

SUPPRAM INPUTS

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:12

A LEVELIZED MARGINAL COSTS OF POWER

Energy	Mills/kwh	HLH	LLH		
1	SEP-DEC	18.68	17.48		
2	JAN-MAR	18.96	17.78		
3	APR	16.84	16.08		
4	MAY-JUN	9.17	7.98		
5	JUL	11.27	9.82		
6	AUG	16.06	13.95		
7	Demand \$/kw/mo	0.87			
	7(b)(2) Trigger Amt (m/kwh)		0.50	720,121	358,837

B IP-PF LINK NET MARGIN

1	Mills/kwh	-2.660
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C ALLOCATION FACTORS

INPUT

Routing: MPPD
 Date: April 12, 1999
 Time: 10:12:05 AM

Energy Allocation Factors
 Average Megawatts
 Test Period October 1996 - September 1998

With Residential Exchange Loads

	5 years				
	A	B	C	D	E
	Total usage	Federal Base System	Residential Exchange	New Resources	Conservation
1 CLASSES OF SERVICE					
2 Power Rates					
3 Priority Firm - Preference					
4 Priority Firm - Exchange					
5 Priority Firm - Total	8,425	7,718	707		8,425
6 Industrial Firm	1,894		1,819	75	1,894
7 New Resource Firm	1		1	0	1
8 Surplus Firm Contract-FAC					
9 Surplus Firm Other	1,186		1,139	47	1,186
10 Nonfirm Energy					
11 Supplemental Capacity					
12 Entitlement Capacity					
13 Total Power Rates	11,506	7,718	3,666	123	11,506
14 Other Power Services					
15 Montana Cap/Enr Exchange					
16 Post-Act Exchange					
17 Irrigation Pumping Power					
18 Interchange					
19 WNP-1 Exchange Post OY90					
20 Total Other Power Services					
21 Miscellaneous Revenue					
22 COE & USBR Proj. Revenues					
23 Operation & Maintenance					
24 Non-Federal Participation					
25 Other Miscellaneous Revenues					
26 Total Miscellaneous Revenues					
27 Grand Total	11,506	7,718	3,666	123	11,506

INPUT

D BILLING DETERMINANTS	Demand	Energy													
	5 YR Total	5 YR Total	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
Light Load Hours 6AM to 10PM															
1 CLASSES OF SERVICE			LLH	LLH	LLH	LLH	LLH	LLH	LLH	LLH	LLH	LLH	LLH	LLH	LLH
2 Priority Firm Power															
3 Small & Non-Gen Publics			3,621	4,113	4,747	4,911	4,189	4,206	3,866	3,863	3,666	3,963	3,861	3,464	48,469
4 LDD Adjustment			-102	-112	-126	-131	-114	-114	-112	-120	-118	-128	-122	-108	-1,407
5 Federal Agencies			194	206	241	231	210	219	192	191	182	201	205	185	2,456
6 LDD Adjustment			-1	-1	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-17
7 Subtotal Small & Non-Gen +Fed			3,711	4,205	4,860	5,008	4,283	4,310	3,946	3,933	3,728	4,035	3,942	3,540	49,502
8 Generating Publics			3,018	3,329	3,232	3,785	3,070	3,334	3,058	2,937	2,616	2,741	2,894	2,800	36,813
9 PA Displacement Adjustment															
10 LDD Adjustment															
11 Subtotal Generators			3,018	3,329	3,232	3,785	3,070	3,334	3,058	2,937	2,616	2,741	2,894	2,800	36,813
12 Total PF w/o LDD, Displacement			6,832	7,648	8,219	8,927	7,469	7,759	7,117	6,991	6,463	6,905	6,960	6,448	87,738
13 Total PF w/o LDD Adjustment			6,832	7,648	8,219	8,927	7,469	7,759	7,117	6,991	6,463	6,905	6,960	6,448	87,738
14 Total LDD Adjustment			-103	-113	-128	-133	-116	-115	-113	-121	-119	-129	-124	-109	-1,424
15 Total PF w/LDD, Displacement			6,729	7,534	8,091	8,794	7,353	7,644	7,004	6,869	6,344	6,776	6,837	6,340	86,314
16 IOU Residential Exchange															
17 PA Residential Exchange															
18 LDD Adjustment															
19 Total Residential Exchange															
20 Industrial Power															
21 IP/VI			2,921	2,860	2,954	2,937	2,674	2,944	2,849	2,961	2,833	2,952	2,942	2,856	34,683
22 Special Industrial Power															
23 New Resources Firm Power															
24 Displacement Adjustment															
25 Total NR															
26 Surplus Firm Power Contract OTFAC															
27 Northwest															
28 Southwest															
29 Total SP Contract OTFAC															
30 Surplus Firm Power Contract-FAC															
31 Supplemental Capacity															
32 Entitlement Capacity															
33 Total CSPE Incl. Entitlement															
34 WNP-3 Exchange															

INPUT

BILLING DETERMINANTS	Demand	Energy													GRAND	GRAND	
	5 YR Total	5 YR Total	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	TOTAL	TOTAL
Heavy Load Hours 10PM to 6AM																	REVENUES (\$000)
	MCP MW	HLH	HLH	HLH	HLH	HLH	HLH	HLH	HLH	HLH	HLH	HLH	HLH	HLH	HLH	HLH	
1 CLASSES OF SERVICE																	
2 Priority Firm Power																	
3 Small & Non-Gen Publics	195,012	5,988	6,607	7,406	7,739	6,593	6,606	6,161	6,049	5,892	6,242	6,187	5,608	77,078	125,548	2,557,824	
4 LDD Adjustment	-6,419	-169	-180	-196	-207	-180	-178	-178	-188	-190	-201	-196	-174	-2,238	-3,645	(73,927)	
5 Federal Agencies	11,434	331	331	377	365	334	350	315	312	302	333	338	313	4,001	6,457	132,811	
6 LDD Adjustment	-78	-2	-2	-3	-3	-3	-2	-2	-2	-2	-2	-2	-1	-27	-44	(911)	
7 Subtotal Small & Non-Gen +Fed	199,949	6,148	6,756	7,583	7,894	6,744	6,775	6,297	6,171	6,002	6,371	6,327	5,745	78,814	128,315	131,900	
8 Generating Publics	138,781	2,739	3,179	3,358	3,634	3,080	3,176	2,798	2,481	2,277	2,166	2,425	2,595	33,908	70,721	1,368,107	
9 PA Displacement Adjustment	-7,733	-269	-481	-289	-511	-628	-729	-836	-217	-243	-205	-366	-76	-4,849	-4,849		
10 LDD Adjustment																	
11 Subtotal Generators	131,048	2,471	2,698	3,069	3,123	2,452	2,447	1,962	2,264	2,034	1,961	2,059	2,519	29,059	65,872	1,368,107	
12 Total PF w/o LDD, Displacement	345,227	9,059	10,117	11,140	11,738	10,007	10,132	9,275	8,842	8,471	8,741	8,950	8,515	114,987	202,725	4,058,742	
13 Total PF w/o LDD Adjustment	337,494	8,790	9,636	10,851	11,226	9,378	9,403	8,439	8,625	8,228	8,536	8,584	8,439	110,138	197,876	4,058,742	
14 Total LDD Adjustment	-6,497	-171	-182	-199	-210	-183	-180	-180	-190	-192	-203	-198	-176	-2,265	-3,689	(74,839)	
15 Total PF w/LDD, Displacement	330,997	8,619	9,454	10,652	11,016	9,195	9,222	8,259	8,435	8,036	8,332	8,386	8,264	107,873	194,187	3,983,903	
16 IOU Residential Exchange	258,773	10,352	12,308	15,017	16,131	14,234	13,113	11,683	10,811	9,929	10,176	10,625	10,213	144,591	144,591		
17 PA Residential Exchange	20,456	776	821	997	1,066	894	851	876	1,023	1,141	1,251	1,144	895	11,734	11,734		
18 LDD Adjustment	-1,189	-45	-46	-55	-60	-50	-48	-51	-61	-68	-76	-69	-54	-684	-684		
19 Total Residential Exchange	278,040	11,082	13,082	15,959	17,136	15,077	13,915	12,508	11,773	11,002	11,350	11,699	11,055	155,640	155,640	5,085,888	
20 Industrial Power																	
21 IP/VI	111,084	3,931	3,772	3,898	3,915	3,560	3,908	3,782	3,892	3,799	3,901	3,910	3,775	46,042	80,726	1,635,721	
22 Special Industrial Power																	
23 New Resources Firm Power		3	4	4	5	4	4	4	3	3	3	3	3	44	44	1,919	
24 Displacement Adjustment																	
25 Total NR		3	4	4	5	4	4	4	3	3	3	3	3	44	44	1,919	
26 Surplus Firm Power Contract OTFAC																	
27 Northwest	136,867	3,514	3,294	3,517	3,474	3,440	3,521	3,411	3,488	3,367	3,436	2,192	2,030	38,682	38,682	1,295,931	
28 Southwest	28,855	1,007	865	773	782	762	736	701	855	971	1,151	1,073	1,052	10,725	10,725	445,570	
29 Total SP Contract OTFAC	165,722	4,521	4,159	4,290	4,256	4,202	4,256	4,111	4,343	4,338	4,586	3,265	3,081	49,407	49,407	1,741,501	
30 Surplus Firm Power Contract-FAC																	
31 Supplemental Capacity	4,482																2,053
32 Entitlement Capacity	4,482																2,053
33 Total CSPE Incl. Entitlement	8,964																4,106
34 WNP-3 Exchange	11,070		1,451	1,499	1,499	1,367	748	724						7,289	7,289	265,680	

Routing: MPPD
 Date: Apr 12, 1999
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RATE DESIGN STUDY
 Total Allocated Power Revenue Requirement
 (\$ Thousands)
 Test Period October 1996 - September 2001

RDS01

	A	B	C	D	E	F
	<u>Grand Total</u>	<u>Transmission Total</u>	<u>Generation Total</u>	<u>Annual Energy</u>	<u>Generation Demand</u>	<u>Rights to Energy</u>
1 CLASSES OF SERVICE						
2 Power Rates						
3 Priority Firm - Preference	5,371,606	882,606	4,489,001	4,062,970	287,405	138,625
4 Priority Firm - Exchange	3,509,268		3,509,268	3,129,220	241,422	
5 Priority Firm Power Total	8,742,249	882,606	7,859,643	7,192,190	528,828	138,625
6 Industrial Firm Power	3,291,303	213,967	3,077,336	2,957,322	96,454	23,559
7 New Resources Firm Power	1,635	32	1,603	1,603		
8 Surplus Firm Power	2,135,060	283,070	1,851,990	1,851,990		
9 Nonfirm Energy						
10 Supplemental Capacity	2,053		2,053	2,053		
11 Entitlement Capacity	2,053		2,053	2,053		
12 Total	14,174,352	1,379,675	12,794,677	12,007,210	625,282	162,185
13 Other Power Services						
14 Montana Cap/Energy Exchange						
15 Post-Act Exchanges						
16 Irrigation Pumping Power	2,676		2,676	2,676		
17 Interchange	128,500		128,500	128,500		
18 WNP-1 Exchange (Post OY-90)						
19 Unbundled Products&Svcs	48,198		48,198			48,198
20 Total	179,374		179,374	131,176		48,198
21 Miscellaneous Revenue						
22 COE & USBR Project Revenues	45,000		45,000	45,000		
23 Operations & Maintenance						
24 Other Miscellaneous Revenue	147,160		147,160	147,160		
25 Total	192,160		192,160	192,160		
26 Grand Total	14,545,885	1,379,675	13,166,211	12,330,546	625,282	210,383

Routing: MPPD
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RATE DESIGN STUDY
 Billing Determinants
 Test Period October 1996 - September 2001

RDS02

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
	DEMAND:		ENERGY: (GWh)														Total
	(MCP)	Sep - Dec		Jan - Mar		Apr		May - Jun		Jul		Aug		Total		Energy	
	Annual	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH		
1 CLASSES OF SERVICE																	
2 Priority Firm Power																	
3 Small & Non-Gen Publics	195,012	15,944	25,609	13,306	20,938	3,866	6,161	7,528	11,941	3,963	6,242	3,861	6,187	48,469	77,078	125,548	
4 LDD Adjustment	-6,419	-448	-719	-359	-565	-112	-178	-239	-378	-128	-201	-122	-196	-1,407	-2,238	-3,645	
5 Federal Agencies	11,434	825	1,352	660	1,049	192	315	373	614	201	333	205	338	2,456	4,001	6,457	
6 LDD Adjustment	-78	-5	-9	-5	-8	-1	-2	-2	-4	-1	-2	-1	-2	-17	-27	-44	
7 Subtotal Small & Non-Gen +Fed	199,949	16,316	26,232	13,602	21,413	3,946	6,297	7,660	12,173	4,035	6,371	3,942	6,327	49,502	78,814	128,315	
8 Generating Publics	138,781	12,378	11,871	10,189	9,890	3,058	2,798	5,553	4,758	2,741	2,166	2,894	2,425	36,813	33,908	70,721	
9 PA Displacement Adjustment	-7,733		-1,114		-1,869		-836		-459		-205		-366		-4,849	-4,849	
10 LDD Adjustment																	
11 Subtotal Generators	131,048	12,378	10,757	10,189	8,021	3,058	1,962	5,553	4,298	2,741	1,961	2,894	2,059	36,813	29,059	65,872	
12 Total PF w/o LDD, Displacement	345,227	29,147	38,831	24,155	31,876	7,117	9,275	13,454	17,313	6,905	8,741	6,960	8,950	87,738	114,987	202,725	
13 Total PF w/o LDD Adjustment	337,494	29,147	37,718	24,155	30,008	7,117	8,439	13,454	16,854	6,905	8,536	6,960	8,584	87,738	110,138	197,876	
14 Total LDD Adjustment	-6,497	-453	-728	-365	-574	-113	-180	-241	-382	-129	-203	-124	-198	-1,424	-2,265	-3,689	
15 Total PF w/LDD, Displacement	330,997	28,694	36,989	23,791	29,434	7,004	8,259	13,213	16,472	6,776	8,332	6,837	8,386	86,314	107,873	194,187	
16 IOU Residential Exchange	258,773	20,921	26,969	19,434	24,044	5,361	6,322	9,232	11,509	4,564	5,612	4,772	5,853	64,283	80,308	144,591	
17 PA Residential Exchange	20,456	1,524	1,965	1,256	1,554	402	474	963	1,201	561	690	514	630	5,220	6,513	11,734	
18 LDD Adjustment	-1,189	-88	-113	-71	-88	-23	-28	-58	-72	-34	-42	-31	-38		-380	-380	
19 Total Residential Exchange	278,040	22,357	28,821	20,619	25,510	5,740	6,769	10,138	12,638	5,091	6,260	5,254	6,445	69,198	86,442	155,640	
20 Industrial Power																	
21 IP/VI	111,084	11,592	15,376	8,555	11,383	2,849	3,782	5,794	7,690	2,952	3,901	2,942	3,910	34,683	46,042	80,726	
22 Special Industrial Power																	
23 New Resources Firm Power			15		13		4		7		3		3		44	44	
24 Displacement Adjustment																	
25 Total NR			15		13		4		7		3		3		44	44	
26 Surplus Firm Power Contract OTFAC																	
27 Northwest	136,867		12,355		10,434		3,411		6,855		3,436		2,192		38,682	38,682	
28 Southwest	28,855		3,696		2,280		701		1,826		1,151		1,073		10,725	10,725	
29 Total SP Contract OTFAC	165,722		16,051		12,714		4,111		8,680		4,586		3,265		49,407	49,407	
30 Surplus Firm Power Contract-FAC																	
31 Supplemental Capacity	4,482																
32 Entitlement Capacity	4,482																
33 Total CSPE Incl. Entitlement	8,964																
34 WNP-3 Exchange	11,070		2,950		3,615		724								7,289	7,289	
Check for total residential exchange			51,178		46,129		12,508		22,776		11,350		11,699				
Ratio: Diurnal Allocation of PF Exch Load		0.43685	0.56315	0.44699	0.55301	0.45888	0.54112	0.44512	0.55488	0.44849	0.55151	0.44911	0.55089				

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RATE DESIGN STUDY
Allocated WNP-3 Credit
(\$ Thousands)
Test Period October 1996 - September 2001

RDS04

	A	B
	<u>Annual Energy (aMw)</u>	<u>Allocated Amount</u>
1 CLASSES OF SERVICE		
2 Power Rates		
3 Priority Firm - Preference	4,759	(109,897)
4 Priority Firm - Exchange	3,666	(84,641)
5 Priority Firm Power Total	8,425	(194,538)
6 Industrial Firm Power	1,894	(43,731)
7 Special Industrial Power		
8 New Resources Firm Power	1	(24)
9 Surplus Firm Contract-FAC		
10 Surplus Firm - Contract OTFAC	1,186	(27,386)
11 Surplus Firm Open Market		
12 Nonfirm Energy		
13 Supplemental Capacity		
14 Entitlement Capacity		
15 Total	11,506	(265,680)
16 Other Power Services		
17 Montana Cap/Energy Exchange		
18 Post-Act Exchanges		
19 Irrigation Pumping Power		
20 Interchange		
21 WNP-1 Exchange (Post OY-90)		
22 Unbundled Products & Services		
23 Total		
24 Grand Total	11,506	(265,680)

Allocation factors are sum of FBS,Exchange and New Resources

Routing: MPPD
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RATE DESIGN STUDY
Average Cost of Nonfirm Energy
Test Period October 1996 - September 2001

RDS05

A

Total

1	Generation Costs (\$ Thousands)	
2	Federal Base System	6,354,065
3	New Resources	263,848
4	Exchange	
5	Conservation and ESB	763,290
6	BPA Programs	484,490
7	WNP-3 Settlement Plant	13,930
8	Total Generation Costs	7,879,624
9	Transmission Costs For Firm Power	1,379,675
10	Transmission Costs For Nonfirm Pwr	281,847
10	Total Costs	9,541,145
11	Firm Power Sales (GWh)	
12	Priority Firm	194,187
13	Projected Displacement	(4,849)
14	Industrial Power/Variable Industrial	80,726
15	Special Industrial Power	
16	New Resources	44
17	Surplus Firm Power - Contracts	48,238
18	Surplus Spot Market Sales	
19	Northwest	1,077
20	Southwest	93
21	Irrigation Pumping Power	750
22	Total Firm	320,265
23	Nonfirm Energy Sales (GWh)	102,469
24	Interchange	6,130
25	Total Sales	428,864
26	Average Cost of Nonfirm (mills/kwh)	22.2475

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RATE DESIGN STUDY
 Bonneville Average System Cost (BASC)
 Test Period October 1996 - September 2001
 (\$Thousands)

RDS06

A

1 Revenue Requirement:	
2 Cost of Service Analysis	15,853,895
2a 7(b)(2) Exchange Cost Adj.	187,745
3 Total	16,041,640
4 Sales (GWh)	
5 Firm Power	320,265
6 Residential Exchange	155,640
7 Nonfirm Energy	102,469
8 WNP-3 Settlement	7,289
9 Interchange	6,130
10 Total	591,794
11 Bonneville Average System Cost:	
12 (mills/kwh)	27.1068

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:29

RATE DESIGN STUDY
 Generation Demand Charge Revenue Determination
 Test Period October 1996 - September 2001

RDS07

A

B

MCP
 Mw
Load

Demand
 Revenues
(\$ 000)

1 PF Small & Nongenerating	188,593	163,756
2 PF Federal Agencies	11,356	9,860
3 PF Generators	131,048	113,789
4 PF Exchange	278,040	241,422
5 IP/VI	111,084	96,454
6 Total	720,121	625,282
Generation Demand Charge (\$/kw/mo)	0.87	
Amount Classified to Capacity	625,282	

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:34

RATE DESIGN STUDY
 SP Revenue Recovery and Excess Revenue Credit
 (\$ Thousands)
 Average of 50 Water Years
 Test Period October 1996 - September 2001

RDS 11

	<u>FY</u> <u>1997</u>	<u>FY</u> <u>1998</u>	<u>FY</u> <u>1999</u>	<u>FY</u> <u>2000</u>	<u>FY</u> <u>2001</u>	<u>Total</u>		<u>Total Transmission Bill</u>
1 Surplus Power Revenue								
3 SP Contract-OTFAC PNW	266,694	275,025	260,467	267,031	226,715	1,295,931		
4 SP Contract-OTFAC PSW	87,789	88,455	89,033	89,859	90,434	445,570	SP Trans	246,081
5 SP Spot Market PNW	10,026	5,963				15,989	NF Trans	281,847
6 SP Spot Market PSW	222	1,091				1,313	Trans Defic	358,837
7 Total SP Revenues	364,731	370,534	349,500	356,891	317,148	1,758,803	PF NT	551,499
							PF PTP	
8 SP Transmission Charges	51,014	51,245	49,278	50,558	43,987	246,081	PF DEL	68,355
9 SP Generation Revenues	313,718	319,289	300,222	306,333	273,162	1,512,722	IP PTP	154,902
								1,661,521
10 Nonfirm Energy Revenues:								
11 Revenues PNW Sales	67,758	52,488	52,793	45,873	44,828	263,740		
12 Revenues PSW Sales	136,865	139,030	141,335	143,005	143,982	704,217		
13 Total NF Revenues	204,623	191,517	194,128	188,878	188,810	967,956		
14 NF Transmission Charges								
15 NF PNW Transmission Charges	9,816	8,275	7,319	5,506	5,670	36,586		
16 NF PSW Transmission ET	17,224	18,994	18,869	16,551	18,263	89,901		
17 Total NF Transmission ISA	27,157	31,850	32,219	30,034	34,100	155,360		
18 Other Transmission								
19 Total NF Transmission	54,196	59,120	58,407	52,091	58,032	281,847		
20 NF Generation Revenues	177,466	159,667	161,909	158,844	154,711	686,110		619,855
21 Assured Delivery Mitigation								
22 Total NF Excess Revenues	177,466	159,667	161,909	158,844	154,711	686,110		619,855
23 Transmission Revenue Deficiencies								
24 C/E PNW	1,609	1,646	1,646	1,646	914	7,462		
25 C/E PSW	6,270	6,215	5,343	5,343	5,343	28,513		
26 Northern Intertie Allocation								
27 Purchase Power Charges	928	1,342	2,074	2,479	2,421	9,243		
28 Storage Charges	2,300	2,824	2,626	2,307	3,339	13,395		
29 Charges for PNCA Deliveries	3,016	2,646	2,454	2,206	2,348	12,670		
30 Charges for CEA		768	5,450	9,363	9,363	24,945		
31 Generation-Integration	15,149	14,661	14,425	14,257	14,274	72,765		
32 General Transfer Costs	30,885	31,597	31,156	32,143	32,557	158,338		
33 Utility Delivery Underrecovery	6,039	6,017	6,368	6,462	6,621	31,507		
34 Total Trans Rev Deficiencies	66,196	67,715	71,541	76,206	77,180	358,837		
35 Demand Reservation Revenue	2,393	1,922	1,957	2,180	2,105	10,557		

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:38

RATE DESIGN STUDY
 Allocated Excess Revenue Credit-Generation
 (\$Thousands)
 Test Period October 1996 - September 2001

RDS 12

	A	B
	ANNUAL ENERGY	
	<u>aMW</u>	<u>Allocated Amount</u>
1 CLASSES OF SERVICE		
2 Power Rates		
3 Priority Firm - Preference	4,360	(381,531)
4 Priority Firm - Exchange	3,358	(293,848)
5 Priority Firm Power Total	7,718	(675,379)
6 Industrial Firm Power	75	(6,596)
7 Special Industrial Power		
8 New Resources Firm Power	0	(4)
9 Surplus Firm Contract-FAC		
10 Surplus Firm - Contract OTFAC	47	(4,131)
11 Surplus Firm Open Market		
12 Nonfirm Energy		
13 Supplemental Capacity		
14 Entitlement Capacity		
15 Total	7,840	(686,110)
16 Other Power Services		
17 Montana Cap/Energy Exchange		
18 Post-Act Exchanges		
19 Irrigation Pumping Power		
20 Interchange		
21 WNP-1 Exchange (Post OY-90)		
22 Unbundled Products & Services		
23 Total		
24 Grand Total	7,840	(686,110)

Allocation Factors are sum of FBS and New Resources.

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:38

RATE DESIGN STUDY
 Allocated Transmission Revenue Deficiencies
 (\$Thousands)
 Test Period October 1996 - September 2001

RDS 15

	A	B
	ANNUAL ENERGY	
	<u>aMW</u>	<u>Allocated Amount</u>
1 CLASSES OF SERVICE		
2 Power Rates		
3 Priority Firm - Preference	4,759	262,751
4 Priority Firm - Exchange	3,666	
5 Priority Firm Power Total	8,425	262,751
6 Industrial Firm Power	1,894	59,065
7 Special Industrial Power		
8 New Resources Firm Power	1	32
9 Surplus Firm Contract-FAC		
10 Surplus Firm - Contract OTFAC	1,186	36,989
11 Surplus Firm Open Market		
12 Nonfirm Energy		
13 Supplemental Capacity		
14 Entitlement Capacity		
15 Total	11,506	358,837
16 Other Power Services		
17 Montana Cap/Energy Exchange		
18 Post-Act Exchanges		
19 Irrigation Pumping Power		
20 Interchange		
21 WNP-1 Exchange (Post OY-90)		
22 Unbundled Products & Services		
23 Total		
24 Grand Total	11,506	358,837

Allocation Factors are sum of FBS and NR.
 These allocated transmission costs are recovered in charges for energy.

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:38

RATE DESIGN STUDY
 Federal Transmission Reallocation Adjustment
 (\$Thousands)
 Test Period October 1996 - September 2001

	A Federal Transmission Assigned <u>From TRDS</u>	B Federal Transmission Allocated in <u>RDS 15</u>	C Total Federal <u>Transmission</u>	D (FBS+NR) Reallocation of Federal <u>Transmission</u>	E Federal Transmission <u>Adjustment</u>
1 CLASSES OF SERVICE					
2 Power Rates					
3 Priority Firm - Preference	619,855	262,751	882,606	767,208	(115,398)
4 Priority Firm - Exchange				590,889	590,889
5 Priority Firm Power Total	619,855	262,751	882,606	1,358,097	475,491
6 Industrial Firm Power	154,902	59,065	213,967	13,264	(200,703)
7 Special Industrial Power					
8 New Resources Firm Power		32	32	7	(25)
9 Surplus Firm Contract-FAC					
10 Surplus Firm - Contract OTFAC	246,081	36,989	283,070	8,307	(274,763)
11 Surplus Firm Open Market					
12 Nonfirm Energy					
13 Supplemental Capacity					
14 Entitlement Capacity					
15 Total	1,020,837	358,837	1,379,675	1,379,675	
16 Other Power Services					
17 Montana Cap/Energy Exchange					
18 Post-Act Exchanges					
19 Irrigation Pumping Power					
20 Interchange					
21 WNP-1 Exchange (Post OY-90)					
22 Unbundled Products & Services					
23 Total					
24 Grand Total	1,020,837	358,837	1,379,675	1,379,675	

Allocation Factors are FBS and NR
 This adjustment is made to allocated energy costs.

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:38

RATE DESIGN STUDY
 Federal Unbundled Reallocation Adjustment
 (\$Thousands)
 Test Period October 1996 - September 2001

RDS 16B

	A Federal Unbundled Products Recovery Amt <u>Recovery Amt</u>	B FBS+NR Reallocation of Federal Unbundled <u>Unbundled</u>	C Federal Unbundled Reallocation <u>Adjustment</u>
1 CLASSES OF SERVICE			
2 Power Rates			
3 Priority Firm - Preference		138,625	90,188
4 Priority Firm - Exchange			(48,438)
5 Priority Firm Power Total		138,625	69,461
6 Industrial Firm Power		23,559	159,648
7 Special Industrial Power			21,023
8 New Resources Firm Power			(22,000)
9 Surplus Firm Contract-FAC			
10 Surplus Firm - Contract OTFAC			1
11 Surplus Firm Open Market			1
12 Nonfirm Energy			
13 Supplemental Capacity			
14 Entitlement Capacity			
15 Total		162,185	162,185
16 Other Power Services			
17 Montana Cap/Energy Exchange			
18 Post-Act Exchanges			
19 Irrigation Pumping Power			
20 Interchange			
21 WNP-1 Exchange (Post OY-90)			
22 Unbundled Products & Services			
23 Total			
24 Grand Total		162,185	162,185

Allocation Factors are FBS and NR
 This adjustment is made to allocated energy costs.

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:38

RATE DESIGN STUDY
 Surplus Firm Power Revenue Surplus/(Deficiency)
 (\$Thousands)
 Test Period October 1996 - September 2001

RDS 17

	A Total Allocated <u>Costs</u>
1 Allocated Costs:	
2 Federal Base System	
3 Exchange Costs	1,642,440
4 New Resources	91,882
5 Conservation	70,857
6 Other Generation	45,231
7 DSM Business Net Cost	1,579
8 Exchange Transmission	
9 COSA Total	1,851,990
10 Adjustments:	
11 Excess Revenue Credit	(4,131)
12 WNP-3 Credit	(27,386)
13 Transmission Rev Deficiencies	36,989
14 Federal Trans Reallocation	(274,763)
15 Federal Unbundled Reallocation	976
16 Total Allocated & Adj. Costs	1,583,675
17 Recovered Costs	1,512,722
18 Revenue Surplus/(Deficiency)	(70,953)

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:38

RATE DESIGN STUDY
 Allocated Surplus Firm Power Revenue Surplus/(Deficiency)
 (\$Thousands)
 Test Period October 1996 - September 2001

RDS 18

	A ANNUAL ENERGY <u>aMW</u>	B ANNUAL ENERGY Allocated <u>Amount</u>
1 CLASSES OF SERVICE		
2 Power Rates		
3 Priority Firm - Preference	4,360	39,694
4 Priority Firm - Exchange	3,358	30,572
5 Priority Firm Power	7,718	70,266
6 Industrial Firm Power	75	686
7 Special Industrial Power		
8 New Resources Firm Power	0	0
9 Surplus Firm Contract-FAC		
10 Surplus Firm - Contract OTFAC		
11 Surplus Firm Open Market		
12 Nonfirm Energy		
13 Supplemental Capacity		
14 Entitlement Capacity		
15 Total	7,793	70,953
16 Other Power Services		
17 Montana Cap/Energy Exchange		
18 Post-Act Exchanges		
19 Irrigation Pumping Power		
20 Interchange		
21 WNP-1 Exchange (Post OY-90)		
22 Unbundled Products & Services		
23 Total		
24 Grand Total	7,793	70,953

Allocation Factors are for FBS and NR

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:40

Pre 7(c)(2)
 Allocated and Adjusted Energy Costs

	COSA Total	WNP-3 Excess Rev Credit Adjustment	Nonfirm Excess Revenue Credit	Transmission Revenue Deficiency Adjustment	Federal Transmission Reallocation Adjustment	Federal Unbundled Reallocation Adjustment	SP Contractual Rev Surplus Adjustment	Pre 7(c)(2) Total Allocated & Adjusted Costs	7(c)(2) Delta Adjustment	7(c)(2) Floor Rate Adjustment	7(b)(2) Adjustment	7(b)(2) Exchange Adjustment	7(b)(2) Industrial Adjustment	Post 7(c)(2) Allocated & Adjusted Costs
1 CLASSES OF SERVICE														
2 Power Rates														
3 Priority Firm Power - Preference	4,062,970	(109,897)	(381,531)		(115,398)	(48,438)	39,694	3,447,400	670,802		(621,399)			3,496,804
4 Priority Firm Power - Exchange	3,129,220	(84,641)	(293,848)		590,889	69,461	30,572	3,441,653	516,639		380,274			4,338,566
5 Priority Firm Total	7,192,190	(194,538)	(675,379)		475,491	21,023	70,266	6,889,053	1,187,441		(241,125)			7,835,369
6 Industrial Firm Power	2,957,322	(43,731)	(6,596)		(200,703)	(22,000)	686	2,684,977	(1,187,448)		240,994			1,738,524
7 Special Industrial Power														
8 New Resources Firm Power	1,603	(24)	(4)		(25)	1	0	1,552	6		131			1,689
9 Surplus Firm Contract-FAC														
10 Surplus Firm - Contract OTFAC	1,851,990	(27,386)	(4,131)		(274,763)	976		1,546,686						1,546,686
11 Surplus Firm Open Market														
12 Nonfirm Energy														
13 Supplemental Capacity	2,053							2,053						2,053
14 Entitlement Capacity	2,053							2,053						2,053
15 Total	12,007,210	(265,680)	(686,110)				70,953	11,126,373	(0)		(0)			11,126,373
16 Other Power Services														
17 Montana Cap/Energy Exchange														
18 Post-Act Exchanges														
19 Irrigation Pumping Power	2,676							2,676						2,676
20 Interchange	128,500							128,500						128,500
21 WNP-1 Exchange (Post OY-90)														
22 Unbundled Products & Services														
23 Total	131,176							131,176						131,176
24 Miscellaneous Revenue														
25 COE & USBR Project Revenues	45,000							45,000						45,000
26 Operations & Maintenance														
27 Other Miscellaneous Revenue	147,160							147,160						147,160
28 Total	192,160							192,160						192,160
29 Grand Total	12,330,546	(265,680)	(686,110)				70,953	11,449,709	(0)		(0)			11,449,709
checksum	12,330,546	(265,680)	(686,110)				70,953	11,449,709						

NO 7(b)(2) PF RATE:

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:47

RATE DESIGN STUDY
 7(C)(2) Delta Initialization
 (\$ Thousands)
 Test Period October 1996 - September 2001

RDS20

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P		
	Unbundled	Transmission	Generation	Energy:														
	Requirements	Demand	Demand	Sep-Dec	Jan-Mar	April	May-Jun	Jul	Aug	Total	Total							
	Products	Total	Total	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	Energy	Total	
1	BASE REVENUE																	
2	PF Billing Determinants			609,037	51,051	65,810	44,410	54,944	12,744	15,028	23,351	29,109	11,867	14,592	12,091	14,831	349,827	
3	Marginal Cost of Firm Power (mills/kwh)			0.87	17.48	18.68	17.78	18.96	16.08	16.84	7.98	9.17	9.82	11.27	13.95	16.06		
4	PF Revenues @ Marginal Cost Rates	249,733	1,047,757	528,828	892,268	1,229,028	789,556	1,041,725	204,920	253,004	186,338	266,815	116,521	164,420	168,628	238,176	5,551,400	
5	PF Allocated Energy Costs																	
6	Energy Scaling Factor																	
7	Applicable PF Rates			0.87	20.82	22.25	21.18	22.58	19.15	20.05	9.51	10.92	11.70	13.42	16.61	19.13		
8	PF Costs @ Scaled Rates	249,733	1,047,757	528,828	1,062,865	1,464,010	940,515	1,240,896	244,100	301,376	221,965	317,829	138,799	195,856	200,869	283,714	6,612,793	8,439,112
9																		
10	IP Billing Determinants			111,084	11,592	15,376	8,555	11,383	2,849	3,782	5,794	7,690	2,952	3,901	2,942	3,910	80,726	
11	IP Revenue @ PF Rt Sched Chgs	23,559	154,902	96,454	241,337	342,047	181,177	257,091	54,579	75,844	55,071	83,965	34,524	52,356	48,878	74,804	1,501,674	
12	IP Net Margin			-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66		
13	Revenues @ IP Net Margin			(30,834)	(40,899)	(22,756)	(30,280)	(7,580)	(10,060)	(15,411)	(20,456)	(7,851)	(10,376)	(7,826)	(10,401)	(214,730)		
14	IP Marginal Cost Rate Revenues			202,601	287,147	152,097	215,826	45,819	63,670	46,232	70,488	28,983	43,953	41,033	62,798	1,260,646		
15	DELTA REVENUE FACTOR																	
16	PF Allocation Factor (AMW)																7,718	
17	Total 7(C)(2) Allocation Factors																7,718	
18	Industrial Firm Power (allocated cost																	
19	at this point in RDS):	23,559	154,902	96,454													2,744,043	3,018,958
20	PF Share of Delta (15/16)																1.0000	
21	Delta Revenue Factor (10 * 20 / 2)																0.2308	

Routing: MPPD
Date: Apr 12, 1999
Time: 10:48

RATE DESIGN STUDY
7(C)(2) Delta Calculation
(\$ Thousands)
Test Period October 1996 - September 2001

RDS 21

A

1 IP Allocated Costs	3,018,958
2 IP Revenues @ Net Margin	(214,730)
3 IP Trans, Demand & Unbundled Revenues	274,916
4 IP Marginal Cost Rate Revenues	1,260,646
5 PF Marginal Cost Rate Revenues	5,551,400
6 PF Allocated Energy Costs	6,612,793
7 Numerator: 1-2-3-((4/5)*6)	1,457,099
9 PF Allocation Factor for Delta	7,718
10 NR Allocation Factor for Delta	0
11 Total Allocation Factors for Delta	7,718
12 Denominator: 1.0 + ((9/11)*(4/5))	1.2271
14 DELTA: (7/12)	1,187,448

Routing: MPPD
Date: Apr 12, 1999
Time: 10:49

RATE DESIGN STUDY
Allocation of 7(C)(2) Delta
(\$ Thousands)
Test Period October 1996 - September 2001

RDS 22

	<u>Avg MW</u>	<u>Allocated Amount</u>
1 CLASSES OF SERVICE		
2 Power Rates		
3 Priority Firm - Preference	4,360	670,802
4 Priority Firm - Exchange	3,358	516,639
5 Priority Firm Power	7,718	1,187,441
6 Industrial Firm Power		(1,187,448)
7 Special Industrial Power		
8 New Resources Firm Power	0	6
9 Surplus Firm Contract-FAC		
10 Surplus Firm - Contract OTFAC		
11 Surplus Firm Open Market		
12 Nonfirm Energy		
13 Supplemental Capacity		
14 Entitlement Capacity		
15 Total	7,718	(0)
16 Other Power Services		
17 Montana Cap/Energy Exchange		
18 Post-Act Exchanges		
19 Irrigation Pumping Power		
20 Interchange		
21 WNP-1 Exchange (Post OY-90)		
22 Unbundled Products & Services		
23 Total		
24 Grand Total	7,718	(0)

Allocation Factors are Federal Base System and NR

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:50

RATE DESIGN STUDY
 Industrial Firm Power Floor Rate Calculation
 (\$ Thousands)
 Test Period October 1996 - September 2001

RDS 23

	A DEMAND		C ENERGY		E Customer Charge	F Total/ Average
	<u>Winter</u> (Dec-Apr)	<u>Summer</u> (May-Nov)	<u>Winter</u> (Sep-Mar)	<u>Summer</u> (Apr-Aug)		
1 IP Billing Determinants	47,251	66,151	46,906	33,820	113,402	80,726
2 IP-83 Rates	4.62	2.21	14.70	12.20	7.34	
3 Revenue	218,300	146,194	689,514	412,603	832,371	2,298,981
4 Exchange Adj Clause for OY 1985						
5 New ASC Effective Jul 1, 1984						
6 Actual Total Exchange Cost (AEC)	938,442					
7 Actual Exchange Revenue (AER)	772,029					
8 Forecasted Exchange Cost (FEC)	1,088,690					
9 Forecasted Exchange Revenue (FER)	809,201					
10 Total Under/Over-recovery (TAR)						
11 (TAR=(AEC-AER)-(FEC-FER))	(113,076)					
12 Exchange Cost Percentage for IP (ECP)	0.521					
13 Rebate or Surcharge for IP (CCEA=TAR*ECP)	(58,913)					
14 OY 1985 IP Billing Determinants	24,368					
15 Adjustment for the Exchange (mills/kWh)	(2.42)					
16 Adjustment for the Deferral (mills/kWh)	(0.90)					
17 IP-83 Average Rate (mills/kWh)	28.48					
18 Floor Rate (mills/kWh)	25.16					

- 1 Demand billing determinants are the test period DSI load expressed in noncoincidental demand MWs.
- 14 Billing determinants as forecast in the 1983 Rate Case Final Proposal (WP-83-FS-BPA-07, p. 82).
- 15 Line 13 / Line 14
- 16 1985 Final Rate Proposal (WP-85-FS-BPA-08A, p. 15).
- 17 Line 3, Col F / Line 1, Col F
- 18 IP-83 Avg Rate adjusted for the effects of the Exchange and Deferral, Lines 15 + 16 + 17

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:51

RATE DESIGN STUDY
 Industrial Firm Power Floor Rate Test
 (\$ Thousands)
 Test Period October 1996 - September 2001

RDS 24

	A	B	C	D	E	F
	<u>Unbundled Requirements Products</u>	<u>Transmission Total</u>	<u>Generation Demand Total</u>	<u>Energy Total</u>	<u>Total</u>	<u>Average Rate</u>
1 IP Billing Determinants				80,726		
2 Floor Rate (mills/kWh)				25.16		
3 Value of Reserves Credit (mills/kWh)				3.10		
4 Revenue at Floor Rate Less VOR Credit				1,780,915	1,780,915	22.06
5 IP Revenue Under Proposed Rates	23,559	154,902	96,454	1,539,267	1,814,183	22.47
6 Difference						

6 Line 4 - Line 5. If difference is negative, Floor Rate does not trigger and difference is set to zero.

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:52

RATE DESIGN STUDY
 Calculation of 7(b)(2) Protection Amount
 (\$Thousands)
 Test Period October 1996 - September 2001

RDS 30

	A	B	C
	<u>Mills/KWH</u>	Energy <u>GWH</u>	Amount <u>(\$ 000)</u>
1 7(b)(2) Protection from 7(b)(2) Study	3.2		
2 PF Preference Energy Billing Determinants		194,187	
3 PF Preference Protection Amount			621,399

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:52

RATE DESIGN STUDY
 Allocation of 7(b)(2) Protection Amount
 (\$Thousands)
 Test Period October 1996 - September 2001

RDS 31

	A	B
	Allocation Factor	Allocated Amount
		<u>(\$ 000)</u>
1 CLASSES OF SERVICE		
2 Power Rates		
3 Priority Firm Power (Preference)		(621,399)
4 Priority Firm Power (Exchange)	380,274	380,274
5 Industrial Firm Power	240,994	240,994
6 Special Industrial Power		
7 New Resources Firm Power	131	131
8 Surplus Firm Contract-FAC		
9 Surplus Firm - Contract OTFAC		
10 Surplus Firm Open Market		
11 Nonfirm Energy		
12 Supplemental Capacity		
13 Entitlement Capacity		
14 Total	621,399	(0)
15 Other Power Services		
16 Montana Cap/Energy Exchange		
17 Post-Act Exchanges		
18 Irrigation Pumping Power		
19 Interchange		
20 WNP-1 Exchange (Post OY-90)		
21 Unbundled Products & Services		
22 Total		
23 Grand Total	621,399	(0)

Allocation Factors from RESEX Table X

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:53

RATE DESIGN STUDY
 Recalculation of 7(C)(2) Delta For 7(b)(2) Industrial Adjustment
 (\$ Thousands)
 Test Period October 1996 - September 2001

RDS32

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P		
	Unbundled		Generation		Energy:													
	Requirements	Transmission	Demand	Sep-Dec	Jan-Mar	April			May-Jun		Jul		Aug		Total			
	Products	Total	Total	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	Energy	Total	
1	PF Preference Billing Determinants		330,997	28,694	36,989	23,791	29,434	7,004	8,259	13,213	16,472	6,776	8,332	6,837	8,386	194,187		
2	PF Preference Rate After 7(c)(2) Adjustment		0.87	24.56	26.24	24.98	26.64	22.59	23.66	11.21	12.88	13.80	15.83	19.60	22.57			
3	PF Pref Rate After 7(b)(2) Credit			21.36	23.04	21.78	23.44	19.39	20.46	8.01	9.68	10.60	12.63	16.40	19.37			
4	PF Pref Revenues After 7(b)(2) Credit	138,625	619,855	287,405	612,846	852,255	518,188	689,943	135,835	168,949	105,871	159,430	71,806	105,257	112,096	162,394	3,694,870	
5	IP Billing Determinants		111,084	11,592	15,376	8,555	11,383	2,849	3,782	5,794	7,690	2,952	3,901	2,942	3,910	80,726		
6	IP Revenue @ PF Rt Sched Chgs	23,559	154,902	96,454	247,579	354,266	186,335	266,829	55,262	77,361	46,420	74,434	31,278	49,275	48,241	75,724	1,513,003	
7	IP Net Margin			-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66	-2.66			
8	Revenues @ IP Net Margin			(30,834)	(40,899)	(22,756)	(30,280)	(7,580)	(10,060)	(15,411)	(20,456)	(7,851)	(10,376)	(7,826)	(10,401)	(214,730)		
																1,298,273		
9	Industrial Firm Power (allocated cost at this point in RDS):	23,559	154,902	96,454												1,556,595	1,831,511	

Routing: MPPD
Date: Apr 12, 1999
Time: 10:56

RATE DESIGN STUDY
7(b)(2) Industrial Adjustment 7(C)(2) Delta Calculation
(\$ Thousands)
Test Period October 1996 - September 2001

RDS 33

Delta = DSI Allocated Revenue Requirement - DSI Revenues
DSI Allocated Revenue Requirement = Allocated Costs after 7(c)(2) Adjustment + DSI Share of 7(b)(2) Amt
DSI Revenues = Revenues at PF Preference rate + Revenues at Margin + DSI Share of 7(b)(2) Amount

		A
		Amount
		<u>(\$ 000)</u>
1	DSI Allocated Revenue Requirement after 7(c)(2) Adjustment	1,556,595
2	DSI Share of 7(b)(2) Adjustment	240,994
3	Total DSI Revenue Requirement	1,797,589
4	DSI Revenues at PF Preference Rate	1,513,003
5	Revenues at Net Margin	(214,730)
6	DSI Share of 7(b)(2) Adjustment	240,994
7	Total DSI Revenues	1,539,267
8	Delta (3 - 7)	258,322

Routing: MPPD
Date: Apr 12, 1999
Time: 10:57

RATE DESIGN STUDY
7(b)(2) Industrial Adjustment 7(C)(2) Delta Allocation
(\$ Thousands)
Test Period October 1996 - September 2001

RDS 34

	A	B
	Annual Energy <u>AMW</u>	Allocated <u>Amount</u>
1 CLASSES OF SERVICE		
2 Power Rates		
3 Priority Firm Power Preference		
4 Priority Firm Power Exchange	3,666	258,250
5 Priority Firm Total		
6 Industrial Firm Power		
7 Special Industrial Power		
8 New Resources Firm Power	1	72
9 Surplus Firm Contract-FAC		
10 Surplus Firm - Contract OTFAC		
11 Surplus Firm Open Market		
12 Nonfirm Energy		
13 Supplemental Capacity		
14 Entitlement Capacity		
15 Total	3,667	258,322
16 Other Power Services		
17 Montana Cap/Energy Exchange		
18 Post-Act Exchanges		
19 Irrigation Pumping Power		
20 Interchange		
21 WNP-1 Exchange (Post OY-90)		
22 Unbundled Products & Services		
23 Total		
24 Miscellaneous Revenue		
25 COE & USBR Project Revenues		
26 Operations & Maintenance		
27 Other Miscellaneous Revenue		
28 Total		
29 Grand Total	3,667	258,322

Allocation Factors are Total Usage

Routing: MPPD
 Date: Apr 12, 1999
 Time: 10:58

RATE DESIGN STUDY
 7(b)(2) Exchange Cost Adjustment Allocation
 (\$ Thousands)
 Test Period October 1996 - September 2001

RDS 34A

Gross Exchange Costs W/O 7(b)(2)	5,286,587	
Gross Exchange Costs With 7(b)(2)	5,474,332	5464670

Increase in Gross Exchange Costs 187,745

	A	B
	Allocation	Allocated
	<u>Factor</u>	<u>Amount</u>
1 CLASSES OF SERVICE		
2 Power Rates		
3 Priority Firm Power Preference		
4 Priority Firm Power Exchange	380,274	187,681
5 Priority Firm Total		
6 Industrial Firm Power		
7 Special Industrial Power		
8 New Resources Firm Power	131	64
9 Surplus Firm Contract-FAC		
10 Surplus Firm - Contract OTFAC		
11 Surplus Firm Open Market		
12 Nonfirm Energy		
13 Supplemental Capacity		
14 Entitlement Capacity		
15 Total	380,404	187,745
16 Other Power Services		
17 Montana Cap/Energy Exchange		
18 Post-Act Exchanges		
19 Irrigation Pumping Power		
20 Interchange		
21 WNP-1 Exchange (Post OY-90)		
22 Unbundled Products & Services		
23 Total		
24 Miscellaneous Revenue		
25 COE & USBR Project Revenues		
26 Operations & Maintenance		
27 Other Miscellaneous Revenue		
28 Total		
29 Grand Total	380,404	187,745

Allocation Factors from RESEX Table X

Routing: MPPD
 Date: Apr 12, 1999
 Time: 11:01

RATE DESIGN STUDY
Priority Firm Preference Rate Schedule Charge Calculation
 Test Period October 1996 - September 2001
 (\$ Thousands)

RDS50

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	Total
	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	Total

PRIORITY FIRM PREFERENCE RATE ENERGY

1	PF Rate w/o 7(b)(2)	24.52	26.21	24.95	26.60	22.56	23.62	11.20	12.86	13.78	15.81	19.57	22.53			
2	Billing Determinants (GWH)	28,694	36,989	23,791	29,434	7,004	8,259	13,213	16,472	6,776	8,332	6,837	8,386	86,314	107,873	194,187
3	Revenues at PF Rate w/o 7(b)(2)	703,713	969,307	593,514	783,071	158,033	195,115	147,953	211,852	93,363	131,742	133,792	188,973	1,830,368	2,480,060	4,310,427
4	7(b)(2) Credit	(101,448)	(139,737)	(85,562)	(112,889)	(22,782)	(28,128)	(21,329)	(30,541)	(13,459)	(18,992)	(19,288)	(27,243)	(263,869)	(357,530)	(621,399)
5	Revenues Required After 7(b)(2) Credit	602,264	829,570	507,952	670,182	135,251	166,987	126,624	181,311	79,903	112,750	114,504	161,730	1,566,499	2,122,530	3,689,029
6	Energy Rate including NR Deficiency Reallocation	20.99	22.43	21.36	22.78	19.32	20.22	9.59	11.01	11.79	13.53	16.75	19.29			
	Energy Rate	20.99	22.43	21.35	22.77	19.31	20.22	9.58	11.01	11.79	13.53	16.75	19.29			7,789,678
	NR Deficiency Reallocation (\$ Thousands)	160	226	144	203	36	50	33	50	18	28	26	39	416	597	1,013
	NR Deficiency Reallocation (m/kwh)	0.006	0.006	0.006	0.007	0.005	0.006	0.002	0.003	0.003	0.003	0.004	0.005	0.005	0.006	0.005

PRIORITY FIRM PREFERENCE RATE DEMAND

7	Monthly Coincidental Peak MW	330,997
8	Marginal Cost \$/KW/Mo	0.87
9	Demand Revenues (\$ Thousands)	287,405

Transmission
 Recovered
 In Energy
 Charge

PRIORITY FIRM PREFERENCE TRANSMISSION

	Network	Point to Point	Delivery	Total Costs	Charge
10	Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs	
11	Quantity	350,408		91,140	
12	Rate	1.574		0.750	
13	Transmission Revenues	551,499	68,355	619,855	

PRIORITY FIRM PREFERENCE UNBUNDLED

PRODUCTS & SERVICES - RQMTS

14	Total Revenues	138,625
----	----------------	---------

	Cost Component	Contribution Per KWH
15	Energy Costs	3,690,042 19.00
16	Demand Costs	287,405 1.48
17	Transmission Costs	619,855 3.19
18	Unbundled Reqmts Costs	138,625 0.71
19	Total Costs	4,735,927 24.39
20	Energy Billing Determinants Total GWH	194,187
21	Average PF Preference Rate	24.39

RATE DESIGN STUDY
Priority Firm Exchange Rate Schedule Charge Calculation
 Test Period October 1996 - September 2001
 (\$ Thousands)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	
	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	Total

PRIORITY FIRM EXCHANGE RATE ENERGY

1	Billing Determinants (GWH)	22,357	28,821	20,619	25,510	5,740	6,769	10,138	12,638	5,091	6,260	5,254	6,445	69,198	86,442	155,640
2	PF Energy Charges (unbifurcated)	24.52	26.21	24.95	26.60	22.56	23.62	11.20	12.86	13.78	15.81	19.57	22.53			
3	PF Exchange Base Energy Revenues	548,311	755,254	514,385	678,669	129,509	159,898	113,515	162,541	70,139	98,971	102,825	145,234	1,478,684	2,000,567	3,479,251
4	7(b)(2) Adj. Allocated to PF Exchange	59,929	82,547	56,221	74,177	14,155	17,476	12,407	17,765	7,666	10,817	11,239	15,874	161,617	218,657	380,274
5	7(b)(2) Indust Adj Alloc. to PF Exchange	40,699	56,059	38,181	50,375	9,613	11,869	8,426	12,065	5,206	7,346	7,632	10,780	109,756	148,493	258,250
6	7(b)(2) Exch Cost Adj. Alloc to PF Exch	29,577	40,741	27,747	36,609	6,986	8,625	6,123	8,768	3,783	5,339	5,547	7,834	79,764	107,916	187,681
7	Total PF Exchange After 7(b)(2) Adjustments	678,516	934,601	636,533	839,829	160,263	197,868	140,472	201,139	86,794	122,474	127,243	179,722	1,829,821	2,475,634	4,305,455
8	Unbundled Reqmts Not in Energy Charge	17,510	24,119	16,427	21,673	4,136	5,106	3,625	5,191	2,240	3,161	3,284	4,638	47,221	63,887	111,108
9	Total PF Exchange Energy Revenue Reqmt	696,026	958,719	652,960	861,502	164,399	202,974	144,097	206,330	89,034	125,634	130,526	184,360	1,877,042	2,539,521	4,416,562
10	PF Exchange Energy Rate (9/1)	31.13	33.26	31.67	33.77	28.64	29.99	14.21	16.33	17.49	20.07	24.84	28.61			
			32.33		32.83		29.37		15.39		18.91		26.92			

Transmission Recovered In Energy Charge Total Costs 4,416,562

11 PRIORITY FIRM EXCHANGE TRANSMISSION

12	Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs
13	Quantity	278,040		
14	Rate (From TRDS)	1,539		
15	Transmission Revenues	427,903		

Effective Demand Charge

2,407

16 PRIORITY FIRM EXCHANGE RATE DEMAND

17	Monthly Coincidental Peak MW	278,040
18	Marginal Cost \$/KW/Mo	0.87
19	Demand Revenues (\$ Thousands)	241,422

	Cost Component	Contribution Per KWH
20	PRIORITY FIRM EXCHANGE AVERAGE RATE	
21	Energy Costs	4,416,562
22	Demand Costs	241,422
23	Transmission Costs	427,903
24	Unbundled Reqmts Costs	
25	Total Costs	5,085,888
		32.68
26	Energy Billing Determinants Total GWH	155,640
27	Average PF Exchange Rate	32.68

PF Rate Reconciliation

		<u>Preference</u>	<u>Exchange</u>	<u>Total</u>	<u>Contribution Per KWH</u>
1	Energy Costs	3,690,042	4,305,455	7,995,496	22.86
2	Demand Costs	287,405	241,422	528,828	1.51
3	Transmission Costs	619,855	427,903	1,047,757	3.00
4	Unbundled Reqmts Costs	138,625	111,108	249,733	0.71
5	Total Costs	4,735,927	5,085,888	9,821,815	28.08
6	Energy Billing Determnts Total GWH	194,187	155,640	349,827	
7	Average Rate	24.39	32.68	28.08	

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 Time: 11:09

RDS36

RATE DESIGN STUDY
Priority Firm Exchange Rate Schedule Charge Calculation
 Test Period October 1996 - September 2001
 (\$ Thousands)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	Total
	<u>LLH</u>	<u>HLH</u>	<u>LLH</u>	<u>HLH</u>	<u>LLH</u>	<u>HLH</u>	<u>LLH</u>	<u>HLH</u>	<u>LLH</u>	<u>HLH</u>	<u>LLH</u>	<u>HLH</u>	<u>LLH</u>	<u>HLH</u>	<u>Total</u>

PRIORITY FIRM EXCHANGE RATE ENERGY

1	Billing Determinants (GWH)	22,357	28,821	20,619	25,510	5,740	6,769	10,138	12,638	5,091	6,260	5,254	6,445	69,198	86,442	155,640
2																
3	Total PF Exchange Energy Revenue Reqmt	696,026	958,719	652,960	861,502	164,399	202,974	144,097	206,330	89,034	125,634	130,526	184,360	1,877,042	2,539,521	4,416,562
4	PF Exchange Energy Rate		33.26		33.77		29.99		16.33		20.07		28.61			
5	Billing Detrmts all at HLH		51,178		46,129		12,508		22,776		11,350		11,699		155,640	
6	Rev Reqmt all At HLH		1,654,745		1,514,462		367,373		350,427		214,668		314,887		4,416,562	
7	Unbundled Added to NRG Charge		41,629		38,099		9,242		8,816		5,400		7,922		111,108	
8	Transmission added to NRG Charge		160,322		146,730		35,593		33,951		20,798		30,508		427,903	
9	Total Energy Rev Reqmt		1,856,695		1,699,292		412,209		393,194		240,867		353,316		4,955,573	
10	Rate for HLH Only		36.28		36.84		32.95		17.26		21.22		30.20			
11	Revenues		1,856,695		1,699,292		412,209		393,194		240,867		353,316		4,955,573	

Transmission
 Recovered
 In Energy
 Total
 Costs

Network Point to Point Delivery Charge Costs

PRIORITY FIRM EXCHANGE TRANSMISSION

12	Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs
13	Quantity			
14	Rate (From TRDS)			
15	Transmission Revenues			

PRIORITY FIRM EXCHANGE RATE DEMAND

17	Monthly Coincidental Peak MW	278,040
18	Marginal Cost \$/KW/Mo	0.87
19	Demand Revenues (\$ Thousands)	241,422

	Cost	Contribution	
20 PRIORITY FIRM EXCHANGE AVERAGE RATE	<u>Component</u>	<u>Per KWH</u>	
21	Energy Costs	4,955,573	31.84
22	Demand Costs	241,422	1.55
23	Transmission Costs		
24	Unbundled Reqmts Costs		
25	Total Costs	5,196,995	33.39
26	Energy Billing Determnts Total GWH	155,640	
27	Average PF Exchange Rate	33.39	

RATE DESIGN STUDY
 Summary of COSA and Rate Design Adjustments
 Annual Energy (\$ Thousands)
 Test Period October 1996 - September 2001

	A	B	C	D	E	F	G	H	I	J	K	L	M
	COSA	WNP-3 Excess Revenue		Nonfirm Excess Revenue		Transmission	Revenue Deficiency	Federal Transmission		Federal Unbundled		SP Contractual Revenue	
	Results	Credit Adjustment	Contra	Credit Adjustment	Contra	Revenue Deficiency	Adjustment	Reallocation	Adjustment	Reallocation	Adjustment	Surplus Adjustment	Contra
		Amount		Amount		Amount	Contra	Amount	Contra	Amount	Contra	Amount	Contra
1 CLASSES OF SERVICE													
2 Power Rates													
3 Priority Firm - Preference	4,062,970	(109,897)		(381,531)				(115,398)		(48,438)		39,694	
4 Priority Firm - Exchange	3,129,220	(84,641)		(293,848)				590,889		69,461		30,572	
5 Priority Firm Total	7,192,190	(194,538)		(675,379)				475,491		21,023		70,266	
6 Industrial Firm	2,957,322	(43,731)		(6,596)				(200,703)		(22,000)		686	
7 New Resource Firm	1,603	(24)		(4)				(25)		1		0	
8 Surplus Firm Contract-FAC													
9 Surplus Firm Contract-OTFAC	1,851,990	(27,386)		(4,131)				(274,763)		976			(70,953)
10 Surplus Firm Open Market													
11 Nonfirm Energy					686,110								
12 Supplemental Capacity	2,053												
13 Entitlement Capacity	2,053												
14 Total	12,007,210	(265,680)		(686,110)	686,110			0		0		70,953	(70,953)
15 Other Power Services													
16 Montana Cap/Enr Exchange													
17 Post-Act Exchange													
18 Irrigation Pumping Power	2,676												
19 Interchange	128,500												
20 Unbundled Products & Services													
21 WNP-3 Exchange			265,680										
22 Total	131,176		265,680										
23 Miscellaneous Revenue													
24 COE & USBR Proj. Revenues	45,000												
25 Operation and Maintenance													
26 Other Misc Revenue	147,160												
27 Total	192,160												
28 Grand Total	12,330,546	(265,680)	265,680	(686,110)	686,110			0		0		70,953	(70,953)
checksum	12,330,546	(265,680)		(686,110)				0		0		70,953	

Routing: MPPD
 Date: April 12, 1999
 Time: 11:12:19 AM

RATE DESIGN STUDY
 Summary of COSA and Rate Design Adjustments
 Annual Energy (\$ Thousands)
 Test Period October 1996 - September 2001

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	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
	7(c)(2) Delta Adjustment		7(c)(2) Floor Rate Adjustment		7(b)(2) Adjustment		7(b)(2) Industrial Adjustment		7(b)(2) Exchange Cost Adjustment		Total Allocated and Adjusted Costs		Grand Total	Grand Total
	Amount	Contra	Amount	Contra	Amount	Contra	Amount	Contra	Amount	Contra	Amount	Contra	Total	w/o 7(b)(2)
1 CLASSES OF SERVICE														
2 Power Rates														
3 Priority Firm - Preference	670,802				(621,399)						3,496,804		3,496,804	4,118,202 (621,399)
4 Priority Firm - Exchange	516,639				380,274		258,250		187,681		4,784,496		4,784,496	3,958,292 826,204
5 Priority Firm Total	1,187,441				(241,125)		258,250		187,681		8,281,300		8,281,300	8,076,494 204,805
6 Industrial Firm		(1,187,448)			240,994		(258,322)				2,667,650	(1,187,448)	1,480,202	1,497,530 (17,328)
7 New Resource Firm	6				131		72		64		1,826		1,826	1,558 267
8 Surplus Firm Contract-FAC														
9 Surplus Firm Contract-OTFAC											1,546,686	(70,953)	1,475,733	1,475,733
10 Surplus Firm Open Market														
11 Nonfirm Energy												686,110	686,110	686,110
12 Supplemental Capacity											2,053		2,053	2,053
13 Entitlement Capacity											2,053		2,053	2,053
14 Total	1,187,448	(1,187,448)			(0)		(0)		187,745		12,501,566	(572,291)	11,929,275	11,741,530 187,745
15 Other Power Services														
16 Montana Cap/Enr Exchange														
17 Post-Act Exchange														
18 Irrigation Pumping Power											2,676		2,676	
19 Interchange											128,500		128,500	
20 Unbundled Products & Services														
21 WNP-3 Exchange												265,680	265,680	
22 Total											131,176	265,680	396,855	
23 Miscellaneous Revenue														
24 COE & USBR Proj. Revenues											45,000		45,000	
25 Operation and Maintenance														
26 Other Misc Revenue											147,160		147,160	
27 Total											192,160		192,160	
28 Grand Total	1,187,448	(1,187,448)			(0)		(0)		187,745		12,824,902	(306,611)	12,518,291	187,745
checksum	1,187,448				(0)				187,745		12,824,902	(306,611)	12,518,291	

Routing: MPPD
 Date: April 12, 1999
 Time: 11:13:10 AM

RATE DESIGN STUDY
 Summary of COSA and Rate Design Adjustments
 Test Period October 1996 - September 2001

RDS41

	A	B	C	D	E	F	G	H	I	J
	Grand <u>Total</u>	<u>Energy</u>	Rate Design <u>Contra</u>	Total <u>Energy</u>	Generation <u>Demand</u>	Unbundled <u>Products</u>	Total <u>Generation</u>	Transmission <u>Demand</u>	Trans in <u>Energy Chg</u>	Total <u>Transmission</u>
1 CLASSES OF SERVICE										
2 Power Rates										
3 Priority Firm Preference	4,805,440	3,496,804		3,496,804	287,405	138,625	3,922,835	619,855	262,751	882,606
4 Priority Firm Exchange	5,025,918	4,784,496		4,784,496	241,422		5,025,918			
5 Priority Firm Total	9,831,359	8,281,300		8,281,300	528,828	138,625	8,948,753	619,855	262,751	882,606
6 Industrial Firm	1,814,183	2,667,650	(1,187,448)	1,480,202	96,454	23,559	1,600,216	154,902	59,065	213,967
7 New Resource Firm	1,858	1,826		1,826			1,826		32	32
8 Surplus Firm Contract-FAC										
9 Surplus Firm Contract-OTFAC	1,758,803	1,546,686	(70,953)	1,475,733			1,475,733	246,081	36,989	283,070
10 Surplus Firm Open Market										
11 Nonfirm Energy	967,956		686,110	686,110			686,110	281,847		281,847
12 Supplemental Capacity	2,053	2,053		2,053			2,053			
13 Entitlement Capacity	2,053	2,053		2,053			2,053			
14 Total	14,378,264	12,501,566	(572,291)	11,929,275	625,282	162,185	12,716,742	1,302,684	358,837	1,661,521
15 Other Power Services										
16 Montana Cap/Enr Exchange										
17 Post-Act Exchange										
18 Irrigation Pumping Power	2,676	2,676		2,676			2,676			
19 Interchange	128,500	128,500		128,500			128,500			
20 Unbundled Products & Services	48,198					48,198	48,198			
21 WNP-3 Exchange	265,680		265,680	265,680			265,680			
22 Total	445,053	131,176	265,680	396,855		48,198	445,053			
23 Miscellaneous Revenue										
24 COE & USBR Proj. Revenues	45,000	45,000		45,000			45,000			
25 Operation and Maintenance										
26 Other Misc Revenue	147,160	147,160		147,160			147,160			
27 Total	192,160	192,160		192,160			192,160			
28 Rate Design Total	15,015,477	12,824,902	(306,611)	12,518,291	625,282	210,383	13,353,956	1,302,684	358,837	1,661,521
Less 7(b)(2) Exchange Cost Adj.	187,745	187,745		187,745			187,745			
Rate Design Total After 7(b)(2)	14,827,732	12,637,157	(306,611)	12,330,546	625,282	210,383	13,166,211	1,302,684	358,837	1,661,521
checksum	14,827,732	12,637,157	(306,611)	12,330,546	625,282	210,383	13,166,211	1,302,684	358,837	1,661,521

Routing: MPPD
 Date: Apr 12, 1999
 Time: 11:14

RATE DESIGN STUDY
 Priority Firm Rate Schedule Charge Calculation
 Test Period October 1996 - September 2001
 (\$ Thousands)

RDS50

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	Total
	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	Total

1 PRIORITY FIRM RATE ENERGY

2 Marginal Costs of Firm Power	17.48	18.68	17.78	18.96	16.08	16.84	7.98	9.17	9.82	11.27	13.95	16.06				
3 Billing Determinants (GWH)	51,051	65,810	44,410	54,944	12,744	15,028	23,351	29,109	11,867	14,592	12,091	14,831	155,513	194,314	349,827	
4 Revenues at Marginal Cost Rates	892,268	1,229,028	789,556	1,041,725	204,920	253,004	186,338	266,815	116,521	164,420	168,628	238,176	2,358,232	3,193,168	5,551,400	
5 Total Energy Revenue Requirement															7,789,678	
6 Ratio of Rev Reqmt to MC Revenues															1.4032	
7 Scaled MC Rates to Equal Rev Req	24.52	26.21	24.95	26.60	22.56	23.62	11.20	12.86	13.78	15.81	19.57	22.53			2,238,278	
8 Revenues at Scaled Rates	1,252,023	1,724,561	1,107,899	1,461,739	287,542	355,013	261,468	374,393	163,501	230,713	236,617	334,207	3,309,051	4,480,626	7,789,678	
9 Transmission Charges Included	42,232	58,171	37,370	49,305	9,699	11,975	8,820	12,629	5,515	7,782	7,981	11,273	111,617	151,135	262,751	
10 Net Energy Recovery															7,526,926	

11 PRIORITY FIRM RATE DEMAND

12 Monthly Coincidental Peak MW	609,037
13 Marginal Cost \$/KW/Mo	0.87
14 Demand Revenues (\$ Thousands)	528,828

	Network	Point-to-Point	Delivery	Exchange	Charge	Total Costs
Transmission Recovered In Energy						
15 PRIORITY FIRM TRANSMISSION						
16 Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs			
17 Quantity	350,408		91,140			278,040
18 Average Rate	1.574	1.000	0.750	1.539		
19 Transmission Revenues	551,499		68,355			427,903
						1,047,757

20 PRIORITY FIRM UNBUNDLED

	Preference	Exchange	Total
21 PRODUCTS & SERVICES - RQMTS			
Total Revenues	138,625	111,108	249,733

	Cost Component	Contribution Per KWH
22 PRIORITY FIRM AVERAGE RATE		
23 Energy Costs	7,789,678	22.27
24 Demand Costs	528,828	1.51
25 Transmission Costs	1,047,757	3.00
26 Unbundled Reqmts Costs	249,733	0.71
27 Total Costs	9,615,996	27.49
28 Energy Billing Determnts Total GVA	349,827	
29 Average PF Rate	27.49	

Routing: MPPD
 Date: Apr 12, 1999
 Time: 11:16

RATE DESIGN STUDY
Industrial Firm Power Rate Schedule Charge Calculation
 Test Period October 1996 - September 2001
 (\$ Thousands)

RDS51

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	Total
	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	Total

1 INDUSTRIAL FIRM RATE ENERGY

2 Marginal Costs of Firm Power	17.48	18.68	17.78	18.96	16.08	16.84	7.98	9.17	9.82	11.27	13.95	16.06			
3 Billing Determinants (GWH)	11,592	15,376	8,555	11,383	2,849	3,782	5,794	7,690	2,952	3,901	2,942	3,910	34,683	46,042	80,726
4 Revenues at Marginal Cost Rates	202,601	287,147	152,097	215,826	45,819	63,670	46,232	70,488	28,983	43,953	41,033	62,798	516,764	743,882	1,260,646
5 Total Energy Revenue Requirement															1,539,267
6 Ratio of Rev Reqmt to MC Revenues															1.2210
7 Scaled MC Rates to Equal Rev Req	21.34	22.80	21.71	23.15	19.63	20.56	9.74	11.19	11.99	13.76	17.03	19.61			278.621
8 Revenues at Scaled Rates	247,379	350,610	185,713	263,527	55,946	77,742	56,449	86,067	35,389	53,667	50,102	76,677	630,977	908,290	1,539,267
9 Transmission Charges Included															59,065
10 Net Energy Recovery															1,480,202

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11 INDUSTRIAL FIRM RATE DEMAND

12 Monthly Coincidental Peak MW	111,084
13 Marginal Cost \$/KW/Mo	0.87
14 Demand Revenues (\$ Thousands)	96,454

	Network	Point to Point	Delivery	Exchange	Through Enrg	Total
				Transmission	Charge	Costs
15 INDUSTRIAL FIRM TRANSMISSION						
16 Billing Determinants:	MCP MWs	Crct Demand	MCP MWs			
17 Quantity						
18 Rate (From TRDS)						
19 Transmission Revenues		114,924	39,978			154,902

20 INDUSTRIAL FIRM UNBUNDLED PRODUCTS & SERVICES - RQMTS

21 Total Revenues	23,559
-------------------	--------

	Cost	Contribution
22 INDUSTRIAL FIRM AVERAGE RATE	Component	Per KWH
23 Energy Costs	1,539,267	19.07
24 Demand Costs	96,454	1.19
25 Transmission Costs	154,902	1.92
26 Unbundled Reqmts Costs	23,559	0.29
27 Total Costs	1,814,183	22.47
28 Energy Billing Determnts Total GV	80,726	
29 Average IP Rate	22.47	

Routing: MPPD
 Date: Apr 12, 1999
 Time: 11:19

RATE DESIGN STUDY
New Resources Firm Power Rate Schedule Charge Calculation
 Test Period October 1996 - September 2001
 (\$ Thousands)

RDS52

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	Total
	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH

1 NEW RESOURCES FIRM RATE ENERGY

2 Marginal Costs of Firm Power	17.48	18.68	17.78	18.96	16.08	16.84	7.98	9.17	9.82	11.27	13.95	16.06			
3 Billing Determinants (GWH)	6	8	6	7	2	2	3	4	1	2	1	2	19	25	44
4 Revenues at Marginal Cost Rates	110	156	99	140	25	35	23	34	13	19	18	27	287	412	699
5 Total Energy Revenue Requirement															1,858
6 Ratio of Rev Reqmt to MC Revenues															2.6575
7 Scaled MC Rates to Equal Rev Reqmt	46.45	49.63	47.25	50.39	42.73	44.74	21.21	24.36	26.09	29.94	37.06	42.68			
8 Revenues at Scaled Rates	293	414	264	373	66	92	60	91	33	51	47	72	764	1,094	1,858
9 Transmission Charges Included															32
10 Net Energy Recovery															1,826

11 NEW RESOURCES FIRM RATE DEMAND

12 Monthly Coincidental Peak MW	
13 Marginal Cost \$/KW/Mo	0.87
14 Demand Revenues (\$ Thousands)	

15 NEW RESOURCES FIRM TRANSMISSION

	Network	Point to Point	Delivery	Transmission Recovered In Energy Charge	Total Costs
16 Billing Determinants:	MCP MWs	Crct Demand	MCP MWs		
17 Quantity					
18 Rate (From TRDS)					
19 Transmission Revenues					

20 NEW RESOURCES FIRM UNBUNDLED PRODUCTS & SERVICES

21 Total Revenues

	Cost Component	Contribution Per KWH
22 NEW RESOURCES FIRM AVERAGE RATE		
23 Energy Costs	1,858	42.43
24 Demand Costs		
25 Transmission Costs		
26 Unbundled Reqmts Costs		
27 Total Costs	1,858	42.43
28 Energy Billing Determnts Total GWH	44	
29 Average NR Rate	42.43	

Routing: MPPD
 Date: Apr 12, 1999
 Time: 11:20

RATE DESIGN STUDY
 New Resources Firm Power Rate Schedule Charge Calculation
 Test Period October 1996 - September 2001
 (\$ Thousands)

RDS52
 (REVISED)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	Total
	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH

1 **NEW RESOURCES FIRM RATE ENERGY**

2 Marginal Costs of Firm Power	17.48	18.68	17.78	18.96	16.08	16.84	7.98	9.17	9.82	11.27	13.95	16.06				
3 Billing Determinants (GWH)	6	8	6	7	2	2	3	4	1	2	1	2	19	25	44	
4 Revenues at Marginal Cost Rates	110	156	99	140	25	35	23	34	13	19	18	27	287	412	699	
5 Allocated 7(b)(2) Protection Amt.	19	25	17	22	5	6	8	11	4	5	4	5	56	74	131	
6 Allocated 7(b)(2) Industr. Adj.	10	14	9	12	3	3	5	6	2	3	2	3	31	41	72	
7 Allocated 7(b)(2) Exch Adj.	9	12	8	11	2	3	4	6	2	2	2	2	28	37	64	
8 Total	149	207	133	186	34	47	40	57	20	29	26	38	402	564	966	
9 Applicable NR RATE = PF RATE	20.99	22.43	21.36	22.78	19.32	20.22	9.59	11.01	11.79	13.53	16.75	19.29				
NR Revenues at PF RATE	132	187	119	169	30	41	27	41	15	23	21	33	345	495	840	
10 Total Allocated NR Costs	293	414	264	373	66	92	60	91	33	51	47	72	764	1,094	1,858	
11 NR Revenue Surplus (Deficiency)	(160)	(227)	(145)	(204)	(36)	(50)	(33)	(50)	(18)	(28)	(26)	(40)	(418)	(599)	(1,018)	

11 **NEW RESOURCES FIRM RATE DEMAND**

12 Monthly Coincidental Peak MW	
13 Marginal Cost \$/KW/Mo	0.87
14 Demand Revenues (\$ Thousands)	

	Transmission		
	Recovered	In Energy	Total
	Network	Point to Point	Delivery
	Charge	Charge	Costs

15 **NEW RESOURCES FIRM TRANSMISSION**

16 Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs
17 Quantity			
18 Rate (From TRDS)			
19 Transmission Revenues			

20 **NEW RESOURCES FIRM UNBUNDLED**

PRODUCTS & SERVICES

21 Total Revenues

	Cost	Contribution
	Component	Per KWH
22 NEW RESOURCES FIRM AVERAGE RATE		
23 Energy Costs	966	22.07
24 Demand Costs		
25 Transmission Costs		
26 Unbundled Reqmts Costs		
27 Total Costs	966	22.07
28 Energy Billing Determnts Total GWH	44	
29 Average NR Rate	22.07	

Routing: MPPD
 Date: Apr 12, 1999
 Time: 11:21

RATE DESIGN STUDY
 New Resources Firm Power Rate Schedule Charge Calculation
 Test Period October 1996 - September 2001
 (\$ Thousands)

RDS52

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	Total
	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH

1 **NEW RESOURCES FIRM RATE ENERGY**

2 Applicable NR RATE = PF RATE	20.99	22.43	21.36	22.78	19.32	20.22	9.59	11.01	11.79	13.53	16.75	19.29			
3 Billing Determinants (GWH)	6	8	6	7	2	2	3	4	1	2	1	2	19	25	44
4 Revenues at Applicable NR RATE	132	187	119	169	30	41	27	41	15	23	21	33	345	495	840
5 Total Allocated NR Costs	293	414	264	373	66	92	60	91	33	51	47	72	764	1,094	1,858
6 NR Revenue Surplus (Deficiency)	(160)	(227)	(145)	(204)	(36)	(50)	(33)	(50)	(18)	(28)	(26)	(40)	(418)	(599)	(1,018)
7 Total Allocated Costs NR Rate	46.45	49.63	47.25	50.39	42.73	44.74	21.21	24.36	26.09	29.94	37.06	42.68			
8															
9															
10	160	227	145	204	36	50	33	50	18	28	26	40	418	599	1,018

11 **NEW RESOURCES FIRM RATE DEMAND**

12 Monthly Coincidental Peak MW	60
13 Marginal Cost \$/KW/Mo	0.87
14 Demand Revenues (\$ Thousands)	52

15 **NEW RESOURCES FIRM TRANSMISSION**

	Network	Point to Point	Delivery	Transmission Recovered In Energy Charge	Total Costs
16 Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs		
17 Quantity	48		12		
18 Rate (From TRDS)	1.574	1.000	0.750		
19 Transmission Revenues	74.9		9.3		84.2

20 **NEW RESOURCES FIRM UNBUNDLED PRODUCTS & SERVICES**

21 Total Revenues

	Cost Component	Contribution Per KWH
22 NEW RESOURCES FIRM AVERAGE RATE		
23 Energy Costs	840	19.18
24 Demand Costs	52	1.19
25 Transmission Costs	84	1.92
26 Unbundled Reqmts Costs		
27 Total Costs	976	22.29
28 Energy Billing Determinants Total GWH	44	
29 Average NR Rate	22.29	

RATE FOR PF EXCHANGE COST CALCULATION

Routing: MPPD
 Date: Apr 12, 1999
 Time: 11:22

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ENERGY PERIODS:															
	Sep-Dec	Sep-Dec	Jan-Mar	Jan-Mar	Apr	Apr	May-Jun	May-Jun	Jul	Jul	Aug	Aug	Total	Total	Total
	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	LLH	HLH	Total

1 PRIORITY FIRM RATE ENERGY

3	Billing Determinants (GWH)	51,051	65,810	44,410	54,944	12,744	15,028	23,351	29,109	11,867	14,592	12,091	14,831	155,513	194,314	349,827
5	Total NRG Revenue Requirement	1,252,023	1,724,561	1,107,899	1,461,739	287,542	355,013	261,468	374,393	163,501	230,713	236,617	334,207	3,309,051	4,480,626	7,789,678
6	Transmission Costs															
7	Unbundled Costs	40,139	55,289	35,519	46,863	9,218	11,382	8,383	12,003	5,242	7,397	7,586	10,715	106,087	143,647	249,733
8	Total	1,292,163	1,779,850	1,143,418	1,508,602	296,761	366,394	269,851	386,396	168,743	238,110	244,203	344,922	3,415,138	4,624,273	8,039,411
9	Total all in HLH		3,072,012		2,652,019		663,155		656,247		406,853		589,125		8,039,411	
10	Effective Energy Rate		26.29		26.69		23.88		12.51		15.38		21.88			

11 PRIORITY FIRM RATE DEMAND

12	Monthly Coincidental Peak MW	609,037
13	Marginal Cost \$/KW/Mo	0.87
14	Demand Revenues (\$ Thousands)	528,828

Effective Demand Charge

2.589

15 PRIORITY FIRM TRANSMISSION

16	Billing Determinants:	
17	Quantity	
18	Average Rate	
19	Transmission Revenues	1,047,757

20 PRIORITY FIRM UNBUNDLED PRODUCTS & SERVICES - RQMTS

21 Total Revenues

	Cost	Contribution	
22 PRIORITY FIRM AVERAGE RATE	Component	Per KWH	
23	Energy Costs	8,039,411	22.98
24	Demand Costs	528,828	1.51
25	Transmission Costs	1,047,757	3.00
26	Unbundled Reqmts Costs		
27	Total Costs	9,615,996	27.49
28	Energy Billing Determnts Total GWH	349,827	
29	Average PF Rate	27.49	

Routing: MPPD
 Date: April 12, 1999
 Time: 11:24:19 AM

RATE DESIGN STUDY
 Allocated Costs and Unit Costs
 Priority Firm Power (PF)
 (\$ Thousands)
 Test Period October 1996 - September 2001

RDS 60A

	A ALLOCATED COSTS (\$ Thousands)	B UNIT COSTS (Mills/KwH)	C PERCENT CONTRIBUTION (Percent)
GENERATION ENERGY			
1 Federal Base System			
2 Hydro	1,899,401	5.430	19.73%
3 Fish & Wildlife	81,034	0.232	0.84%
4 Trojan	121,714	0.348	1.26%
5 WNP #1	776,861	2.221	8.07%
6 WNP #2	1,701,590	4.864	17.68%
7 WNP #3	635,677	1.817	6.60%
8 Balancing Power Purchases	120,039	0.343	1.25%
9 Total Federal Base System	5,336,318	15.254	55.43%
10 New Resources			
11 Gross Residential Exchange	1,020,020	2.916	10.60%
12 Conservation	503,336	1.439	5.23%
13 Energy Services Business	11,215	0.032	0.12%
14 BPA Programs	321,300	0.918	3.34%
15 TOTAL COSA ALLOCATIONS	7,192,190	20.559	74.71%
16 WNP #3 Excess Revenue Credit	(194,538)	-0.556	-2.02%
17 Nonfirm Excess Revenue Credit	(675,379)	-1.931	-7.02%
18 Transmission Rev Deficncy Adj.	262,751	0.751	2.73%
19 Fed Trans. Reallocation Adj.	475,491	1.359	4.94%
20 Fed Unbundled Reallocation Adj.	21,023	0.060	0.22%
21 SP Revenue Surplus/Dfct Adj.	70,266	0.201	0.73%
22 7(c)(2) Delta Adjustment	1,187,441	3.394	12.34%
23 7(c)(2) Floor Rate Adjustment			
24 TOTAL RATE DESIGN ADJSTMTS	1,147,055	3.279	11.92%
25 Total Generation Energy	8,339,245	23.838	86.63%
26 Total Generation Capacity	528,828	1.512	5.49%
27 Total Unbundled Products & Svcs	138,625	0.396	1.44%
28 Transmission Costs			
29 Network Use	551,499	1.576	5.73%
30 Point To Point Transmission			
31 Delivery Segment Use	68,355	0.195	0.71%
32 Exchange Transmission			
33 Other Transmission			
34 TOTAL TRANSMISSION	619,855	1.772	6.44%
35 Total Allocated & Adjusted Costs	9,626,553	27.518	100.00%
36 Billing Determinants:			
37 With LDD Discount	349,827		
38 Without LDD Discount	353,896	27.202	

1/ Exchange Transmission and Unbundled Prods & Svcs Included in Energy Charges.

Routing: MPPD
 Date: April 12, 1999
 Time: 11:25:06 AM

RATE DESIGN STUDY
 Allocated Costs and Unit Costs
 Priority Firm Power (PF) Bifurcated
 (\$ Thousands)
 Test Period October 1996 - September 2001

RDS 60B

	A ALLOCATED COSTS	B UNIT COSTS	C PERCENT CONTRIBUTION
7(b)(2) CASE	(\$ Thousands)	(Mills/Kwh)	(Percent)
1 PRIORITY FIRM PREFERENCE			
2 Revenue Reqmt @ PF Combined Rate	4,310,427	22.197	91.03%
3 7(b)(2) Credit	(621,399)	-3.200	-13.12%
4 Subtotal	3,689,029	18.997	77.91%
5 Floor Rate Adjustment			
6 Total Energy	3,689,029	18.997	77.91%
7 Generation Capacity	287,405	1.480	6.07%
8 Unbundled Products & Services	138,625	0.714	2.93%
9 Total Transmission	619,855	3.192	13.09%
10 TOTAL	4,734,914	24.383	100.00%
11 Billing Determinants:			
12 Forecasted Sales w/Displacement	197,876	23.929	98.14%
13 Adjusted for LDD	194,187		
14 PRIORITY FIRM EXCHANGE			
15 Revenue Reqmt @ PF Combined Rate	3,479,251	22.311	68.41%
16 7(b)(2) Adjustment	380,274	2.439	7.48%
17 7(b)(2) Industrial Adjustment	258,250	1.656	5.08%
18 7(b)(2) Exchange Cost Adjustment	187,681	1.204	3.69%
19 Subtotal	4,305,455	27.609	84.65%
20 Floor Rate Adjustment			
21 Total Energy	4,305,455	27.609	84.65%
22 Generation Capacity	241,422	1.548	4.75%
23 Unbundled Products & Services	111,108	0.712	2.18%
24 Total Transmission	427,903	2.744	8.41%
25 TOTAL	5,085,888	32.613	100.00%
26 Billing Determinants:			
27 Forecasted Exchange Loads	156,325	32.534	99.76%
28 Adjusted for LDD	155,945		
29 PREFERENCE AND EXCHANGE			
30 Total Energy Costs	7,994,483	22.833	81.40%
31 Total Generation Capacity Costs	528,828	1.510	5.38%
32 Total Unbundled Costs	249,733	0.713	2.54%
33 Total Transmission Costs	1,047,757	2.992	10.67%
34 TOTAL COSTS	9,820,802	28.049	100.00%
35 Billing Determinants:			
36 Forecasted Sales w/Displacement	354,201		
37 Adjusted for LDD	350,132	27.727	98.85%

Routing: MPPD
 Date: April 12, 1999
 Time: 11:25:50 AM

RATE DESIGN STUDY
 Industrial Firm Power Rate (IP)
 Allocated Costs and Unit Costs
 (\$ Thousands/Unit Costs in Mills/KwH, or as Indicated)

RDS 61

	A ALLOCATED COSTS (\$ Thousands)	B UNIT COSTS (Mills/KwH)	C PERCENT CONTRIBUTION (Percent)
GENERATION ENERGY			
1 Federal Base System			
2 Hydro			
3 Fish & Wildlife			
4 Trojan			
5 WNP #1			
6 WNP #2			
7 WNP #3			
8 Balancing Power Purchases			
9 Total Federal Base System			
10 New Resources	146,721	1.818	8.09%
11 Gross Residential Exchange	2,622,705	32.489	144.57%
12 Conservation	113,148	1.402	6.24%
13 Energy Services Business	2,521	0.031	0.14%
14 BPA Programs	72,227	0.895	3.98%
15 TOTAL COSA ALLOCATIONS	2,957,322	36.634	163.01%
16 WNP #3 Excess Revenue Credit	(43,731)	-0.542	-2.41%
17 Nonfirm Excess Revenue Credit	(6,596)	-0.082	-0.36%
18 Transmission Rev Deficncy Adj.	59,065	0.732	3.26%
19 Fed Trans. Reallocation Adj.	(200,703)	-2.486	-11.06%
20 Fed Unbundled Reallocation Adj.	(22,000)	-0.273	-1.21%
21 SP Revenue Surplus/Dfct Adj.	686	0.009	0.04%
22 7(c)(2) Delta Adjustment	(1,187,448)	-14.710	-65.45%
23 7(c)(2) Floor Rate Adjustment			
24 TOTAL RATE DESIGN ADJSTMTS	(1,400,727)	-17.352	-77.21%
25 Total Generation Energy	1,556,595	19.283	85.80%
26 Total Generation Capacity	96,454	1.195	5.32%
27 Total Unbundled Products & Svcs	23,559	0.292	1.30%
28 Transmission Costs			
29 Network Use			
30 Point To Point Transmission	114,924	1.424	6.33%
31 Delivery Segment Use	39,978	0.495	2.20%
32 Other Transmission			
33 TOTAL TRANSMISSION	154,902	1.919	8.54%
34 Total Allocated & Adjusted Costs	1,831,511	22.688	100.96%
35 7(b)(2) Adjustments			
36 7(b)(2) Amount	240,994	2.985	13.28%
37 7(b)(2) Industrial Adj.	(258,322)	-3.200	-14.24%
38 Total With 7(b)(2) Adjustments	1,814,183	22.473	100.00%
39 Billing Determinants:			
40 Energy (GwH)	80,726		

Routing: MPPD
 Date: April 12, 1999
 Time: 11:26:50 AM

RATE DESIGN STUDY
 New Resources Firm Power (NR)
 Allocated Costs and Unit Costs
 (\$ Thousands/Unit Costs in Mills/KwH, or as Indicated)

RDS 62

	A ALLOCATED COSTS (\$ Thousands)	B UNIT COSTS (Mills/KwH)	C PERCENT CONTRIBUTION (Percent)
GENERATION ENERGY			
1 Federal Base System			
2 Hydro			
3 Fish & Wildlife			
4 Trojan			
5 WNP #1			
6 WNP #2			
7 WNP #3			
8 Balancing Power Purchases			
9 Total Federal Base System			
10 New Resources	80	1.816	4.28%
11 Gross Residential Exchange	1,421	32.467	76.52%
12 Conservation	61	1.401	3.30%
13 Energy Services Business	1	0.031	0.07%
14 BPA Programs	39	0.894	2.11%
15 TOTAL COSA ALLOCATIONS	1,603	36.609	86.28%
16 WNP #3 Excess Revenue Credit	(24)	-0.541	-1.28%
17 Nonfirm Excess Revenue Credit	(4)	-0.082	-0.19%
18 Transmission Rev Deficncy Adj.	32	0.731	1.72%
19 Fed Trans. Reallocation Adj.	(25)	-0.567	-1.34%
20 Fed Unbundled Reallocation Adj.	1	0.019	0.05%
21 SP Revenue Surplus/Dfct Adj.	0	0.008	0.02%
22 7(c)(2) Delta Adjustment	6	0.144	0.34%
23 7(c)(2) Floor Rate Adjustment			
24 TOTAL RATE DESIGN ADJSTMTS	(13)	-0.287	-0.68%
25 Total Generation Energy	1,590	36.322	85.61%
26 Total Generation Capacity			
27 Total Unbundled Products & Svcs			
28 Transmission Costs			
29 Network Use			
30 Point To Point Transmission			
31 Delivery Segment Use			
32 Other Transmission			
33 TOTAL TRANSMISSION			
34 Total Allocated & Adjusted Costs	1,590	36.322	85.61%
35 7(b)(2) Adjustments			
36 7(b)(2) Amount	131	2.983	7.03%
37 7(b)(2) Industrial Adj.	72	1.652	3.89%
38 7(b)(2)Exchange Cost Adjustment	64	1.472	3.47%
39 Total With 7(b)(2) Adjustments	1,858	42.429	100.00%
40 Billing Determinants:			
41 Energy (GwH)	44		

Routing: MPPD
 Date: April 12, 1999
 Time: 11:27:38 AM

RATE DESIGN STUDY
 Resource Cost Contribution
 (\$ Thousands)
 Test period October 1997 - September 2001

RDS63

	A	B	C	D	E	F	G	H
	ALLOCATED GENERATION COSTS:				PERCENTAGES			
	<u>FBS Resources</u>	<u>Exchange Resources</u>	<u>New Resources</u>	<u>Total</u>	<u>FBS Resources</u>	<u>Exchange Resources</u>	<u>New Resources</u>	<u>Total</u>
1 CLASSES OF SERVICE								
2 Power Rates								
3 Priority Firm - Preference	3,014,561	576,224		3,590,785	83.95%	16.05%		100.00%
4 Priority Firm - Exchange	2,321,756	443,796		2,765,553	83.95%	16.05%		100.00%
5 Priority Firm Power - Total	5,336,318	1,020,020		6,356,338	83.95%	16.05%		100.00%
6 Industrial Firm Power		2,622,705	146,721	2,769,426		94.70%	5.30%	100.00%
7 New Resources Firm		1,421	80	1,501		94.70%	5.30%	100.00%
8 Surplus Firm Power		1,642,440	91,882	1,734,322		94.70%	5.30%	100.00%
9 Supplemental Capacity	2,053			2,053	100.00%			100.00%
10 Entitlement Capacity	2,053			2,053	100.00%			100.00%
11 Total	5,340,423	5,286,587	238,683	10,865,693	49.15%	48.65%	2.20%	100.00%
12 Other Power Services								
13 Montana Cap/Energy Exchange								
14 Post-Act Exchanges								
15 Irrigation Pumping Power	2,676			2,676	100.00%			100.00%
16 Interchange	128,500			128,500	100.00%			100.00%
17 WNP-1 Exchange (Post OY-90)								
18 Unbundled Products & Services								
19 Total	131,176			131,176	100.00%			100.00%
20 Miscellaneous Revenue								
21 COE & USBR Project Revenues	45,000			45,000	100.00%			100.00%
22 Operations & Maintenance								
23 Other Miscellaneous Revenue	147,160			147,160	100.00%			100.00%
24 Total	192,160			192,160	100.00%			100.00%
25 Grand Total	5,663,759	5,286,587	238,683	11,189,029	50.62%	47.25%	2.13%	100.00%
26 Sales (GWh)				584,504				
27 Average Cost (mills/kwh)				19.14				

REVENUE RECONCILIATION

Routing: MPPD
 Date: April 12, 1999
 Time: 12:19:33 PM

RECON01

SUMMARY

Allocated and Adjusted Costs
 And Revenue Reconciliation

	Allocated & Adj. Costs SUPPRAM	REVEST			Delta
		Generation	Transmission	Total	
1 PF Preference Rev Reqmt	4,735,927	4,122,528	624,870	4,747,398	11,471
2 PF Exchange Rev Reqmt	5,085,888	5,085,804		5,085,804	(84)
3 IP Rev Reqmt	1,814,183	1,659,281	154,902	1,814,183	(0)
4 NR Rev Reqmt	1,858	1,919		1,919	62
5 SP Surplus Revenues	1,758,803	1,512,722	246,081	1,758,803	
6 Total PF,IP, NR, SP	13,396,658	12,382,254	1,025,852	13,408,107	11,449
7					
8 Other Revenues					
9 Nonfirm Energy	967,956	686,110	281,847	967,956	
10 WNP-3	265,680	265,680		265,680	
11 COE & USBR Project Revenues	45,000	45,000		45,000	
12 Interchange	128,500	128,500		128,500	
13 Irrigation Pumping Power	2,676	2,676		2,676	
14 CSPE (Incl Entitlement Cap)	2,053	2,053		2,053	
15 Supplemental Capacity	2,053	2,053		2,053	
16 Other Miscellaneous Revenue	147,160	147,160		147,160	
17 Unbundled Products	48,198	48,198		48,198	0
18 Total Revenues from Pwr Rates	15,005,933	13,709,683	1,307,699	15,017,382	11,449
19 Transmission Incl in Energy Chgs		(358,837)	358,837		
20 Total Functionalized Revenues/PWR	15,005,933	13,350,846	1,666,536	15,017,382	11,449
21 Wheeling Revenue Requirement	1,026,163		1,026,163	1,026,163	
22 Total post-7(b)(2) Rev Reqmt/Rev nus	16,032,096	13,350,846	2,692,699	16,043,545	11,449
23 7(b)(2) Exchange Cost Adjustment	(187,745)	(187,745)		(187,745)	
24 Total	15,844,351	13,163,101	2,692,699	15,855,800	
checksum	15,853,895	13,166,211	2,687,684	15,853,895	

SUMMARY

Revenue Requirement and
Rate-making Adjustment Reconciliation

Routing: MPPD
Date: April 12, 1999
Time: 12:20:46 PM

RECON04

ANNUAL SUMMARY	Rev Reqmt FY 1997	Adjustments	Adjusted Rev Reqmt FY1997	Rev Reqmt FY 1998	Adjustments	Adjusted Rev Reqmt FY1998	Rev Reqmt FY 1999	Adjustments	Adjusted Rev Reqmt FY1999	Rev Reqmt FY 2000	Adjustments	Adjusted Rev Reqmt FY2000	Rev Reqmt FY 2001	Adjustments	Adjusted Rev Reqmt FY2001
1 GENERATION COSTS															
2 Federal Base System															
3 Hydro	431,754		431,754	456,375		456,375	460,884		460,884	465,550		465,550	478,324		478,324
4 Fish and Wildlife	116,915	(107,688)	9,227	119,464	(101,091)	18,373	121,558	(104,746)	16,812	123,557	(104,301)	19,256	125,325	(95,573)	29,752
5 Trojan	27,394		27,394	30,537		30,537	32,328		32,328	31,822		31,822	18,236		18,236
6 WNP #1	114,894		114,894	189,287		189,287	198,127		198,127	197,247		197,247	196,045		196,045
7 WNP #2	401,162		401,162	388,777		388,777	417,453		417,453	423,387		423,387	423,318		423,318
8 WNP #3	126,599		126,599	133,514		133,514	158,622		158,622	156,769		156,769	157,333		157,333
9 Balancing Power Purchases	31,227	(29,884)	1,343	33,591	(20,432)	13,159	48,144	(13,298)	34,846	58,056	(9,694)	48,362	53,395	(6,198)	47,197
10 Total	1,249,945	(137,572)	1,112,373	1,351,545	(121,523)	1,230,022	1,437,116	(118,044)	1,319,072	1,456,388	(113,995)	1,342,393	1,451,976	(101,771)	1,350,205
11 New Resources															
12 Idaho Falls	5,234		5,234	5,295		5,295	5,365		5,365	5,378		5,378	5,379		5,379
13 Cowitz	19,377		19,377	13,916		13,916	13,956		13,956	14,058		14,058	14,105		14,105
14 Firm Purchased Power	15,480	36,464	51,944	19,854	21,848	41,702	19,785	8,691	28,476	19,782		19,782	19,882		19,882
15 Other Acquisitions															
16 Total	40,091	36,464	76,555	39,065	21,848	60,913	39,106	8,691	47,797	39,218		39,218	39,366		39,366
17 Residential Exchange Costs	1,052,630	(10,978)	1,041,652	1,062,676	(22,882)	1,039,794	1,080,156	(23,670)	1,056,486	1,111,480	(24,302)	1,087,178	1,138,971	(77,494)	1,061,477
18 Conservation	162,701	(10,262)	152,439	174,611	(11,781)	162,830	168,525	(13,696)	154,829	164,987	(25,692)	139,295	165,206	(27,946)	137,260
19 Energy Services Business		3,312	3,312		1,301	1,301		(954)	(954)		7,052	7,052		5,926	5,926
20 Other Generation Costs															
21 BPA Programs	102,706	4,490	107,196	91,361	4,490	95,851	87,302	4,490	91,792	89,830	4,490	94,320	90,841	4,490	95,331
22 WNP #3 Plant	2,621		2,621	2,700		2,700	2,778		2,778	2,875		2,875	2,956		2,956
23 WNP #3 Exchange															
24 Total	105,327	4,490	109,817	94,061	4,490	98,551	90,080	4,490	94,570	92,705	4,490	97,195	93,797	4,490	98,287
25 Total Generation	2,610,694	(114,546)	2,496,148	2,721,958	(128,547)	2,593,411	2,814,983	(143,184)	2,671,799	2,864,778	(152,447)	2,712,331	2,889,316	(196,795)	2,692,521
26 TRANSMISSION COSTS															
27 FCRTS	523,090	(1,228)	521,862	525,874	(1,228)	524,646	536,861	(1,228)	535,633	547,400	(1,228)	546,172	560,599	(1,228)	559,371
28 Other															
29 Total Transmission	523,090	(1,228)	521,862	525,874	(1,228)	524,646	536,861	(1,228)	535,633	547,400	(1,228)	546,172	560,599	(1,228)	559,371
30 Total Revenue Requirement	3,133,784	(115,774)	3,018,010	3,247,832	(129,775)	3,118,057	3,351,844	(144,412)	3,207,432	3,412,178	(153,675)	3,258,503	3,449,915	(198,023)	3,251,892

TEST PERIOD SUMMARY

RECON02

FYs 1997 thru 2001

Routing: MPPD
Date: April 12, 1999
Time: 12:21:53 PM

	Test Period Rev Reqmts	Total Ratemaking Adjustments	Rev Reqmt Used For Ratemaking	
1 GENERATION COSTS				
2 Federal Base System				
3 Hydro	2,292,887		2,292,887	
4 Fish and Wildlife	606,819	(513,399)	93,420	4(h)(10)(c), Colville Settlement
5 Trojan	140,317		140,317	
6 WNP #1	895,600		895,600	
7 WNP #2	2,054,097		2,054,097	
8 WNP #3	732,837		732,837	
9 Balancing Power Purchases	224,413	(79,506)	144,907	Update of Variable Expense
10 Total	6,946,970	(592,905)	6,354,065	
11 New Resources				
12 Idaho Falls	26,651		26,651	
13 Cowitz	75,412		75,412	
14 Firm Purchased Power	94,783	67,002	161,785	Update of Variable Expense
15 Other Acquisitions				
16 Total	196,846	67,002	263,848	
17 Residential Exchange Costs	5,445,913	(159,326)	5,286,587	Update of Variable Expense
18 Conservation	836,030	(89,377)	746,653	Reduction of ESB Gross Costs
19 Energy Services Business		16,637	16,637	Inclusion of ESB Net Cost
20 Other Generation Costs				
21 BPA Programs	462,040	22,450	484,490	Local Stability Reserve Purchase
22 WNP #3 Plant	13,930		13,930	
23 WNP #3 Exchange				
24 Total	475,970	22,450	498,420	
25 Total Generation	13,901,729	(735,518)	13,166,211	
26 TRANSMISSION COSTS				
27 FCRTS	2,687,684		2,687,684	
28 Other				
29 Total Transmission	2,687,684		2,687,684	
30 Total Revenue Requirement	16,589,413	(735,518)	15,853,895	
31 7(b)(2) Exchange Cost Adjustment	187,745		187,745	
32 Total Rev Reqmt/Revs after 7(b)(2)	16,777,158	(735,518)	16,041,640	
checksum	16,779,063	(735,518)	16,043,545	

REVENUE REQUIREMENT
RECONCILIATION WITH
COSTS RECOVERABLE THROUGH RATES

RECON03

Routing: MPPD
Date: April 12, 1999
Time: 12:23:07 PM

Revenues Forecasted at Proposed Rates:

REVENUES

1 POWER	
2 Priority Firm Preference	4,747,398
3 Priority Firm Exchange	5,085,804
4 Industrial Firm	1,814,183
5 New Resources	1,919
6 Nonfirm	967,956
7 Surplus Power	1,758,803
8 WNP-3	265,680
9 TOTAL FIRM & NONFIRM	14,641,743
10 OTHER	
11 COE & USBR Project Revenues	45,000
12 Interchange	128,500
13 Irrigation Pumping Power	2,676
14 CSPE (Incl Entitlement Cap)	2,053
15 Supplemental Capacity	2,053
16 Other Miscellaneous Revenue	147,160
17 Unbundled Products	48,198
18 TOTAL OTHER REVENUES	375,639
TOTAL POWER REVENUES	15,017,382
19 Wheeling Revenues	1,026,163
20 Total Ratemaking Revenues	16,043,545
21 OTHER REVENUES	
22 4(h)(10)(c) and Colville	513,399
23 ESB Revenues	72,740
24 TOTAL REVENUES REVEST	16,629,684
25 OTHER COST ADJUSTMENTS	
26 ST Purch Power Adjustment	79,506
27 Firm Purchase Adjustment	(67,002)
28 Residential Exchange Adjustment	159,326
29 Increase for Stab.Rsrvs Purch	(22,450)
30 TOTAL REVENUE REQUIREMENT	16,779,063
checksum	16,777,158

Routing: MPPD
 Date: Apr 12, 1999
 Time: 12:24

EXCHANGE COST CALCULATION

(\$ 000)

GROSS EXCHANGE COSTS - Detail
 (Forecasted ASC X Forecasted Exch Loads)

Exchanging Utility Conversion Factor	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	1997 ASC	1997 Loads (AMW)	1997 Gross Costs 8.76	1998 ASC	1998 Loads (AMW)	1998 Gross Costs 8.76	1999 ASC	1999 Loads (AMW)	1999 Gross Costs 8.76	2000 ASC	2000 Loads (AMW)	2000 Gross Costs 8.784	2001 ASC	2001 Loads (AMW)	2001 Gross Costs 8.76
1 Montana Power Company	24.01	59.08	14,228	24.59	59.67	14,370	25.36	60.50	14,570	26.36	60.92	14,711	27.30	61.42	14,791
2 Pacific Power & Light	29.10	944.01	240,643	29.10	968.07	246,777	29.10	992.79	253,078	29.10	1,007.95	257,647	29.10	1,028.90	262,283
3 Lincoln Electric Co-op															
4 Benton REA	28.40	30.37	7,556	28.40	30.69	7,635	28.40	31.01	7,715	28.40	31.21	7,786	28.40	31.44	7,822
5 Clearwater Power Co-op	29.33	12.46	3,201	29.33	12.57	3,230	29.33	12.65	3,250	29.33	12.71	3,275	29.33	12.76	3,278
6 Consumer's Power Co-op	29.55	25.91	6,707	29.55	26.17	6,774	29.55	26.47	6,852	29.55	26.67	6,923	29.55	26.90	6,963
7 Umatilla Electric Co-op	26.00	23.71	5,710	26.00	24.02	5,784	26.00	24.44	5,886	26.00	24.65	5,952	26.00	24.82	5,977
8 Raft River Electric	27.80	17.84	4,345	27.80	17.91	4,362	27.80	17.82	4,340	27.80	17.42	4,254	27.80	17.46	4,252
9 Blachly Lane Co-op	30.45	6.45	1,720	30.45	6.50	1,734	30.45	6.56	1,750	30.45	6.59	1,763	30.45	6.63	1,768
10 Coos-Curry Co-op	30.31	20.71	5,499	30.31	21.20	5,629	30.31	21.63	5,743	30.31	21.96	5,847	30.31	22.25	5,908
11 Fall River Electric Co-op	29.30	11.31	2,903	29.30	11.44	2,936	29.30	11.54	2,962	29.30	11.65	2,998	29.30	11.70	3,003
12 Douglas Electric Co-op	30.35	12.20	3,244	30.35	12.29	3,267	30.35	12.41	3,299	30.35	12.47	3,324	30.35	12.55	3,337
13 Lost River Co-op	25.75	6.35	1,529	25.88	6.40	1,541	26.00	6.45	1,553	26.16	6.47	1,562	26.31	6.50	1,565
14 Lower Valley Power and Light	30.76	24.14	6,505	30.76	24.47	6,594	30.76	24.80	6,683	30.76	25.04	6,766	30.76	25.31	6,820
15 Central Electric Co-op	32.58	38.03	10,854	32.58	38.49	10,985	32.58	38.97	11,122	32.58	39.34	11,258	32.58	39.71	11,333
16 Puget Sound Power & Light	35.47	1,156.47	359,335	36.00	1,169.92	368,946	36.76	1,183.34	381,056	37.66	1,192.34	394,433	36.93	1,210.48	391,599
17 Portland General Electric	35.86	923.54	290,115	34.55	930.71	281,687	35.04	938.40	288,042	35.72	950.44	298,214	35.49	961.01	298,771
18 Oregon Trail Co-op	35.11	33.06	10,168	35.11	33.30	10,242	35.11	33.55	10,319	35.56	33.71	10,530	36.32	33.89	10,783
19 Utah Power and Light	40.74	128.05	45,699	40.74	130.23	46,477	40.74	132.24	47,194	40.74	133.31	47,706	40.74	134.98	48,172
20 Totals		3,473.69	1,019,960		3,524.05	1,028,969		3,575.57	1,055,413		3,614.85	1,084,948		3,668.71	1,088,425

GROSS EXCHANGE COSTS - Summary (2YR and 5YR)

Exchanging Utility	Total Loads <u>1997-2001</u> GWH	Total Costs <u>1997-2001</u>
1 Montana Power Company	2,643	72,669
2 Pacific Power & Light	43,314	1,260,427
3 Lincoln Electric Co-op		
4 Benton REA	1,356	38,513
5 Clearwater Power Co-op	553	16,234
6 Consumer's Power Co-op	1,158	34,219
7 Umatilla Electric Co-op	1,066	29,309
8 Raft River Electric	775	21,552
9 Blachly Lane Co-op	287	8,735
10 Coos-Curry Co-op	944	28,625
11 Fall River Electric Co-op	505	14,803
12 Douglas Electric Co-op	543	16,472
13 Lost River Co-op	282	7,751
14 Lower Valley Power and Light	1,085	33,367
15 Central Electric Co-op	1,705	55,553
16 Puget Sound Power & Light	51,823	1,895,368
17 Portland General Electric	41,231	1,456,829
18 Oregon Trail Co-op	1,468	52,041
19 Utah Power and Light	5,774	235,248
20 Totals	156,513	5,277,715
PF Exchange Revenues		4,273,150
		1,004,566

EXCHANGE REVENUES AT PRIORITY FIRM RATE

Exchanging Utility	Average PF Exch Rate	1997 Loads	1997 Revenues	1998 Loads	1998 Revenues	1999 Loads	1999 Revenues	2000 Loads	2000 Revenues	2001 Loads	2001 Revenues
1 Montana Power Company	27.4907	59.08	14,228	59.67	14,370	60.50	14,570	60.92	14,711	61.42	14,791
2 Pacific Power & Light	27.4907	944.01	227,335	968.07	233,129	992.79	239,083	1,007.95	243,398	1,028.90	247,779
3 Lincoln Electric Co-op	27.4907										
4 Benton REA	27.4907	30.37	7,314	30.69	7,391	31.01	7,468	31.21	7,537	31.44	7,571
5 Clearwater Power Co-op	27.4907	12.46	3,001	12.57	3,027	12.65	3,046	12.71	3,069	12.76	3,073
6 Consumer's Power Co-op	27.4907	25.91	6,240	26.17	6,302	26.47	6,374	26.67	6,440	26.90	6,478
7 Unatilla Electric Co-op	27.4907	23.71	5,710	24.02	5,784	24.44	5,886	24.65	5,952	24.82	5,977
8 Raft River Electric	27.4907	17.84	4,296	17.91	4,313	17.82	4,291	17.42	4,207	17.46	4,205
9 Blachly Lane Co-op	27.4907	6.45	1,553	6.50	1,565	6.56	1,580	6.59	1,591	6.63	1,597
10 Coos-Curry Co-op	27.4907	20.71	4,987	21.20	5,105	21.63	5,209	21.96	5,303	22.25	5,358
11 Fall River Electric Co-op	27.4907	11.31	2,724	11.44	2,755	11.54	2,779	11.65	2,813	11.70	2,818
12 Douglas Electric Co-op	27.4907	12.20	2,938	12.29	2,960	12.41	2,989	12.47	3,011	12.55	3,022
13 Lost River Co-op	27.4907	6.35	1,529	6.40	1,541	6.45	1,553	6.47	1,562	6.50	1,565
14 Lower Valley Power and Light	27.4907	24.14	5,813	24.47	5,893	24.80	5,972	25.04	6,047	25.31	6,095
15 Central Electric Co-op	27.4907	38.03	9,158	38.49	9,269	38.97	9,385	39.34	9,500	39.71	9,563
16 Puget Sound Power & Light	27.4907	1,156.47	278,500	1,169.92	281,739	1,183.34	284,971	1,192.34	287,925	1,210.48	291,506
17 Portland General Electric	27.4907	923.54	222,406	930.71	224,133	938.40	225,984	950.44	229,511	961.01	231,429
18 Oregon Trail Co-op	27.4907	33.06	7,961	33.30	8,019	33.55	8,079	33.71	8,140	33.89	8,161
19 Utah Power and Light	27.4907	128.05	30,837	130.23	31,362	132.24	31,846	133.31	32,192	134.98	32,506
20 Totals	1,004,566	3,473.69	836,530	3,524.05	848,658	3,575.57	861,065	3,614.85	872,909	3,668.71	883,494

NET EXCHANGE COSTS @ 27.4907
 (=Gross Costs Less PF Rate Revenues)

Exchanging Utility	<u>FY 1997</u>	<u>FY 1998</u>	2 YEAR <u>Total</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	5 YEAR <u>Total</u>	5 YEAR <u>Total GWH</u>	Non Deemer <u>GWH</u>
1 Montana Power Company								2,643	
2 Pacific Power & Light	13,308	13,647	26,955	13,996	14,248	14,505	69,703	43,314	43,314
3 Lincoln Electric Co-op									
4 Benton REA	242	244	486	247	249	250	1,233	1,356	1,356
5 Clearwater Power Co-op	201	203	403	204	205	206	1,018	553	553
6 Consumer's Power Co-op	467	472	939	477	482	485	2,385	1,158	1,158
7 Umatilla Electric Co-op								1,066	
8 Raft River Electric	48	49	97	48	47	47	240	775	775
9 Blachly Lane Co-op	167	169	336	170	171	172	849	287	287
10 Coos-Curry Co-op	511	524	1,035	534	544	550	2,663	944	944
11 Fall River Electric Co-op	179	181	361	183	185	185	914	505	505
12 Douglas Electric Co-op	306	308	613	311	313	314	1,552	543	543
13 Lost River Co-op								282	
14 Lower Valley Power and Light	691	701	1,392	710	719	725	3,546	1,085	1,085
15 Central Electric Co-op	1,695	1,716	3,411	1,737	1,759	1,770	8,678	1,705	1,705
16 Puget Sound Power & Light	80,835	87,207	168,043	96,086	106,508	100,092	470,728	51,823	51,823
17 Portland General Electric	67,709	57,554	125,263	62,058	68,703	67,341	323,366	41,231	41,231
18 Oregon Trail Co-op	2,207	2,223	4,429	2,239	2,389	2,621	11,679	1,468	1,468
19 Utah Power and Light	14,862	15,115	29,977	15,348	15,515	15,666	76,506	5,774	5,774
Implementation, PRAM & ETCA	11,692	11,769	23,461	1,901	2,033	2,111	29,506		
20 Totals	195,122	192,081	387,202	196,250	214,072	207,041	1,004,566	156,513	152,521

RESIDENTIAL EXCHANGE LOADS	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>Total 2YR</u>	<u>Total 5YR</u>
AMW	3,473.69	3,524.05	3,575.57	3,614.85	3,668.71		
Conversion Factor	8.76	8.76	8.76	8.784	8.76		
GWH	30,430	30,871	31,322	31,753	32,138	61,300	156,513

	<u>5Yr Exch Avg MW</u>	<u>5Yr Exch Net Cost</u>	<u>Avg Net Cost Per KwH</u>
1 Montana Power Company	60		
2 Pacific Power & Light	988	69,703	1.610
3 Lincoln Electric Co-op			
4 Benton REA	31	1,233	0.910
5 Clearwater Power Co-op	13	1,018	1.840
6 Consumer's Power Co-op	26	2,385	2.060
7 Umatilla Electric Co-op	24		
8 Raft River Electric	18	240	0.309
9 Blachly Lane Co-op	7	849	2.961
10 Coos-Curry Co-op	22	2,663	2.821
11 Fall River Electric Co-op	12	914	1.810
12 Douglas Electric Co-op	12	1,552	2.861
13 Lost River Co-op	6		
14 Lower Valley Power and Light	25	3,546	3.271
15 Central Electric Co-op	39	8,678	5.092
16 Puget Sound Power & Light	1,183	470,728	9.088
17 Portland General Electric	941	323,366	7.847
18 Oregon Trail Co-op	34	11,679	7.959
19 Utah Power and Light	132	76,506	13.257

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RESEX01_p2

11	12	13	14	15	7(b)(2) Amt	Allocated to	Allocated to	Allocated to	PF Exch	DSI	NR	Total
Adj Net cost	Adj Net cost	Adj Net cost	Adj Net cost	Adj Net cost	Balance	PF Exchange	DSI	NR	Alloc Fctr	Alloc Fctr	Alloc Fctr	Alloc Fctr
Per KWH	Per KWH	Per KWH	Per KWH	Per KWH								
					621,399							
					621,399				3,571	1,894	1	5,466
					621,399				3,571	1,894	1	5,466
					621,399				3,511	1,894	1	5,406
					406,952	138,938	75,467	41	3,487	1,894	1	5,382
					242,807	106,014	58,099	31	3,456	1,894	1	5,351
					198,839	24,869	19,089	10	2,467	1,894	1	4,362
					204,557	(3,227)	(2,490)	(1)	2,455	1,894	1	4,350
					157,027	26,769	20,749	11	2,443	1,894	1	4,338
					487,708	(185,355)	(145,247)	(79)	2,417	1,894	1	4,312
					15,361	263,908	208,326	113	2,399	1,894	1	4,294
0.040					7,875	4,166	3,318	2	2,378	1,894	1	4,273
0.140	0.100				(10,795)	10,365	8,300	4	2,365	1,894	1	4,260
-2.821	-2.861	-2.961			540,843	(305,892)	(245,613)	(133)	2,359	1,894	1	4,254
0.450	0.410	0.310	3.271		(67,662)	337,015	271,343	147	2,352	1,894	1	4,247
2.271	2.231	2.131	5.092	1.821	(0)	(37,297)	(30,348)	(16)	2,328	1,894	1	4,222
6.268	6.228	6.128	9.088	5.817								
5.026	4.986	4.886	7.847	4.576								
5.138	5.098	4.998	7.959	4.688								
10.436	10.396	10.296	13.257	9.986								
					621,399	380,274	240,994	131				

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RATE DESIGN STUDY
Statement A
Revenue at Proposed Rates
(\$ Thousands)
NF/SP Average of 50 Water Years
Fiscal Year 1997

RDS 70

	A	B	C	D	E
	<u>Billing Determinants</u>		<u>Total</u>	<u>FCRTS</u>	<u>Generation</u>
	<u>(MCP MWh)</u>	<u>(GWh)</u>	<u>Revenue</u>	<u>Revenue</u>	<u>Revenue</u>
1	Priority Firm Power (PF)				
2	Preference				
3	Exchange				
4	Total PF				
5	Industrial Firm (IP)				
6	Special Industrial (SI)				
7	New Resources Firm (NR)				
8	Surplus Power				
9	Short Term PNW (SP)				
10	Short Term PSW (SP)				
11	Long Term PNW				
12	Long Term PSW				
13	Nonfirm Energy (NF)				
14	Northwest				
15	Southwest				
16	Supplemental Capacity				
17	Entitlement Capacity				
18	Formula Power Transmission (FPT-1)				
19	Formula Power Transmission (FPT-3)				
20	Integration of Resources (IR)				
21	Energy Transmission (ET)				
22	Use of Facilities (UFT)				
23	Townsend-Garrison (TGT)				
24	Northern Intertie (IN)				
25	Southern Intertie (IS)				
26	Eastern Intertie (IE)				
27	Supplemental Capacity Trans. & CSPE				
28	Irrigation Pumping Power				
29	Interchange				
30	WNP-3 Exchange				
31	Miscellaneous Revenue				
32	Nonfederal Participation Depr Credit				
33	Southern Intertie Annual Cost (AC)				
34	Other				
35	Total				
36	Total with Residential Exchange				
37	Total without Residential Exchange				

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RATE DESIGN STUDY
Statement A
Revenue at Proposed Rates
(\$ Thousands)
NF/SP Average of 50 Water Years
Fiscal Year 1998

RDS 71

	A	B	C	D	E
	<u>Billing Determinants</u> <u>(MCP MWs)</u>	<u>(GWh)</u>	<u>Total</u> <u>Revenue</u>	<u>FCRTS</u> <u>Revenue</u>	<u>Generation</u> <u>Revenue</u>
1	Priority Firm Power (PF)				
2	Preference				
3	Exchange				
4	Total PF				
5	Industrial Firm (IP)				
6	Special Industrial (SI)				
7	New Resources Firm (NR)				
8	Surplus Power				
9	Short Term PNW (SP)				
10	Short Term PSW (SP)				
11	Long Term PNW				
12	Long Term PSW				
13	Nonfirm Energy (NF)				
14	Northwest				
15	Southwest				
16	Supplemental Capacity				
17	Entitlement Capacity				
18	Formula Power Transmission (FPT-1)				
19	Formula Power Transmission (FPT-3)				
20	Integration of Resources (IR)				
21	Energy Transmission (ET)				
22	Use of Facilities (UFT)				
23	Townsend-Garrison (TGT)				
24	Northern Intertie (IN)				
25	Southern Intertie (IS)				
26	Eastern Intertie (IE)				
27	Supplemental Capacity Trans. & CSPE				
28	Irrigation Pumping Power				
29	Interchange				
30	WNP-3 Exchange				
31	Miscellaneous Revenue				
32	Nonfederal Participation Depr Credit				
33	Southern Intertie Annual Cost (AC)				
34	Other				
35	Total				
36	Total with Residential Exchange				
37	Total without Residential Exchange				

Routing: MPPD
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RATE DESIGN STUDY
Statement A
Revenue at Proposed Rates
(\$ Thousands)
NF/SP Average of 50 Water Years
Fiscal Year 1999

RDS 72

	A	B	C	D	E
	<u>Billing Determinants</u> <u>(MCP MWs)</u>	<u>(GWh)</u>	<u>Total</u> <u>Revenue</u>	<u>FCRTS</u> <u>Revenue</u>	<u>Generation</u> <u>Revenue</u>
1	Priority Firm Power (PF)				
2	Preference				
3	Exchange				
4	Total PF				
5	Industrial Firm (IP)				
6	Special Industrial (SI)				
7	New Resources Firm (NR)				
8	Surplus Power				
9	Short Term PNW (SP)				
10	Short Term PSW (SP)				
11	Long Term PNW				
12	Long Term PSW				
13	Nonfirm Energy (NF)				
14	Northwest				
15	Southwest				
16	Supplemental Capacity				
17	Entitlement Capacity				
18	Formula Power Transmission (FPT-1)				
19	Formula Power Transmission (FPT-3)				
20	Integration of Resources (IR)				
21	Energy Transmission (ET)				
22	Use of Facilities (UFT)				
23	Townsend-Garrison (TGT)				
24	Northern Intertie (IN)				
25	Southern Intertie (IS)				
26	Eastern Intertie (IE)				
27	Supplemental Capacity Trans. & CSPE				
28	Irrigation Pumping Power				
29	Interchange				
30	WNP-3 Exchange				
31	Miscellaneous Revenue				
32	Nonfederal Participation Depr Credit				
33	Southern Intertie Annual Cost (AC)				
34	Other				
35	Total				
36	Total with Residential Exchange				
37	Total without Residential Exchange				

Routing: MPPD
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RATE DESIGN STUDY
Statement A
Revenue at Proposed Rates
(\$ Thousands)
NF/SP Average of 50 Water Years
Fiscal Year 2000

RDS 73

	A	B	C	D	E
	<u>Billing Determinants</u> <u>(MCP MWs)</u>	<u>(GWh)</u>	<u>Total</u> <u>Revenue</u>	<u>FCRTS</u> <u>Revenue</u>	<u>Generation</u> <u>Revenue</u>
1	Priority Firm Power (PF)				
2	Preference				
3	Exchange				
4	Total PF				
5	Industrial Firm (IP)				
6	Special Industrial (SI)				
7	New Resources Firm (NR)				
8	Surplus Power				
9	Short Term PNW (SP)				
10	Short Term PSW (SP)				
11	Long Term PNW				
12	Long Term PSW				
13	Nonfirm Energy (NF)				
14	Northwest				
15	Southwest				
16	Supplemental Capacity				
17	Entitlement Capacity				
18	Formula Power Transmission (FPT-1)				
19	Formula Power Transmission (FPT-3)				
20	Integration of Resources (IR)				
21	Energy Transmission (ET)				
22	Use of Facilities (UFT)				
23	Townsend-Garrison (TGT)				
24	Northern Intertie (IN)				
25	Southern Intertie (IS)				
26	Eastern Intertie (IE)				
27	Supplemental Capacity Trans. & CSPE				
28	Irrigation Pumping Power				
29	Interchange				
30	WNP-3 Exchange				
31	Miscellaneous Revenue				
32	Nonfederal Participation Depr Credit				
33	Southern Intertie Annual Cost (AC)				
34	Other				
35	Total				
36	Total with Residential Exchange				
37	Total without Residential Exchange				

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RATE DESIGN STUDY
Statement A
Revenue at Proposed Rates
(\$ Thousands)
NF/SP Average of 50 Water Years
Fiscal Year 2001

RDS 74

	A	B	C	D	E
	<u>Billing Determinants</u> <u>(MCP MWs)</u>	<u>(GWh)</u>	<u>Total</u> <u>Revenue</u>	<u>FCRTS</u> <u>Revenue</u>	<u>Generation</u> <u>Revenue</u>
1	Priority Firm Power (PF)				
2	Preference				
3	Exchange				
4	Total PF				
5	Industrial Firm (IP)				
6	Special Industrial (SI)				
7	New Resources Firm (NR)				
8	Surplus Power				
9	Short Term PNW (SP)				
10	Short Term PSW (SP)				
11	Long Term PNW				
12	Long Term PSW				
13	Nonfirm Energy (NF)				
14	Northwest				
15	Southwest				
16	Supplemental Capacity				
17	Entitlement Capacity				
18	Formula Power Transmission (FPT-1)				
19	Formula Power Transmission (FPT-3)				
20	Integration of Resources (IR)				
21	Energy Transmission (ET)				
22	Use of Facilities (UFT)				
23	Townsend-Garrison (TGT)				
24	Northern Intertie (IN)				
25	Southern Intertie (IS)				
26	Eastern Intertie (IE)				
27	Supplemental Capacity Trans. & CSPE				
28	Irrigation Pumping Power				
29	Interchange				
30	WNP-3 Exchange				
31	Miscellaneous Revenue				
32	Nonfederal Participation Depr Credit				
33	Southern Intertie Annual Cost (AC)				
34	Other				
35	Total				
36	Total with Residential Exchange				
37	Total without Residential Exchange				

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RATE DESIGN STUDY
Statement A
Revenue at Proposed Rates
(\$ Thousands)
NF/SP Average of 50 Water Years
Test Period October 1997 - September 2001

RDS 75

	A	B	C	D	E
	<u>Billing Determinants</u> <u>(MCP MWs)</u>	<u>(GWh)</u>	<u>Total</u> <u>Revenue</u>	<u>FCRTS</u> <u>Revenue</u>	<u>Generation</u> <u>Revenue</u>
1	Priority Firm Power (PF)				
2	Preference				
3	Exchange				
4	Total PF				
5	Industrial Firm (IP)				
6	Special Industrial (SI)				
7	New Resources Firm (NR)				
8	Surplus Power				
9	Short Term PNW (SP)				
10	Short Term PSW (SP)				
11	Long Term PNW				
12	Long Term PSW				
13	Nonfirm Energy (NF)				
14	Northwest				
15	Southwest				
16	Supplemental Capacity				
17	Entitlement Capacity				
18	Formula Power Transmission (FPT-1)				
19	Formula Power Transmission (FPT-3)				
20	Integration of Resources (IR)				
21	Energy Transmission (ET)				
22	Use of Facilities (UFT)				
23	Townsend-Garrison (TGT)				
24	Northern Intertie (IN)				
25	Southern Intertie (IS)				
26	Eastern Intertie (IE)				
27	Supplemental Capacity Trans. & CSPE				
28	Irrigation Pumping Power				
29	Interchange				
30	WNP-3 Exchange				
31	Miscellaneous Revenue				
32	Nonfederal Participation Depr Credit				
33	Southern Intertie Annual Cost (AC)				
34	Other				
35	Total				
36	Total with Residential Exchange				
37	Total without Residential Exchange				