		15.021	8500		20.846	20,100	20.846	20,763	17.075	19,781		21 004	11 370	
0 700 0 441 1 1006 1 1007 1 1007 0 666 0 957 1 1109 0 578 Take 1 1044 1	tog cost of restraint, as pervaling year		15.906	9.035		21 541	24 551	22.040	21.651	17.6/3	20.022		73 007	11.596	
Gas MCF (3764728 M	warana Cost of Firet Burned her Million BTill		0.700	0.737		1,006	1007	1 007	1 007	8980	0.053		1 100	0.578	
MCF	versoo Cost of Englished per KWh Met Gen		90.	2			00	8					201		
MACF 76,941 76,944 78 76,941 3.6	mal: Kind (Coal Gas Oil or Mindean)			11	è			0					3		ě
3,784,786 3,784,786 1,044 1,04	bit (Coal-tone Oil-barrel/Gas-mcf/Niclear-indicate)				SEO W								MCE		M CM
Oil	managed to the state of the Demonstration of the De				9704 700								76 941		3 861 630
Lorent Coll Coll Coll Coll Coll Coll Coll Col	reading (units) of ruel burned				3,764,786								10,04		2,00,100,0
2.261 Oil O25 Oil	was read contraction butter (bluminicate it fluctear)				***O.'-								10,0		1,0
2.221 2.156 Oil	vg cost at Puerunit, as Delva 1.0.0. during year				, ;								0.00		
Color Colo	verage cost of rule per unit burned				L977								0.310		
OH OH<	verage cost of ruel burned per million BIU				7.100								008.7		
Denois barrels	verage Cost of Fuel Burned per KWn Net Gen		4	i	0.025	ě		i	•	ě	ě		0.012	Č	Ċ
Darries Darries <t< td=""><td>Jel Kind (Coa), Gas, Oil, or Nuclear)</td><td></td><td>5</td><td>5</td><td></td><td>5</td><td>ē,</td><td>5</td><td>5</td><td>5</td><td>5</td><td></td><td></td><td>5</td><td>5</td></t<>	Jel Kind (Coa), Gas, Oil, or Nuclear)		5	5		5	ē,	5	5	5	5			5	5
887) 140,050 1	nit (Coal-tons/Oil-barrel/Gas-mct/Nuclear-Indicate)		barrels	barrel		Barrels	Barrels	Barrels	parrel	Darrei	barrel			parrei	Barrels
ear) 140,000 1	Jantity (units) of Fuel Burned		3,350	13,221		2,711	112,1	13,232	17,159	12,703	18,391			2,920	67,745
25.845 22.728 24.16 24.116 24.116 24.116 24.37 10.16.63 25.339 22.69 25.340 25.88 23.660 28.191 4.603 3.345 6.408 5.500 3.770 4.310 4.301 4.024 4.310 4.794	g Heat Cont - Fuel Burned (btu/indicate if nuclear)		140,000	140,000		140,000	140,000	140,000	140,000	140,000	140.000			140,000	140,000
23.196 3.5679 3.770 4.310 4.024 4.024 4.784 4.784 4.784 4.784	g Cost of Fuel/unit, as Delvd t.o.b. during year		25.845	22.728		24,116	24.115	24.116	24.116	24 3/1	16.165			25.339	
4 503 3 545 6 408 5.500 3.770 4.510 a 501 a 0.24 4.754	erage Cost of Fuel per Unit Burned		26.479	23.196		37.679	32.339	22.169	25.340	25.288	73.660			26.191	
	erage Cost of Fuel Burned per Million B.1U		4.503	3.845		0.408	9.500	3.110	4.310	4.301	4.024			4.7.4	
	verage Cost of Fuel Burned per KWh Net Gen		,	_			,							•	

1 2 2 3	Kind of Plant (Internal Comb. Gas Turb, Nuclear															
2 8		Steam - Geo	Steam	Steam	Gas - Turbine	Steam	Steam									
m	Type of Constr (Conventional, Outdoor, Boiler, etc.)	Indoor	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Conventional							
	Year Originally Constructed	1984	1954	1959	1951	1978	1980	1983	1978	1974	1974	1972	1963	1978		
4	Year Last Unit was installed	1984	1957	1972	1955	1978	1980	1983	1983	1977	1979	1972	1971	1978		
n o	lotal Installed Cap (Max Gen Name Plate Ratings-MVV)	26.1	188.6	816.8	251.6	418.5	269.2	446.4	1,134.1	892.8	1,518.0	16.0	707.2	289.7	5,840.9	
ום	Net Peak Demand on Plant - MW (60 minutes)	0,5	188	786	218	425	270	470	1,330	922	1,435	16	746	288	5,784	
- 0	May Continue District to Load	0/2/0	870'9	g'/an	4,929	1,294	8,2,8	1667	8,750	o, /43	8,750	4,488	9,760	8,328		
	Months Mark Time Language (Wegawaits)	' 6	, ,	, ,	, 100	, 000	, 44		, ,	' 100	1 100	';	, 4	1 000	[
, ;	While it work that the Condense water	67	0/-	711	792	800	8C7	400	90.	080	199'	4	00/	907	110'0	
2 5	Average Number of Employees		, 11	'	, ,	' '		, 6	1 50	, 6	'	1 (, 6	, ,	
- ¢	Not Concretion Evaluation of Disast Has 1940.	455 500 000	4 220 255 200	000 000 000 2	200 000 000	000 002 002 0	4 005 005	100000	107	П	000 100 0		701	1	14.1	
4 5	Cost of Direct Land and Land Gibbs	34 006 400	000,533,022,	0,233,783,000	303,093,000	2,723,700,000	000'076'066'1	3,311,109,000	6,030,794,000	1	000,188,000,0		4,703,429,000		39,705,240,000	
2 5	Strictures and Improvements	8 148 FEE	10 100 460	303 000 38	1,020,271	3,000,910	5,500,910	9,000,910	29,000,149		130,060,301	033	430,240	210,020	17,503,77	
15.	Faultment Costs	32 731 843	60 741 030	314 425 428	56.029.362	201 940 916	136.024.852	386 525 233	724 491 000	315,483,485	653 398 776	3 254 927	25,319,776	252 847 894	2 666 554 221	
9	Asset Retirement Costs		200'11 1'00	200	201,020,00	2000	100'1-10'10'	20,020,000	200		2,000,000	77,107,0	200		-,,,,-	
17	Total Cost	\$ 69 904 827	\$ 71 878 044	\$ 370 526 255	\$ 70.676.352	\$ 270 276 417	\$ 193 555 485	\$ 487 543 950	\$ 951 375 852	411 172 697	785 614 934	3 459 606	\$ 308 908 364 \$	\$ 200 859 557	53 345 396 488	
8	Cost ner KW of Installed Capacity (our chara)	١.		45.65	98 080	646.87	718 05	4 000 47	29 950	460 54	548 40	246.72	436.63	١.	570 75	
0	Operation Street/islon and Engineering	205.000	7		756 785	777 351	777 351	777 354	2 247 053	2218245	550 543		7 720 124	00:000	14 517 753	
50	Fue	,	8 201 028	28 747 127	11 744 310	21 356 415	15 594 410	25 007 036	61.957.860	44 372 922	113 621 498		58 781 469	21 852 650	349 278 865	
21	Coolants and Water (Nuclear Plants Only)	٠	,	,	, ,						1	,				
22	Steam Expenses	101,262	41.470	999.644	2.902	1.546.465	438.881	1.062.614	3 047 960	1.121.984	4.731.412	•	900.844	870.903	11.818.381	
23	Steam From Other Sources	3,696,102		,	,	,							'	,	3,696,102	
54	Steam Transferred (Cr.)		*		•	•	•	٠		•	•					
55	Electric Expenses		,	,		,	•	•	f	1	٠			1	1	
56	Misc Steam (or Nuclear) Power Expenses	1,138,627	4,832,262	12,788,671	2,802,020	6,626,499	6,621,934	6,411,352	19,659,785	15,498,004	14,853,345		6,792,776	3,732,511	82,098,001	
27	Rents	•	645	120,064	2,845	15,171	15,171	15,171	45,513	3,989	160,184	•	3,311	4	336,551	
28	Allowances	•		•	,		•		*	•	•	•	•	•	•	
65	Maintenance Supervision and Engineering		,	,	1	•	f	•	•		•	•	1	•		
30	Maintenance of Structures	,	•	•	•	•	•	1	1	٠	•	1	•	٠	,	
31	Maintenance of Boiler (or reactor) Plant	8,719	2,037,402	6,643,314	447,901	3,141,810	(3,226,177)	2,050,045	1,965,677	3,719,557	5,375,988	•	4,693,917	1,834,801	26,727,277	
32	Maintenance of Electric Plant	118,182	1,558,230	1,613,689	204,877	1,178,296	93,195	455,842	1,727,333	380,985	1,703,452	٠	1,527,848	399,871	9,844,477	
23	Maintenance of Misc Steam (or Nuclear) Plant	143,648	59,601	2,689,642	(78,714)	968,886	596,098	694,000	2,258,984	1,172,666	6,992,080		(281,880)	_	1	
34	Total Production Expenses	\$ 5,412,526	\$ 18,664,439	\$ 57,398,368	\$ 15,882,926	\$ 35,605,893	\$ 20,905,863	\$ 36,468,411	5 92,980,165	69,098,362	147,988,500	9	\$ 75,157,409	\$ 29,840,165	\$ 512,422,862	
55	Expenses per Net KWh	\$ 0.0348	0.0153	\$ 0.0110	\$ 0.0437	\$ 0.0131	\$ 0.0105	\$ 0.0110	\$ 0.0116	\$ 0.0097	0.0140		\$ 0.0160	\$ 0.0132	0.0129	
	Total Busbar - \$/MWh	\$ 34.80	15.30			\$ 13.07	\$ 10.47	\$ 11.01	11.58	9.69	13.95		\$ 15.98	\$ 13.20	12.91	
	Fuel - \$/MWh		6.72	\$ 5.49	\$ 32.35	5 7.84	\$ 7.81	\$ 7.55	5 7.72	6.22 \$	10.71		\$ 12.50	2 9.67	8.80	
		\$ 34.80	- 3	5.47		\$ 5.23	\$ 2.66	\$ 3.46	3.86	3.47	3.24	,	3.48	3.53	4.11	
	Variable O&M (per RDI definition) - \$/MWh	221.8	13	1.09	\$ 228	301	5 0.53	\$ 0.69	2.0	0.69	0.65			\$ 0.71 \$	8	
	Fixed O&M (RDI definition) - \$/kW installed		.	4.38	\$ 912	. 19	\$ 2.13	\$ 2.77	3.09	\$ 2.77	2.60		\$ 279	\$ 2.83	3.29	
	Total O&M without Fuel	\$ 1,716,424	\$ 10,463,411	\$ 28,651,241	\$ 4,138,616	\$ 14,249,478	\$ 5,311,453	\$ 11,461,375	\$ 31,022,305	5 24,725,440	34,367,002	4	\$ 16,375,940	\$ 7,987,515	163,143,997	
9 1	Fuel: Kind (Coal, Gas, Oil, or Nuclear)		Coal	Coal		Coal	Coal	Coal	Coal	Coal	Coal		Coal	Coal	Coal	_
7.0	Unit (Coal-tons/Ull-barrel/Gas-mct/Nuclear-Indicate)		Suoi	Suo		cus	suo	lons	ons	suo	Suoi		suo	Suo	SHOL	
9 9	Quantity (units) of Fuel Burned		552,590	3,705,527		1,229,578	903,720	1,439,073	3,572,372	2,956,251	6,083,607		2,509,133	1,663,390	21,042,869	
5 3	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		12,335	7,979		11,901	11,828	11,661	11,786	11,983	9,279		9,965	8,024	9,918	
2 :	Avg Cost of Fuel/unit, as Delvd To b. during year		14.172	7.319		16.81/	16.817	15.817	16.817	15,147	18.342		23.053	17.971		
- (Average Cost of Fuel per Unit Burned		14.615	7.423		17.261	17.196	17,183	17.213	14.937	18.584		23.169	13.054		
7 6	Average Cost of Fuel Burned per Million D10		0.002	0.403		071.0	171.0	0.737	0.130	670.0	 Dn:		1.183	4.00		
98	File: Kind (Coal Gas Oil or Nichoar)				3		•			4	•			,	36	
2.5	1 htt (Coal-toos/Oil-barre/Cos-mof/Muclear-indicate)				MOR								N E		E TOWN	
92	Ouantity (units) of Firel Burned				4 501 029			,					168 304		4 669 333	
98	Ava Heat Cont - Fuel Burned (btu/indicate if nuclear)				1.038								1.035		1 038	
40	Avg Cost of Fuel/unit, as Delvd f o b. during year						,						3.850			
ų.	Average Cost of Fuel per Unit Burned				2.609	,		,					3.850			
42	Average Cost of Fuel Burned per Million BTU				2.514	,							3.719			
43	Average Cost of Fuel Burned per KWh Net Gen				0.032	0.008	0.008	0.008					0.013			
36	Fuel: Kind (Coal, Gas, Oil, or Nuclear).		ō	ō		ΙΟ	ō	Ö	ð	ō	ŏ			ō	õ	
37	Unit (Coal-tons/Oit-barrel/Gas-mcf/Nuclear-indicate)		Barrel	Barrel		Barrel	Barrel	Вапе	Barrel	Barrel	Barrel			Barrel	Barrels	
38	Quantity (units) of Fuel Burned		4,687	10,281		5,084	2,050	10,112	17,247	8,409	23,732			5,056	69,411	
39	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		140,000	140,000		140,000	140,000	140,000	140,000	140,000	140,000			140,000	140,000	
40	Avg Cost of Fuel/unit, as Delvd to b during year		26.685	24.664		25.972	26.378	27.574	26.960	25.599	23.627			27.513		
41	Average Cost of Fuel per Unit Burned		26.685	24.664		25.972	26.378	27.574	26.960	25.599	23.627			27.513		
7 5	Average Cost of Fuel Burned per Million BTU		4.538	4.195		4.417	4.486	4.690	4,585	4.354	4.018			4.679		
m :	Average Cost of Fuel Burned per KWh Net Gen															

Control Cont	ine no						_	,	,		1000	1000				2
Compact Comp	:		Steam - Geo	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Gas - Turbine	Steam	Steam	
		Type of Constr (Conventional, Outdoor, Boiler, etc)	Indoor	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler		Outdoor Boiler		Outdoor Boiler	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Conventional	
		Year Originally Constructed	1984	1954	1959	1951	1978	1980	1983	1978	1974	1974	1972	1963	1978	
Control Cont		Year Last Unit was Installed	1984	1957	1972	1955	19/8	1980	1983	1983	//61	6/61	1972	19/1	1978	0
sust Contention Conten		ford instance cap (max sen lyane Plate Kalings-MVV)	1.07	909	0.00	251.6	443.0	0.092	495.0	1,223.5	930.0	0.00	0.0	2.101	7.607	0,000,0
The control of control		Diest Feak Cemans on Frant - MW (ou minutes)	07 0	190	613	122	7 20 7	107 0	404	1,304	902	0.430		0 7 7 0	207	2,732
1. 1. 1. 1. 1. 1. 1. 1.		Not Continuous Plant Capability (Magawatte)	NEO'O	5	ž,	715	3	0,130	0.10	10.0		5		2	670	
The control work work work work work work work work		When Not Limited by Condenser Water	23	175	762	235	403	259	460	1 122	895	1413	14	700	268	5 607
		When Limited by Condenser Water	1			'		. "	. '	. "	1			,	•	•
		Average Number of Employees	12	72	181	35	92	9/	75	727	165	350	2	159	2/2	1.284
		Net Generation, Exclusive of Plant Use - KWh	151,736,000	1,372,236,000	5,667,267,000	718,120,000	2,722,089,000	1,918,169,000	3,430,372,000	8,070,630,000	Ľ	10,776,247,000			1	1,312,877,000
The control of the co		Cost of Plant: Land and Land Rights	31,026,429	956,546	10,417,291	1,020,271	9,868,916	9,868,916	9,868,916	29,606,749		1,146,361			1	77,207,453
Control Cont		Structures and Improvements	6,146,757	10,372,194	45,774,148	13,403,934	59,966,532	49,161,664	88,211,628	197,339,824	93,700,731	132,172,475	204.044	55,719,136	47,801,109	602,634,352
		Equipment Costs	32,695,632	64,815,522	316,781,384	53,622,212	202,052,812	138,532,740	382,932,945	723,518,497	310,328.895	662,601,365	3,254,927	250,052,091	253,238,495	2,670,909,020
The control interview of the control interview		Asset Retirement Costs		***************************************	- 1											
		iotal Cost	1	\$ 76,144,262	15	\$ 68,046,417	\$ 271,888,260		6 481,013,489	950,465,070	\$ 406,394,024	\$ 795,920,201	\$ 3,459,606	306,229,475 \$		320,
Expense Continue Proposeries Continue P		Cost per KW of Installed Capacity (our share)		\$ 403.65	\$ 456.64	\$ 270.41	\$ 613.78	\$ 693.30	5 970.63 \$	776.84	\$ 408.03	\$ 516.50	\$ 216.23 \$	433.02 \$	1,040.01	553.25
The control beneficially and the control beneficially as a control ben		Operation Supervision and Engineering	220,740	1,558,989	3,635,082	415,875		(39,714)		(119,185)	1,125,694	2,513,551	, ,	1,424,388	1,241,387	12,016,521
Part		Tue!	,	9,089,823	30,161,510	35,561,055	19,713,495	14,302,133	25,240,417	59,256,046	45,525,425	118,240,371	896°C6	64,675,128	20,381,980	383,087,306
Expression of the control of the con		Coolants and Water (Nuclear Plants Only)				1		, ,				1,855,148				1,855,148
Elegenesia (Principal Power Elegnesia (Principal Power Elegenesia (Principal Power Ele		Steam Expenses	138,920	127,095	1,020,850	•	1,527,200	398,506	1,021,748	2,947,454	1,5/1,532	7	3	2,832,367	94,584	8,733,9UZ
Transferred (CT) Transferred		Steam From Other Sources	3,660,711				•	,			•	•			,	3,650,717
Control Cont		Steam Transferred (Cr)	•		•	•	r									•
		Electric Expenses						' 17		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 700	1 20 000 77		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 000	100000
Particle		Misc Steam (of Nuclear) Power Expenses	720,145	2,935,242	7,436,300	2,083,115	1/4,637	/11/00/	892,708	2,435,451	9,284,631	14,052,911		1,333,889	7,404, 107	46,956,633
		Kents	•	2,133	(13,224)	,	89	108	308	204	86,716	13	•	4	٠	10,142
The contribute Lightner Lightn		Allowances	•	•		•			ŀ	•						
		Maintenance Supervision and Engineering	r		•	•	ı		•	ı	•	٠		,		
		Maintenance of Dollar (as see see) Disset	, 26.7	2 730 040	4 000 034	, 024 604	7 200 7	0 750 400	7 406 904	10 204 604	000 200 0	6 224 620	1	2 240 077	2 247 207	AA 6A7 A11
Total College (1) S (2)		Maintenance of Boiler (or reactor) Plant	807"/	2.739.910	4,859,031	9/1,664	405,175	3,733,102	7,425,324	18,384,601	4,647,948	1 300 130		5,348,072	3,347,287	44,047,411
Property		Maintenance of Life Cham (or Nicology) Disse	903 204	1,043,614	212,462.	1,093,920	120,024	200,437	400,000	1, 102,043	7,004,500	1,389,120 R 451,032	•	487,037	1 730 008	23.453.100
Column C		Total Description Expenses	5 003 537	1	6 EA 670 040	0282801	C 20 700 414	\$ 40 ANS 700 6	25 003 325	01/1/7	E 66 024 041	2 150 844 666	9 08 080	83 016 204 €	31 017 314	536 085 047
First blooms State		I otal Production Expenses	2,093,527	1	24,078,948	41,319,549	414 88 / 14	19,403,702	35,063,325	64,200,442	116 470'00	3 130,044,000	7 606'CA C	\$ 02,810,284	10/10/10	330,000,000
Vinite Diagram Vini		Expenses per Net KWh	\$ 0.0336	\$ 0.0137	960000	\$ 0.0575	\$ 0.0109	\$ 0.0101	\$ 0.0102 \$	0.0104	\$ 0.0094	\$ 0.0140		0.0156 \$	0.0145	0.0130
		Total Busbar - S/MWn	\$ 33.57	13.70	9,65	\$ 57.54	\$ 10,95	\$ 10.12	10.23	10.44	999	3 14.00	., (15,63 \$	14.53	12.98
1,000, 1		Fuel - S/MWh	4	6.62	\$ 5.32	\$ 49,66	\$ 7.24	\$ 7.46	7.36	7.34	5 6.45	10.97	9	12.05	9.55	9.27
1,42, 5, 10,63, 4, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,		Non-fuel - S/MWh	200000000000000000000000000000000000000		4	7.88	3.71	\$ 2.66	2.87 1	3.10	2.91	303	9	3.58	88	3.70
1,422,616 2, 9,716,044 2, 45,16,439 2, 5,668,434 1,00,065,919 3, 6,10,1,569 3, 5,664,269 3, 25,604,269 3, 25		Variable Com (per KL) definition) - 5/MV/n			3	198	200	, cr (797	200	U.O.	A 100010#	6 20 C	986	# 70°C
Column		Tixed Com (RD) definition) - 3/KVV installed	40 100	2000	vil 5	0.30	087 040	4 6 101 560	2.30	25 020 206 9	20 400 406	300 000 000	WALCHARD.	40 244 466 6	10 636 334	145 007 744
Cost		lotal Own without ruel	3 1,432,816	9,715,504		\$ 5,658,494	818 C80 OL C	5 5,101,569	9,842,908	25,030,396	\$ 20,499,460	\$ 32,004,295	,	19,241,100 \$	10,030,334	127,987,741
630, 1648 1,088, 1048 1,088, 1048 1,088, 1048 1,088, 1048 1,088, 1048 1,098, 1048 1,077, 1041 1,078, 1041		Fuel Kind (Coal Gas, Oil, or Nuclear)		Coal	Coa		Coa	Coa	Coai	Coa	Coal	- Coar		C03	E Com	Coa
12.556 1.29 1.1 1.20		Unit (Coar-tons/Oil-barrei/Gas-mct/Nuclear-Indicate)		Short	Short		suo:	SUO!	Suo I con	Short	SUO BOO C	4000 FCC 6		Silo	2001	24 525 975
1,502 3,508 1,509 1,50		Quantity (units) of Fuel Burned		630, 164	3,864,062		1,189,403	850,448	811,626,1	3,574,958	3,028,902	0,021,543		2,828,964	261,176,1	010,626,12
15.060 7.300 16.540 16.540 16.540 14.340 14.340 14.340 15.049 22.025 12.555 12		Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		12,352	8,238	,	12.13/	12,031	11,883	12,003	908,11	797'6		089'6	790.9	OSS'S
1,346 7,556 7,556 7,546 7,556 7,549 7,54		Avg Cost of Fuel/unit, as Delvd f.o.b. during year		15.060	7.300	,	16.540	16.540	16.540	16.540	14.340	19.048		507.17	12.566	
Comparison		Average Cost of Fuel per Unit Burned		14.346	7.656		16.411	16.506	16.309	16.390	14.895	19.498		22.026	12.820 9.350	
Gas Gas Gas MCF		Average Cost of Fuel Burned per Million BTU		0.581	0.465		0.676	0.686	0.686	0.683	0.625	1.053		1.114	0.795	
Case Morth		Average Cost of Fuel Burned per KWh Net Gen		,	,			,		•	41	,		•		•
Mor		Fuel: Kind (Coal, Gas, Oil, or Nuclear)				Gas								Gas		Gas
1,044 1,04		Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)				MCF								MCF		AC.
1,044 1,04		Quantity (units) of Fuel Burned		*	•	8,864,139			,	•	•			596,148	0	9,460,287
4 023 4 023 3 885 0 007 <th< td=""><td></td><td>Avg Heat Cont - Fuel Burned (btufindicate if nuclear)</td><td></td><td>*</td><td>•</td><td>1,049</td><td>•</td><td></td><td>,</td><td>•</td><td></td><td></td><td></td><td>1,044</td><td>0</td><td>1,049</td></th<>		Avg Heat Cont - Fuel Burned (btufindicate if nuclear)		*	•	1,049	•		,	•				1,044	0	1,049
1,000		Avg Cost of Fuel/unit, as Delvd f.o.b, during year			•	1	,				1	1		,		
0007 0.005 0.005 0.007 0.008 0.007 0.007 0.007 0.001 0.013 3.822 0.00 0.00 0.005 0.007 0.001 0.0		Average Cost of Fuel per Unit Burned		t	4	4.023	*		,	,	,			3.782		
Ont Ont <td></td> <td>Average Cost of Fuel Burned per Million BTU</td> <td></td> <td></td> <td>,</td> <td>3,835</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>*</td> <td></td> <td>3.622</td> <td></td> <td></td>		Average Cost of Fuel Burned per Million BTU			,	3,835					•	*		3.622		
Oil		Average Cost of Fuel Burned per KWh Net Gen		0.007	0.005	0.050	0.007	0.008	0.007	0.007	0.007	0.011		0.012	0.010	ě
Barrel B		Fuel: Kind (Coal, Gas. Oll, or Nuclear)		ō	ō		ō	ō	ō	ō	ō	5		ō	5	5 -
1,335 15,154 4,639 2,243 9,215 16,576 10,738 2,3062 2,300 4,556 10,739 10,739 10,739 10,739 140,000 140,000 140,000 140,000 140,000 140,000 140,000 140,000 140,000 140,000 140,000 140,000 140,000 137,102 38,066 334,28 41,079 39,882 39,827 38,277 38,597 38,006 34,688 10,310 6,474 6,766 6,986 6,784 6,780 6,510 6,119 6,464 5,899		Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)		Barrel	Barrel		Barrel	Barrel	Barrel	Barrel	Barrel	Barrel		Barrel	Barrel	Barrels
140,000 140,00		Quantity (units) of Fuel Burned		1,335	15,154	1	4,939	2,423	9,215	16,576	10,736	23,062		2,900	4,696	74,460
ir 37.102 36.066 - 39.428 41.079 39.882 39.927 35.977 38.008 34.688 63.10 6.179 6.199 6.706 6.510 6.119 6.464 5.899		Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		140,000	140,000	•	140,000	140,000	140,000	140,000	140,000	140,000		140,000	140,000	140,000
37.102 36.066 39.428 41.079 39.882 39.927 35.276 35.977 38.008 34.688 63.10 63.10 6474 6.706 6.700 6.510 63.19 6.464 5.889		Avg Cost of Fuelfunit, as Delvd f.o.b. during year		37.102	38.066	,	39.428	41.079	39.882	39.927	38.217	35.977		38.008	34.688	
6310 6474 6706 6386 6784 6.700 6510 6.119 6.464 5.899		Average Cost of Fuel per Unit Burned		37, 102	38.066		39.428	41.079	39.882	39.927	38.276	35.977		38.008	34.688	
		Average Cost of Fuel Burned per Million BTU		6.310	R 474		£ 705	900 0	7 40 6	0010	07.0			7070	2 800	
		0.000					27.75	0.300	0.764	06/90	6.510	0.1.9		0.404	9000	

Line no.				Flam											olai
	Kind of Plant (Internal Comb, Gas Turb, Nuclear	Steam - Geo	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Gas Turbine	Steam	Steam	
	Type of Const (Constituted, Outdoor, Boiler, etc.) Veer Originally Constructed	100001	Cutodot bollet	Semi-Cutabor	Outdoor 1061	Cutdoot Eloller	Cutabor Boller	Cutdoor Boiler	Outdoor Boller	Outdoor Boiler	Semi-Cutdoor	Outdoor Boiler	Cutdoor Holler	Conventional	
	Year Last Unit was Installed	1984	1957	1972	1955	1978	1980	1983	1983	1977	1979	1972	1971	1978	
	Total Installed Cap (Max Gen Name Plate Ratings-MW)	26.0	188.6	816.7	251.6	472.5	472.5	495.5	1.440.5	0.966	2.311.2	16.0	707.2	362.0	7.115.8
	Net Peak Demand on Plant - MW (60 minutes)	25	181	778	224	407	267	462	1,307	868	1,430	16	724	283	5,695
	Plant Hours Connected to Load	7,966	8,742	8,760	8,239	5,430	7,831	7,629	8,699	8,523	8,757	2,419	8,760	8,362	
	Net Continuous Plant Capability (Megawatts)		• !	1		•	•	•	•	1	•	•	•	,	
	When Not Limited by Condenser Water	23	1/5	762	235	430	430	460	1,320	895	2,120	14	700	335	6,579
	When Limited by Condenser Water	· c	' 6	' 90	, ,,	' F	' £	٠ ۴	' 6	, ,	4 0 40		' 60	٠,	100
	Average number of Employees	200 040 000	4 270 745 000	000 902 669 3	200 000	11	900 404 200 4	//	730		200	9			1761
	Cost of Plant 1 and and 1 and Rights	31 026 429	1,372,713,000	10 417 201	1 000 221	000,978,000	0.00,194,000	3,233,035,000	000,539,659,000	2 406 337	10,408,201,000	31,983,000	5,349,5597,000	2,251,817,000	39,429,934,000
	Structures and Improvements	6 147 415	10.526.349	47 008 149	13,020,1	59 991 962	49 197 168	88 271 615	107.460.746		132 302 948	204 044			605 314 530
	Equipment Costs	33,234,489	65,600,601	324,474,185	53,803,281	208,945,987	138,383,936	378,066,384	725,396,306	322,667,378	667.812.545	3.993.905	253,228,898	248.089.104	2.698,300,693
	Asset Retirement Costs														
	Total Cost	\$ 70,408,333	\$ 77,083,496	\$ 381,899,625	\$ 68,238,884	\$ 278,786,727	\$ 197,429,882	\$ 476,186,777	\$ 952,403,385	\$ 419,290,839	\$ 801,261,854	\$ 4,198,584 \$	\$ 309,684,385 \$	296,333,815	\$3,380,803,201
	Cost per KW of Installed Capacity (our share)	ŀ	\$ 408.71	\$ 467,61	\$ 271.22	\$ 590.02	\$ 417.84	\$ 961.02	5 66116	\$ 420.97	346.69	\$ 262.41 \$	437.90		475.11
	Operation Supervision and Engineering	34,417	259,931	984,092	21,326,984	(18,085)	(18,085)	(18.085)	(54.256)	105.967	845.388		284.671	253.867	24.041.062
	Fuel		9,289,475	39,570,522	68,988,431	17,707,583	18,121,662	30,497,486	66,326,730	45,854,963	117,207,103	1,886,021	57,855,783	19,364,310	426,343,339
	Coolants and Water (Nuclear Plants Only)	,													
	Steam Expenses	(3.330)	18.645	201.378	864	789 248	394.708	1 000 041	2 183 997	364 619	(1 696 594)	,	2 623 956	35 975	3 729 510
	Steam From Other Sources	3.698,736				,			,		,	,			3 698 736
	Steam Transferred (Cr)		,			٠	٠	,				,		•	1
	Electric Expenses		,	•	,	134 952	98 707	98 707	332 366	,	166 139	407 780		,	906 265
	Misc Steam (or Nuclear) Power Expenses	1.015.406	4.350.207	11,366,394	3.146.605	4 510 852	2.070.572	4.639.208	11 220 632	9 299 028	9 253 007	,	9 522 783	3 019 118	62 193 178
	Rents	11,700	15,150	326	3,447	276	176	2.738	3,189	77,980	174.264		(1.644)	,	284.413
	Allowances			. '			•	,						٠	, '
	Maintenance Supervision and Engineering			,								,	,	12.017	12.017
	Maintenance of Structures	102,559	155,043	717,475	51,650	557,423	497,721	550,517	1,605,662	653,259	5,453,726		637,326	298,405	9,675,104
	Maintenance of Boiler (or reactor) Plant	284,028	1,731,574	8,824,776	834,730	4,531,094	3,764,109	9,407,727	17, 702, 929	10,237,738	13,759,240	,	5,146,383	3,566,145	62,087,544
	Maintenance of Electric Plant	731,568	516,174	2,194,480	1,244,867	112,219	1,196,241	1,456,000	2,764,460	5,570,761	3,110,095	1	968,418	380,358	17,481,181
	Maintenance of Misc Steam (or Nuclear) Plant	256,908	1,204,483	3,291,956	528,219	61,060	116,973	134,024	312,056	2,724,202	4,528,019		2,430,947	1,744,037	17,020,828
	Total Production Expenses	\$ 6,131,992	17,540,682	\$ 67,151,399	\$ 96,125,797	\$ 28,386,622	\$ 26,242,784	\$ 47,768,363	\$ 102,397,765	4	52,	\$ 2,293,781 \$	79,468,621	28,674,232	627,473,177
	Expenses per Net KWh	\$ 0.0401	0.0128	\$ 0.0119	\$ 0.0973	\$ 0.0158	\$ 0.0138	\$ 0.0148	\$ 0.0148	on			0.0149 \$	0.0127	0.0159
	Total Busbar - \$/MWh	\$ 40.15	12.78	\$ 11.92	\$ 97.35	\$ 15.76	\$ 13.77	14 77	14 76	69		. •	14.85	12.73	15.91
	Fuel - \$/MWh	69	5 6.77	\$ 7.02	\$ 69.86	\$ 9.83	\$ 9.51	\$ 9.43	926	ы	11.20	\$ 58.97 \$	10.81	8.60 \$	10.81
	Non-fuel - \$/MWh	\$ 40.15	6.01	\$ 4.90	\$ 27.48	5.93	\$ 4.26	5.34	5.20	69		\$ (58.97) \$	4.04.3		5.10
	Variable O&M (per RDI definition) - \$MMVh \$	3.17	\$ 1.20	S 0.98	\$ 6.50	3 1.19	\$ 0.85	1.07	8,	\$ 0.93 \$	0.68	2.55	. 0.81	0.83	1.02
	Fixed O&M (RDI definition) - \$/MWh	12.76	\$ 4.81	3.92	\$ 21.99	\$ 4.74			\$ 4.16	w	2.72		3.23 \$	3.31	4.08
	Total O&M without Fuel	\$ 2,433,256	8,251,207	\$ 27,580,877	\$ 27,137,366	\$ 10,679,039	\$ 8,121,122	\$ 17,270,877	\$ 36,071,035	69	35,5	\$ 407,760 \$	21,612,838	9,309,922	201,129,838
	Fuel: Kind (Coal, Gas, Oil, or Nuclear)		Coal	Coal		Coal	Coal	Coal	Coal	Coal	Coal		Coal	Coal	Coal
	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)		Tons	Tons		Tons	Tons	Tons	Tons	Tons	Tons		Tons	Tons	Tons
	Quantity (units) of Fuel Burned		623,905	3,811,627		794,683	836,722	1,442,935	3,074,339	2,668,054	5,909,654		2,853,666	1,690,683	20,631,929
	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		12,226	8,247		12,006	11,910	11,835	11,903	12,094	9,267		9,897	8,072	9,915
	Avg Cost of Fuelfunit, as Delvd f.o.b. during year		14.373	9,655		20.707	20.707	20.707	20.707	16.803	19.325		19.363	11.221	
	Average Cost of Fuel per Unit Burned		14.768	10.275		21.958	21.436	20.899	21.319	16.820	19,638		19.602	11.346	
	Average Cost of Fuel Burned per Million BTU		0.604	0.623		0.915	0.900	0.883	0.895	0.695	1.060		1.018	0.703	
	Average Lost of Fuel Burned per Kwyn Ivet Gen		0.007	700.0	(0.0.0	0.00	0.008	0.010	0.007	110.0		110.0	600.0	(
	Fuel. Nind (Coal, Gas, Oil, of Nuclear)				cas							Cas			Gas
	Office (Code-unis/On-barren/Sas-monivoreal-indicate)				100							- SE - SE			TOWN COOK
	Availant Cost - Engl Durned (https://engloate.is.purdost				147,410,11							208,820			12,005,007
	Ava Cost of Euel/Init as Delvd forh during vear				200							20,			-
	Average Cost of delicity as Delvi Junio Lating year				100							, 0			
	Average Cost of File Rurned ner Million BTU				5,690							3.140			
	Average Cost of Firel Burned ner KWh Net Gen				0200							0.050			
	Firel Kind (Coal Gas Oil or Niclean)		õ	č		Ĉ	Ĉ	Ĉ	Ĉ	Ĉ	Ĉ	200.0	Ĉ	ĉ	Ĉ
	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)		Rarre	di co		G G	Barrel	Rarrel	Rarrel	Rarrel	Barrel		Barrel	Barrel	Rarrels
	Quantity (units) of Fuel Burned		1 823	9 944		6.082	4 406	7.629	18 117	23.243	26.040		8 336	4 382	90.853
	And Heat Cont - Fire Burned (buildedicate if publish)		140.000	340.000		140,000	140,000	000 001	140,000	000,044	140,000		140,000	4,002	140,000
	Ava Chet of Fliet/unit as Dakkd to b. during year		41,507	45,371		43 303	43 303	42 303	42 202	500,041	44,000		140,000	41.546	10,000
	Avg Cost of Tuestality, as Delva Louis during year		1,037	45.37		40.090	40.080	40.040	40.080	42.163	44.273		1000	47.040	
	Average Cost of First Burned not Million DTJ		41.087	10.01		40.080	45.080	45,383	45,585	42.163	44.273		1000	7 086	
	Average cost of rue builted ber willing a co		# 20.7	0 7 7		7.7.	000	670	000	3	5/0			200	
	Average Cost of File Burned nor KWh Nat Con														

	Line no.	Blundeli Plant	Carbon Plant	Plant	Gatasty Plant	Postore					Plant	Diant		With the state of	Peakers	a document that	Total
The control of the co		Steam - Geo	Steam	Steam	Steam	Gas Turbine	Steam	Steam	Steam	Steam	Steam	Steam	Gas Turbine	Steam	Gas Turbine	Steam	
The contribution of the co	Type of Constr (Conventional, Outdoor, Boiler, etc.		Outdoor Boiler	Semi-Outdoor	Outdoor	Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor	Conventional	
Note Control Contr	Year Originally Constructed		1954	1959	1951	CUCK	1978	1980	1983	1978	1974	1974	1972	1063	2002	1978	
Supplication control for contr	Year Last Unit was Installed	1984	1957	1972	1955	3002	1978	1980	1983	1983	1977	1979	1972	1871	2002	1978	
Control Cont	Total Installed Cao (Max Gen Name Plate Rations.		1886	818.7	2516	1410	4778	4778	185.5	1 440 5	0 900	23412	187	2 202	217.0	O CAF	7 473.8
The control co			477	767	340	423	90	390	461	1 244	900	7 404		730	340	Oac	6.027
Contribution Cont	Plant Hours Connected to Load	8 500	8 663	9 760	282 8	2 651	B 033	6 787	000	097 R	8 510	0 760	6 127	8 760	2 403	8 570	
			200,0	3	20.47	3	200	20.75	opn'n	8	200	3	77.5	3	2,750	2	
With Entition of Transcript Control of State Stat		23	175	787	235	13	UEV	430	460	1 320	808	0.120	14	200	184	352	6.895
	_	l '					,		3								
		13	75	210	27		7.7	F	12	284	. 65	250	ď	163	ç	74	1 336
Control to the cont	1	104 440	4 and and one	000 101 034 3	000 637 307	100 000 000	000 000 000 0	000 000 010	2 440 020 000	1	1	900 900 000 0	1	200 200 200 2	מטט פעט טבט	1	2000 407 040 000
	Ic		000,000,000	0,136,104,000	490,403,000	102,300,000	3,027,001,000	000,000,000	3,416,2/2,000	1	ı	200,000,000	1	0,019,304,000	373,920,000	2,200,002,000	20412.431,000
Comparison Compariso		31,026,429	356,546	10,417,291	177,020,1	,	9,646,568	9,646,568	10,253,198			1,146,361		456,248		975,012	8/6/81//
Particular Par		6,150,130	10,867,218	47,257,355	13,415,332	•	60,088,408	49,284,908	88,364,297			132,803,837	204,044	55,589,785		48.028,460	606,552,401
		33,073,388	66,860,399	329,026,863	54,710,346	70,276,509	211,074,253	146,286,297	373,875,813			672,352,890	4 067 990	268,469,813	,	248,617,252	2,803,548,198
Table Cell Coll C	-																
Control Not vicinate development of the contro		\$ 70,249,947	\$ 78,684,163	386,701,509				205,217,773			421,760,349		4,272,669 \$	324,517,846		5 296,856,238	\$3,417,012,068
Company Notice (Freeded) 100 185.09 185.00 185.		49	\$ 444.54	\$ 507.48	\$ 317.18	,	5 594.31	\$ 434.32	\$ 953.57	665.41	423.45 \$	348.87	267.04 \$	458.88		820.04	457.20
Figure 1 and the first thank t	Opera		139,579	183,357	(160,342)		43.515	43,515	43.515	130,544	13,527	3.993.621	1.401	415.967	,	1,659,328	6,378,045
Countie to Widely (Noted Place Only) 20 pt 72 pt 20 pt			11,200,680	42.488.522	30,585,119	3 461 312	24 156 475	12 434 824	26 072 894	62 664 192	49 079 025	115 998 979	5.033.056	54.128.384	15 181 956	16,445,405	406 266 631
Sumifications (1777) (1772) (1		1	4	1		,		,	,	1		,		,		٠	
Sum frien from the sectors 3 500 to 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		77 807	705 774	229 613			2,629,979	1 710 565	2 909 275	7 249 819	5 411 594	(2 MT 319)	٠	4 807 154	,		16 414 942
State Control Contro		3 800 080		200			0.0000		0.14100014	0.000		(0.01)					3 800 080
Exerc Exercise E		2,000,000		•		•		•									2,000,000
time Statistic Protection of Notice In Statistic Statistics of Notice In Statistic Protection of Notice In Statistics St			1 70 000	, 670.0	•		. 000 407			1 000			. 007	' 000	, 000 010 1		- 000 200
		1	1,352,017	5,578		•	1,78,836	210,121	210,151	380,860		104,440	361,132	6,669	006'907'		900 /00 04
National Color Col		1,483,244	4,058,652	11,872,454	3,972,995		2,682,630	(2,620,553)	2,693,949	2,756,026	7.054,560	3,976,614	1	6,699,143		1,932,783	43,806,471
Numerous of Entirument Depole and Entirument		,	13,057	11,192	4,651	•	39,846	38.877	50,855	129,577	493,704	219,744	345	14,081	559,804	1,938	1,448,094
Multi-micros discustrone Statistical discussione 1,22,23			•	•		•	•	•		1	•	•	•		•	٠	4
Multi-marker of Shiftment (Multi-Mirker) Finite (Shift) Shift (Shift) 150,256 1,944.56 1,540.56 1,944.		•		•		1		•		•	1,017,097	274,333		1,362,522		3,518	2,657,470
Maturament of Bottom Cartinaria (1886) 282,512.6 1,312,516		39,520	142,478	1,654,314	169,481	•	1,642,851	1.844.648	1,619,656	5,107,155	1,496,827	7.468.228		1,323,801		309,894	17,711,698
Mathemene of Beach Plant 78 pg 18 pg 1		68,629	2,592,516	8,319,726	1,320,594	•	3,352,108	7,091,977	4,790,420	15,234,505	10,358,518	19,192,990	1	11,660,823		3,483,601	72,229,902
Particle		78,990	871.343	2.474.524	1.487.804	•	504.409	1 946 806	731.845	3.183.060	4,425,884	6.719.392		4.262.794	,	470,290	23.974.081
Total Designation Figures S.		16.027	408 147	1 017 498	219,331	•	204 698	110 003	143 488	458 189	1 079,620	1 626 374	1704	1.102.615		576.420	6.505 925
Experimenta broad Name		\$ 5,513,359	\$ 21 464 743	ł	\$ 37 599 633	***************************************	\$ 35 385 347	\$ 22 731 674	\$ 39 186 909	8 97 303 927	80 430 356 \$	157 567 396	5.997.638	85.786.173		24.883.177	611 250 895
First State Attack State Attac	1	9	0.0160	1	0.0750	CONTRACTOR DESCRIPTION	1,100	0.0436	00000	0000	9 2000	70.00		0.0174	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OWNER	0.0400	0.0466
Finel SMANN Finel		08 00	16.22	11 85	25.80		941	5.00	11.46	11.99	13.45	16.36	, •	17.00		10.87	15.51
Victorial State North State Stat	Final - S/MAVh		8 4R	7.38	67.73	24.32		2 7 44	7.63	2.2.2	200	12.05	80.00	10.78	40.80	7 18	10.31
Transference Tran	Non-fiel SAMAD		7.76	177	1416	62.50		8 9	786	427	90.5	133	(80.09)			98	23
Figure 10 MM Miles Figure 1	Variable O&M from RDI definition: Station					(70.7)			92.0	777		200	02.0			27.0	20.
Total Chief Without Effect Coal	Fixed O&M (RDI definition) - \$(MWh		623		4 1 33 C	(17.05)		707	204	CF E	7.7	978	250			286	417
Fig. 10 Continue Direct Co	Total O&M without Fire	\$ 1713 279	\$ 10 264 DB3	S 25.765 008	- 4		-	\$ 10 208 850	13 114 035	24 630 735 S	31 361 331	41 558 417	\$ 683 136	31 857 789		8 437 777	204 984 264
Color Colo		6/3/6//	200,400,00	000,100,000	7 (270,072	000000000000000000000000000000000000000	010,411,01	04,009,730	100,100,10	114,000,14	200,002	21,001,00		211110	107 100 107
Control Cont		1		1 Test			1 C	, E	8 .	2 L	2 F	Coal		1 Con		Coal	Con
1,529 Available to think the think that that the think that the think that that the think that the think that that that that that the think that that that that that that that tha			9101	2000			SUCI.	200	Suo:	510)	8000 000 0	8101		500000		4 000 647	200,000
Available for building at planed to building		1	900,030	7,045,057			1,372,923	143,384	5185867	3,712,402	2,030,700	0,435,620		70039,107		1,080,1	20,091,901
Awarge Cost of Full Burned Part (Sale 10 Set) Awarge Cost of Full Burne			12,284	8.238			176,11	06.E	11,490	000	17.5.11	9,716		10,024		0.110	ang s
Awage octs of the Burned per Millors BUT Class (or file Burned per Millors Burned per Millors BUT Class (or file Burned per Millors Burned per			18.087	10.508			000	ngs at	16.350	10,350	1,000	20.674		20.179		9.024	
Awage Use of the Burnel			18.30	10.967			17.471	16.583	16.162	15./31	17.923	ZU.938		20.150		9.510	
Particle			0.746	0.667			0.738	127.0	0.703	0.727	787.0	1.148		1.023		0.093	
Control of the Burnel Control of the Burne			9000	20.0	•	•	ann n	2000	0.008	0.000	900.0	0.032	•	100		(20)	•
Out Information of the following of the bill of the following of the bill of th		,			Ses	Cas							Ses	Sec	Cas		Cas
1,056 Avi Heat Cort - Fuel Burnel (clark World-Lear House) 1,058 Avi Heat Cort - Fuel Burnel (clark World-Lear House) 1,058 1,058 Avi Heat Cort - Fuel Burnel (clark World-Lear House) 1,058		6			S S S	MC							MCF.	S S	S C		MCT.
Avg Total of Fellularia so Dead to be controlled in August Coart Fellularia so Dead to be controlled in August Coart Fellularia so Dead to be controlled in August Coart Fellularia so Dead to be controlled in August Coart Fellularia so Dead to be controlled in August Coart Fellularia so Dead to Benefit Sellularia so Dead to D					8/8/868/6	1,728,306							L98,7/2,F	241,663	3,697,709		12,880,537
Award Code of the Burnel of Market Code of the Burnel of Code of		2			800,1	1,058							50.	PCO1, L	1,034		(S)
Awarga Cost of Yeal Burnol for Milkon BTU Awarga Cost of Yeal Burnol for Burnol for Burnol for Milkon BTU Awarga Cost of Yeal Burnal For Milkon BTU Awarga Cost of Yeal For Milkon BTU Awarga Cost of Yeal For Milkon BTU Awarga Cost of Yeal Burnal For Milkon BTU Awarga Cost of Yeal For Milkon BTU Awarga Cost of Yeal Burnal For Milkon BTU Awarga Cost of Yeal For Milkon BTU Awarga Cost o					, !	. !											
Average Loss of the Burnel and Profit Coult Loss of Full Burnel B					4.584	4 208							3.652	3.831	4.106		
Fuel size Close (Close) Close) Close (Close) Close) Oil					0.520	4.026							3,409	00/10	4.007		
Unit Cloud broad blank Barrel Bar			ê	ć	200.0	0.023	ê	ē	ě	Ĉ	č	ĉ	0.002		3	č	č
Out Total Conditional Indicates Data Planes Da		1	5	5 -			5 -	5	5	5	5	5				5	5 -
Authority of heal branch to the alternative and the action of health of the action of health of		e	Sarrel	Sarreis			Barrels	care	pare	Barrels	pareis	Darreis				Darreis	Sarreis
Any Head Control Fuel Burned in Rusear) 1400 000 1400 1400 1400 1400 1400 1400			2,688	9,577			4.797	2,139	9,019	15,956	22,832	26,972				3,735	81,759
Awarage Cost of Fuel Burnel 53-472 52-284 52-34-66 34-666		ar)	140.000	140,000			140,000	140,000	140,000	140,000	140,000	140,000				157.24	140,513
Awarape Cost of Hubit Burned 35,472 32,894 34,666 34,656 34,656 34,656 54,656 54,656 54,656 54,656 56,40 5,895 5,894 5,547 5,724 Awarape Cost of Hubit Burned per Mills Mills Burned Cost of Factor 5,694 5,547 5,724 Awarape Cost of Fuel Burned per Mills Mills Mills Grin			35.472	32.884			34,656	34.656	34.656	34.656	32.614	33.716				40.716	
Awarape Cost of the Burned Park Miller B10 6 033 5 593 6 6 024 5 640 5 884 5 5 47 5 724 Awarape Cost of the Burned park Miller B10 6 033 5 5 885 5 884 5 5 47 5 724 Awarape Cost of the Burned park Miller B10 6 032 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5			35,472	32.884			34.656	34.656	34,656	34.656	32.614	33.716				40.716	
Average Cost of the burned per KWN Net Gen			6.033	5.593			6.024	5.640	5.885	5.894	5.547	5.734				6.411	
	•		*	,													

Mathematical Math	Kind or De Part (Internat Corth. Gas, Tub. Nuclear Steam Year of Corest (Cornerational Curdoor, Solider etc.) Year of premain Connectional Curdoor, Solider etc.) Year Last Unit was installed Year Conference Water Will Solid United by Conference Water When Not Lande by Conference Water When Not Lande by Conference Water When Intelled by Conference Water Statement of Englement Conference and Improvements of Statemers and Improvements Statemers and Improvements Statemers Conference Statemers Statemers Conference Statemers Statem	Outdoo	Steam Semi-Outdoor	Steam	Gas Turbine Outdoor		Steam Outdoor Boiler 1980	Steam Boiler	Steam Dutdoor Boiler	Steam Outdoor Boiler	Steam Semi-Outdoor	Gas Turbine Outdoor Boiler	Steam Outdoor Boiler	Gas Turbine Outdoor	Steam	
Note Control Principal Control Contr	(VAR 1994 466 (VAR 1994 466 1 1702 466		Semi-Outdoor		Outdoor		Outdoor Boiler 1980	Boiler	Outdoor Boiler	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor	Conventional	
Control of the foreign of the control of the cont	98-4650 31.026 33.056 5157 33.056 5157 33.056 5157 33.056 5157 33.056 5157 33.056 5157 33.056 5157 5158 5158 5158 5158 5158 5158 5158	4		Outdoor	0000		1980	****		Odderon comm			•	-		
Note that the state of the control	(VA) 199,466 (VA) 199,466 1,102 1,102 1,026 1,02	***	1959	1951	2002		200	1983	1978	1974	1974	1972	1983	2002	1978	
	(VM) 198.465 (CM) 23.008 (2.15) (2.15		1972	1955	2002	1978	1980	1983	1983	1977	1979	1972	1971	2002	1978	
The control of the co	(Wh the state) S		816.7	251.6	141.0	443.0	285.0	495.6	1,223.6	936.0	1.142	16.0	707.2	217.0	289.6	6,414.4
	(Wh 1	176	759	215	123	413	268	482	1,256	206	1,392	16	716	213	280	5,985
Note the content between	KVAn 1	8,760	8,760	2,001	4.345	8,275	7,610	8,016	8,760	8,754	8,759	6,224	8,760	4.461	8,405	
	KWh 1						,		•		1	*		•	•	
	Use - KMh 1	175	762	235	114	403	259	460	1,122	992	1,413	14	7007	215	368	5,936
	nt Use KWh 1	•				,	,	,	,	4	,				,	٠
Character, Character	nt Use - KWh 1	25	231	37	,	80			217		257	φ	175	10	99	1,262
	s (our share) \$	1,371,283,000	5,302,493,000	158.301.000	L	3 131 772 000			494,782,000		9,653,111,000	86,653,000	1,799,139,000	580,823,000	197,461,000 4	440,809,000
	scity (our share) \$	956.546	10.417.290	1,259,170	l.	9.646.568	L		29,546,333	1	1,161,925	635	607,076		210,526	77,591,267
Part	\$ \$	11 008 869	47 645 465	13 694 051	3 072 740	60 248 862	49 449 482	88 549 262	198 247 606		133,477,806	204,044	56,654,425		48,156,801	616,477,654
	\$ \$ stalled Capacity (our share) \$	67 022 648	345 587 612	55 138 519	74 728 584	973 229 259	142 987 004	378 220 778	734 437 041	333 608 477	693, 807, 839	4.681.772	290,152,981	,	249,469,349	2,881,720,239
State Stat	\$ stalled Capacity (our share) \$		501 120			AA1 12A	441 134	441 134	1 323 AM2	813.006	R 012 755		3 987 418			14 713 709
Control Cont	ar KW of Installed Capacity (our share) \$		901,100	. 072 700 02		* COLUMN	4 000 11	41 404 574 6	3 000 733 000	9 CON 900 YOY	300 000 000	A DOCAET C	361 306 000 6	3	707 R36 676 €	53 500 500 BBG
Comment of the foreign (see Figure 1) Comment of the figure 2) Commen	y-9	,	* 2007	2 (1)	100,000	* 0.500,000	* COL. 100			2017000		0, 200	6 00 007		L	25 75
		n	\$ 494.96 S	2/8:54	307.78	640.10	\$ 1900	963.41	187.47	430.73	242.11	300.40	490.004	9	507000	24 440 622
Part	ation Supervision and Engineering		78,931	78.202		26.245	88,245	C67799	204.730	20,242	20,740,00	4, 163	109,110		4,200,100	20,040,032
Sum fragement (2) Continue Army (2) Continue Arm			33,562,596	5,075,852	380'8/8'11	26,050,013	17,237,543	31,180,236	769,506,67	/88'908' /G	13,739,900	040.761.4	1/5,542,20	13,040,700	10,344,023	#12,010,co#
1,001,543 1,502,116 1,602,12 1,602,1	Coolants and Water (Nuclear Plants Only)															
Sum Transferred Chick Suntees Light State			382,531	•	F	3,682,806	3,174,156	4.090,704	10,947,667	8,274,532	(118,833)		6,601,457			27,178,886
Seminaration of Control Cont							•		,	1		,				(19,641)
Excitacione	4				•				,		•		,		•	4,095,133
All		1,536,116	88,927		2,698	87,324	87,324	87,324	261,973		•	530,741	1,065	2.389,897		4,811,416
Amount of Exposers	Misc Steam (or Nuclear) Power Expenses	4 170 854	11 680 712	4 760 622	,	2 421 397	(1 684.510)	2 324 742	3.061.629	8,360,681	(8,171,422)	363	5,110,850	1.084	(510,112)	28,465,261
Authority Supervision and Engineering 183			88 207			41.540	40.827	45 394	127.761	3.167.478	206.638		116	17,001,295	3,102	22,131,889
Withdreamen of Supposition Mathematical Supposition Mathematical Supposition Mathematical Supposition (National Part 1 14,910) 150,7159 150,715								,	,	•					1	35
Maniferration of Shockward Section of Shockward Section of Shockward Shoc			537 005							1 332 658	581 437		2 094 629	,	1.157	4.547.876
Maintenance of Shockhares Color Co	Maintenance Subervision and Engineering	, 650	086,500		, ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		FOR JOS C	, 000 000	1,302,800	25,100 a		1 086 905		AR2 603	17 143 374
Maintenance of Biblicher of Robert of Rober			1,940,427	185,659	8c0.7c	2.130,001	2,289,859	187'087'7	6,656,657	1,124,036	107,020,0	,	500 DOD 11	,	402,000	74 000 455
Maintenance of Behalter Plant 1443 10 202.297 575 40.04 1967 145 106.0597			12,831,603	1,395,605		3,654,579	3,611,021	5,278,400	12,544,000	5,285,008	21,270,104		11,635,037		4,556,208	001,888,130
Total Columnic and Plant 246,500			6,754,045	1,697,852	229,371	625,491	872,152	1,058,634	2,556,277	2,782,997	9,905,987		2,572,240	24,198	923,830	28,052,004
8 CORDAN 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 100 8 <			1,046,140	212,233	106,609	245,626	258,176	249,585	753,387	1,376,380	1,437,390	41.572	941,337	787	580,649	7,247,939
\$ 0.0028 \$ 0.0134 \$ 0.0144 \$<	\$	\$ 21,471,876	\$ 69,632,114 \$	14,406,035 \$	12,375,322 \$	41,058,022 \$	25,984,793 \$	46,645,121 \$	113,687,938 \$	89,697,011 \$	159,519,288	5,374,746 \$	82,426,085 \$	38,961,009 \$	26,944,456	640,572,561
8 30.06 5 10.07 5 13.1 5 13.1 5 11.4 5 13.4 5 13.4 5 13.4 5 13.4 5 13.4 5 13.4 5 13.4 5 13.4 5 13.4 5 14.4 5 44.5 6.4 5 44.5 6.0 5 14.4 5 44.5 6.0 5 17.8 5 17.8 5 17.8 5 17.8 5 17.8 5 17.8 5 17.8 5 17.8 5 17.8 6 17.8 6 17.8 7 17.8<	\$	s	\$ 0.0131 \$	0.0910	\$	0.0131 \$	0.0138 \$	0.0134 \$	0.0134 \$	0.0124 \$	0.0165	P)	0.0172 \$	0.0671 \$	0.0123 \$	0.0158
\$ 0.05 \$ 0.07 \$	· va	. 49	13.13 \$	91.00	. 69	13.11 \$	13.77 \$	13.42 \$	13.38 \$	12.44 \$	16.53	S	17.18 \$	\$ 80.79	12.26 \$	15.84
4 5 6 6 6 5 2 2 4 4 6 4 5 6 4 5 6 6 5 2 2 4 5 6 6 5 2 2 6 6 5 1 6 6 6 7 6 6 7 6 6 7 6 6 7 7 8 0 6 8 0 9 8 0 9 8 0 9 8 0 9 8 0 9 9 0 9 0 9 9 0 9 9 0 9 9 0 9 9 0 9 9 0 9 9 0 9 0 9 0 9 9 0 9 0 9 9 0 9 0 9 9 0 9 0 9 9	69	· v	5 633 5	38.38	31 11 \$	8.97	9.13	8.97 \$	9.01	8.03	11.78	55.37 \$	10.89 \$	33.65	7.71 \$	8,99
\$ 0.021 \$ 0.021 \$ 0.022 <t< td=""><td></td><td></td><td>8 089</td><td>20.63</td><td>(31.11)</td><td>4 14 \$</td><td>464 \$</td><td>4 45 \$</td><td>4.38 \$</td><td>4 40 \$</td><td>474 9</td><td>(55.37) \$</td><td>6.29</td><td>33.43 \$</td><td>4.55</td><td>5.85</td></t<>			8 089	20.63	(31.11)	4 14 \$	464 \$	4 45 \$	4.38 \$	4 40 \$	474 9	(55.37) \$	6.29	33.43 \$	4.55	5.85
\$ \$	*************************************		1000	10.62	8 24 - 1	2 88 0	\$ 650	0.89	0.87	\$ 67.0	260	. 23	92.	0.83	0.91	1.06
\$1.973.4801 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0970.0003 \$1.0003.0003 </td <td></td> <td></td> <td></td> <td>42 10 S</td> <td>0.87</td> <td>332 8</td> <td>371 \$</td> <td>3.56</td> <td>350 8</td> <td>3.61</td> <td>3.80</td> <td>533</td> <td>5.03</td> <td>32.60 \$</td> <td>3.64</td> <td>4.79</td>				42 10 S	0.87	332 8	371 \$	3.56	350 8	3.61	3.80	533	5.03	32.60 \$	3.64	4.79
Coal Coal <th< td=""><td>)</td><td>,</td><td>26.080</td><td></td><td></td><td>12 977 009 \$</td><td>8 747 250 S</td><td>15 459 825 \$</td><td>37 184 086 \$</td><td>31 740 014 \$</td><td>45 779 383</td><td>576.801 \$</td><td>30.182.714 \$</td><td>19.417.241 \$</td><td>8 888,633 \$</td><td>236,694,287</td></th<>)	,	26.080			12 977 009 \$	8 747 250 S	15 459 825 \$	37 184 086 \$	31 740 014 \$	45 779 383	576.801 \$	30.182.714 \$	19.417.241 \$	8 888,633 \$	236,694,287
Total Tota	6.75.	,	30,00	21,000		* 000110131	200	* O. O. O.				Caol	1000	least C	Cool	leo
1,000 657,352 3,515,014 1,015			Coa	Coal	Coal	Coa	, coa	Coal	8 j	Coa	Coal	Toor	Tons.	Tons	Took	Tone
1,522 8,390 1,1470 1,144 544 1974 1,1474 1,147 1,144			25	5	25	900100	6 50 010	100.007	00000	2007.034.0	and other	2	2 574 500	2	1 657 446	20 ans 323
1,525 8,57 1,525 8,57 1,475	Quantity (units) of Fuel Burned	657,352	3,515,011			1,434,834	/99/699	1,588,324	3,882,816	3,150,798	5,473,296		5,071,000	,	094.00.	20,500,02
1572 1572 1572 1574 1574 1574 1574 1574 1574 1575 1575 1575 1575 1575 1575 1575 1575 1575 1575 1575 1575 1575 1775	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)	11,828	8,380		r	11,458	11,410	11,453	1,445	790,11	9,326		906.8		0,038	9,340
15.22 5.52 5.53 1.54 1.55 1.55 1.54 1.55	Avg Cost of Fuel/unit, as Delvd f o b during year	15.723	8.877	r		19,754	19.754	19.754	19.754	18.727	20,950		20.003		000.00	
O 6673 O 553 O 854 O 874 O 824 O 8	Average Cost of Fuel per Unit Burned	15.923	9.431			19.466	19.942	19,434	19.558	18.220	20.594	,	20.001	ı.	10.083	
Control Cont	Average Cost of Fuel Burned per Million BTU	0.673	0.563	•		0.850	0.874	0.848	0.855	0.788	1.104		1.026		0.526	
Gas Gas <td>Average Cost of Fuel Burned per KWh Net Gen</td> <td>0.008</td> <td>900'0</td> <td></td> <td></td> <td>0.009</td> <td>0.009</td> <td>0.009</td> <td>0.009</td> <td>0.008</td> <td>0.012</td> <td></td> <td>0,011</td> <td></td> <td>0.008</td> <td></td>	Average Cost of Fuel Burned per KWh Net Gen	0.008	900'0			0.009	0.009	0.009	0.009	0.008	0.012		0,011		0.008	
MCF MCF <td></td> <td></td> <td>Gas</td> <td>Cats</td> <td>Gas</td> <td>Gas</td> <td>Gas</td>			Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Cats	Gas	Gas	Gas
1,098 1,067 1,09			MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MOF	MCF
1,002 1,007 1,009 1,007 1,009 1,007 1,009 1,007 1,009 1,007 1,009 1,007 1,009 1,007 1,009 1,000 1,00			,	2 003 008	3 865 262		٠	,	,		*	1,352,371	239,310	5,563,531		13,023,482
Oil	Avn Heat Cont. Fine Rinned thtufindicate if puolean	•	1	1 068	1 067			٠	•		1	1,062	1,058	1,034		1,052
2,844 2,909 Coli	Aver Cost of Evelving as Dalvid Cost deriver weer						,	,	,	,		- 1		,	,	
Oil	Average Cost of Fire Cert Unit Burned		,	3.033	3 099		,	,	,			3.548	3,380	3,548	٠	
Oil Oil <td>Average Cost of Enel Burned ner Million RTI F</td> <td></td> <td>,</td> <td>2.844</td> <td>2 908</td> <td>,</td> <td>,</td> <td></td> <td></td> <td></td> <td>,</td> <td>3,341</td> <td>3.291</td> <td>3.341</td> <td>,</td> <td></td>	Average Cost of Enel Burned ner Million RTI F		,	2.844	2 908	,	,				,	3,341	3.291	3.341	,	
Oli Coli Oli Oli Oli Oli Oli Oli Oli Oli Oli O	Average Cost of Fise Burned her KWh Net Gen						,	,	,	,			,		,	
Barrel Barrel Barrels			Ĉ	ē	Ĉ	Ĉ	č	Ö	ō	ö	ō	ō	ō	PO	ō	Ö
1,337 11,083 2,000 14,0	ď	à	Borrole	Borrole	Barrale	Barrale	Rarrale	Barrala	Barrole	Rarrele	Barrels	Rarrels	Barrels	Barrels	Barrels	Barrels
ear) 1-40,000 1-40,00			11 003	9	Californ	2 274	2000	080 3	10 303	13 544	24 585			,	5 754	68 608
887 1 140,000	Quantity (units) of Fuel Burned	1,33/	11,003		,	3,274	40,00	0,903	140,000	140.000	140.000				140,000	140 000
. 40,062 37,224 . 45,557 46,557 46,557 40,645	Avg Heat Cont - Fuel Burned (btulindicate if nuclear)	140,000	140,000			140,000	140,000	140,000	90,000	140,000	140,000				40.412	200'01
. 6860 537, 2.4 - 5.55 4	Avg Cost of Fuel/unit, as Delvd to b. during year	40.862	97.75	,	ŀ	40.30¢	45.35/	40.007	40,007	30.040	44.04.				40.412	
6.950 6.331 - 7.799 7.767 7.719 7.748 6.912	Average Cost of Fuel per Unit Burned	40,862	37.224			45.557	700.04	100.04	45.55/	4U.040	1 060				6.873	
	Average Cost of Fuel Burned per Million BTU	6.950	6.331			7. (38)	1.101	2.7	1.140	218.0	1.004	,			3	
Average Cost of Fuel Burned per KWh Net Gen	Average Cost of Fuel Burned per KWh Net Gen		,	٠	,	-		,				40.000.00		00.000	07 027 07	03 050 05

				Han		200									Teaners		5
	Kind of Plant (Internal Comb. Gas Turb, Nuclear	Steam - Geo	Steam	Steam	Steam	Gas Turbine	Steam	Steam	Steam	Steam	Steam	Steam	Gas Turbine	Steam	Gas Turbine	Steam	
	Type of Constr (Conventional, Outdoor, Boiler, etc)	indoor	Outdoor Boiler	Semi-Outdoor	Outdoor	Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Semi-Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor	Conventional	
	Year Originally Constructed	1984	1954	1959	1951	2002	1978	1980	1983	1978	1974	1974	1972	1963	2002	1978	
	Year Last Unit was Installed	1984	1957	1972	1955	2002	1978	1980	1983	1983	1977	1979	1972	1971	2002	1978	
	Total Installed Cap (Max Gen Name Plate Ratings-MW)	26.1	188.6	816.8	251.6	141.0	443.0	285.0	495.6	1,223.6	0.966	1,5411	16.0	707.2	217.0	289.6	6,414.7
	Net Peak Demand on Plant - MW (60 minutes)	52	174	779	216	126	407	268	468	1,256	206	1,391	16	705	206	278	5,966
	Plant Hours Connected to Load	8,538	8.772	8,784	961	3,382	7,750	8,299	8,469	8,784	8,629	8,784	6,621	8,784	3,529	8,140	
00	Net Continuous Plant Capability (Megawatts)	•		•		,		•	•			1	٠	,			
	When Not Limited by Condenser Water	23	172	762	235	120	403	528	460	1,122	895	1,413	14	200	215	268	5,939
01	When Limited by Condenser Water	,	1		,		•	•	٠	٠						,	*
-	Average Number of Emisloyees	12	7.1	188	38	٠	73	7.3	74	220	164	348	9	143	10	74	1.275
	Not Constantion Evaluation of Disset Hear 1988.	104 878 000	1 125,002,000	E BOA GAS DOD	GG SBE COO	250 040 000	2 062 643 000	2000 140 040 0	3 575 200 000	000 A70 TEX 9	6 388 634 OOO	0 000 171 000	1	5 245 821 DOD	205 480 000	2 153 135 000	40 013 426 DOD
	THE COLUMNICAL EXCHANGE OF FIRST COS - NAME	2000000	2000000	200,000,000	200000	20,040,000	2,002,000,000	201.000	40.000,000	200,000	200,000,000,000	4 404 005	ı	200 500	200,200,000		20 404 005
70	Cost of Plant Land and Land Rights	37,282,815	556,546	062,714,01	0/1,862,1		9,626,532	9,526,532	70,233,162	23,496,220	7.405,337	1,161,925		1,243,556			10,424,030
4	Structures and improvements	6,218,337	11,578,139	48.237.859	13,811,541	4,111,864	60,603,393	49,803,203	88,931,493	199,336,088	99,455,311	133,679,404	209,660	57,155,058	48,460	48,377,029	622.220,751
۵	Equipment Costs	33,692,467	13,322,118	352,305,858	55,921,836	75,114,903	221,344,932	142,213,710	3/5,949,702	/39,508,344	339,245,256	711,525,469	4,588,1U/	289,560,534	81,813		#70'K/1'076
"	Asset Retirement Costs	557,911		6,172,882		•	1,571,858	1,571,858	1,571,858	4,715,575	652,406	9,787,188	-	3,578,619	,	.	25,464,580
~	Total Cost	\$ 71,751,524	85,857,463	417,133,889 \$	70,992,547	79,226,767	\$ 283,146,715 \$	5 203,215,303	\$ 476,686,215	973,048,233	441,758,310 \$	856,153,986	4,898,402 \$	351,638,777 \$	130,273 \$	298,698,720	\$3,651,288,891
	Cost per KW of Installed Capacity (our share)	\$ 274910 \$	455 14	51071 5	282 12 5	56189	\$ 661 73 \$	5 713.04	\$ 961.84	795 23	443.53 \$	555.55	306.15 \$	497.23 \$	0.60	1,031,42	569.21
	Operation Supervision and Engineering	630	133 906	305 193	27.872		126 116	126 116	126.116	378 348	29 644	12 667 637	,	237 513	,	3 001 485	16.782.228
	9	. "	11 442 174	36 943 321	1 676 796	2 660 791	26.482.093	18 564 845	32 098 512	77 145 452	63 752 592	120 577 466	6 439 344	60 497 565	10.916.009	13.659.494	405.711.002
	Coolante and Motor (Nivolant Diseste Only)						-								•	,	•
- 6	Change Commences	199 9	200 303	240.484			3 473 730	2 112 767	2 703 004	10.369.307	027 720 8	638 350		7 440 228			27 717 76
۷ (Stedili Capelises	100.0	202,202	210,10#			0,410,630	202,211	3,702,003	200,000,00	0.17,000,0	000,000		770			0010317
,	Steam From Other Sources	4, 130, 182					1	•	•	•							100
	Steam Transferred (Cr)					•	* :										
	Electric Expenses		387.785	37.729		304,162	147,382	147,382	147,392	447.176			797,797	0/8/71	1,697,524		4,344,300
	Misc Steam (or Nuclear) Power Expenses	1,525,679	5,311,683	12,430,434	4,160,091	•	1,566,991	(2,194,293)	1,998,056	1,370,754	6,527,143	(9.323,909)		4,389,599		719,752	27,111,226
7	Rents	145	40,453	(4.857)	5,928	943	24,340	13,683	17,561	55,584	890,671	452,888	184	584,478	17,064,416	7.096	19,097,929
80	Allowances					,			,	•	•	•	1	•		,	
510 29	Maintenance Supervision and Engineering			(570)	•		•	•			781,611	1,323,097	1	2,333,073		5,902	4,443,113
c	Maintenance of Structures	24 962	492.808	2 012 280	107.246	100.049	1,753,206	1,809,906	1,718,934	5.282.046	1,231,569	6.104.073		908,142	677	420,801	16,737,633
	Maintenance of Boiler (or reactor) Plant	275 223	4 292 805	10 337 182	903 378		4 RISC DR1	3 177 022	5.410 664	13 253 756	7 970 197	768 178 20	,	6.910.552	1	4 658 589	72 973 020
- 1	Maintenance of Pleating Diese	04 1130	2 6.49 70.4	272 921 2	1621 066	CCX 7.00	1 0.34 662	909 009	045 171	2 505 350	2 530 773	D 0.45 6.48		027.077	47.415	1 200 171	26 315 211
	Maintenance of Mico Steam (or Nicolans) Diant	20.00	900 909	1 202 100	056 330	161 677	122.462	102 754	130,021	364 234	1,005,136	1 747 677	348	766 138	607.6	607.475	6 698 283
٠.	Total Description Expenses	C G 157 034 4	26 369 203	AB 642 152 4	2 2757 R1R	2 855 045	C 30 282 463	C 25, 480 313	ALC 384 315	t 111 267 002	907 282 008	167 477 1R2	7 177 638 \$	85.017.240 \$	20 935 850 \$	24 370 765 \$	632 089 883
	LOGICA CONTRACTOR		200.450	20,000				ı		700,102,		1				0,100	0.000
^	Expenses per Net KVVn	0.0316	0.0232	9100	0.1313		0.0138			0.0132	0.0140	1000	•	2010.0	10/0.0	0,000	00000
	Total Busbar - \$/MWh	26.5	23.23	11.78	131.52	90.00	13.81		12.97	91.51	04.50			6 63 11	20.00	22.11	10.00
	Tuel - Sylvavan		00.00	40.0	97.19	07.0	07.6			4 .	08.6			9 6	20.77	5 6	1 60
	Non-tuel - S/MWh		13.15	4	106.34	(10.28)	4 52		0.000	404	4.62		200	707	33	, e	000
	Variable O&M (per RD) definition) - \$MWh 5		2,62	109	27.29	0.77	\$ 080	. 0.00	080	0.81	9 050	9	2	e of the contract of the contr	20 C	2 c	3 5
	Fixed O&M (RD) definition) - \$/MWh		10.53	4.35	80.09	3.07	3.62		1	3.24	3.73	ľ		9/2	4/ 10	800	4 02
	Total O&M without Fuel	\$ 1,999,742	14,926,119	31,698,831	7,080,820		\$ 12,901,370	\$ 6,924,468	14.28	34,111,640	29,530,504	4		24,519,675	19,019,841	10,717,01	220,376,660
	Fuel: Kind (Coal: Gas, Oil, or Nuclear)	Coal	Coal	Coal	Cos	Cost	Coal	Coal	Coal	Coal	Coal			Coal	Coal	1 Cos	Coal
2	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Tons	Tons	Tons	Fons	Tons	Tons	Tons	Tons	Tons	Tors	Tons	Tons	Tons	Tons	Tons	Tons
en.	Quantity (units) of Fuel Burned		559,628	3,827,412		•	1,345,806	952,672	1,651,452	3,949,930	2,888,019	5,522,362		2,809.373		1,615,197	21,171,921
o	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		11,841	8,316	1	,	11,404	11,289	11,282	11,322	11,179	9,352	•	9,898	•	8,019	9,819
0	Avg Cost of Fuelfunit, as Delvd f.o.b. during year	,	19.951	9.426			19.294	19.294	19.294	19.294	21.889	21.778		21.498		8.283	
	Average Cost of Fluel per Unit Runned		20 114	9 556			19 460	19.372	19.151	19.310	21.745	21,519		21.425	1	8.249	
	Average Cost of Fuel Burned per Million BTU	,	0.849	0.575	,		0.853	0.858	0.849	0.853	0.973	1 151	,	1.088	٠	0.514	
	Average Cost of Final Burned per KWh Net Gen	,	0.010	9000			600.0	0.009	0.00	600 0	0.010	0.012		0.011		0.006	
· «C	Fuel Kind (Coal Gas Oil or Nuclear)	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
7	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF
. 9	Quantity (units) of Fisei Rumed			1	935 228	2 660 164	٠	,					1.457.433	137,410	3,762,657	•	8,952,892
· c	Ava Heat Cont - Five Bigmed (htts/indicate if niciear)					1 061	٠	٠	٠	,			1,063	1,080	1,049	,	1,055
	Ava Cost of Fuelfunit as Daivel fold during year							٠		,			- 1				
	Average Cost of Final ner Unit Burned	,		,	1 793	1 000	ś	٠	,	,			4.418	2.241	2.901	1	
	Average Cost of Fuel Burned per Million BTU		,	,	1,708	0.943	r	,	,				4.155	2.114	2.766	,	
m	Average Cost of Fuel Burned per KWh Net Gen	,			0.025	0,010	,		,	,			0.070	,	0.028	,	
36	Fuel Kind (Coal Gas, Oil or Nuclear)	ō	Ö	ō	δ	8	Ö	ð	Ö	ō	ð	5	Ö	ő	õ	ō	ō
7	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Barrel	Barrel	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
oc.	Quantity (units) of Fuel Burned		3.564	7 543			5.954	2.175	10.010	18.139	18.285	34,064		•	,	7,001	88,596
m	Ava Heat Cont - Fuel Burned (btu/indicate if nuclear)		140,000	140,000	,		140,000	140,000	140,000	140,000	140,000	140.000	•	,	٠	140,000	140,000
0	Ava Cost of Fuelfunit, as Delvd f.o.b. during year	•	52 190	48.647		,	48,175	48.175	48,175	48,175	52.126	51.108		•		48.046	
	Average Cost of Fire per Unit Burned	,	52 190	48 647	٠	,	48 175	48.175	48 175	48.175	52.126	51.108			,	48.046	
	Average Cost of Fuel Burned per Million BTU	,	8.876	8 273			8.373	8.546	8,009	8 193	8.865	8.692		٠	,	8.171	
	Average Cost of Five Burned her KWh Net Gen	,		4													
	the second secon						1		,				,			>	

	Steam	Channe	One Trucking	Charme	Closes	Cont. Trushing	3	1	į	1				ě	reakers	ě	100
Type of Constr (Consentional Outdoor Boiler atc)	Dec - Dear	Outdoor Boiler	Gas Lurbine	Semi-Orddoor	Steam	Gas Lumine	Orthon Bollor	Oradox Boiles	Sleam Outdoor Boiler	Steam Outdoor Boiler	Steam Outdoor Duller		Gas lurbine	Steam	Gas lurbine	Steam	
Year Originally Constructed	1984	1954	2005	1959	1561	SOUR	1078	Joan Joan	1082	1078	ACCA	Seria-Guadoo	Country 1072	James Boses	John	CONTRIBUTION 4070	
Year Last Unit was Installed	1984	1957		1977	36	2002	1978	1980	1983	1983	1077		1972	1903	2002	1978	
Total Installed Cap (Max Gen Name Plate Batinos-MVV)		188 6	P COC	816.8	3.72¢	1410	443.0	285.0	AD5-6	* 773 5	2 20		9 9	. 202	2027	780.7	6 740 4
Net Peak Demand on Plant - MW (60 minutes)		179	200	27.2	230	2 2	2.00	2002	465.0	1 133	2000		5 4	7.70	7.7	203.1	1,017,0
Plant House Connected to Load	23.78	8 7.48	1 048	027.0	210	7 5	2 4 5	207	1007	261.7	200	50%,1	1 2	5	707	9/7	707'0
Not Continuous Dispt Capabilly (Macaustra)		200	200	3	2	7107	₽	2	CCE. /	0.7.0	/97'0		50.7	g./90	0,540	9,102	
Miles Not Limited by Condenses Meter	. 6	, ,	+07					, ,	, ,		' '		• ;	'		٠.	
A WINE THE THE PARTY OF THE PAR	3	711		70/	87	171	403	ec.	490	1.123	250	1,413	4	8	202	2007	5.927
Wilding by Condenser Water	* !	٠,									,	,			,		•
Average Number of Employees	13	0/	24	193	88		75	72				346		145	0		1,309
Net Generation, Exclusive of Plant Use - KWh	184,820,000	1,349,858,000	124,119,000	5,684,004,000	32,595,000	166,168,000	2,891,251,000	1,970,448,000			6,381,332,000	9,837,629,000		238,417,000	343,889,000	2,143,956,000	3,826,110,000
13 Cost of Plant: Land and Land Rights	31,282,815	956,546	3,362,684	10,451,083	1,259,170		9.632,717	9,632,717	10,239,347	29,504,781		1,161,925		1,243,566	,	210,526	81,820,513
14 Structures and improvements	6.206.229	11,774,653	27.748,874	48,654,284	13,837,867	4,111,865	61,232,885	50,220,853		200,743,893	99,598,120	131,861,354	208,871	59,637,601	400.164		653,261,613
Equipment Costs	33,542,967	77.794.118	124 698 527	365,322,401	56 204 446	73 721 008	229 589 360	144 590 680	378 114 194	752 294 215		738 241 440	4 687 536	203 937 705	117.7458	250 322 392	3 131 068 302
Asset Retirement Costs	557 911		262 682	£ 172 887			2000 846	200000	304 000	6 124 637		0.740.036		4 406 200	200		700 500 00
Total Cost	5 71 589 900	C 00 525 317	C 155 NT2 757	AND AND GED	71 301 483 €	2 578 558 77	302 400 RDB C	206 ABO 076 C	470,500,547	\$ 3CV 772 880	ľ	9 220 000 000	# CVV 200 K	9 800 300 036	1	200 040 756	3 000 047 746
Contract Collected Collected Courses	,	00000	000000000000000000000000000000000000000	207,000,000	01.010	0.00000		o or sor	412,000,042	9 10 000	9 000 000	9 000,000	- 7-07 / CO	200 443,404	211,022	00/010/007	01/10/00/00
Coat has the of the ablance Capacity (our service)	9	66:675	0/200	01.120	# 8/0/7	20701	49.700	\$ 76.57	89706	\$ /n'one	400.43	\$ 90.170	300.07	207.30	8.7	1,032.14	200.33
Operation Supervision and Engineering	3,344	109.279	586,268	625,305	62,823		24.447	24.447	24.447	73,341	26,434	16,254,215		196,891	,	1,084,609	19.022.509
		12,068,189	4,346,449	38,577,929	875,554	2,724,847	30,077,230	20,877,150	34,266,820	85.221.200	65,320,583	119,814,412	(3,753,218)	60,584,487	8,536,686	16,221,252	410,538,370
		•			•	•	٠										•
	6,169	1,408,446			9,215		3,450,122	3,356,185	3,579,703	10.386.010	8,203,547	280,141	•	7,045,921	1	•	27,339,449
	4,211,469			•	,	,	,									•	4.211.469
Steam Transferred (Cn)		•	,	,		,										•	
	,	1 871 305	377.073			4 EXC 4777	155 074	166 074	155 074	200 000				96 000	0 467 200		6 000 930
	. 25.05.01	200.120.1	3/07/0		, 000 000 0	1,040,477	476,000	100,874	130,874	401,922	10000		000	776.95	7,437,390		6,888.679
	Distance.	777.0707		12,470,672	2,322,003		19,3,641	(7,363,72)	1,566,129	(41.751)	3,178,935	(19,133,452)	710,662	5,128,462		3,143,743	11.843.016
	₩	13,981	4.876	163,410	(3.049)		79.365	72.703	80,318	232,386	123,100	336,870		(38,817)	16,986,014	40,844	17,860,455
											,	•	961		>		961
	•		,		,	٠				,	1,284,420	1,289,676		1,368,892			3,942,988
	124,081	253,701	4.833	2,069,773	197.205	176,063	1,374,385	1,254,382	1,241,582	3,870,349	1,517,616	6,271,663		766,762	10,376	344,015	15,606,437
	225,965	2,461,483		10,677,930	398.385		8,893,182	4,624,149	5,530,965	19.048,296	10,968,477	25,844,500	,	7,633,639		3,904,036	81,162,911
Maintenance of Electric Plant	105.308	415,668	306,360	7,040,108	639,435	599.763	3.134.671	766,636	1.499.013	5.400.320	4.205.130	9 300 772		1 240 636	518 726	1,217,400	30 989 626
Maintenance of Misc Steam (or Nuclear) Plant	38.081	284.482	6316	1 114 040	407 436	147 657	148 964	170 ROB	143 331	463 103	1 776 487	1 789 784	66 653	284 518	28.766	430.067	6 837 390
34 Total Production Expenses	\$ 6255577	\$ 21.359.848	S SACRARA	736 967 67	4 900 007	5 203 807 6	AR 012 181 C	28 G18 713 C	48 100 282 C	125 121 178 C	OK ROA 770	182 048 GR1 C	CADATOC	84 248 513 E	28 537 058 €	28 384 068	R36 355 ARD
Įį.	00000	0.0450	20000	0000	003.0	100000			400000	2000	-		* (ato(1)	* CO.		2000000	200000
Total Busher \$6000h	33 55	00000	60.00	071070	00.100	0.0319	0.0100	0.0147	0.0142	70100	1610.0	00100	(0.0314)	0.0161	0.0830	0.0723	0.0150
Fire - CASAA	,	9000	10016	200.21	9 90 90	9 9	10.01	9 69 69	6.00	9 6	4 1.0.0	4.0.4	9 (00.00)	9000	6 68.70	16.21	0.00
	, ,	0.94	20.02	200	90.07	10.40	200	000	200	# T	10.24	\$2.18	(CD/SC)	/G.E.	74.87	70.	10.31
Section 1 Section 1 Section 1 Section 1 Section 1		9	THE LEGISLAND CONTROL OF THE PARTY OF THE PA		25.74	9 :	200	408	4.12.3	404	38.	\$ 52.5	\$ 77.9	4.52	20.16	4/4	200
Addition (Color (Color of Color of Colo			27.30	3	24.67	309		0.81	0.82	0.00	2 860	\$ 230	2	\$ 060	2.2	35 0	2
FIXED COM (FLC) DESIRINGS) - STAVAN	000	0.0	200	4.81	96.98	123/ \$	48/	3.27 \$	3.30 \$	3,88	3 83 \$	3.44 5	6.57 \$	3.61 \$	56.41 \$	3.80	463
lotal O&M without Fuel	\$ 2,044,103	\$ 9,291,659	5 1,479,429	34,161,438	4,033,453	2,568,960 \$	17,934,951	8,041,563 \$	13,923,462 \$	39,899,976 \$	31.284.146 \$	42,234,169 \$	778,276 \$	23,664,026 \$	20,001,272	10,164,714	225,817,090
	-	Coal	Coal	Coal	Coal	Coal	Coal	Coal	Cost	Coal	Coal	Coal	Coal	Coal	Coal	Coal	Coal
Unit (Coal-tons/Oil-barrel/Gas-Incl/Nuclear-indicate)	SUO	Ions	Tons	Suo	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Lons	Tons
	•	673,090	•	3,829,022			1,370,873	959.423	1.547.801	3,878,097	2.912.758	5,540,933		2.720.534		1,555,380	21,109,814
		11,514	•	8,193			11,181	11,192	11,111	11,156	11,048	9,370		10,018		7,981	9.766
		17,159		9:638						21,226	20.634	21.001		22.484		10.152	
	,	17.552		9.937			21.597	21.603	21 576	21,590	22.036	21.370		22.307		10.203	
		0.762		0.607			0.966	0.965	0.971	0.968	0.997	1.140		1,111		0.639	
43 Average Cost of Fuel Burned per KWh Net Gen	r	0000		0.007			0.010	0.010	0.010	0.010	0.010	0.012		0.012		0.007	
		Cas	Gas	Gas	Gas	Gas	Gas	Gas	Cas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
	MCF	MCF	MCF	MCF	MCF	MOF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF
	*	•	1,312,477		358,806	1,823,779							1,516,478	29,262	3,518,586		8,627,688
			1,043		1,053	1,053							1,060	1,052	1.045		1,049
														,			
	٠	•	3.516		2.440	1.494							(2.475)	(1.058)	2.426		
			3.371		2.318	1.419							(2.335)	(1,006)	2.321		
	,	,	0.037	*	0.027	0.016	i	i	i	i	i	i	(0.040)		0.025	i	
		5	5	5	õ	5	5	ਤੋਂ	ō	5 -	5	5	Š,	ō	ō	5	5
	Barrel	Barrel	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Sarrels	Barrels	Barrels	Barrels
	•	3,415		8,193			6.268	1.850	10.747	18,885	14,205	23,611				6,318	/4.628
		140,000		140,000			140,000	140,000	140,000	140,000	140,000	140,000				140,000	140,000
		14:40		750.50			ŀ			10.87	18.89d	29.57				95.647	
Average Cost of Tuel Del Offic burned	•	220 03						, ,		, ,						, 0	
Average Cost of First Burned per (OM): Net Can		200.7		0.945			87.73	12.000	13/80	024:01	9000	10.13				104.0	
				•													

Column C	Line no.			Carbon right Currain Creek	currant creek		Gedusoy Flam Gar	Gadsby reakers		8	e e	Turkei Talik		Plant	Little modification readilities right	anginor right		as a constant	Total
	Kind of Plant (Internal Comb. Gas Tur	rb. Nuclear	Steam - Geo	Steam	Gas Turbine	Steam	Steam		_		_	~	Steam	Steam	Gas Turbine	Steam	Gas Turbine	Steam	
	type of Constit (Conventional Cuidoo	or Boiler, etc.)	Indoor	Outdoor Boiler	Outdoor	Semi-Outdoor	Cutdoor						Jurdoor Boller	Semi-Cutdoor	Outdoor Boller	Cutdoor Boller	Cutagor	CONVENTIONAL	
	Year Onginally Constructed		1994	20 S	2002	8081	100	7007		000	200	979	100	4/81	7/61	2024	2002	9791	
	4 Year Last Onli was installed		1304	/GE1	ZAOG	7/61	606	7007		1981	200	2063	1377	200	7/8)	1 87 1	2002	2000	0.007.6
March Marc	Cod instance Cap Invax Sent Name P	late Kalinds-www)	0,7	0.001	900.9	0.010	0.762	0.14		0.007	490,0	1,223.5	2300.0	100	0.0	7.07	0.712	970	0,300.0
	Net Peak Defriend off Piant 1989 100	minnesi	G F	- 1	200	197	512	171		177	65	0.760	300	700	1 0 40	3 5	202	27.00	e e
Particularies Particularie	Fight nools confincient to Load	4	0/0'0	07.10	0,030	00/100	8	2,735		007	0,123	00/100	67/0	00/0	26.	0,790	37.75	107.1	
The control of the	When Not I imited by Condepser Wals	dwalls	, 52	. 621	, A.	. 242	2386	. 6	. 403	. 9%	. 64	1 133	. 20	1 413	4	200	. 55	768	6.485
Control Cont	10 When I imited by Condenser Water				2 '			2		3						! "			
			14	22	23	196	37		15			205		342		145	10	75	1.310
Control teached with the control teached wit	1	of lies . KWh	190 608 000	1 312 553 000	1 750 RAS 000	5 776 848 DOD	130 819 000		ľ	ı	1:	1	1_	0.00 478 000	ļ	4 929 400 000	456 624 000	1_	41 434 889 000
State Stat	ļC		31 282 815	956 546	3 402 550	10.451.083	1 252 090				1	ı	1	1 161 925	1	4 290 776			85.049.078
Particular Par			6 683 493	12 195 375	28 120 692	50 207 724	13 877 760					201 765 762		133 223 694		60.389.753	116.354		660,650,309
Particular Par			33 868 DA1	78 255 024	300 721 130	CAC 577 0AC	26 406 740		231 281 082			764 145 430		762 621 386	5 009 047	314 777 168	G07 789	278 145 860	3.549 190 130
Color profession Color profe			420.763	313 308	219 022	6.412.602	746 702		1 803 538			5.680.614		9 171 815		4.359.064		301 453	30.336.036
Control Cont			2 27 255 112 \$	1	332 464 294		2 108 878 07	77 890 366 \$	304 463 026 \$	216 116 465 \$	-	001 245 156 \$	817 127 156 \$	906 178 820 \$	5 227 281 \$	383 266 761	1	328	54 325 225 553
Communication control contro	THE REAL PROPERTY.	THE PERSONNEL PROPERTY OF THE PERSONNEL PROP	200000		100 to 10		* 10000	200000	2007.00	250.00	1	9 30 000	2 2000	9 10 00 1	2005	644.05		1	648.00
	(crty (our share)	2,768.40	480.55 50.05	200.40	0.000	280.35	332.41 \$	97.79	26.30	970.05	616.33	4 19.919	500000	27076	8.3	3	20,26,24	500 1757 90
Control cont		g	40,000	103,478	1,169,630	812,800	7/1/2				, , , , , , , ,		005.21	10,49,017	. 000	196,106	4 3 000 254	COC 000 3.	180,181,13
			1	13,633,123	53,417,221	41,977,590	7,793,183	9,393,270	32,952,944	18.608.228	34,932,246	86,493,418	92,823,628	134,667,486	4,695,778	60.409.065	17,566,753	19:020:362	207,U35,877
		Only									,				•				
State Control of State Con			(13,481)	1,235,100		44,903	٠		2,952,013	2,945,176	2,961,088	8,858,277	6,056,750	3,541,899		7,378,618	•		27.102.076
Note that the property 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			3,110,724														,		3.110,724
Control Cont				•			٠				,				•	•	•		•
				1,897,270	1.410.522	•	,	1,768,800	41,300	41.300	41,300	123,900		132,186	762,636	41,914	2,131,781	•	8.269,009
		uses	1,624,844	3,853,893		14,615,932	2,718,842		2,178,819	(4,669,798)	2,791,516	300,537	9,627,725	(15,298,152)		7,102,076		991,108	25.536,805
Particular Par			1.013	32,322	201,118	63,611	1,219	3,999	38,319	31,237	35,829	105,385	89.768	728.304	293	2,000	13,072,156	7,796	14,308,984
Nationary Systems 1,500			•		,		1		,	3	٠				•	,			•
		ering	754			•	,		,	1		,	1,343,614	1,361,822		1,490,534	404	46	4,197,374
			71.562	233,317	100.339	2.543.768	74,305	138 282	1,465,213	1,783,200	1.446,619	4,695,032	1,374,744	7.673,456		1,064,394		407,401	18.376.600
		ř	175,465	2,403,799		6,598,314	531,662	,	5,138,856	7,892,743	5,782,359	18,813,958	10,468,523	24,789,113	٠	8.178,136	•	9,158,158	81,117,128
Participation of the state of			236,685	864,401	1,582,831	6,015,886	613,311	618,024	817,681	3,421,677	884,164	5,123,522	5,011,369	7,067,362	222	3,005,603	304,304	2,952,695	33,396,215
Total Problem Particular		ear) Plant	28,960	355,705	47.866	1,180,612	490,962	166 281	362.184	258,996	309,695	930,875	1,188,364	2,174,513	210,332	564,432	11,609	902,250	8,252,761
Expension Provided by Control Expe	P		5 256.591 \$	24.612.408	57 929 733	73.649.935 \$	12.269.656 \$	12 088 656 \$	45 947 329 \$	30,312,759 \$	49 184,816 \$	125,444,904 \$	91,997,655 \$	183,607,666 \$	5,672,261	94,738,113	33,209,007	\$ 31,984,065	5 752,460,650
This blanch with the late of	Ħ		\$ 97.000	0.0188 s	20000	\$ 75,000	0.003R &	0.0565	\$ 57100	0.0156 \$	0.0143 \$	0.0148 5	\$ 05100	0.0183 \$	0.0564	0.0192	76200	5	\$ 0.0182
Function State Func		, ,	27 58 8	18.75	2000	12.75	93.79	56.47 S	14.70 \$	16-58 \$	14.32	14.80 S	14 99 5	18.25	56 43	19.22	72.73		18.16
Control	Final - SAMA			10.00	20.05	7.07	14 95	43.88	2 3	10.18	1017 \$	10.20	\$ 92.6	13.39	46.74	13.27	38.74	. 69	12.24
Participation Participatio	Nich Callah	, ,	77.58	90.8	5 6	2 87 11	2000	9 09 03	2000	9 6		4 50 4	27.72	28.6	890	1 6	33.99		Sic
Partic Color Col	Variable CAR cue RDs referitio	COL. CARRIER	* ***		0.0	9 00 .		3 176	0.81	**	. 880	\$ 080	S. P. L. Garage	98.0	3	1.19	101		£ 1.12
Total CDM withfrow Energy 1,0570, 266 1,050, 266	Control of the Contro	ALL CONTROL OF LANGUAGE CONTROL OF ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	200	0.70		9 92 7	27.30	9 00 00	200	5 13			97	88	7.75	4 76	8		481
Pure Note Coat	Total Of M without Flust		2 145 867	10 979 285	4 447 47	\$ 545 073 18	4 476 473 5	2 606 386 6	12 004 385 6	11 704 531 \$	14 252 570 \$	39 051 486 \$	35 174 027 \$	48 920 180 \$	973 483	29 329 048	15 520 254	J,	\$ 245 424 773
Country (colorate) of the latened between conditions of the latened between condition		A CONTRACTOR OF THE PARTY OF TH	Coal	lead of	Joo J	leo C	\$ 000 C	* See See See See See See See See See Se	leo?	leo C	leo?	Coal	Log Coal	Coal	Coal	Coal	Coal	Coal	Coal
Quantity (units) of the latent of t		inipar-indicata)	Tool	Tone	Tone	Tone	1,000	Tone	Tons	100	Tone	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Average Coad of Failer (and Failer) 11779 6 800 11180 1185 11215 1225 2 852 2 879 1 979 Average Coad Failer (and Failer) 1 200 1 200 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 80 1 1 1 1 80 1 1 1 1 80 1 1 1 1 80 1 1 1 1 80 1 1 1 1 80 1 1 1 1 80 1 1 1 1 80 1 1 1 1 80 1 1 1 1 80 1 1 1 1 1 80 1 1 1 1 1 80 1 1 1 1 1 80 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Camping II. Incident	25	PSE CEN		4 037 028	2	5	1 532 085	841436	1 580 669	3 954 190	2 621 873	5 695 R21		2 603 974		1 357 141	20 902 381
Avoid of Classification o		instell from misser)		11 700		B 080			11 180	11336	11 185	11 215	11 259	9 219		9.852		7 979	9.701
Average Cost of Field Final Part All Average Cost of Field Fin		during year		20.548		066.6			3		3	21 402	21.75	23.586		25,037		10,589	
Average Cot of Fuel Brinned Cot Fuel Brinned Fuel Cot Fuel Brinned Cot Fuel Brinned Fuel Fuel Cot Fuel Brinned Fuel Cot Fuel Brinned Fuel Fuel Fuel Fuel Fuel Fuel Fuel Fuel		The state of the s		23 203		10.280			21.429	21.81	21.426	21 509	21 273	23 252		24.870		10.376	
Average Cost of Fuel Britands G10 G1		ion BTU	,	9060	,	0.636			0.958	0.962	0.958	0,959	0.948	1.261		1.262		0.650	
Fig. Infort Cond. State (Cond. State) Gas		th Net Gen	4	0.010		700.0			0.010	0.01	0.010	0.010	0.009	0.013		0,013		0.008	
Unit Cole branch class and Mode an		-	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas
Quantity Curris of the left rate of the first of the left rate of th		uclear-indicate)	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF
Avoid cold of Child Burnel of The Ministry 1,056 1,056 1,056 1,056 1,057 1,052 Avoid cold of Child Burnel of			,		12,400,119		1,806,776	2,266,714							1,658,896	153,975	4,676,710		22,963,190
Avvicated Cost of Full-Ministration wash 4.326 4.313 4.144 4.026 4.214 3.782 4.214 3.782 Avvicated Cost of Full-Ministration wash Cost of Full-Ministration wash 4.064 4.067 0.043 0.01 0.0		licate if nuclear)		•	1,052		1,056	1,056							1,056	1,057	1,052		1,053
Awarea Cost of Feel branch and Awarea C		during year		•				•											
Awarance cost of Fuel Brunche are Millon II 1 2602 3,503 3,503 4,000 1,0				٠	4.308		4.313	4.144							2.632	4214	3.782		
Available of the filter of t		Ion BTU		,	4.094		4.087	3.923							7.007	2,300	0.080		
Unification of the Barrier 10 667 Ava Coad of Telegration Coad of Tele		III Net Cen		, Ĉ	0000	č	8 6	4 6	ã	č	Ĉ	ē	7	ð	2	č	ē	Ĉ	Ĉ
Quartic Control		()	5	5 1	5 10000	Dome	5	Daniel	5	II officer	i d	Barrale O	Barrale C	Barrale	Rarrels	Rarrake	Barrele	Rarrels	Rarrels
Available Cost Tella Burner (Rubinshird) 140,000 140,0		ucreal - il luicate)	D ISC	2 008	Dalles	6 336	Calles	patters	1.830	2 040	11 726	16.505	12.812	24 008				10.067	72 636
Avacated fraudring where 77.502 77.512 83.706 59.306 Avacated fraudring where 77.503 77.512 15.70 17.512 15.70 17.512 15.70 17.503 17.500 15.510 15.70 15.70 15.70 17.500 15.70 15.70 17.5		icate if nuclear)	,	140 000		140 000			140 000	140,000	140 000	140 000	140 000	140 000				140,000	140,000
Average Cost of Fueler Unit Burned Average Cost of Fuele for Unit Burned Average Cost of Fueler Day Milhors Bru Mi		diring war		27.5m3		75.212			200.00	non'ot.	2000	87.456	81.877	93 706				93.308	
Average code of Full Brimes per Milhing 1579 1 13.46 14.774 15.49 14.874 13.955 15.959 15.899					,	,				,	,	,							
Awage Cost of the Burned KVAN Net Cen		ion BTU	1	13.181		12.791			11.346	14.774	15.449	14.874	13,925	15.936				15.869	
		/h Net Gen			٠							,	•						
	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	2000		7.007		3.067	2.53.5	10,101,1	8	2	200	300	0.000	20.00	The second second				3

1 1 1 1 1 1 1 1 1 1	Line no.	Blundell Plant	Blundell Plant Carbon Plant Currant Creek		Dave Johnston Plant	Gadsby Plant	Gadsby H Peakers	tunter Unit No. H	Hunter Unit No. H	Hunter Unit No.	Hunter Plant	Huntington Plant	Jim Bridger Plant	Lake Side L	Little Mountain Naughton Plant	laughton Piant	West Valley	Wyodak Plant	Thermal Plants Total	Acct no.
	Kind of Plant (Internal Comb. Gas Turb. Nuclear	Steam - Gao	Steam	Gas Turbine	Steam	Steam	Gas Turbine	Steam	Steam	Steam	Steam	Steam	c	Combined Cycle	Gas Turbine	Steam	Gas Turbine	Steam		
Column C	Vary Originally Constructed Cultabar, Outdoor, Boiler, etc.)	Magar 1084	Outdoor Boller	Cutdoor	Semi-Outdoor	Outdoor	Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Outdoor Boiler	Semi-Outdoor	Outdoor	Outdoor Boiler	Outdoor Boiler	Outdoor	Conventional		
1 1 1 1 1 1 1 1 1 1	Continue and Constitucing	1904	400	2002	8081	199	2002	8/61	1980	1983	1978	1974	1974	2007	1972	1963	2002	1978		
	Tech Labor Office Man Physics Common		/cs:	2002	7817	66	2002	R/SI	1990	1983	1983	187	6/61	2007	1972	1971	2002	1978		
	Man Death Committee and State Committee Man State Committee May 5		0.00	200.8	910.9	0	0.14	443.0	0.087	495.6	1.223.6	926	L.740, L	548.0	16.0	707.2	217.0	289.7	7.547.6	
	rect rean Constant of Flatter way (of minutes)	76.	4/1	88	80	56	471	47.1	707	483	351.7	918	1,414	294	17	406	212	278	7,155	
	Most Configuration Disease Committee (Manual Committee)	ocn"/	0000	0.570	8,733	3,5,00	01.1.0	6,231	6.400	/10"/	8,760	8,759	8,759	2.482	8,302	8.760	5,947	8,600		
Control Cont	When Not I imited by Condenser Water	, 25	, £	, 65	782	235	130	. 609	. 036	, 69	. ξ	, ac	, 677	. 0	' 3	1 005	, 600		1 000	
1	When Limited by Condenser Water			;	į '	77	0.51	3	977	460	1,122	200	2	9	4	9	707	007	C20'1	
Control Cont	Average Number of Employees	15	69	27	191	37		74	74		222	163	341	, 2	· uc	140	• «	. 5	1 306	
	Net Generation, Exclusive of Plant Use - KWh	163,875,000	1,339,343,000	3,605,071,000	5.696.880.000	305 832 000	327 217 000	3 035 550 000	2 052 174 000		8 038 666 000	7 127 084 000	***************************************	1 185 861 000	1	5 210 619 000	FR7 031 000	2 256 168 000	************	
	Cost of Plant: Land and Land Rights	41,195,596	956.546	3,403,030	10,451,083	1 252 090	,	9,688,975	9,688,975	1	29 653 351	2 386 782	1 161 925	17 296 760	1	4 290 794	2001.000	210 526	112 259 118	
Control Cont	Structures and Improvements	6,698,624	12,437,266	42,374,901	50,697,737	14.068.046	4.121.643	61,926,142	50,727,551		202 564 360	112.015.877	134.968.247	41,901,000	217.599	64 349 044	116.354		734 451 602	
Columnic National Columnic N	Equipment Costs	64,426,128	78.212.060	294,996,242	383,610,279	56.537,656	71,981,641	229,829,854	153,309,304		786,095,320	507,906,766	785,821,165	284,392,458	5,071,833	323 952 614	622.401		3,915,373,164	
	Asset Retirement Costs	1,336,278		134,848	6,594,275	676,487	,	1,062,923	1,062,923		3.188.769	2.505.034	6.663,361			2 841 594	,		26.554.549	
	Total Cost	\$ 113,656,626					76,103,284	\$ 302,507,894	\$ 214,788,753	\$ 504,205,153	***********	624,814,459	\$ 928,614,696	343,590,218	5,290,067	395,434,146	738,755	\$ 320,639,647	**********	
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Cost per KW of installed Capacity (our share)	\$ 2,983.11	\$ 495.54	601.36	\$ 552.59 1	28158 \$	539.74	\$ 682.86	\$ 753.64	\$ 1,017.36	\$ 834.83	627.32	\$ 602.57	626.99	330,63	559.15	3.40	1,106,80	634.46	
	Operation Supervision and Engineering	31,426	101,996	698,439	695,975	39.175	•	Ξ	€	ε	(3)	13,432	17,855,550	31,314	•	435,688	٠	558,023	20,461,015	
Part	Fuel	•	16,105,801	151,425,146	42,371,196	26,414,704	22,993,864	37,892,177	24,841,550	34,651,787	97,385,514	82,679,450	139,077,086	45,771,901	11,906,700	77,343,857	41,701,673	18,167,354	773,344,246	
	Coolants and Water (Nuclear Plants Only)			•	,		•					٠		٠	,		٠	•	•	
Comparison Com	Steam Expenses	(8,229)	1,136,931	•	٠	379		2,925,851	2,946,653	2,937,596	8,810,100	7,926,745	3,807,725	•	,	6.809.204	•		28,482,855	
The the threated (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Steam From Other Sources	4,845,079	•		,		,	,		1			•	,	,			•	4.845.079	
1,117, 1	Steam Transferred (Cr)		•	,				•		•	,	,	•		,	٠	•	٠		
150 150	Electric Expanses	,	1,917,701	1,819,594	,		1,636,826					,	8.038	1.253.357	955 208	9 184	8 999 446	•	16 599 354	
1,500 1,50	Misc Steam (or Nuclear) Power Expenses	1 579,607	4.730.820	16,093	14 956 185	3 325 222	,	2 633 887	139,052	3 070 682	5 R43 G21	10 301 575	(16 196 118)		,	0.400.653	0	4 081 478	38 048 136	
The control of the co	Rents	1 458	16.554	2 123	212 751			1 500	1 577	2 691	4 73K	34 384	432 434			2,000	10 077 600	4,000	11 606 063	
Column C	Allowances							770	770	4,00	2	5	176,176		•	2.000	10.017,000	ŧ,	1,090,000	
	Maintenance Supervision and Frontineering	,										1 200 545	843 543			1 100 600	•	, 44	2 330 324	
among elettic transport at the control of the contr	Maintenance of Structures	158 507	724 407	373 875	2345,406	167 406	103 631	1 075 615		000 000 0	BAC 850 9	250,040	7 000 407	46 070	,	104,000	. 000	407 442	3,328,27	
	Maintenance of Bolior for reactor's Diant	319.044	1 973 419	0.0000	2,343,490 B 045,670	137.433	776,00	5.97.3,013		17 000 013	0.024.200	1.502.737	1905,900,00	6/8/0		1.954,500	97,596	487.43	21,310,330	
	Maintenance of Flectric Diant	1 460 706	209 002	7 212 552	7.05.10.	030 600	246 201			2 244 880		2700.070	2772 406			0.00.000	, 00, 700	4,922,239	04.191.274	
	Maintenance of Misc Steam (or Nuclear) Plant	66.958	373,684	61.664	1 554 030	223,300	146.03			140 003		109,062.1	2,703,430	20,040	, 50	5.422.281	420.047	4/8/908	34,700,003	
Expense Continue	Total Production Expenses	S A 445 546	\$ 27.289.411	157 150 4R7	78 732 403	32 676 377 CF	25, RDS R30	ľ		19,002 R RG 286 277		117 778 073	£ 107 507 171	1,001	728.8C	360,042	135,817	254,950	8,304,007	
Fig. 2013 Fig.	Congress new Not 1080h	0.0646	20000			00000	0.070	1.	1	a.		2000	0000	Commonwealth of the Common	0001707	2000	* 11 COCO O	ᅦ	13	
Particle	Total Bushar Statistic	1000		25.50	00100	00000	0000	٠.	٠.	٠.		00000	20102	0.0402	0.1148	0.0217	0.0937			
Particular Par	Total Bushar Symethy	6.0	20.36	43.38	13.82	105.84	97.97	۸.	ж.			15.82	19.15	40.16	114.76	21.12 \$	93.75			
Part	THE PARTY I		12.03	42.00	7.44	86.37 &	/0.5/	,				11.60	13.83	38.60	105.74	14.84 \$	62.52			
				2	.02	2047	288	,		B		4 22	5.32	88	9 02	6.28	31.23		- 8	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,				200		3	3	į,		26		1970	8	0.31	188	1.26	88		Mi.	
The color The	Fixed O&M (RDI definition) - \$/MWh	\$ 17.58	899	127	5.11	16.38 \$	639	s	_	1		338	\$ 4.27	1.25	7.21	5.02	28.28	- 1	- 1	
Coal	Total O&M without Fuel	\$ 3,600,467	5 11,183,610	5,725,341	\$ 36,361,207	6,261,668 \$	2,612,766	١	2		\$	30,097,523	\$ 53,515,085	1,847,356	1,015,135	32,710,582	20,831,441	-	ы	
Total Tota	Fuel: Kind (Coal, Gas, Oil, or Nuclear)	Coa	Coal	Coal	Coal	Coal	Coat					Coal	Coal	Coal	Coal	Coal	Coal			
1,215 1	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Tons	Tons	Tons	Tons	Tons	Tons					Tons	Tons	Tons	Tons	Tons	Tons	Tons		
12.15 1.25	Quantity (units) of Fuel Burned	4	640,585	•	3,942,421			1,479,754				3.221,777	5,709,196			2,772,108		1,651,101	N	
1,000 1,00	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)	•	12,115		8,052			11,290				11,318	9,136			9.929		7,830	9.729	
1,000 1,00	Avg Cost of Fuelfunit, as Delvd f.o.b. during year		24.393		10.515							25.534	23.981			27.456		10.808		
1016 1016 1016 1016 1119 1199 1119 1119 1119 1119 1119 1119 1119 1119 1119 1119 1119 1119 1119 1119 1119 1119 1119 1199 1119 1199 1119 1119 1119 1119 1119 1119 1119 1119 1199 1119 1119 1119 1119 1119 1119 1119 1119 1199 1119 1199 1119	Average Cost of Fuel per Unit Burned	•	24.621		10.595			25,266	25.437	24.492	25.038	25.388	23.894			27.461		10,812		
Control Cont	Average Cost of Fuel Burned per Million BTU		1.016	,	0.658			1.119	1.12	1,088	1,108	1,122	1,308			1.383		0.690		
Gas Gas <td>Average Cost of Fuel Burned per KWh Net Gen</td> <td>,</td> <td>0.011</td> <td></td> <td>0.007</td> <td></td> <td></td> <td>0.012</td> <td>0.012</td> <td>0.011</td> <td>0.012</td> <td>0.011</td> <td>0.014</td> <td></td> <td></td> <td>0.015</td> <td></td> <td>0.008</td> <td></td> <td></td>	Average Cost of Fuel Burned per KWh Net Gen	,	0.011		0.007			0.012	0.012	0.011	0.012	0.011	0.014			0.015		0.008		
MCF MCF <td>Fuel: Kind (Coal. Gas, Oil, or Nuclear)</td> <td>Cas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gass</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td>Gas</td> <td></td>	Fuel: Kind (Coal. Gas, Oil, or Nuclear)	Cas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gass	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	
1,045 1,165 1,254 1,254 1,047 1,04	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MOR	MCF	MCF	MCF	MCF	HOM.	MCF	MCF	MCF	MOM	
1,044 1,045 1,047 1,044 1,047 1,04	Quantity (units) of Fuel Burned		•	24.810.285		4 118 910	3 736 433							7 761 318	1 945 941	188 191	7 097 453		49 658 631	
Columbia	Avg Heat Cont - Fivel Burned (btu/indicate if nuclear)			1 045		1.063	1.047							1.050	1 014	1065	1041		1 045	
Second Color	Avg Cost of Fuelfunit, as Delvd f.o.b. during year	,	,																	
Signate Sign	Average Cost of Fuel per Unit Burned			6.103		6 413	6 154							5 897	4 110	6 47B	5,876			
October Octo	Average Cost of Fuel Burned per Million 8TU	,		5.842		6.093	5.879							5.616	6.034	6311	5.645			
Oliver O	Average Cost of Fuel Burned per KWh Net Gen	,		0.042		0.086	0.070							0.039	0.106		0.063			
Barrel Barrels Barrels <th< td=""><td>Fuel: Kind (Coal, Gas, Oil, or Nuclear)</td><td>ō</td><td>ō</td><td>8</td><td>Ö</td><td>ō</td><td>ō</td><td>8</td><td>ð</td><td>ō</td><td>8</td><td>ō</td><td>ō</td><td>ō</td><td>Ö</td><td>ð</td><td>ō</td><td>ō</td><td>ō</td><td></td></th<>	Fuel: Kind (Coal, Gas, Oil, or Nuclear)	ō	ō	8	Ö	ō	ō	8	ð	ō	8	ō	ō	ō	Ö	ð	ō	ō	ō	
3,347 6,589 5,013 1,682 21,173 22,849 6,997 23,459 1,500 1,40,000	Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Barrel	Barrel	Barrels	Barrels	Barreis	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	
140,000 140,00	Quantity (units) of Fuel Burned	•	3,347		6,299			5,013	1,662	21,173	27,848	5,997	29,450					3,340	79,281	
96.746 95.166 95.167 17.139 16.816 16.772 16.856 16.716 15.354 16.072 16.072	Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)		140,000		140,000			140,000	140,000	140,000	140,000	140,000	140,000					140,000	140,000	
16.962 16.165 15.354 16.816 16.716 15.354 16.716 15.354	Avg Cost of Fuelfunit, as Dalvd f.o.b. during year		99.736	٠	95.166			,		,	99.112	98.288	90.283					94,502		
17.139 (8.16 16.25 16.76 15.394 16.776 15.394 16.776 15.394	Average Cost of Fuel per Unit Burned	,		,	,															
	Average Cost of Fuel Burned per Million STU		16.962	,	16.185			17.139	16.816	16.792	16.856	16.716	15,354					16.072		
	Average Cost of Fuel Burned per KWh Net Gen	,								0.001			•							
			The second secon	,				-						The second secon	- A Same Co.			The state of the s	Contract of the second	

Control Cont	Line no.			Carbon right Commits Flam Current Creek	Democras Frank					-	3		numer right				Little Mountain Naugnton Plan	_		VY YOUGH PIGHT	Total	Acct no
Comparison Com	Kind of F	Plant (Internal Comb. Gas Turb. Nuclear	Steam - Geo	Steam Co	ambined Cycle	Gas Turbine		Steam			Steam		Steam		Steam Com			Steam		Steam		
	LD adv	Constr (Conventional Culdoor Boller etc)	loopul	Cutdoor barier	Cuttoor	Outdoor		Dutdoor			Solle		Boyler		em-Cutdoor	_		Outdoor Borier		Conventional		
	Year Ori.	qinaliv Constructed	1984	1954	2003	2005	1959	1951		1978		1983	_		1974	2007	1972	1963	2002	1978		
Part Comparison of the com	Year Las	st Unit was installed	1984	1957	2003	2006	1972	1922		1978		1983			1979	2007	1972	1971	2002	1978		
The control co	otal ins	stalled Cap (Max Gen Name Plate Ratings-MW)	88	188.6	520.0	596.9	816.8	257.6		443.0		495.6			1,541.1	548.0	16.0	707.2	217.0	7.887	8,067.6	
Particular Contention Part	Net Peas	k Demand on Plant - MW (60 minutes)	37	174	525	571	764	219		406		477			1.405	901	17	705	194	280	7.666	
	Plant Ho	ours Connected to Load	8,338	8,625	1,686	7.752	8.784	3.079		8,323		8,269			8.784	7.234	8,040	8.784	1,757	8,454		
		thrubus Plant Capability (Megawatts)	٠.	1			' ¦	, ;	' ;	' !		٠,					٠;		' ;	. 000	1	
		of Limited by Condenser Water	X,	3/5	075	240	162	532	120	403	598	460	1.122	200	5.433	2	14	90/	202	Ç49	7,545	
		imited by Condenser Water	٠,	٠,				•								٠,		' ;				
	•	Number of Employees	22	0/		- 3	1	-			.1	- 5	1	- 1	ľ	48	- 1	144	1	63	1,113	
Court Part International Part Court Part International Part Court Part International Part Internatio		eneration, Exclusive of Plant Use - KWh	254.277.000	1,204,982,000	_	- 1	1				_	- 1	^	- 1	۱۳	1,722,000		4.409.000	26,285,000 2.2	- 5	**********	
Automatic columnes Automat		Plant: Land and Land Rights	41,195,596	956,546	•			1,252,090								7.296,760	635	4.290,826		210.526	12 259 397	
Particular Content 1,111/10		es and Improvements	7,404,973	14,151,830		_		15,055,364								7.057,001		5.636.170			730,016,703	
Particular Columnia 1,500,700 1,500,		ent Costs	66,334,256	91,596,954				57,668,039								5.014.470		11.940.962		4	034,971,272	
Particular Par		virement Costs	1,336,278	2,951,381				587,008										2,650,267		613,826	27,233,918	
Countre Not Number Countre	Tot	Cost	\$ 116.271.103	\$ 109,856,711 \$	\$.	351,619,064	365 621 \$	74 562 501 \$	"	2	9	ľ		s	~	19,368,231 \$	5,360,303 \$ 40	M 518.225 \$. \$ 3.	324,829,122 #	**********	
Control Extension and Entendential 3,1773 13,253 12,253 13,253	HOROSTER	set per KW of installed Capacity (our share)	3.051.73	581.47	\$	\$ 30 00 S	ľ	289.45 €	ľ۳	٧	ľ	ľ۴	ľ	v	ľ	637.53 \$	ľ	\$ 00 625	2	112128 \$	607 97	
State Stat	Open	n Supervision and Engineering	33.075	312.553	,	42 CE	•	78 893	•	(5.903)	6.903	6808	+	•	٠	126 122	20,000	461.800		•	20 127 526	
Sum from the Many Houses Fam to Oxyo Sum from the Many House Fam the Many House Fam to Oxyo Sum from the Many House Fam to Oxyo Sum from the Many House Fam to Oxyo Sum from the Many House Fam the Many House Fam to Oxyo Sum from the Many House Fam the Man			. '	18 529 823	42 288 408	157 074 310		26.301.622		39.811.612	25 535 122		421 723	ì		57 112 030	16 778 091	76 503 807	211 280 01	19.521.169	938 040 068	
Steam from statement of the control and statement o		. and Water (Nuclear Plants Only)						7701100107								,					,	
Basin Friend Chie Secreta 377 365 Basin Friend Chie Secreta 48		metricas	(734 842)	1 229 297			5,679			3 014 RDR	3 015 203	3 004 795	90374 906	8 505 373	3 610 169			7 377 173		,	29 617 655	
Eurice Formation Eurice Form		mm Other Spinces	3 371 385									001/100/0		,							3 371 385	
Exercise		ransferred (Cr)						. ,										,			'	
Web Share for Notherly Paner Expansion 2.91 (2014) 3.14 (2014) 1.44 (2014)		E VERROS BS		1.860.316	1301.982	2.503.145		,	1 555 365					,	2.475	2712177	947 555	920	3 006 572		13.890.502	
Appendication of Expension 10.00 1.00		am (or Nuclear) Power Expenses	2 291 026	5 188 701			15.340.716	3 446 842		2 244 196	(2 248 468)	2 740 942	2 736 670		15 463 1531	,	'	8 591 754		4.112.755	36.513.166	
Authorization of Engineering and Engineering Schools (Schools) Section			3.024	13,989	27 423	1 206	31348	area area		2	29	200	87		186 164		,		4 583 304	4.958	4.865,996	
Multi-marked Subscriptors 200.254 200.215 200.254 1,20,427 1,13,427 2,200.00 2,000.0		SS.			,					, '	,	١,	. '									
With transport of Strictives 255.44 215.13 EZ 20.30 CM 156.41 CM<		ance Supervision and Engineering			,	,	•					,			500.548		,	1,206,951		48	2,953,110	
Authorizonte of Deficie (Parison Laboration		ance of Structures	295.344	224.153	8.978	405.205	1.861.787	246.773	113,442	2,206,000		1,839,573	6.109.723		11,080,899	585,449		1,139,518	166.275	356,591	24,145,958	
Maintenance of Euchy Paris Maintenance of		ance of Boiler (or reactor) Plant	248,805	2,713,820			10.190,326	1.291.713		5.245.970		7.864.514	18,340,975		23,148,750			5,974,226		5.548.421	74,323,905	
Multification of Mult		snoe of Electric Plant	489.274	1,673,829	515,059	2,906,153	8.025.256	1,221,612	915,946	1,133,462		541.738	2,922,535		7,676,159	1,650,854	91,556	1,793,996	314,608		32,494,930	
Total Continue of Fundamental Annion State Continue o		ance of Misc Steam (or Nuclear) Plant	63,391	412,789			1,434,677	262.672		157,798			584,621			•		636,100			7,700,243	
Feature per Net	1	Production Expenses	\$ 6,560,482	\$ 32,159,270 \$	44,142,850 \$	162,982,363 \$	87,842,574 \$	32,850,127 \$	26,581,975 \$	53,907,972 \$	'n	*	48,133,431 \$ 1	100	*	32,186,627 \$	7,817,202 \$ 10	3,686,240 \$	19,062,878 \$	*	**********	
Total baths : NAMN S	8	penses per Net KWh	\$ 0.0258	\$ 0.0267 \$	\$ 05/00	0.0582	0.0156 \$	0.1415 \$	0.1061 \$	0.0173 \$	s	S	0.0170 \$	0.0157 \$	<u>پ</u>	\$ 7950.0	,,	0.0203 \$	0.1510 \$	w	0.0250	
Figure F	To	tal Busbar - \$/MWh	25,80	26.69 \$	75.01 \$	58.22 \$	15.58 \$	141.55 \$	106,11 \$	17.27 \$	w	4	17.04 \$	15.71 \$	19.73 \$	56.67 \$	s	20.27 \$	150.95 \$	49	25,04	
Variable Osk Nues PCI definition 1: 5MW, Valiable Osk Nues PCI definition 1:	ũ	iei - S/MWh		5 15.38 \$	71.86 \$	\$6.11	\$ 06.8	113.33 \$	95.79	12.78 \$	s	*	12.47 \$	11.37 \$	14.66 \$	54.90	49	14.96 \$	87.04 \$	49	19.77	
Victorial Color (Color Color		pri-fuel - \$/MWh	\$ 25.80	5 11.31 \$	3,15 \$	2.11 \$	6.68 \$	28.22 \$	10.32 \$	4.49 \$	s	49	4.57 \$	4.34	5.07 \$	1.77	м	5,31 \$	63.91 \$	4	5.27	
Freed Color Matter Color Matt		viable O&M (per RDI definition) - \$1MWh	2.51	2.28 \$	\$ 290	0.42	1.33 \$	262	208	\$ 060		**	0.91	0.87	\$ 107	0.35	٠	108	5.52	*	188	
Fig. 10 Fig. 20 Fig.	2	xed O&M (RDi definition) - \$/MWh	10.04	\$ 908 \$	2.53 \$		534 \$	\$ 1522	8.25 \$	3.59 \$	-	•	3.86 \$	3.47 \$	4.06	1.42 \$	7.59 \$	4.25 \$	58.39 \$	4.14 \$	4.24	
First Kindled Card Card Card Card Card Card Card Car	. 1	O&M without Fuel	3,189,097	13,629,447 \$	1,854,442 \$	5.908,053	37,654,806 \$	6,548,505 \$	2,584,753 \$	13,996,360 \$	ᆒ	m	39 711 708 \$	31,014,107 \$	51,522,248	5,074,597 \$	-	77,182,438 \$	8,070,759 \$	ı٠	250,004,376	
Unit Control C		nd (Coal, Gas, Oil, or Nuclear)	Coal	Š,	Coa	Coar	Coar	Coal	00	Coal			Cost	Coar	Coal	Com	Coal	Coa	Coal		Coa	
Control Case Cont		hat-tons/Oil-barrei/Gas-mcf/Nuclear-indicate)	Sual	Tons	lons	Suo	Tons	Tons	ons	suo;	Suo		ons	SUO	SUO	500	ons	ons	SHO	Suo	suo	
March Const Facility and Const Facility (Const Facility and Const Facility and Const Facility (Const Facility and Const Facility and Const Facility (Const Facility and Const Facility		(units) of Fuel Burned		576.654			4,024,867			1,465,385	952.476		4,007,154	3,004,101	5,686,443			2.767.902		1,657,665	709'97'17	
Marcia of Particular at National Particular		at Cont - Fuel Burned (btu/indicate if nuclear)					7,969			11,563	11.607		11.570	11,857	9.249			958.6		7.87	3.840	
Available Code of the Bounds between code of the Bounds of Code of C		st of Fuel/unit, as Delvd Lo.b. during year		200			12.16/				, 00		707.97	SEL 92	25.790			51.515		101		
March Code Parch Code Co		Cost of Fuel per Unit Burned		50.50			12.135			26,498	70.70g		26.545	76.703	23.030			1 27.11		0.736		
Figure Color Col		Cost of Tuel Burned Del William D. C.		7070			0000			123	1.153		0.000	2000	2000			1000		9000		
Unit Count Could have discussed included a location Note No		A COSE OF THE DOOR HE NAVEL INC. CASH	į	500	0	į	0.00	į	ě	200	2000		210.0	100		å	, and	200	9	300	Č	
Our function of the control of the		TO COOK GAS, OR. OF WASHART	C POST	e LOS	95	Sec.	8 101	95	9 5	1001	989		200	900		1405	900	NO.	NACE OF	100	100	
March Conf. Tell Branch Benvicias if nuclear in National Plant Branch Benvicias if nuclear in National Plant Branch Bra		Approvise Companies Construction (Approximately)	200	Š	700 284 7	10 394 467	5	2424 662	7 2 6 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	i i						10 410 003	007 300 0	163 367	1 402 458	ē	42 592 199	
Average Card of Full-Month at Subset Cas during weat Average Card of Full-Month at Subset Cas during weat Average Card of Full-Month at Subset Cas during weat Average Card of Full-Month at Subset Cas during William Subset Card Office Cas (AVERAGE CAS AVERAGE		1 Cont Final Rumod /bhujndicate if nuclear)			1030	1064		1067	1 057							1.042	1.058	1.047	1.056		1 048	
Average Code of Fuel Branches 10187 6 110 6 120 8 255 Average Code of Fuel Branches and Code 13-24 7 661 7 671		+ of Euclinit as Dalvid forh divino year																				
Average Code of Fine Branch Mills BTU 15479 7 5659 7 5651 7 8779 COD		Cost of Fuel per Unit Burned			10.097	8.103		8.418	8.325							8.090	8.279	8.863	7.838			
Avvisor Cord Crist Burnel Control Cont		Cost of Fuel Burned per Million BTU			13.478	7,686		7.961	7.878							7.767	7.827	8.448	7.485			
Fast Notice Card Card Card Card Card Card Card Card		· Cost of Fuel Burned per KWh Net Gen			0.072	0.056		0,113	960.0							0.055	0.153		0.087			
Unit Code Sector Field Burnels		nd (Coal, Gas, Oil, or Nuclear)	Ö	ō	5	≅	ö	ō	ŏ	8	ö	8	5	ō	8	õ	ō	ō	ö	ŏ	8	
Dutatish Girable of Fall Business Dutatish Girable of Fall Business 1,57,37,37,37,37,37,37,37,37,37,37,37,37,37		nal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Barrel	Barrel	Same	Barrels	Barreis	Barreis	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	
Another Conf. Tell-Brand Publication and Tell-Brand Publication Tell		r (units) of Fuel Burned		3,243			10.941			3,165	220	11,091	15,006	8,288	18,419					3,680	59,577	
Average Conf. First all Williams Willia		of Cont - Fuel Burned (btulindicate if nuclear)		140,000			140,000			140,000	140,000	140,000	140,000	140,000	140,000					127 186	140,000	
Avanage Cast of the Burnet per Miller BTU 23 652 20 896 24,591 21 656 23 039 23 21 21 486		of the treatment as Lyalyd Lo.D. during year		201.00			177.003						130.400	000000000000000000000000000000000000000	0000					97		
0.00.07 21.00 Market 100.00 Market 200.07 200.07 200.07 200.07 200.07 200.07 200.07 200.07 200.07 200.07 200.07		Cost of Fuel Ber Unit burned					900 00			, oc vc	34.056	900 66	13767	24 486	30 406					787.02		
Average Cord File Ruman on KMA Nat Gan		Cost of Fire Burned per KMh Net Geo		You're			20.00				- 1 - Company	23.5ve	4.904		20.02							
		Age to C Def Awa Net Generation		76. 404.11	2000	20/20/20	20.70	4.230.00	17.102.14	2000	2000		0000		è		2000	3	14/7/	700		00.701.01

					11011		CONCIA									•		
Kind of Plant (Internal Comb. Gas Turb, Nuclear Time of Court (Competition) Cutton, Building	Steam - Geo	Steam C	Combined Cycle Co		Steam	Steam	Gas lurbine			Steam Orddoor Bodor	Outdoor Boller	Outdoor Engles	Somi Outdoor	Orthopic Cycle	Gas Lumine	Steam Outdoor Roiler	Steam	
Vana Originally Constructed, Culdoor, Dorler, etc.)	10001	Cuttoor Boller	COULD	Couldon	1050	1061		1070	1080	1002	1078		1974			1963	1978	
Year I set finit was installed	1005	10.04	2003	2005	1973	589	2002	1978	1980	1983	1083	1077	1979	2002	1977	1971	1978	
Total (nethalled Can (May Gan March State Dations MM)		988	503 3	0 929	9 9 9 9	2E1 E	181 1	457.7	707.5	4046	1247.8	900	1545.1	5913	1 1	707 2	280.7	8 029 5
Not Deak Demand on Plant - MW (60 minutes)		176	519	999	766	200	121	406	260	465	1118	893	1427	285	17	710	280	7.441
Plant Hours Connected to Load	8594	8717	4852	7654	8760	3753	5982	8165	7267	8076	8760	8716	8760	5912	7976	8760	8315	
Net Continuous Plant Capability (Megawatts)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
When Not Limited by Condenser Water	34	172	520	920	762	231	122	403	259	460	1122	895	1411	228	7	700	268	7,359
When Limited by Condenser Water	0	0	0	0	0	0	0	0	0	0	0	0	0 !	0	0	0 ;	0	, 10,
Average Number of Employees	- 1	ᆈ	- 1		- 1	-		Ì		_ 1		- 1	ľ	22				1,107
Net Generation, Exclusive of Plant Use - KWh	279,121,000	_	↲	의	5,015,234,000	256,104,000	349,713,000 2	2,988,412,000 1,	6	_	8,071,182,000 6,	6,753,764,000 #		2,099,013,000	4	٦	1	45,488,865,000
Cost of Plant: Land and Land Rights	41,195,596	956,546	1,973,791			1.252.090		9.688.975	9,688,975			2,386,782		17,296,760		4,290,826		114,233,188
Structures and improvements		14,711,825				15,072,596	4.241.952	63,023,096	57,902,741			114,/95,130		27.700,094	327,028		50,522,903	174,032,004
Equipment Costs		103,555,029	_			58.376.560	72.822.026	232.879.738	125,635,985			509760515	960	300,701,044				4,517,038,736
Asset Retirement Costs		6,527,359			11,441,950	587.008	ľ	953,193		953,193	2,858,579	١	4,672,990	9 000 200	9 407 0733	1	979,500	30,009,017
10(8) (-0.5)		123,730,733	- #		20,009,04	C7'007'C/	1	\$ 700 CHC 000	1	7007007	1	* 600'700'000	00,000,000	9 00 100	•	2000		277.00
Cost per KWy of installed Capacity (our share)	3,128.78	\$ 9/10 90 90 90 90 90 90 90 90 90 90 90 90 90	2/7/63	622.43	2 987.99	299.24	472,53	\$ C/ ROO	4.55	1,032.855 \$	630.91	041.3/	638.37	984.78	340.04	•	1,137.00	00.110
Operation Supervision and Engineering	20,045	40.040.04	03,486	06666	709.742	112,089		2000	- 403 30		201 950 507	017,12		118 830 056	47 344 600	. "	40.304.004	037,503,120
Fuel Committee C		#88'7'Q'81	68,420,353	147,010,337	40,367,110	24,139,982	22,469,120	558,504,85	002,004,03	4.0,818,80		4,4,4,0,000		000,000,011	0000		00'100'61	2000
Constits and water (wucher Fights Only)	, 6,			,				970 300 0	- 070 0	2000 2000	0 000 540	2007007	2 000 040			E 292 061		529 745 77
Steam Expenses	3,420	707'065'1			(40.0.04)			CID:09977	70/3/10	7,030,700	0,000,000	100,100,1	0.000,000			100,000,0		2 607 676
Steam From Other Sources	3,587,576		,			,								1		,		0/0//800
Steam Transferred (Cr)	•		,		,									, 000 0	, 000	9000	r	
Electric Expenses		1,810,205	2,661,898	2,351,396	, 100		1,641,160						0,741	2.000.24 i	277°906	077'5		11,383,034
Misc Steam (or Nuclear) Power Expenses	1,806,790	4 934 749	,		17, 159,533	4.077.590		1,866,496	(3,012,030)	2,495,825	1,350,291	10,861,738	(14,8/4,94/)			9.224,330	4,272,346	100,210,000
Rents	9.640	170	15,909	6,149	148,543	ı		38	ĸ	8	901	98,828	162.397				997"4	449,033
Allowances			,	>												, 200	, 2	393 770 0
Maintenance Supervision and Engineering							. !				, 000 070 0	1,146,363	900,000	- 000 000 0	•		00000	2,344,343
Maintenance of Structures	162.048	336,038	10,917	250.824	2,442,564	220.739	193,326	2,020,238	1,949,545	1,841,148	15,810,831	2.102.720	8,014,043	1,086,954			4/4.200 5 200 046	620,040,023
Maintenance of Boiler (or reactor) Plant	912,521	2,988,372	, , , , , ,		12,629,287	1,172,321	, , , , , ,	5,006,533	0.080,880	0,407/2	18,869,214	0.002,363	24,007,100	1 000 666	140 4 000		1,390,040	46.354.466
Maintenance of Electric Plant	403,022	01.900.1	2,5/2,548	6,436,998	8,090,794	017,068	7,906,097	1,066,457	1,170,300	1,187,193	3,423,800		0.026.7	1,000,000			1,451,004	8 088 736
Maintenance of Misc Steam (of Nuckear) Plant	18700	206.404	OE 000 444	2 700 000 004	00 734 440 0	100,443	a EUC VOC UP	82.204 En 4EO 004	3 377 688 66	57 277 634 C	442 441 200 €		204 064 768	124 563 365 €	18 863 003 6	108 093 318 &	31 500 202 €	1 108 703 661
Total Floureties	105,040,0	9 07716676	\$ 111,000,00	9 200,000,001	9 10 10 10 10 10 10 10 10 10 10 10 10 10	6 400,100,14	40750750	9 32,004,20	20000	9 200	2000	•	2000	2 00000	ŀ	•	0.0346	A CO C
Table of the Park	0.0224	0.0272	0.0544	0.0037	0017	0.1619	1152	0.0176	47.65	0.0.0	47.77	2000	30.08	40 34 K	9 4	22.74	24.50	26.35
Control California	(5.77)	27.17	25.10	9 20 03	90.0	138.31	101.48	300	13.28 \$	12.53	12.99	10.69	80.47	286	v	15.58	8 97 \$	20.50
Non-first States		3 20.10	272 6	271	9 9 9	36.30	12 73 6	95.4	2 77 6	20.25	4 78 4	96.7	200	277	, ,	7 16 \$	7.50	58.6
Variable O.C.M. (nor RC) definition) - Childh		*****	9 790	\$ 72.0	172	262	3.75	0.87	0.85	2 01	\$ 960	8 660	100	0.54 \$	296 \$	1.43 \$	1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1.17
Fixed O&M (RDI definition) - \$/MWh		8.83	259 \$	297 \$	692.8	22 56 \$	10.98 \$	3.48	3.42 \$	4 39 \$	3.82 \$	3.97 \$	4.01	2.18 \$	69	5.73 \$	4.46	4.69
Total O&M without Fuel	\$ 2,645,781	13,378,284 \$	5,647,758 \$	9,145,307 \$	43,347,030 \$	7,221,392 \$	4,801,083 \$	12,996,988 \$	8,199,195 \$	17,358,420 \$	38,554,603 \$	33,531,201 \$	51,074,667 \$	5,714,299 \$	4	34,048,012 \$	12 127 221 \$	266,452,624
Fuel: Kind (Coal, Gas, Oil, or Nuclear)	Coal	Coal	Coal	Coal	Coal	Coal	Cos	Coai	Cos	Sa	Coal	Coal	Coal	Coal	Coal	Coal	Coal	Coa
Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	Tons	Tons	Torrs	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Quantity (units) of Fuel Burned		561,433			3,561,945			1,429,788	916,714	1,429,028	3,775,530	2,742,685	5,605,754			2,494,866	1,608,054	20,350,267
Avg Heat Cont - Fuel Burned (bturindicate if nuclear)		12,079			7,986			11,494	11,613	11,414	11,508	12,329	9,219			2,907	7,968	606'6
Avg Cost of Fuel/unit, as Delvd f o b during year		34.043			12.288						27.494	25.969	27,430			28.529	11.782	
Average Cost of Fuel per Unit Burned		34,404			12.298			27.370	27.449	27.262	27.349	25,959	27,153			28.586	11.670	
Average Cost of Fuel Burned per Million BTU		1,424			0.770			1.191	1.182	1.194	1.188	1.053	1,473			1.443	0.732	
Average Cost of Fuel Burned per KWh Net Gen		0.016			0.009			0.013	0.013	0.012	0.013	0.011	0.015			0.015	0.009	
Fuel: Kind (Coal, Gas, Oil, or Nuclear)	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gass	Gas	Gas	Gas	Gas	Gas	Cass	Gas	Sas
Unit (Coal-tons/Oif-barrel/Gas-mcf/Nuclear-indicate)	MCF	MCF	MCF	MOF	MOF	MCF	MCF	MCF	MOF	MCF	#CF	MCF	MCF	MOM	MCF	MCF	MCF	WC.
Quantity (units) of Fuel Burned			12,530,185	17,314,372		3,628,836	4,019,844							14,857,205	1,977,227	409.757		54,737,426
Avg Heat Cont - Fuel Burned (btu/indicate if nuclear)			1,032	1,052		1,043	1,046							1,032	1,046	1,033		
Avg Cost of Fuel/unit, as Delvd forb during year			7.136	8.537		9.408	8.828							2555 /	77/8	6.654		
Average Cost of Fuel per Unit Burned			7.136	6.537		9.408	8.828							9867	77/8	5.554		
Average Cost of Fuel Burned per Million BTU			6.918	8,118		9.024	8.442							4 6	8.338	0.44.0		
Average Cost of Fuel burned per KVVn Net Gen	•	4	CC0:0	0.050		0.133	0.0	ě	ð	Ĉ	ĉ	7	3	9	9 2	8 0	ð	ĉ
File Kind (Coal, Gas, Oil or Nuclear)	5]	5	5	5	5	5	5	5 1	alound d	Borrole	Sapara	Branda	Barrale	Barrale	Rarrale	Rarrole	Barrele	Rarrele
One (Coar-tons Oil-barrer cas-mor/success-morcate)	patte	auro	Darrel	Darreis	Series 10 And	Darreis	Signific	Defreis 2 A 47	3 490	10.817	17 754	10 080	17.615	910	and the same		6 243	74 473
Quantity (units) of right burned		2,400			10,420			000000	140 000	140,001	000 004	140.000	140,000				145.000	140.000
Avg meat Cont - ruei burrieo (blumio)cate il modeani		200,040			140,000			140.000	140,000	000.041	00 181	27.50	0.6616				08 704	
Average Cost of Puercing, as Carvel of to during year		200.000			500.00						20.00	03 745	0.4.516				98 704	
Average Cost of rues per One Surred		14.637			14 503			16 707	15 508	16.106	15.337	15 038	16.074				16 787	
Average Cost of rulei burned per Million 610		150.4			4.080			00.00	2000	3	000	00000	1				9	

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	Italia Column of Pales Retirous MV)	2005 2005 2005 2005 2005 2005 2005 2005	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	225.28 4.241 74.725 \$ 7.896 \$ 7.896 1.314 1.314 1.314 1.314 1.314	2.07.2999 9.089 9.099 9.009 9.009 9.009 9.009 9.009 9.009 9.009 9.009 9.009 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.				σ * σ	2.7.7.2.2.3.2.6.3.7.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	, , , , , , , , , , , , , , , , , , ,	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7 389 7 7 389 7 7 389 7 7 389 7 1005 7 114,231,84000 114,231,843,843,843,843,843,843,843,843,843,843
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	and and Work (Nuclear Plents Only) In Exemines In Exemi	131.063.441 2.617.822 874 900.830 1.246.435 \$ 0.0634 \$ \$ 5.342 \$	31,079 31,079 31,079 37,178 37	21.34 1.31 2.55 2.55 5 25.43	35,497,683 2,817,013 1,630,831 3,850 11,140,805 4,518,436 116,020 4,518,436 116,020 4,518,436 116,020 4,518,436 116,020 5,504,620,23 5,504,620,23 5,504,620,23 5,504,620,23 5,504,620,23 5,504,620,23 5,504,620,23 5,504,630,23 5,	24.501.482 2.809.276 3.890 3.890 2.408.76 5.719.032 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885 1407.885	w 0	₩ w	was a	φ.	E.	5	in the second	224.779.480 28.094.279 28.094.279 28.094.279 28.097 28.0057 28.0057 28.0057 28.0057 28.0057 28.0057 28.0057 28.0057 28.0057 28.0057
	Communication Communicatio	2.617.822 2.617.822 874 800.330 1.246.435 1.35.509.384 \$ 8 0.0534 \$ 8 5.342 \$	31,079 37,178 37,178 37,178 383,47 893,970 1813,144 178,887 178,887	1.31 2.55 2.55 2.55 3.55	2.817.013 2.817.013 1.630.831 3.860 2.881.686 111.02.805 4.518.436 4.518.436 4.518.436 4.518.436 5.804.655.237 5.806.5237 5.806.5237 5.806.5237	2.809.276 2.809.276 3.850 3.850 3.719.025 2.408.766 5.719.025 2.841.100 3.4502.100 \$ 0.0207 \$ 2.07.70	w v	₩ w w	w w	¢.	į	5	in land	28.094.229 3.065.279 12.879.289 42.169.863 380.842 380.842 38.042
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The control of the	225.75 46.124 76.426 77.446 77	500,930 1,246,435 \$ 135,509,354 \$ 0,053 \$ 5,053	141,444 993,970 163,144 778,857 56,832 \$ 18	255	2.681.686 11.140.805 4.518.436 165.029 \$ 56,455.038 \$ 0.0227 \$ 2.27	2.406.766 5.719.032 1.407.896 264.114 0.0207 20.70 \$	~ ~	W 60	22 2	- 20 0 0 - 20 20 20 20 20 20 20 20 20 20 20 20 20		\$ 12		3,402,977 25,251,683 98,420,600 7,869,652 1,207,202,808 0,0275
145.56 1.00	228.756 246.124 72.866 1200.102 72.866 1200.102 8 64.20 8 75.986.817 8 266.8 8 75.98 8 8 266.8 8 75.98 8 8 266.8 8 75.98 8 8 266.8 8 75.97 8 8 266.9 8 75.77 8 8 8 7.866.9 8 7 8 8 8 7.866.9 8 7 8 8 8 7.866.9 8 7 8 8 8 7.866.9 8 7 8 8 8 7.866.9 8 7 8 8 8 7.866.9 8 7	500.930 1.246.435 \$ 136.509.354 \$ 0.0534 \$ 53.42 \$	141,444 993,970 163,144 778,857 56,832 \$ 18	2.55	2.681.686 11.140.805 4.518.436 165.029 \$ 56,465.233 \$ 0.0227 \$ \$ 2.277	2,408,766 5,719,032 1,407,896 264,114 34,502,100 \$ 20,70 \$	w 0	W 60	22 2	- 20 0 0 - 20 20 20 20 20 20 20 20 20 20 20 20 20		\$ 12	w 2 4 2 2 2 2	3,402,977 25,251,683 98,420,600 43,444,510 7,659,652 1,207,202,806 0,0275
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This column	1.72 1.95 1.72 1.73 1.72 1.73 1.72 1.75	1,246,435 \$ 135,509,354 \$ \$ 0,0534 \$ \$ 53,42 \$	163.144 078.857 266.832 \$ 16	2.55 \$ 25,43 \$	4.518.436 165.029 \$ 56.456.233 \$ \$ 0.0227 \$ \$ 22.72 \$	1,407,896 264,114 34,502,100 \$ 0,0207 \$	vs vs	P 60	\$ 22	5 5 5		\$ 12		43,484,510 7,659,652 1,207,202,806 0,0275 27,48
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5 64/10/25 5 7/10/25 61/10/25 </td <td>\$ 6641 R23 \$ 32,791 850 \$ 631 CT CT</td> <td>\$ 135,509,354 \$ \$ 0.0534 \$ \$ 53.42 \$</td> <td>366,832 \$ 18</td> <td>\$ 25,43</td> <td>\$ 58,455,233 \$ \$ 0.0227 \$ \$ 22.72 \$</td> <td>34,502,100 \$ 0.0207 \$ 20.70 \$</td> <td>62,897,773 \$ 11</td> <td>w .</td> <td>\$ 222</td> <td>934,266 \$ 134,8</td> <td></td> <td>3.766 \$ 121,444,84</td> <td>\$ 32</td> <td>1,207,202,808 0,0275 27.48</td>	\$ 6641 R23 \$ 32,791 850 \$ 631 CT	\$ 135,509,354 \$ \$ 0.0534 \$ \$ 53.42 \$	366,832 \$ 18	\$ 25,43	\$ 58,455,233 \$ \$ 0.0227 \$ \$ 22.72 \$	34,502,100 \$ 0.0207 \$ 20.70 \$	62,897,773 \$ 11	w .	\$ 222	934,266 \$ 134,8		3.766 \$ 121,444,84	\$ 32	1,207,202,808 0,0275 27.48
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	TU per KWh Net Generation 10,977 51 7		•		10,622.48	11,373,20	10,127,79	10,572.03		7 240.43		•	Ξ	10 130 66
10077 AG 100 100 100 100 100 100 100 100 100 10	0 10077.45			ľ		11273 /81	40427 EAA	10577 107	l a	l,			,	

	1994	1995	1996	1997	1998	1999	2000	2001	2002		2004	2005	2006	2007	2008	2009	2010
Total Installed Cap (Max Gen Name Plate Ratings-MVV) Net Peak Demand on Plant - MVV (60 minutes)	5,817.8	5,817.9	5,817.9	5,840.9	5,840.9	5,840.9	6,056.5	7,115.8	7,473.8	6,414.4	6,414.7	6,713.1	6,987.5	7,547.6	8,067.6	8,029.5	8,030
Plant Hours Connected to Load Not Continued Close Connection Management	,			,					,		,	,	'	,	!		
When Not Limited by Condenser Water	5,382	5,413	5,463	5.463	5,463	5.577	5.607	6.579	6.895	5.936	5.939	5.927	6.466	7.025	7 545	7.359	7.389
When Limited by Condenser Water	, 750		, 60	, 444		* ***		, 100		, 000		,		, ,		, ,	' '
Net Generation, Exclusive of Plant Use - KWh	1	1		8.773.647.000 40	0.012 333 000 3	4		9.429 934 000	39.412.431.000 4			19 826 110 000 4	41 434 889 000 4			- [1,065
Cost of Plant: Land and Land Rights	1	1		77,188,084	77,048,486	77,205,274	77,207,453	77,187,978	77,187,978	77,591,267	78.424.036	81,820,513	85,049,078	112,259,118	112,259,397		114.231.898
Suddues and improvements Equipment Costs	2.186,255,002	2,462,321,650			2,582,973,057		2.670,909,020	605,314,530 2,698,300,693	2,803,548,198			3,131,068,392	3,549,190,130		730,016,703	774,032,004	855,533,853 5,036,290,895
Asset Retirement Costs		- 1	- 1							14,713,709	25,464,580	- 1			27,233,918	38,009,517	42,524,373
Cost nor KM of Inchalled Consorts (Augustana)	- 11	\$3,105,442,803	132,141,837	_ 1	\$3,255,323,549 \$	3,345,396,488 \$	3,350,750,825 \$	3,380,803,201	53,417,012,068 \$	\$3,590,502,869	53,651,288,891	\$3,895,817,745			\$4,904,481,290	5,443,814,447 \$	6,048,581,019
Operation Supervision and Engineering	13.040.414		11 865 167	12 486 830	11 778 383	14 517 752	12 016 521	24 041 062	6.378.045	21 140 832	16 787 228	19 022 509	21 757 097	20.461.015	50 127 526	677.98 \$	18 043 966
Fuel	397,146,324	390,982,280	368,184,241	359,920,216	390,891,857	349,278,865	383,087,306	426,343,339	406,266,631	403,878,274	405,711,002	410,538,370	507,035,877	773,344,246	938,040,068	932,341,037	924.279,486
Coolants and Water (Nuclear Plants Only)	, 000				, ,		1,855,148	' ;	' !			1		' !	,	1	
Steam Expenses	3.498.961	3 205 843	3.595.449	3 557 608	3.607.452	11,818,381	3,660,711	3,729,510	3.800.080	27.178.886	27,717,746	27,339,449	3 110 724	28,482,855	3 371 386	3 507 576	3.655.727
Steam Transferred (Cr)	,	1	,	,	'	*	,			4,095,133	1	201.13	,		,	1	,
Electric Expenses Miss Starm (or Nuclear) Downs Connected	12,833,606	13,936,681	12,476,758	12,437,085	12,566,682	10000000		906,265	10,057,556	4,811,416	4,344,300	6.999.879	8.269.009	16,599,354	13,890,502	11,993,094	12,379,283
Rents	44,387	43,786	43,977	51,095	7.748	336.551	76.142	284.413	1,448,094	22,131,889	19.097.929	17.860.455	14,308,984	11.695.063	4.865.996	36,812,851	360 842
Allowances		•					'	,	,	163	'	961	,		,	'	'
Maintenance Supervision and Engineering	14,141,462	15,403,674	12,497,327	13,191,596	10,797,185	•	1	12.017	2,657,470	4,547,876	4,443,113	3,942,988	4,197,374	3,329,271	2,953,110	2,944,555	3.402,977
Maintenance of Structures Maintenance of Roiler (or reactor) Plant	7,392,770	6,716,736	5,664,084	5,123,539	4,885,404	720 707 90	AA 6A7 A11	9,675,104	77,711,698	17,143,374	72 073 030	15,606,437	18,376,600	21,510,330	24,145,958	22,546,639	25.251.683
Maintenance of Electric Plant	11.144.299	9.991.667	8.664.854	10 214 165	8 020 408	9.844.477	9.585.951	17 481 181	73.974.081	28.062.004	26.315.211	30 989 626	33.396.215	34 208 089	32 494 830	46.354.486	43 484 510
Maintenance of Misc Steam (or Nuclear) Plant	9,734,006	9,485,964	12,791,757	12,406,369	13,661,685	14,105,456	23,453,100	17,020,828	6,505,925	7,247,939	6,698,283	6,837,390	8,252,761	8,364,067	7,700,243	8,088,736	7,659,652
Total Production Expenses	\$ 563,030,051	\$ 553,078,502 \$	\$ 520,751,248 \$	519,055,595 \$	11	512,422,862 \$	536,085,047 \$	627,473,177	\$ 611,250,895 \$	5 640,572,561	632,089,883	\$ 636,355,460 \$	\$ 752,460,650 \$	\$1,045,078,779 \$	1,188,044,444	1,198,793,661 \$	1,207,202,808
Expenses per Net KWh Total Bushar - \$78000	\$ 0.0137 \$	\$ 0.0137 \$	5 0.0132 \$	0.0134 \$	0.0135 \$	0.0129 \$	0.0130 \$	0.0159 \$	S 0.0155 S	0.0158	0.0158 \$	\$ 0.0160 \$	\$ 0.0182 \$	5 0.0227 \$	0.0250 \$	0.0264 \$	0.0275
Fuel - \$/MWh	5 9.67	5 67 9	933 8	9.28	9.77	8080	927 \$	10.01	10.31	9000	10.00	10.31	12.24 5	16.78 \$	19.77	20.33	21.04
Non-fuel - \$/MWh	\$ 4.04 \$	\$ 4.01	\$ 3.86 \$	4.10 \$	3.75 \$	4.11 \$	3.70 \$	5.10 \$	\$ 5.20 \$	5.85.5	5.66.5	\$ 5.67 \$	\$ 5.92 \$	5 5.90 \$	5.27	5.86.\$	6.44
Operations - \$/MWh	3 1.83	1.87	1.81	1.83	1.75 \$	2.83	1.82 \$	2.41 \$	2.08	2.67	2.48	\$ 2.19 \$	2.42 \$	2.61 \$	2.28	224 \$	2 38
Marriance - 2 MVVIII Variable O&M (per RDI definition) - \$AAVVIII	\$ 081	s 2.14 s 0.80	6 CU 2 S	0.82	0.75	0.82 \$	0.74 \$	1.02	2 7 2 2 2 1.03 \$		3.18	1.04 \$	351 5	3.29 3	1.03	362 \$	4 06 1.29
Fixed O&M (RDI definition) - \$/MWh	\$ 3.23	\$ 321	\$ 3.09	3.28 \$	3.00 \$	3.29 \$	2.96 \$	4.08	\$ 417 3	\$ 479	5 4.62 \$	\$ 4.63 \$	\$ 481 \$	5 4.77 \$	4 24 \$	4.69 \$	5.15
Lotal O&M without Fuel	\$ 165,883,727	\$ 162,096,222	\$ 152,567,007 \$	159,135,379 \$	150,073,054 \$	163,143,997 \$	152,997,741 \$	201,129,838	\$ 204,984,264 \$	\$ 236,694,287	226,378,881	\$ 225,817,090 \$	\$ 245,424,773	\$ 271,734,533 \$	250,004,376	266,452,624 \$	282,923,322
Unit (Coal-tons/Oil-barrel/Gas-mof/Nuclear-indicate)	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Quantity (units) of Fuel Burned	21,759,181	21,550,900	21,366,187	21,223,879	21,638,461	21,042,869	21,525,876	20,631,929	20,691,901	20.908.323	21,171,921	21,109,814	20,902,381	21,716,521	21,726,807	20,350,267	19,928,899
Avg Heat Cont - Fuel Burned (btu/indicate if nuclear) Avg Cost of Enathing as Dalvd for their sear	9,732.88	9,786.36	9,735.09	9,777,95	9,816,56	9,918,38	9,990.22	9,915.11	9,805,72	9,946.32	9,818,62	9,765.64	9,701.15	9,728.70	9,839,88	9,908.55	9,798,45
Average Cost of Fuel per Unit Burned	•	. ,								, ,			, ,	. ,	, ,		
Average Cost of Fuel Burned per Million BTU		•	1		٠			,	,		•			•	,	,	
Average Cost of rulei burned per Kwn ivet Gen Finel: Kind (Coal Gas, Oil or Muclear)	,	,	, 8	, .	, 6	, 60	,		,	, 8	,	,	,	, de	٠	, 80	
Unit (Coal-tons/Oil-barrel/Gas-mcf/Nuclear-indicate)	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MOF	MOF	MCF	MCF	MCF	MCF	MCF
Quantity (units) of Fuel Burned	8,532,359	8,608,833	2,071,956	2,306,320	3,861,639	4,669,333	9,460,287	12,083,567	12,885,537	13,023,482	8,952,892	8,627,688	22,963,190	49,658,631	52,592,199	54,737,426	51,674,992
Avg Heat Cont - Fuel Burned (bturingicate if nuclear) Avn Cost of Fuel/mit as Delvd to this over	1,045	ccn.r	1,022	1,032	1,044	1,038	1,049	1,053	1.051	1,052	1,055	1,049	1,053	1,045	1.048	1,041	1.043
Average Cost of Fuel per Unit Burned		, ,		, ,					. ,	. ,						. ,	. ,
Average Cost of Fuel Burned per Million BTU	i		r	1	,		1	ı	1	1	,		,	,	,	,	
Average Cost of Fuel Burned per KWh Net Gen	,		,	,	,		,				,	,	í	,	,	,	,
Tuel. Nind (Coal, Gas, Oil, of Nuclear) Unit (Coal,tone/Oil-barre//Sac-mof/Ninclear-indicate)	S state	Source Source	Barrele	S stands	5 1	5 4	D store	E desired	5 Journal	E started	5 Julia	5 402.00	5 James	ō take	5 day	D array	S Joseph
Quantity (units) of Fuel Burned	61.468	63,653	67,046	59.052	67,745	69.411	74,460	90,853	81,759	68,608	88,596	74.628	72.636	79.281	59,577	74,473	103,739
Avg Heat Cont - Fuel Burned (btw/indicate if nuclear)	140,252	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,513	140,000	140,000	140,000	140,000	140,000	140,000	140,000	138,000
Avg Cost of Fuelfunit, as Delvd Lo.b. during year Average Cost of Final per Linit Burnard	, ,					,									,		
Average Cost of Fuel Burned per Million BTU	,	. ,									, ,	. ,	. ,				
Average Cost of Fuel Burned per KWh Net Gen	,		,	ŀ			,		,	٠	,		,	,	4	ı	
Average BTU per KWh Net Generation	10,535.35	10,661.46	10,601.14	10,774.85	10,728.20	10,645.36	10,661.45	10,712.52	10,651.89	10,633.58	10,639.56	10,590.91	10,381.65	10,303.56	10,182.68	10,127.33	10,130.66



Carbon Plant Heat Rate Improvement Plan Car_2011_HRIP

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1. Revision History

Version	Status	Author	Reason for Issue	Date
1			2011 Plan Issue	April 30, 2011

2. Revision Control

This document is maintained by the PacifiCorp Energy Asset Management group.

3. Glossary of Terms

3.1. Actual Net Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual net generation.

3.2. As-built Net Heat Rate (Btu/kWh)

Total guaranteed heat input, from the design heat balances in Btu's divided by the guaranteed net generation, corrected for changes in equipment from design. This is the baseline number for the plant personnel when they make their annual reconciliation.

3.3. British thermal unit (Btu)

British thermal unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

3.4. Gross Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual gross generation.

3.5. Net Generation (kWh)

Gross generation minus auxiliary or station usage

3.6. Planned Net Heat Rate (Btu/kWh)

Total budgeted heat input in Btu's divided by the budgeted net generation. This number is the annual goal for the plant personnel to achieve.

4. Overall Plan and Objectives

4.1. Unit 1- Goals for 10-year plan

Figure 1, in the appendix, shows the ten-year heat rate plan for Carbon unit 1. The dips in the Planned Net Heat Rate in the years 2009, 2014 and 2018 are due to the work that is scheduled to take place during the planned outages in 2009, 2013 and 2017 (see section 7).

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4.2. Unit 2 - Goals for 10-year Plan

Figure 2, in the appendix, shows the ten-year heat rate plan for Carbon unit 2. The dip in the Planned Net Heat Rate in the year 2008 is due to the work that occurred during the planned outages in 2008. There are only small fluctuations in the unit heat rate in other years that will be the result of smaller overhaul projects (see section 7).

5. Performance against last year's plan

5.1. Unit 1

Planned Net Heat Rate			12,261
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	34	49	15
Turbine Losses	813	(207)	(1020)
Other Losses	60	(70)	(130)
Actual Net Heat Rate			11,127

Negative numbers in the table above are improvements to heat rate.

5.2. Unit 2

Planned Net Heat Rate			11,170
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	42	79	37
Turbine Losses	1,138	903	(235)
Other Losses	49	(8)	(57)
Actual Net Heat Rate		·	10,914

Negative numbers in the table above are improvements to heat rate.

6. Major Losses for Current Planned Net Heat Rate

This section of the heat rate plan identifies the reconciliation of the items that have the most impact between the As-built Net Heat Rate and the Planned Net Heat Rate.

6.1. Unit 1

As-Built Net Heat Rate	11,354
Boiler Losses	9
Turbine Losses	733
Other Losses	-62
Planned Net Heat Rate	12,034

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6.2. Unit 2

As-Built Net Heat Rate	9,941
Boiler Losses	92
Turbine Losses	1,211
Other Losses	140
Planned Net Heat Rate	11,384

7. Major Unit Specific Initiatives

This section identifies the major planned capital and operational activities to improve or regain lost heat rate for the current 10-year plan.

7.1. Unit 1

Table 1 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

7.2. Unit 2

Table 2 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

8. Annual Review and Update

This plan will be reviewed and updated annually by the Carbon plant management team by April 30.

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9. Appendix

Figure 1 Carbon Unit 1 10-year Plan Heat Rate Goals

Carbon 1

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate,	44.054	44.054	44.054	44.054	44.054	44.054	44.054	44.054	44.054	44.054	44.054	44.054	44.054	44.054	44.054
Btu/Kwh Planned Net Heat Rate 2011,	11,354	11,354	11,354	11,354	11,354	11,354	11,354	11,354	11,354	11,354	11,354	11,354	11,354	11,354	11,354
Btu/Kwh	11,650	12,757	12,189	11,799	12,261	12,041	12,582	12,782	12,542	10,800	11,800	12,895	13,489	13,203	13,809
Actual Net Heat Rate, Btu/Kwh	11,449	12,030	11,754	11,370	11,416										
Capacity Factor 2011, %	88.5%	89.0%	86.0%	75.1%	90.4%	70.8%	67.3%	63.1%	69.9%	68.7%	66.0%	56.8%	58.2%	56.8%	57.6%

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Figure 2 Carbon Unit 2 10-year Plan Heat Rate Goals

Carbon 2

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
As-Built Net Heat Rate, Btu/Kwh Planned Net Heat Rate 2011,	9,941	9,941	9,941	9,941	9,941	9,941	9,941	9,941	9,941	9,941	9,941	9,941	9,941	9,941	9,941	
Btu/Kwh	11,420	11,065	10,776	11,169	11,170	11,269	11,422	11,852	11,827	10,603	11,094	11,574	11,564	11,539	12,047	
Actual Net Heat Rate, Btu/Kwh	11,204	11,269	11,482	11,116												
Capacity Factor 2011, %	86.3%	84.9%	74.3%	84.4%	89.0%	82.6%	69.9%	80.6%	80.5%	75.6%	68.0%	73.2%	69.2%	67.7%	66.1%	

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Table 1 Carbon Unit 1 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
CY2009 Air Heater Partial Basket Replacement (hot end)	Btu/kWh	-28	-25	-22	-19	-16	-13	-10	-7	-4	-4
Retube Condenser CY2009	Btu/kWh	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50
Total adjustments related to Capital Projects	Btu/kWh	-78	-75	-72	-69	-66	-63	-60	-57	-54	-54
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	-35	-34	-32	-31	-30	-28	-27	-26	-24	-24
Replacement Plan for Air Heater Seals	KW	62	83	21	42	62	83	83	83	83	83
Mercury Capture (2017 -0.1 MW)	KW							100	100	100	100
Total Auxiliary Load Changes	KW	27	49	-12	10	33	55	156	157	159	159
-					•						
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
	MW										
Total Capacity Changes	MW	0	0	0	0	0	0	0	0	0	0

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Table 2 Carbon Unit 2 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
CY2008 overhaul Air Heater Basket Replacement (hot and cold)	Btu/kWh	-18	-15	-12	-9	-6	-30	-30	-30	-30	-30
Total adjustments related to Capital Projects	Btu/kWh	-18	-15	-12	-9	-6	-30	-30	-30	-30	-30
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	-11	Ġ.	8-	-6	-4	-19	-19	-19	-19	-19
Replacement Plan for Air Heater Seals	KW	41	-21	0	21	41	-21	-21	-21	-21	-21
Mercury Capture (2018 -0.1 MW)	KW								100	100	100
Total Auxiliary Load Changes	KW	30	-30	-8	15	37	-40	-40	60	60	60
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
	MW										
Total Capacity Changes	MW	0	0	0	0	0	0	0	0	0	0

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10. Required Signatures

Performance Eng	April Hayne	es		
Signature:	{on file]		Date:	4/15/11
		T		
Manager, Engine	ering – Carbon Plant			
Signature:			Date:	
Managing Directo	th			
Signature:	{on file}		Date:	4/15/11

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Dave Johnston Plant Heat Rate Improvement Plan DJ_2011_HRIP

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1. Revision History

Version	Status	Author	Reason for Issue	Date
1			2010 Plan Issue	April 30, 2011

2. Revision Control

This document is maintained by the PacifiCorp Energy Asset Management group.

3. Glossary of Terms

3.1. Actual Net Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual net generation.

3.2. As-built Net Heat Rate (Btu/kWh)

Total guaranteed heat input, from the design heat balances in Btu's divided by the guaranteed net generation, corrected for changes in equipment from design. This is the baseline number for the plant personnel when they make their annual reconciliation.

3.3. British thermal unit (Btu)

British thermal unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

3.4. Gross Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual gross generation.

3.5. Net Generation (kWh)

Gross generation minus auxiliary or station usage

3.6. Planned Net Heat Rate (Btu/kWh)

Total budgeted heat input in Btu's divided by the budgeted net generation. This number is the annual goal for the plant personnel to achieve.

4. Overall Plan and Objectives

4.1. Unit 1- Goals for 10-year plan

Figure 1, in the appendix, shows the ten-year heat rate plan for Dave Johnston unit 1. The dips in the Planned Net Heat Rate in the years 2013 and 2018 are due to the work that is scheduled to take place during the planned outages in 2013 and 2018 (see section 7).

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4.2. Unit 2 - Goals for 10-year Plan

Figure 2, in the appendix, shows the ten-year heat rate plan for Dave Johnston unit 2. The dips in the Planned Net Heat Rate in the years 2012 and 2017 are due to the work that is scheduled to take place during the planned outages in 2012 and 2017 (see section 7).

4.3. Unit 3 - Goals for 10-year Plan

Figure 3, in the appendix, shows the ten-year heat rate plan for Dave Johnston unit 3. The dips in the Planned Net Heat Rate in the years 2010, 2014, and 2018 are due to the work that is scheduled to take place during the planned outages in 2010, 2014 and 2018 (see section 7).

4.4. Unit 4 - Goals for 10-year Plan

Figure 4, in the appendix, shows the ten-year heat rate plan for Dave Johnston unit 4. The dips in the Planned Net Heat Rate in the years 2012 and 2016 are due to the work that is scheduled to take place during the planned outages in 2012 and 2016 (see section 7).

5. Performance against last year's plan

5.1. Unit 1

Planned Net Heat Rate			11,106
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	(9)	6	15
Turbine Losses	619	929	310
Other Losses	106	220	114
Actual Net Heat Rate			11,545

Negative numbers in the table above are improvements to heat rate.

5.2. Unit 2

Planned Net Heat Rate			11,038
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	14	46	32
Turbine Losses	598	659	61
Other Losses	37	236	199
Actual Net Heat Rate			11,330

Negative numbers in the table above are improvements to heat rate.

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5.3. Unit 3

Planned Net Heat Rate			11,473
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	31	(45)	(76)
Turbine Losses	580	177	(403)
Nother Losses	355	633	278
Actual Net Heat Rate			11,272

ative numbers in the table above are improvements to heat rate.

5.4. Unit 4

Planned Net Heat Rate			10,459
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	(64)	13	77
Turbine Losses	416	714	298
Other Losses	(135)	117	252
Actual Net Heat Rate			11,085

Negative numbers in the table above are improvements to heat rate.

6. Major Losses for Current Planned Net Heat Rate

This section of the heat rate plan identifies the reconciliation of the items that have the most impact between the As-built Net Heat Rate and the Planned Net Heat Rate.

6.1. Unit 1

As-Built Net Heat Rate	10,390
Boiler Losses	-7
Turbine Losses	604
Other Losses	70
Planned Net Heat Rate	11,057

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6.2. Unit 2

As-Built Net Heat Rate	10,389
Boiler Losses	16
Turbine Losses	633
Other Losses	46
Planned Net Heat Rate	11,083

6.3. Unit 3

As-Built Net Heat Rate	10,507
Boiler Losses	30
Turbine Losses	398
Other Losses	426
Planned Net Heat Rate	11,362

6.4. Unit 4

As-Built Net Heat Rate	10,242
Boiler Losses	-65
Turbine Losses	599
Other Losses	-203
Planned Net Heat Rate	10,574

7. Major Unit Specific Initiatives

This section identifies the major planned capital and operational activities to improve or regain lost heat rate for the current 10-year plan.

7.1. Unit 1

Table 1 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

7.2. Unit 2

Table 2 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

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7.3. Unit 3

Table 3 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

7.4. Unit 4

Table 4 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

8. Annual Review and Update

This plan will be reviewed and updated annually by the Dave Johnston plant management team by March 31.

9. Appendix

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Figure 1 Dave Johnston Unit 1 10-year Plan Heat Rate Goals

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh	10,390	10,389	10,390	10,389	10,390	10,390	10,390	10,390	10,390	10,390	10,390	10,390	10,399	10,399	10,399
Planned Net Heat Rate 2011, Btu/Kwh	11,090	11,201	11,061	10,971	11,106	11,059	11,103	10,948	10,784	10,840	10,910	10,942	11,151	11,069	11,106
Actual Net Heat Rate, Btu/Kwh	11,020	11,156	11,610	11,454	11,574										
Capacity Factor 2011, %	90.6%	87.7%	79.0%	89.2%	90.2%	83.5%	83.7%	76.3%	84.7%	85.1%	85.5%	86.1%	80.5%	90.8%	90.3%

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Figure 2 Dave Johnston Unit 2 10-year Plan Heat Rate Goals

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh	10,390	10,371	10,390	10,384	10,389	10,389	10,389	10,389	10,389	10,389	10,389	10,398	10,398	10,398	10,398
Planned Net Heat Rate 2011, Btu/Kwh	11,090	10,804	10,959	10,987	11,038	11,085	11,001	10,513	10,553	10,702	10,764	10,749	10,893	10,923	10,952
Actual Net Heat Rate, Btu/Kwh	11,169	10,987	11,421	11,528	11,355										
Capacity Factor 2011, %	88.9%	78.9%	82.7%	92.6%	91.3%	83.5%	75.6%	84.6%	84.7%	85.1%	85.5%	76.1%	92.3%	91.2%	90.1%

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Figure 3
Dave Johnston Unit 3
10-year Plan Heat Rate Goals

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh	10,490	10,488	10,490	10,490	10,506	10,694	10,694	10,694	10,505	10,504	10,504	10,504	10,504	10,504	10,504
Planned Net Heat Rate 2011, Btu/Kwh	11,200	11,171	11,335	11,476	11,473	11,364	11,321	11,072	11,136	11,142	11,206	11,179	11,420	11,165	11,429
Actual Net Heat Rate, Btu/Kwh	11,487	11,447	11,058	11,472	11,237										
Capacity Factor 2011, %	89.8%	88.4%	92.2%	88.1%	75.0%	83.5%	83.7%	84.6%	74.3%	81.3%	81.7%	82.3%	82.1%	90.1%	89.7%

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Figure 4
Dave Johnston Unit 4
10-year Plan Heat Rate Goals

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh	10,252	10,252	10,252	10,245	10,242	10,242	10,249	10,253	10,254	10,254	10,254	10,254	10,254	10,254	10,254
Planned Net Heat Rate 2011, Btu/Kwh	11,080	11,062	10,758	10,563	10,459	10,576	10,612	10,145	10,282	10,431	10,383	10,371	10,572	10,510	10,757
Actual Net Heat Rate, Btu/Kwh	11,263	11,233	11,418	11,318	11,088										
Capacity Factor 2011, %	82.3%	83.9%	81.2%	57.1%	89.0%	83.5%	74.5%	85.7%	85.8%	86.3%	78.2%	87.2%	89.7%	89.8%	79.4%

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Table 1
Dave Johnston Unit 1
10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
	Btu/kWh										
Total adjustments related to Capital Projects	Btu/kWh	0	0	0	0	0	0	0	0	0	0
Budgeted / Planned Auxiliary Load Changes											
Hg Capture (100 kw in 2018)	KW								100	100	100
Total Auxiliary Load Changes	KW	0	0	0	0	0	0	0	100	100	100
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
	MW										
Total Capacity Changes	MW	0	0	0	0	0	0	0	0	0	0

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Table 2
Dave Johnston Unit 2
10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
Pulverizer/PA Fan Controls Replace - (2008)	Btu/kWh	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
Total adjustments related to Capital Projects	Btu/kWh	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13
Hg Capture (100 kw in 2017)	KW							100	100	100	100
Total Auxiliary Load Changes	KW	-13	-13	-13	-13	-13	-13	87	87	87	87
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
	MW										
Total Capacity Changes	MW	0	0	0	0	0	0	0	0	0	0

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Table 3
Dave Johnston Unit 3
10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)		2011	2012	2010	2011	2010	20.0	2011	2010	2010	2020
3C Mill PA Flow indication 2010	Btu/kWh	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Clean Air Initiative - DFGD (85%) LNB	Btu/kWh	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6
Total adjustments related to Capital Projects	Btu/kWh	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	367	367	367	367	367	367	367	367	367	367
Total Auxiliary Load Changes	KW	367	367	367	367	367	367	367	367	367	367
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Clean Air Initiative - DFGD (85%) LNB	MW	-4.21	-4.21	-4.21	-4.21	-4.21	-4.21	-4.21	-4.21	-4.21	-4.21
Unit Rerated after Environmental Projects (2014 +10MWn)	MW				10	10	10	10	10	10	10
Total Capacity Changes	MW	-4.21	-4.21	-4.21	5.79	5.79	5.79	5.79	5.79	5.79	5.79

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Table 4
Dave Johnston Unit 4
10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
Digital Control System	Btu/kWh	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70
FW Heater Level Controls Replace	Btu/kWh	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
AH Basket Replacement	Btu/kWh	-25	-20	-20	-10	-10					
AH Sootblowers	Btu/kWh	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
Clean Air Initiative - DFGD (90%), BH, LNB	Btu/kWh		92.1	138.1	138.1	138.1	138.1	138.1	138.1	138.1	138.1
Total adjustments related to Capital Projects	Btu/kWh	-125	-28	18.1	28.1	28.1	38.1	38.1	38.1	38.1	38.1
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	-321	-72	46	72	72	98	98	98	98	98
Total Auxiliary Load Changes	KW	-321	-72	46	72	72	98	98	98	98	98
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											

Rating Changes, (Net Basis)											
Clean Air Initiative - DFGD (90%), BH, LNB	MW		-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
Total Capacity Changes	MW	0	-4	-4	-4	-4	-4	-4	-4	-4	-4

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10. Required Signatures

Performance Eng	ineer – Dave Johnston Plant	Teresa Jorris				
Signature:	{ signature on file }		Date:	30Apr11		
Engineering Man	ager – Dave Johnston Plant					
Signature:			Date:			
Managing Directo	or, Acting – Dave Johnston Plant					
Signature:	{ signature on file }		Date:	30Apr11		

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1. Revision History

Version	Status	Author	Reason for Issue	Date
1			2011 Plan Issue	April 30, 2011
		_		

2. Revision Control

This document is maintained by the PacifiCorp Energy Asset Management group.

3. Glossary of Terms

3.1. Actual Net Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual net generation.

3.2. As-built Net Heat Rate (Btu/kWh)

Total guaranteed heat input, from the design heat balances in Btu's divided by the guaranteed net generation, corrected for changes in equipment from design. This is the baseline number for the plant personnel when they make their annual reconciliation.

3.3. British thermal unit (Btu)

British thermal unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

3.4. Gross Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual gross generation.

3.5. Net Generation (kWh)

Gross generation minus auxiliary or station usage

3.6. Planned Net Heat Rate (Btu/kWh)

Total budgeted heat input in Btu's divided by the budgeted net generation. This number is the annual goal for the plant personnel to achieve.

4. Overall Plan and Objectives

4.1. Unit 1- Goals for 10-year plan

Figure 1, in the appendix, shows the ten-year heat rate plan for Huntington unit 1. The dips in the Planned Net Heat Rate in the years 2011 and 2015 are due to the work that is scheduled to take place during the planned outages in 2010 and 2014 (see section 7).

4.2. Unit 2- Goals for 10-year plan

Figure 2, in the appendix, shows the ten-year heat rate plan for Huntington unit 2. The dips in the Planned Net Heat Rate in the years 2012 and 2016 are due to the work that is scheduled to take place during the planned outages in 2011 and 2015 (see section 7).

5. Performance against last year's plan

5.1. Unit 1

Planned Net Heat Rate			10,110
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	111	165	54
Turbine Losses	218	219	1
Other Losses	(10)	172	182
Actual Net Heat Rate			10,347

Negative numbers in the table above are improvements to heat rate.

5.2. Unit 2

Planned Net Heat Rate			10,101
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	124	58	(66)
Turbine Losses	241	624	383
Other Losses	35	189	154
Actual Net Heat Rate			10,572

Negative numbers in the table above are improvements to heat rate.

6. Major Losses for Current Planned Net Heat Rate

This section of the heat rate plan identifies the reconciliation of the items that have the most impact between the As-built Net Heat Rate and the Planned Net Heat Rate.

6.1. Unit 1

As-Built Net Heat Rate	9,791
Boiler Losses	117
Turbine Losses	187
Other Losses	-520
Planned Net Heat Rate	9,576

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6.2. Unit 2

As-Built Net Heat Rate	9,702
Boiler Losses	109
Turbine Losses	249
Other Losses	37
Planned Net Heat Rate	10,096

7. Major Unit Specific Initiatives

This section identifies the major planned capital and operational activities to improve or regain lost heat rate for the current 10-year plan.

7.1. Unit 1

Table 1 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

7.2. Unit 2

Table 2 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

8. Annual Review and Update

This plan will be reviewed and updated annually by the Huntington plant management team by April 30.

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9. Appendix

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Figure 1 Huntington Unit 1 10-year Plan Heat Rate Goals

Huntington 1

									. J						
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh	9.793	9.787	9.794	9.794	9,791	9,793	9,793	9,793	9,793	9,791	9,791	9,791	9.791	9.791	9.791
Planned Net Heat Rate	0,700	0,707	0,701	0,701	0,701	0,700	0,700	0,700	0,700	0,701	0,701	0,701	0,701	0,701	0,701
2011, Btu/Kwh	10,320	10,026	10,177	10,143	10,110	9,569	9,655	9,786	9,824	9,554	9,561	9,626	9,725	9,601	9,615
Actual Net Heat Rate, Btu/Kwh	9,573	9,935	9,993	10,020	10,347										
Capacity Factor 2011, %	89.3%	89.3%	89.3%	85.4%	72.1%	76.5%	89.4%	88.6%	87.5%	77.2%	92.8%	91.5%	90.0%	79.1%	91.7%

Figure 2 Huntington Unit 2 10-year Plan Heat Rate Goals

Huntington 2

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh	9.701	9.742	9.701	9,702	9,702	9,701	9,702	9,702	9,702	9.701	9,692	9,692	9,692	9.692	9,692
Planned Net Heat Rate	5,701	0,142	0,701	0,702	0,702	3,701	0,702	0,702	0,702	3,701	0,002	0,002	0,002	0,002	0,002
2011, Btu/Kwh	10,140	10,753	10,078	10,075	10,101	10,060	10,080	10,260	10,313	10,042	9,663	9,728	9,765	9,781	9,816
Actual Net Heat Rate,	0.774	40.044	0.040	40.004	40.570										
Btu/Kwh	9,774	10,214	9,940	10,034	10,573										
Capacity Factor 2011, %	67.1%	93.7%	94.6%	87.4%	88.0%	91.9%	89.9%	88.8%	77.9%	92.7%	91.5%	90.5%	81.3%	91.6%	92.9%

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Table 1 Huntington Unit 1 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
3 Feedwater Heater Replacement (2010)	Btu/kWh	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Cooling Tower Fill (2010)	Btu/kWh	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Air Heater Basket Replacements (2010)	Btu/kWh	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80
Scrubber Wet Stack Conversion (Aux steam reheat)(2010)	Btu/kWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75
Steam Air Heaters (est)(2011)	Btu/kWh	120	120	120	120	120	120	120	120	120	120
Dense Pack Turbine	Btu/kWh	-350	-350	-350	-350	-350	-350	-350	-350	-350	-350
Low NOX Burners (LOI effect)	Btu/kWh	50	50	50	50	50	50	50	50	50	50
Total adjustments related to Capital Projects	Btu/kWh	-355	-355	-355	-355	-355	-355	-355	-355	-355	-355
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	-14	-14	-14	-14	-126	-126	-126	-126	-126	-126
Total Auxiliary Load Changes	KW	-14	-14	-14	-14	-126	-126	-126	-126	-126	-126
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Clean Air Initative Additions (1.48MW 2010)	MW	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48
Turbine upgrade Dense Pack (18nMW 2010)	MW	18	18	18	18	18	18	18	18	18	18
Total Capacity Changes	MW	17	17	17	17	17	17	17	17	17	17

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Table 2 Huntington Unit 2 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
Cooling Tower Fill	Btu/kWh	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Air Heater Basket Replacements (2011)	Btu/kWh		-80	-80	-80	-80	-80	-80	-80	-80	-80
Steam Air Heaters (2011)	Btu/kWh		120	120	120	120	120	120	120	120	120
2 LP FWHeaters (2015)	Btu/kWh					-5	-5	-5	-5	-5	-5
Dense Pack Turbine	Btu/kWh					-62	-373	-373	-373	-373	-373
Total adjustments related to Capital Projects	Btu/kWh	-10	30	30	30	-37	-348	-348	-348	-348	-348
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	-25	62	62	62	62	-37	-37	-37	-37	-37
Complete Unit 1 & 2 BA Drag Chain Conveyor (eliminate ash water pumps)(2011)	KW					-73	-440	-440	-440	-440	-440
Total Auxiliary Load Changes	KW	-25	62	62	62	-11	-477	-477	-477	-477	-477
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Turbine upgrade Dense Pack (18nMW 2019)	MW					18	18	18	18	18	18
Total Capacity Changes	MW	0	0	0	0	18	18	18	18	18	18

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10. Required Signatures

Performance Eng	Ron Hall								
Signature:	(on file)		Date:	15Apr11					
Manager, Enginee	erich								
Signature:	(on file)		Date:	15Apr11					
Managing Directo	or – Huntington Plant	DJ Cunning	ham						
Signature:	(on file)		Date:	15Apr11					



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1. Revision History

Version	Status	Author	Reason for Issue	Date
1			2011 Plan Issue	April 30, 2011

2. Revision Control

This document is maintained by the PacifiCorp Energy Asset Management group.

3. Glossary of Terms

3.1. Actual Net Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual net generation.

3.2. As-built Net Heat Rate (Btu/kWh)

Total guaranteed heat input, from the design heat balances in Btu's divided by the guaranteed net generation, corrected for changes in equipment from design. This is the baseline number for the plant personnel when they make their annual reconciliation.

3.3. British thermal unit (Btu)

British thermal unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

3.4. Gross Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual gross generation.

3.5. Net Generation (kWh)

Gross generation minus auxiliary or station usage

3.6. Planned Net Heat Rate (Btu/kWh)

Total budgeted heat input in Btu's divided by the budgeted net generation. This number is the annual goal for the plant personnel to achieve.

4. Overall Plan and Objectives

4.1. Unit 1- Goals for 10-year plan

Figure 1, in the appendix, shows the ten-year heat rate plan for Hunter unit 1. The dips in the Planned Net Heat Rate in the years 2011 and 2015 are due to the work that is scheduled to take place during the planned outages in 2010 and 2014 (see section 7).

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4.2. Unit 2 - Goals for 10-year Plan

Figure 2, in the appendix, shows the ten-year heat rate plan for Hunter unit 2. The dips in the Planned Net Heat Rate in the years 2012 and 2016 are due to the work that is scheduled to take place during the planned outages in 2011 and 2015 (see section 7).

4.3. Unit 3 - Goals for 10-year Plan

Figure 3, in the appendix, shows the ten-year heat rate plan for Hunter unit 3. The dips in the Planned Net Heat Rate in the years 2013 and 2017 are due to the work that is scheduled to take place during the planned outages in 2012 and 2016 (see section 7).

5. Performance against last year's plan

5.1. Unit 1

Planned Net Heat Rate			10,125
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	162	7	(155)
Turbine Losses	288	263	(25)
Other Losses	(170)	511	681
Actual Net Heat Rate			10,625

Negative numbers in the table above are improvements to heat rate.

5.2. Unit 2

Planned Net Heat Rate			10,681
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	267	145	(122)
Turbine Losses	519	906	387
Other Losses	56	437	381
Actual Net Heat Rate			11,327

Negative numbers in the table above are improvements to heat rate.

5.3. Unit 3

Planned Net Heat Rate			10,238
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	211	150	(61)
Turbine Losses	402	234	(168)
Other Losses	50	166	116
Actual Net Heat Rate			10,126

Negative numbers in the table above are improvements to heat rate.

6. Major Losses for Current Planned Net Heat Rate

This section of the heat rate plan identifies the reconciliation of the items that have the most impact between the As-built Net Heat Rate and the Planned Net Heat Rate.

6.1. Unit 1

As-Built Net Heat Rate	9,843
Boiler Losses	190
Turbine Losses	289
Other Losses	(84)
Planned Net Heat Rate	10,238

6.2. Unit 2

As-Built Net Heat Rate	9,839
Boiler Losses	165
Turbine Losses	323
Other Losses	96
Planned Net Heat Rate	10,423

6.3. Unit 3

As-Built Net Heat Rate	9,576
Boiler Losses	235
Turbine Losses	508
Other Losses	118
Planned Net Heat Rate	10,437

7. Major Unit Specific Initiatives

This section identifies the major planned capital and operational activities to improve or regain lost heat rate for the current 10-year plan.

7.1. Unit 1

Table 1 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

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7.2. Unit 2

Table 2 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

7.3. Unit 3

Table 3 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

8. Annual Review and Update

This plan will be reviewed and updated annually by the Hunter plant management team by April 30.

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9. Appendix

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Figure 1 Hunter Unit 1 10-year Plan Heat Rate Goals

Hunter 1

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh	9,846	9,846	9,846	9,846	9,845	9,844	9,844	9,844	9,845	9,846	9,846	9,846	9,846	9,846	9,846
Planned Net Heat Rate 2011, Btu/Kwh	10,720	10,675	10,758	10,762	10,125	10,238	10,398	10,506	10,502	10,363	10,419	10,443	10,227	10,230	10,302
Actual Net Heat Rate, Btu/Kwh	10,697	10,656	11,042	10,993	10,625										
Capacity Factor 2011, %	91.1%	85.9%	88.1%	84.5%	75.5%	89.6%	85.4%	84.2%	71.0%	90.6%	90.5%	89.7%	81.7%	90.2%	90.0%

Figure 2
Hunter Unit 2
10-year Plan Heat Rate Goals

Hunter 2 2007 2008 2009 2010 2011 2012 2013 2014 2016 2017 2019 2020 2006 2015 2018 Year As-Built Net Heat Rate, Btu/Kwh 9,839 9,839 9,839 9,839 9,839 9,839 9,840 9,840 9,840 9,840 9,840 9,840 9,840 9,842 9,842 Planned Net Heat Rate 2011, Btu/Kwh 10,570 10,463 10,558 10,607 10,681 10,423 10,233 10,345 10,435 10,164 10,224 10,255 10,308 10,134 10,170 Actual Net Heat Rate, Btu/Kwh 10,636 10,198 10,817 11,117 11,327 Capacity Factor 2011, % 80.4% 90.6% 89.7% 84.1% 88.9% 73.0% 87.9% 86.8% 86.0% 84.2% 90.9% 89.4% 88.9% 82.1% 90.9%

Figure 3
Hunter Unit 3
10-year Plan Heat Rate Goals

							Hunt	ter 3							
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh	9,576	9,572	9,576	9,576	9,576	9,575	9,574	9,574	9,574	9,574	9,574	9,574	9,574	9,574	9,574
Planned Net Heat Rate 2011, Btu/Kwh	10,300	10,141	10,098	10,178	10,238	10,437	10,101	10,156	10,190	10,232	10,088	10,142	10,171	10,221	10,093
Actual Net Heat Rate, Btu/Kwh	10,318	10,123	10,275	10,335	10,126										
Capacity Factor 2011, %	85.2%	81.3%	88.4%	81.2%	89.6%	82.6%	73.5%	84.1%	82.0%	87.1%	82.4%	87.9%	86.2%	86.0%	79.8%

Table 1 Hunter Unit 1 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvemen	ts are nega	ative)									
Plant controls replacement/Optimization systems in place	Btu/kWh	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Feedwater Heater ReplacementHP FWH's	Btu/kWh	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16
Air Preheater basket and seal replacement	Btu/kWh	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
HP/IP Turbine Upgrade	Btu/kWh	-374	-374	-374	-374	-374	-374	-374	-374	-374	-374
Clean air initiative: Baghouse installation, wet stack	Btu/kWh				21	32	32	32	32	32	32
Total adjustments related to Capital Projects	Btu/kWh	-408	-408	-408	-387	-376	-376	-376	-376	-376	-376
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate											
Changes	KW	-100	-100	-100	-37	-6	-6	-6	-6	-6	-6
Total Auxiliary Load Changes	KW	-100	-100	-100	-37	-6	-6	-6	-6	-6	-6
Budgeted / Planned Net Dependable Rating Changes, (Net											
Basis)											
Clean air initiative: wet stack & baghouse	MW	0	0	0	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5
HP/IP/LP Turbine Upgrade	MW	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Total Capacity Changes	MW	17	17	17	16	16	16	16	16	16	16

Table 2 Hunter Unit 2 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvement	nts are nega	ative)									
Plant controls replacement/Optimization system in place	Btu/kWh	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Air Preheater Basket Replacement	Btu/kWh	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
Turbine Upgrade DensePack	Btu/kWh	-249	-374	-374	-374	-374	-374	-374	-374	-374	-374
Clean air initiative - Baghouse installation, wet stack	Btu/kWh	23	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
Clean air initiative - SCR	Btu/kWh									36	36
Total adjustments related to Capital Projects	Btu/kWh	-234	-358	-358	358	-358	-358	-358	-358	-322	-322
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	12	43	43	43	43	43	43	43	143	143
Total Auxiliary Load Changes	KW	12	43	43	43	43	43	43	43	143	143
•						•		•		•	
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Clean air initiative: Baghouse, wet stack	MW	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48	-1.48
Turbine Upgrade DensePack	MW	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Clean air initiative - SCR	MW									-2.4	-2.4
Total Capacity Changes	MW	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	13.16	13.16

Table 3
Hunter Unit 3
10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvement	nts are nega	itive)									
Cooling tower replacement	Btu/kWh						-20	-20	-20	-20	-20
Feedwater Htr replacement - HP	Btu/kWh	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Turbine Upgrade DensePack	Btu/kWh		-284	-378	-378	-378	-378	-378	-378	-378	-378
CAI work (SCR)	Btu/kWh						0	0	0	0	0
Total adjustments related to Capital Projects	Btu/kWh	-10	-294	-388	-388	-388	-408	-408	-408	-408	-408
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate											
Changes	KW	-29	-86	-86	-86	-86	-86	-86	-86	-86	-86
Total Auxiliary Load Changes	KW	-29	-86	-86	-86	-86	-86	-86	-86	-86	-86
Budgeted / Planned Net Dependable Rating Changes, (Net											
Basis)											
Turbine Upgrade DensePack	MW		19	19	19	19	19	19	19	19	19
CAI work (SCR)	MW		0	0	0	0	0	0	0	0	0
Total Capacity Changes	MW	0	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9

10. Required Signatures

Performance Eng	t					
Signature:	(on file)		Date:	30Mar10		
				1		
Manager, Engine	0					
Signature:	(on file)		Date:	<mark>30Mar10</mark>		
Managing Directo	Laren Hunts	intsman				
Signature:	(on file)		Date:	31Mar10		

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Jim Bridger Plant Heat Rate Improvement Plan JB_2011_HRIP

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1. Revision History

Version	Status	Author	Reason for Issue	Date
1			Original Submittal	April 30, 2011

2. Revision Control

This document is maintained by the PacifiCorp Energy Asset Management group.

3. Glossary of Terms

3.1. Actual Net Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual net generation.

3.2. As-built Net Heat Rate (Btu/kWh)

Total guaranteed heat input, from the design heat balances in Btu's divided by the guaranteed net generation, corrected for changes in equipment from design. This is the baseline number for the plant personnel when they make their annual reconciliation.

3.3. British thermal unit (Btu)

British thermal unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

3.4. Gross Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual gross generation.

3.5. Net Generation (kWh)

Gross generation minus auxiliary or station usage

3.6. Planned Net Heat Rate (Btu/kWh)

Total budgeted heat input in Btu's divided by the budgeted net generation. This number is the annual goal for the plant personnel to achieve.

4. Overall Plan and Objectives

4.1. Unit 1- Goals for 10-year plan

Figure 1, in the appendix, shows the ten-year heat rate plan for Jim Bridger unit 1. The dip in the Planned Net Heat Rate in the year 2011 is due to the work that is scheduled to take place during the planned outage in 2010 (see section 7).

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4.2. Unit 2 - Goals for 10-year Plan

Figure 2, in the appendix, shows the ten-year heat rate plan for Jim Bridger unit 2. The dip in the Planned Net Heat Rate in the year 2014 is due to the work that is scheduled to take place during the planned outage in 2013 (see section 7).

4.3. Unit 3 - Goals for 10-year Plan

Figure 3, in the appendix, shows the ten-year heat rate plan for Jim Bridger unit 3. The dip in the Planned Net Heat Rate in the year 2012 is due to the work that is scheduled to take place during the planned outage in 2011 (see section 7).

4.4. Unit 4 - Goals for 10-year Plan

Figure 4, in the appendix, shows the ten-year heat rate plan for Jim Bridger unit 4. The dip in the Planned Net Heat Rate in the years 2013 is due to the work that is scheduled to take place during the planned outage in 2012 (see section 7).

5. Performance against last year's plan

The 2010 accounting heat rates shown are markedly less than plan. The units benefited by coal pile aerial survey adjustments that resulted in more tons on the pile than were being carried as "book" values. As a result, the unit burn quantities were credited. Additionally, Unit One greatly benefited from a replacement of the HP/IP turbine sections which reduced the unit heat rate. Plans for successive turbine replacements are on hold until subsynchronous resonance issues between LP turbines and the transmission system are resolved.

5.1. Unit 1

Planned Net Heat Rate			10,360
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	148	127	(21)
Turbine Losses	757	239	(518)
Other Losses	(67)	67	134
Actual Net Heat Rate			9,954

Negative numbers in the table above are improvements to heat rate.

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5.2. Unit 2

Planned Net Heat Rate			10,448
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	139	165	26
Turbine Losses	673	515	-158
Other Losses	94	59	-35
Actual Net Heat Rate			10,281

Negative numbers in the table above are improvements to heat rate.

5.3. Unit 3

Planned Net Heat Rate			10,351
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	196	213	17
Turbine Losses	579	516	(63)
Other Losses	55	97	42
Actual Net Heat Rate			10,347

Negative numbers in the table above are improvements to heat rate.

5.4. Unit 4

Planned Net Heat Rate			10,366
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	152	189	37
Turbine Losses	640	502	(138)
Other Losses	48	57	9
Actual Net Heat Rate			10,273

Negative numbers in the table above are improvements to heat rate.

6. Major Losses for Current Planned Net Heat Rate

This section of the heat rate plan identifies the reconciliation of the items that have the most impact between the As-built Net Heat Rate and the Planned Net Heat Rate.

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6.1.	Unit 1	
	As-Built Net Heat Rate	9,520
	Boiler Losses	169
	Turbine Losses	613
	Other Losses	65
	Planned Net Heat Rate	10,367
6.2.	Unit 2	
	As-Built Net Heat Rate	9,538
	Boiler Losses	147
	Turbine Losses	815
	Other Losses	-14
	Planned Net Heat Rate	10,487
6.3.	Unit 3	
	As-Built Net Heat Rate	9,529
	Boiler Losses	194
	Turbine Losses	817
	Other Losses	-71
	Planned Net Heat Rate	10,469
6.4.	Unit 4	
	As-Built Net Heat Rate	9,526
	Boiler Losses	161
	Turbine Losses	741
	Other Losses	-1
	Planned Net Heat Rate	10,427

7. Major Unit Specific Initiatives

This section identifies the major planned capital and operational activities to improve or regain lost heat rate for the current 10-year plan. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

7.1. Unit 1

Table 1 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate.

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7.2. Unit 2

Table 2 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. The turbine project originally planned for 2017 has been changed to a partial project (HP/IP) in 2013.

7.3. Unit 3

Table 3 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. The turbine upgrade planned for 2019 has been deferred indefinitely pending resolution of resonance issues.

7.4. Unit 4

Table 4 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. The turbine upgrade planned for 2016 has been deferred indefinitely pending resolution of resonance issues.

8. Annual Review and Update

This plan will be reviewed and updated annually by the Jim Bridger plant management team by April 30.

9. Appendix

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Figure 1 Jim Bridger Unit 1 10-year Plan Heat Rate Goals

Jim Bridger 1

							•								
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate,															
Btu/Kwh	9,533	9,520	9,533	9,520	9,521	9,520	9,520	9,520	9,520	9,520	9,520	9,520	9,520	9,520	9,520
Planned Net Heat Rate															
(2011), Btu/Kwh	10,440	10,408	10,404	10,410	10,734	10,203	10,272	10,281	10,290	10,276	10,273	10,279	10,097	10,088	10,098
Actual Net Heat Rate,															
Btu/Kwh	10,354	10,336	10,413	10,119	9,980										
Canacity Factor 2011 0/	73.5%	88.3%	02.00/	06.00/	CE 70/	90.00/	00.20/	87.5%	76.5%	88.2%	88.5%	87.7%	70 40/	00 40/	88.4%
Capacity Factor 2011, %	13.5%	00.3%	83.0%	86.9%	65.7%	89.0%	89.3%	67.5%	70.5%	00.2%	00.5%	01.1%	78.4%	88.4%	00.4%

Figure 2 Jim Bridger Unit 2 10-year Plan Heat Rate Goals

Jim Bridger 2

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh Planned Net Heat Rate (2011).	9,535	9,525	9,535	9,533	9,542	9,538	9,538	9,538	9,538	9,538	9,538	9,538	9,538	9,538	9,538
Btu/Kwh	10,460	10,473	10,528	10,417	10,497	10,378	10,446	10,370	10,370	10,370	10,393	10,393	10,393	10,393	10,393
Actual Net Heat Rate, Btu/Kwh	10,342	10,425	10,352	10,164	10,322										
Capacity Factor 2011, %	86.0%	86.1%	85.5%	71.4%	87.4%	87.0%	86.1%	78.1%	89.7%	88.6%	88.0%	77.9%	89.5%	89.4%	88.2%

Figure 3 Jim Bridger Unit 3 10-year Plan Heat Rate Goals

Jim Bridger 3

								_							
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate,															
Btu/Kwh	9,521	9,521	9,521	9,521	9,521	9,529	9,535	9,535	9,535	9,535	9,535	9,535	9,535	9,534	9,534
Planned Net Heat Rate (2011), Btu/Kwh	10.590	10,513	10.479	10.350	10,361	10,372	10 200	10,386	10,377	10,489	10,427	10,311	10,299	10.299	10,299
Actual Net Heat Rate.	10,590	10,513	10,479	10,330	10,301	10,372	10,390	10,300	10,377	10,409	10,421	10,311	10,299	10,299	10,299
Btu/Kwh	10,491	10,496	10,300	10,174	10,387										
Capacity Factor 2011, %	83.4%	73.1%	89.2%	90.4%	84.7%	75.0%	90.2%	89.7%	88.5%	66.3%	89.8%	85.2%	88.4%	77.8%	90.2%

Figure 4 Jim Bridger Unit 4 10-year Plan Heat Rate Goals

Jim Bridger 4

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh Planned Net Heat Rate (2011),	9,516	9,515	9,516	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526	9,526
` ''	10,468	10,539	10,473	10,365	10,346	10,275	10,377	10,375	10,346	10,336	10,147	10,095	10,002	9,992	10,058
Actual Net Heat Rate, Btu/Kwh	10,530	10,571	10,319	10,098											
Capacity Factor 2011, %	81.3%	84.6%	71.1%	90.2%	85.1%	88.1%	77.3%	89.0%	88.4%	89.9%	67.9%	89.7%	84.9%	90.2%	79.8%

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Table 1 Jim Bridger Unit 1 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
Controls Upgrade	Btu/kWh	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70
Turbine Upgrade Dense Pack	Btu/kWh	-100	-100	-100	-100	-100	-100	-100	-224	-313	-313
Scrubber Upgrade	Btu/kWh	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
Total adjustments related to Capital Projects	Btu/kWh	-119	-119	-119	-119	-119	-119	-119	-243	-332	-332

Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned											
Heat Rate Changes	KW	-204	-204	-204	-204	-204	-204	-204	-204	-204	-204
Drag Chain conveyor	KW	-553	-553	-553	-553	-553	-553	-553	-553	-553	-553
Total Auxiliary Load Changes	KW	-757	-757	-757	-757	-757	-757	-757	-757	-757	-757

Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Turbine Upgrade Dense Pack	MW	5.6	5.6	5.6	5.6	5.6	5.6	5.6	18	18.0	18.0
Scrubber Upgrade	MW	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1	-3.1
Total Capacity Changes	MW	2.5	2.5	2.5	2.5	2.5	2.5	2.5	14.9	14.9	14.9

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Table 2 Jim Bridger Unit 2 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis											
(Improvements are negative)											
Controls Upgrade	Btu/kWh	-17.5	-17.5	-17.5	-17.5	-17.5	-17.5	-17.5	-17.5	-17.5	-17.5
Turbine Upgrade Dense Pack	Btu/kWh			-58	-100	-100	-100	-100	-100	-100	-100
Scrubber Upgrade	Btu/kWh	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
Total adjustments related to Capital Projects	Btu/kWh	64.4	64.4	6.4	-35.6	-35.6	-35.6	-35.6	-35.6	-35.6	-35.6

Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned											
Heat Rate Changes	KW	-53	-53	-53	-53	-53	-53	-53	-53	-53	-53
Drag Chain Conveyor	KW	-530	-530	-530	-530	-530	-530	-530	-530	-530	-530
Clean Air Initiative - WFGD (90%) LNB	KW	795	795	795	795	795	795	795	795	795	795
Total Auxiliary Load Changes	KW	211	211	211	211	211	211	211	211	211	211

Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Turbine Upgrade Dense Pack	MW			4	4	4	4	4	4	4	4
Scrubber Upgrade	MW	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
Total Capacity Changes	MW	-3.0	-3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

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Table 3 Jim Bridger Unit 3 10-year Plan Heat Rate Improvement Projects

Scrubber upgrade

Total Capacity Changes

SCR addition

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
Turbine Upgrade Dense Pack	Btu/kWh					0	0.0	0.0	0.0	0	0
Scrubber upgrade	Btu/kWh	32	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
SCR addition	Btu/kWh					34	57.5	57.5	57.5	57.5	57.5
Total adjustments related to Capital Projects	Btu/kWh	32	54	54	54	88	112	112	112	112	112
Budgeted / Planned Auxiliary Load Changes											
Clean Air Initiative - WFGD (90%) LNB	KW	464	795	795	795	795	795	795	795	795	795
Total Auxiliary Load Changes	KW	464	795	795	795	795	795	795	795	795	795
-											
Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Turbine Upgrade Dense Pack	MW								·	0	0

-3.0

-3.0

MW

MW

MW

-3.0

-3.0

-3.0

-3.0

-3.0

-3.0

-3.0

-3.2

-6.2

-3.0

-3.2

-6.2

-3.0

-3.2

-6.2

-3.0

-3.2

-6.2

-3.0

-3.2

-6.2

-3.0

-3.2

-6.2

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Table 4 Jim Bridger Unit 4 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
41 Feedwater heater replacement	Btu/kWh	-70	-70	-70	-70	-70	-70	-70	-70	-70	-70
Turbine Upgrade Dense Pack	Btu/kWh										
SCR	Btu/kWh						30	60	60	60	60
Total adjustments related to Capital Projects	Btu/kWh	-70	-70	-70	-70	-70	-40	-10	-10	-10	-10

Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned											
Heat Rate Changes	KW	-223	-223	-223	-223	-223	-223	-223	-223	-223	-223
Clean Air Initiative - WFGD (90%) LNB	KW	795	795	795	795	795	795	795	795	795	795
Total Auxiliary Load Changes	KW	572	572	572	572	572	572	572	572	572	572

Budgeted / Planned Net Dependable Rating											
Changes, (Net Basis)											
Turbine Upgrade Dense Pack	MW										
SCR	MW						-3.3	-3.3	-3.3	-3.3	-3.3
Total Capacity Changes	MW	0	0	0	0	0.00	-3.3	-3.3	-3.3	-3.3	-3.3

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10. Required Signatures

Performance Eng	ineer – Jim Bridger Plant	Bernie Caul	field	
Signature:	(on file)		Date:	28 April
				2011
Engineering Man	ager – Jim Bridger Plant	Jim Sedey		
Signature:	(on file)		Date:	28 April
				2011
Managing Directo	or – Jim Bridger Plant	Bob Aramb	el	
Signature:	(on file)		Date:	28 April
				2011

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Naughton Plant Heat Rate Improvement Plan Ntn_2011_HRIP

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1. Revision History

Version	Status	Author	Reason for Issue	Date
1			2011 Plan Issue	April 30, 2011

2. Revision Control

This document is maintained by the PacifiCorp Energy Asset Management group.

3. Glossary of Terms

3.1. Actual Net Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual net generation.

3.2. As-built Net Heat Rate (Btu/kWh)

Total guaranteed heat input, from the design heat balances in Btu's divided by the guaranteed net generation, corrected for changes in equipment from design. This is the baseline number for the plant personnel when they make their annual reconciliation.

3.3. British thermal unit (Btu)

British thermal unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

3.4. Gross Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual gross generation.

3.5. Net Generation (kWh)

Gross generation minus auxiliary or station usage

3.6. Planned Net Heat Rate (Btu/kWh)

Total budgeted heat input in Btu's divided by the budgeted net generation. This number is the annual goal for the plant personnel to achieve.

4. Overall Plan and Objectives

4.1. Unit 1- Goals for 10-year plan

Figure 1, in the appendix, shows the ten-year heat rate plan for Naughton Unit 1. The dips in the Planned Net Heat Rate in the years 2012 and 2016 are due to the work that is scheduled to take place during the planned outages in 2012 and 2016 (see section 7).

4.2. Unit 2- Goals for 10-year plan

Figure 2, in the appendix, shows the ten-year heat rate plan for Naughton Unit 2. The dips in the Planned Net Heat Rate in the years 2011 and 2015 are due to the work that is scheduled to take place during the planned outages in 2011 and 2015 (see section 7).

4.3. Unit 3- Goals for 10-year plan

Figure 3, in the appendix, shows the ten-year heat rate plan for Naughton Unit 3. The dips in the Planned Net Heat Rate in the years 2009 and 2014 are due to the work that is scheduled to take place during the planned outages in 2010 and 2014 (see section 7).

5. Performance against last year's plan

5.1. Unit 1

Planned Net Heat Rate			10,298
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	9	84	75
Turbine Losses	340	172	(168)
Other Losses	(8)	77	85
Actual Net Heat Rate			10,290

Negative numbers in the table above are improvements to heat rate.

5.2. Unit 2

Planned Net Heat Rate			10,383
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	27	148	121
Turbine Losses	345	171	(174)
Other Losses	67	(55)	(122)
Actual Net Heat Rate			10,208

Negative numbers in the table above are improvements to heat rate.

5.3. Unit 3

Planned Net Heat Rate			10,234
Reconciliation to Planned Net Heat Rate	Planned	Actual	1
Boiler Losses	57	(20)	(77)
Turbine Losses	295	811	516
Other Losses	25	60	35
Actual Net Heat Rate			10,708

Negative numbers in the table above are improvements to heat rate.

6. Major Losses for Current Planned Net Heat Rate

This section of the heat rate plan identifies the reconciliation of the items that have the most impact between the As-built Net Heat Rate and the Planned Net Heat Rate.

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6.1. Unit 1

As-Built Net Heat Rate	9,957
Boiler Losses	9
Turbine Losses	499
Other Losses	(110)
Planned Net Heat Rate	10,355

6.2. Unit 2

As-Built Net Heat Rate	9,963
Boiler Losses	26
Turbine Losses	552
Other Losses	-53
Planned Net Heat Rate	10,488

6.3. Unit 3

As-Built Net Heat Rate	9,857
Boiler Losses	57
Turbine Losses	333
Other Losses	97
Planned Net Heat Rate	10,344

7. Major Unit Specific Initiatives

This section identifies the major planned capital and operational activities to improve or regain lost heat rate for the current 10-year plan.

7.1. Unit 1

Table 1 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

7.2. Unit 2

Table 2 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

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7.3. Unit 3

Table 3 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

8. Annual Review and Update

This plan will be reviewed and updated annually by the Naughton plant management team by April 30.

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9. Appendix

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Figure 1 Naughton Unit 1 10-year Plan Heat Rate Goals

							Na	Naughton 1	vn 1						
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate,															
Btu/Kwh	096'6	9,959	096'6	9,956	9,957	9,957	9,963	096'6	096'6	096'6	9,959	9,959	9,959	9.959	9.959
Planned Net Heat Rate 2011,												•	•		•
Btu/Kwh	10,720	10,332	10,219	10,346	10,298	10,289	10,115	10,156	10,248	10,238	10,121	10.121	10.199	10.238	10.121
Actual Net Heat Rate,										•		-	-	Ĺ	-
Btu/Kwh	10,740	10,206	10,417	10,263	10,290										
Capacity Factor 2011, %	78.4%	79.7%	88.6%	88.4%	87.9%	87.8%	76.1%	%2'06	89.9%	89.5%	81.5%	91.3%	90.5%	89.7%	81.8%

Figure 2 Naughton Unit 2 10-year Plan Heat Rate Goals

							Z	Naughton	ton 2						
Year Year Not Host Date	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Duil Not Float Nate, Btu/Kwh	9,958	9,958	9,955	9,950	9,944	9,963	9,962	9,962	9,962	9,962	9,962	9,962	9,962	9,962	9,962
Planned Net Heat Rate 2011, Btu/Kwh	10,480	10,350	10,364	10,445	10,383	10,406	10,445	10,505	10,558	10,346	10,319	10,393	10,452	10,324	10,229
Actual Net Heat Rate, Btu/Kwh	10,672	10,810	10,848	10,128	10,208										
Capacity Factor 2011, %	73.5%	89.3%	84.7%	82.8%	88.2%	72.2%	90.3%	%0.06	88.9%	%5'62	91.2%	90.4%	%9.68	80.2%	91.1%

Figure 3 Naughton Unit 3 10-year Plan Heat Rate Goals

							Z	Naughton	ton 3						
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate,															
Btu/Kwh	9,863	9,863	9,863	9,857	9,857	9,857	9,857	9,856	9,857	9,858	9,858	9,858	9,858	9.858	9,858
Planned Net Heat Rate 2011,													•	•	
Btu/Kwh	10,350	10,366	10,393	10,111	10,234	10,267	10,319	10,377	10,376	10,328	10,375	10,422	10,334	10,334	10,385
Actual Net Heat Rate,										•					•
Btu/Kwh	10,198	10,506	10,683	10,859	10,708										
Capacity Factor 2011, %	85.7%	85.7% 84.7%	79.6%	68.0%	89.7%	85.7%	87.4%	86.3%	66.5%	88.8%	86.1%	87.3%	80.5%	90.3%	86.3%

Table 1 Naughton Unit 1 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (improvements are negative)											
Install Intelligent soot blowing (2016)	Btu/kWh	0		0	0	0	-25	-25	-25	-25	-25
CO&O2 Grid (2012)	Btu/kWh	0	0	-13	-13	-13	-13	-13	-13	-13	-13
Condenser Replacement (2016)	Btu/kWh	0	- 0	0	0	0	-30	-30	-30	-30	-30
SO3 Injection System (2010)	Btu/kWh	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25
Scrubber Addition (-2.58Mw Aux Load) (2012)	Btu/kWh	0		163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2
Total adjustments related to Capital Projects	Btu/kWh	-25	-	138.2	138.2	138.2	70.2	70.2	70.2	70.2	70.2

Budgeted / Planned Auxillary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	-26	146	146	146	146	74	74	74	74	74
Air Compressor Upgrade (2009)	KW	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27
Total Auxiliary Load Changes	×	-53	119	119	119	119	48	48	-27	-27	-27

Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Scrubber Addition (-2.58Mw Aux Load) (2012)	MW		-2.58	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58
Total Capacity Changes	MΜ	0	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58	-2.58

Table 2 Naughton Unit 2 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (improvements are negative)											
Install intelligent soot blowing (2012)	Btu/kWh	0	-25	-25	-25	-25	-25	-25	-25	-25	-25
CO&O2 grid (2011)	Btu/kWh	-5	-13	-13	-13	-13	-13	-13	-13	-13	-13
SO3 Injection System (2010)	Btu/kWh	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25
Scrubber Addition (2011 -4.71MW)	Btu/kWh	228	228	228	228	228	228	228	228	228	228
Total adjustments related to Capital Projects	Btu/kWh	178	178	178	178	173	165	165	165	165	165

Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	266	266	266	266	259	247	247	247	247	247
Cooling Tower VFD optimization (2012)	KW	-134	-134	-134	-134	-134	-134	-134	-134	-134	-134
Air Compressor Upgrade (2009)	KW	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27
Total Auxiliary Load Changes	Κ	105	105	105	105	86	98	98	98	98	98

Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Scrubber Addition (2011 -4.71MW)	MW	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	4.71	-4.71	4.71
Total Capacity Changes	MW	4.7	12.4-	-4.71	-4.71	4.71	-4.71	4.71	4.71	-4.71	-4.71

Table 3
Naughton Unit 3
10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
CO&O2 grid (2014)	Btu/kWh	0	0	0	-12	-25	-25	-25	-25	-25	-25
Install intelligent soot blowing (2014)	Btu/kWh	0	0	0	-12	-25	-25	-25	-25	-25	-25
Increased CAI load (-4.55MW 2014)	Btu/kWh	0	0	0	80	137.8	137.8	137.8	137.8	137.8	137.8
Total adjustments related to Capital Projects	Btu/kWh	0	0	0	99	88	88	88	88	88	88

Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted / Planned Heat Rate Changes	KW	0	0	0	110	172	172	172	172	172	172
Condensate Pump Upgrade (2011)	KW	-100	-160	-160	-160	-160	-160	-160	-160	-160	-160
Air Compressor Upgrade (2009)	Κ	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27
Total Auxiliary Load Changes	K	-127	-187	-187	9/-	-15	-15	-15	-15	-15	-15

Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
Increased CAI load (-4.55MW 2014)	MW				4.6	4.6	4.6	4.6	4.6	4.6	4.6
Total Capacity Changes	MW	0.0	0.0	0.0	-4.6	4.6	4.6	4.6	4.6	4.6	4.6

April 30, 2011

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10. Required Signatures

Performance Engineer - Naughton Plant Ryan Witbeck	
Signature: Ayun Willedk	Date: 22 April 2011
Manager, Engineering – Naughton Plant Rodger Holt	
Signature:	Date: 22 April 2011

Managing Director - Naughton Plant	Bruce Vinnola
Signature:	Date: 22 April 2011



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1. Revision History

Version	Status	Author	Reason for Issue	Date
1			Original Submittal	April 26, 2011

2. Revision Control

This document is maintained by the PacifiCorp Energy Asset Management group.

3. Glossary of Terms

3.1. Actual Net Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual net generation.

3.2. As-built Net Heat Rate (Btu/kWh)

Total guaranteed heat input, from the design heat balances in Btu's divided by the guaranteed net generation, corrected for changes in equipment from design. This is the baseline number for the plant personnel when they make their annual reconciliation.

3.3. British thermal unit (Btu)

British thermal unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

3.4. Gross Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual gross generation.

3.5. Net Generation (kWh)

Gross generation minus auxiliary or station usage

3.6. Planned Net Heat Rate (Btu/kWh)

Total budgeted heat input in Btu's divided by the budgeted net generation. This number is the annual goal for the plant personnel to achieve.

4. Overall Plan and Objectives

The overall heat rate strategy is to 1) minimize heat rate losses in our operating plants, 2) add new resources that are more heat rate efficient.

4.1. Turbine Upgrades

Improve Pacificorp Energy overall system heat rate by replacement of major turbine components. Technology improvements in turbine steam path design should result in 1-3% more generated megawatts for the same amount of steam energy supplied. No changes to the boiler capacity, fuel consumed, or stack emissions are expected. These replacements are economical on the larger units, generally those over 350 MW. Turbine

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replacements will be done on the regular turbine / boiler outage cycle by unit.

4.2. Availability Improvements

Improvement in unit availability and reduction of forced outages will contribute to less low load operation (higher heat rate) and offline fuel use of offline electrical power use. This will affect overall heat rate less than 0.5 %.

4.3. New Resources

Increased demand will be met with natural gas fueled units. Coal fueled units are already near their capacity, so any increase in demand will be provided by increasing capacity factors at the gas fueled units. Fossilfueled system heat rate does not include the contribution of gas plant operation.

5. Performance against last year's plan

Comparison of the planned heat rate and the actual heat rate is shown in Figure 1 in the Appendix.

6. Major Losses for Current Planned Net Heat Rate

This section of the heat rate plan identifies the system influences that will affect the Planned Net Heat Rate.

6.1. Increase in Demand Energy

Increases in demand electrical energy will probably be made up with gasfueled generation.

6.2. Displacement of Fossil-Fueled Generation with Non-Fossil Generation

Increases in available generation from non-fossil sources (Wind, Hydro, Geothermal, and Solar) will displace fossil-fueled generation. The displaced generation will tend to be gas-fueled generation due to fuel costs and the rapid response of gas-fueled generation to variable displacement. This will result in higher (worse) system fossil-fueled heat rate. The opposite of this effect is also possible, that less non-fossil generation available will result in lower (better) fossil-fueled system heat rate.

6.3. Environmental Plan Projects

Environmental projects will increase the unit's auxiliary load, which will result in an increase (worse) in heat rate. There are several environmental projects scheduled over the next 10 years.

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7. Major Initiatives

This section identifies the major planned capital and operational activities to improve or regain lost heat rate for the current 10-year plan. See Table 1.

8. Annual Review and Update

This plan will be reviewed and updated annually by the Pacificorp Energy management team by April 30.

9. Appendix

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Figure 1 Pacificorp Energy 10-year Plan Heat Rate Goals

Fossil-Fueled System

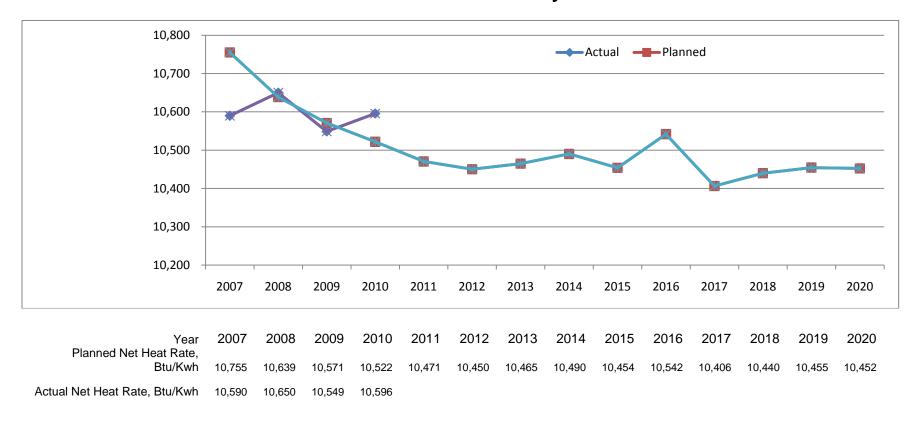


Table 1 Pacificorp Energy 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis											
(Improvements are negative)											
System HR benefit of Turbine Upgrades	Btu/kWh	-57	-81	-87	-87	-91	-110	-115	-115	-115	-115
System HR effect of Environmental Projects	Btu/kWh	28	39	41	46	50	53	55	55	57	57
System HR effect of Other Heat Rate Improvement Projects	Btu/kWh	-25	-24	-24	-24	-27	-29	-30	-29	-29	-29
Total Adjustments from Heat Rate Improvement Projects	Btu/kWh	-55	-65	-70	-66	-67	-86	-90	-89	-87	-87

10. Required Signatures

Corporate Heat R	ate Engineer	Alan Jackso	n	
Signature:	(on file)		Date:	28 April
				2011
Manager, Engine	ering/Environmental	Greg Hunte	r	
Signature:	(on file)		Date:	28 April,
				2011
Managing Directo	or, Generation Support	Rod Roberts	S	
		_		
Signature:	(on file)		Date:	28 April,
				2011



Wyodak Plant Heat Rate Improvement Plan Wyd_2011_HRIP

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1. Revision History

Version	Status	Author	Reason for Issue	Date
1			2011 Plan Issue	April 30, 2011

2. Revision Control

This document is maintained by the PacifiCorp Energy Asset Management group.

3. Glossary of Terms

3.1. Actual Net Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual net generation.

3.2. As-built Net Heat Rate (Btu/kWh)

Total guaranteed heat input, from the design heat balances in Btu's divided by the guaranteed net generation, corrected for changes in equipment from design. This is the baseline number for the plant personnel when they make their annual reconciliation.

3.3. British thermal unit (Btu)

British thermal unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

3.4. Gross Heat Rate (Btu/kWh)

Total actual heat input in Btu's divided by actual gross generation.

3.5. Net Generation (kWh)

Gross generation minus auxiliary or station usage

3.6. Planned Net Heat Rate (Btu/kWh)

Total budgeted heat input in Btu's divided by the budgeted net generation. This number is the annual goal for the plant personnel to achieve.

4. Overall Plan and Objectives

4.1. Unit 1- Goals for 10-year plan

Figure 1, in the appendix, shows the ten-year heat rate plan for Wyodak unit 1. The decrease in Heat Rate for 2016 reflects the capital overhaul improvement projects. In 2011 the installation of a bag house will increase aux load for the plant causing a heat rate increase of 88 Btu/Kwh. In 2016 the major projects are air heater basket changeout and repairs and a turbine overhaul).

5. Performance against last year's plan

5.1. Unit 1

Planned Net Heat Rate			11,743
Reconciliation to Planned Net Heat Rate	Planned	Actual	
Boiler Losses	120	(89)	(209)
Turbine Losses	301	395	94
Other Losses	(4)	124	128
Actual Net Heat Rate			11,756

Negative numbers in the table above are improvements to heat rate.

6. Major Losses for Current Planned Net Heat Rate

This section of the heat rate plan identifies the reconciliation of the items that have the most impact between the As-built Net Heat Rate and the Planned Net Heat Rate.

6.1. Unit 1

As-Built Net Heat Rate	11,331
Boiler Losses	120
Turbine Losses	476
Other Losses	203
Planned Net Heat Rate	12,129

7. Major Unit Specific Initiatives

This section identifies the major planned capital and operational activities to improve or regain lost heat rate for the current 10-year plan.

7.1. Unit 1

Table 1 shows the capital projects included in the 10-year plan that contribute to the recovery of lost heat rate. Numbers inside parentheses are negative impact on heat rate and represent improvement to the overall unit efficiency.

8. Annual Review and Update

This plan will be reviewed and updated annually by the Wyodak plant management team by April 30.

9. Appendix

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Figure 1 Wyodak Unit 1 10-year Plan Heat Rate Goals

Wyodak

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
As-Built Net Heat Rate, Btu/Kwh Planned Net Heat Rate 2011,	11,329	11,278	11,329	11,324	11,326	11,337	11,342	11,342	11,342	11,342	11,340	11,340	11,340	11,341	11,341
Btu/Kwh	12,110	11,921	12,009	11,704	11,743	12,129	11,916	11,941	11,952	11,967	11,592	11,598	11,635	11,717	11,709
Actual Net Heat Rate, Btu/Kwh	11,644	11,535	11,511	11,780	11,756										
Capacity Factor 2011, %	80.2%	96.0%	95.6%	93.7%	96.2%	79.4%	91.3%	91.2%	91.2%	91.2%	82.4%	91.2%	94.1%	93.9%	93.8%

Table 1 Wyodak Unit 1 10-year Plan Heat Rate Improvement Projects

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Budgeted / Planned Heat Rate Changes, Net basis (Improvements are negative)											
Low NOx burners installation	Btu/kWh	50	75	75	75	75	75	75	75	75	75
Air Heater Basket Replacement (hot and											
cold end)	Btu/kWh						-15	-25	-15	-10	-10
Major Pulverizer Overhauls	Btu/kWh	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30
CAI Upgrades DFGD, LNB, Baghouse	Btu/kWh	58.8	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
Total adjustments related to Capital Projects	Btu/kWh	79	133	133	133	133	118	108	118	123	123
Budgeted / Planned Auxiliary Load Changes											
Reduced auxiliary load benefit of Budgeted											
/ Planned Heat Rate Changes	KW	64	145	145	145	145	96	64	96	113	113
Total Auxiliary Load Changes	KW	64	145	145	145	145	96	64	96	113	113

Budgeted / Planned Net Dependable Rating Changes, (Net Basis)											
CAI Upgrades DFGD, LNB, Baghouse	MW	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6
Total Capacity Changes	MW	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6

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10. Required Signatures

Performance Eng	ineer – Wyodak Plant			
a.				L 00.1 11
Signature:	(on file)		Date:	08Apr11
Manager, Engine	ering – Wyodak Plant	Cory Bryngelson		
Signature:	(on file)		Date:	08Apr11
Managing Directo	or Wyodak Plant	Gary Harris		
Wanaging Direct	n, wyodak i fant	Oary Harris		
Signature:	(on file)		Date:	08Apr11