2.3 Rate Design Study

Description of Tables in the Rates Analysis Model (RAM)

RDS_01 Total Allocated Power Revenue Requirement. Table summarizes cost allocations done in the COSA section of the Rates Analysis Model. This table also initiates the Rates Design Study (RDS) section of the Rates Analysis Model, which adjusts the allocated costs shown in this table to meet BPA's rate design objectives.

RDS_05 Average Cost of Nonfirm Energy. Table calculates the average cost of nonfirm energy. The calculation divides the forecasted BPA system costs associated with producing nonfirm energy by the total sales forecasted for the rate period. This amount is shown on the last line of this table. Residential Exchange Program resource costs and sales are not included in this calculation. Projected Trading Floor Sale and Contract Sales numbers come from *Bulk Power Marketing - PSB*; PF and IP sales forecasts are from *Eastern Power Business Area - PSE.*

RDS_06 Bonneville Average System Cost (BASC). Table calculates BASC. This amount is BPA's test period total revenue requirements divided by total power sales, both firm and nonfirm. Residential Exchange Program resource costs and sales are included in this calculation.

RDS_11 SP Revenue Recovery and Excess Revenue Credits. Table summarizes total excess revenue from secondary power sales and the total surplus firm power revenue recovery. Secondary sales data are from *Power Business Risk Management - PR*; FPS sales are forecasted by *Bulk Power Marketing - PSB*; Transmission costs are from *Transmission and Reserve Service - PST.*

RDS_12 Allocated Excess Revenue Credit-Generation. Table allocates excess revenue credit from table RDS_11 to PF, IP, NR, and FPS rate pools. The allocation is based on the service provided by the FBS and NR resources to these rate pools.

RDS_17 Surplus Firm Power Revenues Surplus/(Deficiency). Table calculates the firm surplus sale revenue surplus/deficiency. Generation revenue requirement costs allocated to FPS sales in table COSA_11 are reduced by the excess revenue credit allocated to FPS sales in table RDS_12. The resulting Total Allocated & Adjusted costs are compared with the revenues recovered from FPS sales from table RDS_11 resulting in a revenue deficit. This revenue deficit is allocated in table RDS_18.

RDS_18 Allocated Surplus Firm Power Revenues Surplus/(Deficiency). Table allocates the revenue deficit calculated in RDS_17 to PF, IP, and NR rate pools. The allocation is based on the service provided by the FBS and NR resources to these rate pools.

Description of Tables in the Rates Analysis Model (RAM)

RDS_19 Pre 7(c)(2) Allocated and Adjusted Energy Costs. Table shows the costs allocated to customer classes at this point in the modeling. COSA allocations are adjusted for the Excess Revenue Credit and the Surplus Revenue Surplus/Deficiency. These allocated and adjusted costs are used in RDS_20.

RDS_20 7(c)(2) Delta Initialization. Table calculates values to be used in the 7(c)(2) delta calculation. The 7(c)(2) delta is the difference between the costs allocated to the IP rate class at this point in the modeling and the expected revenues at rates applicable to the IP rate class. At this point in the model, the IP rate is determined by a link to the PF rate. This table calculates IP class revenues at PF rates and revenues at the DSI net margin. The 7(c)(2) delta is calculated by the formula shown in RDS_21 using the results of this table. DSI net margin value from *Power, Products Pricing and Rates -PSP.*

RDS_21 7(c)(2) Delta Calculation. Table solves a formula for calculating the 7(c)(2) delta appropriate for this point in the model.

RDS_22 Allocation of 7(c)(2) Delta. Table allocates the 7(c)(2) delta from RDS_21 to PF and NR rate classes based on allocation factors developed in EAF01_05.XLS.

RDS_23 Industrial Firm Power Floor Rate Calculation. The IP-83 rates are applied to the current DSI test period billing determinants to determine an average rate. Adjustments are made for Transmission, Exchange Cost, and Deferral to yield the DSI floor rate.

RDS_24 Industrial Firm Power Floor Rate Test. Table performs the DSI floor rate test and calculates the DSI floor rate adjustment if applicable. IP revenue under proposed rates is compared with revenue under the DSI floor rate. If DSI floor rate revenues are greater, a DSI floor rate adjustment is required. The amount of the DSI floor rate adjustment is then added to the IP allocated costs and subtracted from the other firm power rate pools allocated costs.

RDS_30 Calculation of 7(b)(2) Protection Amount. Table calculates the 7(b)(2) PF preference protection amount, based on the "7(b)(2) trigger" calculated in the 7(b)(2) rate test. The protection amount is the 7(b)(2) trigger in mills/kWh times the PF preference billing determinants.

RDS_31 Allocation of 7(b)(2) Protection Amount. Table allocates the 7(b)(2) protection amount from RDS_30 to PF Exchange, IP, and NR rate pools. Allocation is based on allocation factors developed in EAF01_05.XLS.

Description of Tables in the Rates Analysis Model (RAM)

RDS_32 Recalculation of 7(c)(2) Delta for 7(b)(2) Industrial Adjustment. Table recalculates IP revenues at the PF preference rate after the 7(b)(2) rate test. This table prepares values to be used in the 7(b)(2) Industrial Adjustment_7(c)(2) Delta Calculation table, RDS_33. The IP-PF link must be recalculated when the PF preference rate is reduced due to the 7(b)(2) rate test.

RDS_33 7(b)(2) Industrial Adjustment_7(c)(2) Delta Calculation. Table calculates the 7(b)(2) Industrial Adjustment_7(c)(2) Delta. The 7(b)(2) Industrial Adjustment_7(c)(2) Delta is the difference between the DSI allocated revenue requirement at this point in the modeling and the expected DSI revenues. Expected DSI revenues are; IP revenues at the PF preference rate; plus revenues at the DSI net margin; plus 7(b)(2) protection amount allocated to the IP class.

RDS_34 7(b)(2) Industrial Adjustment_7(c)(2) Delta Allocation. Table allocates the 7(b)(2) Industrial Adjustment_7(c)(2) Delta, calculated in RDS_33, to PF Exchange and NR rate pools based on allocation factors developed in EAF01_05.XLS.

RDS_34A 7(b)(2) Exchange Cost Adjustment Allocation. Table calculates the increase in the gross Residential Exchange Program cost resulting from the 7(b)(2) rate test and the concomitant increase in the PF Exchange Program rate. The increase is allocated to the PF Exchange and NR rate pools. The allocation is based on allocation factors developed in EAF01_05.XLS.

RDS_35 Priority Firm Preference Rate Schedule Charge Calculation. Table calculates the PF Preference rates, using the unbifurcated PF energy rates from RDS_50 and adjusting them for the 7(b)(2) credits, C&RD costs, LDD costs, and S&I Rate Mitigation costs.

RDS_36 Priority Firm Exchange Rate Schedule Charge Calculation. Table calculates the PF Exchange rates, using the unbifurcated PF energy rates from RDS_50 and adjusting for allocated 7(b)(2) costs.

RDS_40 Summary of COSA and Rate Design Adjustments. Table provides a summary of Rate Design Adjustments and their contras. This table shows where the costs went during the cost adjustment and from where the costs came.

RDS_41 Summary of COSA and Rate Design Adjustments. Table provides a summary of rate design adjustments, totaling information in RDS_40, and provides other adjustments to separate energy from generation demand, load variance and transmission.

RDS_50 Priority Firm Rate Schedule Charge Calculation. Table calculates unbifurcated PF rates. Marginal cost rates are scaled down to produce rates that recover costs allocated to PF energy.

Description of Tables in the Rates Analysis Model (RAM)

RDS_51 Industrial Firm Rate Schedule Charge Calculation. Table calculates IP rates. Marginal cost rates are scaled down to produce rates that recover costs allocated to IP energy.

RDS_52 New Resource Firm Rate Schedule Charge Calculation. Table calculates NR rates. Marginal cost rates are scaled down to produce rates that recover costs allocated to NR energy.

Routing: PSP

RDS01

RATE DESIGN STUDY
Total Allocated Power Revenue Requirement
Test Period October 2001 - September 2006
($ Thousands)

		A	B	C	D	E	F
		Grand Total	Transmission Total	Generation Total	Annual Energy	Generation Demand	Load Variance
1	CLASSES OF SERVICE						
2	Power Rates						
3	Priority Firm - Preference	5,821,014	559,266	5,261,747	4,317,232	720,569	223,945
4	Priority Firm - Exchange	6,923,401	-	1,691,185	1,254,897	212,342	-
5	Priority Firm Power Total	7,288,253	559,266	6,728,987	5,572,130	932,912	223,945
6	Industrial Firm Power	1,442,577	87,912	1,354,665	1,235,915	118,751	-
7	New Resources Firm Power	1,369	-	1,369	1,249	120	-
8	Surplus Firm Power	3,887,363	260,417	3,626,946	3,626,946	-	-
9	Nonfirm Energy	-	-	-	-	-	-
10	Sup/Ent Cap; Irr. Pump	3,059	-	3,059	3,059	-	-
11	Entitlement Capacity	-	-	-	-	-	-
12	Total	12,622,621	907,595	11,715,026	10,439,298	1,051,782	223,945
13	Other Power Services						
14	Montana Cap/Energy Exchange	-	-	-	-	-	-
15	Post-Act Exchanges	-	-	-	-	-	-
16	Colville Credit	23,000	-	23,000	23,000	-	-
17	'4(h)(10)(c)	457,935	-	457,935	457,935	-	-
18	FCCF	130,326	-	130,326	130,326	-	-
19	Net Transmission Services Costs	109,849	-	109,849	109,849	-	-
20	Total	721,110	-	721,110	721,110	-	-
21	Miscellaneous Revenue						
22	COE & USBR Project Revenues	40,500	-	40,500	40,500	-	-
23	Energy Efficiency Revenues	66,426	-	66,426	66,426	-	-
24	Property Trnfrs & Misc.	17,080	-	17,080	17,080	-	-
25	Total	124,006	-	124,006	124,006	-	-
26							
27	Grand Total	13,467,737	907,595	12,560,141	11,284,414	1,051,782	223,945

Routing: PSP

RATE DESIGN STUDY
Average Cost of Nonfirm Energy
Test Period October 2001 - September 2006

RDS05

		A
		Total
1	Generation Costs ($ Thousands)	
2	Federal Base System	9,155,495
3	New Resources	184,978
4	Exchange	
5	Conservation and ESB	752,744
6	BPA Programs	470,262
7	WNP-3 Settlement Plant	15,762
8	Total Generation Costs	10,579,240
9	Transmission Costs For Firm Power	907,595
10	Transmission Costs For Nonfirm Pwr	348,690
11	Total Costs	11,835,526
12		
13	Firm Power Sales (GWh)	
14	Priority Firm	190,208
15	Projected Displacement	
16	Industrial Power/Variable Industrial	43,386
17	Special Industrial Power	
18	New Resources	44
19	Surplus Firm Power - Contracts	126,113
20	Surplus Spot Market Sales	
21	Northwest	
22	Southwest	
23	Irrigation Pumping Power	662
24	Total Firm	360,413
25	Projected Trading Flr Sales	109,643
26	Interchange	
27	Total Sales	470,055
28		
29	Average Cost of Nonfirm (mills/kwh)	**25.18**

Routing: PSP | **RATE DESIGN STUDY** | **RDS06**

Bonneville Average System Cost (BASC)
Test Period October 2001 - September 2006
($Thousands)

		A
1	Revenue Requirement:	
2	Cost of Service Analysis	13,468,323
3	7(b)(2) Exchange Cost Adj.	1,732
4	Total	13,470,056
5		
6	Sales (GWh)	
7	Firm Power	360,413
8	Residential Exchange	55,411
9	Nonfirm Energy	109,643
10		
11		0
12	Total	525,466
13		
14	Bonneville Average System Cost:	
15	(mills/kwh)	**25.63**

Routing: PSP

RDS 11

RATE DESIGN STUDY
SP Revenue Recovery and Excess Revenue Credit
Average of 50 Water Years
Test Period October 2001 - September 2006
($ Thousands)

		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	Study Total
1	**Surplus Power Revenue**						
2							
3	**FPS Contract-OTFAC PNW**	110,179	107,282	98,598	98,187	83,327	497,573
4	**FPS Contract-OTFAC PSW**	258,921	234,856	186,253	174,131	170,377	1,024,538
5	**FPS Sales to PNW**	174,771	174,753	175,288	174,766	174,774	874,352
6	**FPS Sales East& West Hubs**	153,431	155,547	157,388	159,214	160,114	785,693
7	**Total FPS Revenues**	697,302	672,438	617,527	606,298	588,592	3,182,156
8							
9	**FPS Pre-Subscription Adjust.**	0	0	0	0	0	0
10	**FPS Transmission Charges**	43,712	47,560	56,479	56,333	56,333	260,417
11	**FPS Generation Revenues**	653,590	624,878	561,048	549,965	532,259	2,921,739
12							
13	**Nonfirm Energy Revenues:**						
14	**Revenues PNW Sales**	474,349	513,823	510,227	537,464	542,124	2,577,987
15	**Revenues PSW Sales**	0	0	0	0	0	0
16	**Total NF Revenues**	474,349	513,823	510,227	537,464	542,124	2,577,987
17							
18	**NF Transmission Charges**						
19	**NF PNW Transmission Charges**	79,637	73,146	66,574	64,552	64,781	348,690
20	**NF PSW Transmission ET**	0	0	0	0	0	0
21	**Total NF Transmission ISA**	0	0	0	0	0	0
22	**Other Transmission**	0	0	0	0	0	
23	**Total NF Transmission**	79,637	73,146	66,574	64,552	64,781	348,690
24							
25	**NF Generation Revenues**	394,712	440,677	443,653	472,912	477,343	2,229,297
26							
27	**Assured Delivery Mitigation**						
28							
29	**Total NF Excess Revenues**	394,712	440,677	443,653	472,912	477,343	2,229,297

Routing: PSP

RATE DESIGN STUDY RDS 12

Allocated Excess Revenue Credit-Generation
Test Period October 2001 - September 2006
($Thousands)

		A	B
		aMW	Allocated Amount
1	**CLASSES OF SERVICE**		
2	**Power Rates**		
3	**Priority Firm - Preference**	4,481	(1,176,399)
4	**Priority Firm - Exchange**	1,302	(341,946)
5	**Priority Firm Power Total**	5,783	(1,518,345)
6	**Industrial Firm Power**	686	(180,155)
7	**Special Industrial Power**		
8	**New Resources Firm Power**	1	(182)
9	**Surplus Firm Contract-FAC**		
10	**Surplus Firm - Contract OTFAC**	2,021	(530,615)
11	**Surplus Firm Open Market**		
12	**Nonfirm Energy**		
13	**Supplemental Capacity**		
14	**Entitlement Capacity**		
15	**Total**	8,491	(2,229,297)
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**	8,491	(2,229,297)

Routing: PSP | **RATE DESIGN STUDY** | **RDS 17**

Surplus Firm Power Revenue Surplus/(Deficiency)
Test Period October 2001 - September 2006
($Thousands)

		A Total Allocated Costs
1	**Allocated Costs:**	
2	**Federal Base System**	1,695,429
3	**Exchange Costs**	1,475,822
4	**New Resources**	119,374
5	**Conservation**	191,144
6	**Other Generation**	129,258
7	**DSM Business Net Cost**	15,920
8	**Exchange Transmission**	0
9	**COSA Total**	3,626,946
10	**Adjustments:**	
11	**Excess Revenue Credit**	(530,615)
12	**WNP-3 Credit**	
13	**Transmission Rev Deficiencies**	
14	**Federal Trans Reallocation**	
15	**Federal Unbundled Reallocation**	
16	**Total Allocated & Adj. Costs**	3,096,331
17		
18		
19	**Recovered Costs**	2,921,739
20		
21	**Revenue Surplus/(Deficiency)**	(174,592)

Routing: PSP | **RDS 18**

RATE DESIGN STUDY
Allocated Surplus Firm Power Revenue Surplus/(Deficiency)
Test Period October 2001 - September 2006
($Thousands)

		A	B
		aMW	Allocated Amount
1	**CLASSES OF SERVICE**		
2	**Power Rates**		
3	**Priority Firm - Preference**	4,481	120,911
4	**Priority Firm - Exchange**	1,302	35,145
5	**Priority Firm Power**	5,783	156,057
6	**Industrial Firm Power**	686	18,516
7	**Special Industrial Power**		
8	**New Resources Firm Power**	0.7	19
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**	6,470	174,592
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**	6,470	174,592

Routing: PSP

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

		COSA Total	WNP-3 Excess Rev Credit Adjustment	Nonfirm Excess Revenue Credit	SP Contractual Rev Surplus Adjustment	Pre 7(c)(2) Total Allocated & Adjusted Costs
1	**CLASSES OF SERVICE**					
2	**Power Rates**					
3	**Priority Firm Power - Preference**	4,317,232	0	(1,176,399)	120,911	3,261,745
4	**Priority Firm Power - Exchange**	1,254,897	0	(341,946)	35,145	948,097
5	**Priority Firm Total**	5,572,130	0	(1,518,345)	156,057	4,209,841
6	**Industrial Firm Power**	1,235,915	0	(180,155)	18,516	1,074,277
7	**Special Industrial Power**			0	0	0
8	**New Resources Firm Power**	1,249	0	(182)	19	1,085
9	**Surplus Firm Contract-FAC**			0	0	0
10	**Surplus Firm - Contract OTFAC**	3,626,946	0	(530,615)	0	3,096,331
11	**Surplus Firm Open Market**			0	0	0
12	**Nonfirm Energy**			0	0	0
13	**Supplemental Capacity**	3,059		0	0	3,059
14	**Entitlement Capacity**	0		0	0	0
15	**Total**	10,439,298	0	(2,229,297)	174,592	8,384,593
16	**Other Power Services**					
17	**Montana Cap/Energy Exchange**					0
18	**Post-Act Exchanges**					0
19	**Colville Credit**	23,000				23,000
20	**'4(h)(10)(c)**	457,935				457,935
21	**FCCF**	130,326				130,326
22	**Net Transmission Services Costs**	109,849				109,849
23	**Total**	721,110	0	0	0	721,110
24	**Miscellaneous Revenue**					
25	**COE & USBR Project Revenues**	40,500				40,500
26	**Energy Efficiency Revenues**	66,426				66,426
27	**Other Miscellaneous Revenue**	17,080				17,080
28	**Total**	124,006	0	0	0	124,006
29	**Grand Total**	11,284,414	0	(2,229,297)	174,592	9,229,709

RATE DESIGN STUDY
7(C)(2) Delta Initialization
Test Period October 2001 - September 2006
($ Thousands)

	HLH	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total HLH	Total HLH+LLH
1	BASE REVENUE														
2	PF Billing Determinants	11,220	12,994	16,390	17,634	16,155	15,338	14,029	9,945	8,785	8,706	10,868	12,361	154,424	245,619
3	Marginal Cost of Firm Power (mills/kwh)	28.25	37.77	38.85	34.65	32.08	29.18	23.11	23.02	28.54	37.15	54.43	39.34		
4	PF Revenues @ Marginal Cost Rates	316,958	490,774	636,736	611,025	518,239	447,560	324,208	228,943	250,737	323,412	591,547	486,279	5,226,417	7,394,019
5	PF Allocated Energy Costs														
6	Energy Scaling Factor														
7	Applicable PF Rates	16.08	21.50	22.12	19.73	18.26	16.61	13.16	13.11	16.25	21.15	30.99	22.40		
8	PF Costs @ Scaled Rates	180,462	279,426	362,530	347,892	295,063	254,822	184,590	130,350	142,759	184,137	336,802	276,867	2,975,700	4,209,841
9															
10	IP Billing Determinants	2,107	2,012	2,075	2,091	1,901	2,107	2,043	2,091	2,028	2,091	2,107	2,028	24,679	43,386
11	IP Revenue @ PF Rt Sched Chgs	33,885	43,260	45,899	41,249	34,718	35,001	26,886	27,404	32,946	44,226	65,288	45,413	476,176	727,914
12	IP Net Margin	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0	0.42	0.42	0.42	0.42		
13	Revenues @ IP Net Margin	885	845	872	878	798	885	858	878	852	878	885	852	10,365	18,222
14	IP Marginal Cost Rate Revenues	59,515	75,981	80,615	72,449	60,978	61,474	47,222	48,132	57,865	77,676	114,669	79,763	836,339	1,278,484
15															

16	LLH	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total LLH
17	BASE REVENUE													
18	PF Billing Determinants	6,816	7,503	9,243	11,593	10,264	9,284	8,052	6,261	4,826	4,964	5,489	6,900	91,195
19	Marginal Cost of Firm Power (mills/kwh)	20.75	30.64	30.07	24.71	23.04	20.18	15.85	13.24	15.82	25.62	31.00	32.44	
20	PF Revenues @ Marginal Cost Rates	141,428	229,886	277,951	286,453	236,481	187,354	127,627	82,890	76,350	127,188	170,151	223,844	2,167,602
21	PF Allocated Energy Costs													
22	Energy Scaling Factor													
23	Applicable PF Rates	11.81	17.45	17.12	14.07	13.12	11.49	9.02	7.54	9.01	14.59	17.65	18.47	
24	PF Costs @ Scaled Rates	80,523	130,887	158,253	163,094	134,642	106,672	72,665	47,194	43,470	72,416	96,876	127,447	1,234,141
25														
26	IP Billing Determinants	1,581	1,552	1,608	1,592	1,449	1,576	1,516	1,592	1,536	1,592	1,576	1,536	18,707
27	IP Revenue @ PF Rt Sched Chgs	18,679	27,080	27,526	22,396	19,013	18,109	13,678	12,000	13,839	23,221	27,818	28,379	251,738
28	IP Net Margin	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	
29	Revenues @ IP Net Margin	664	652	675	669	609	662	637	669	645	669	662	645	7,857
30	IP Marginal Cost Rate Revenues	32,806	47,563	48,345	39,336	33,393	31,805	24,024	21,077	24,307	40,785	48,858	49,843	442,144
31														

32-34		Unbundled Requirements Products	Transmission Total	Generation Demand Total	Energy Total	Totals
35						
36	BASE REVENUE					
37	PF Billing Determinants			461,957	245,619	
38	Marginal Cost of Firm Power (mills/kwh)			2.02		
39	PF Revenues @ Marginal Cost Rates	289,185	825,933	931,842	7,394,019	
40	PF Allocated Energy Costs					
41	Energy Scaling Factor					
42	Applicable PF Rates			2.02		
43	PF Costs @ Scaled Rates	289,185	825,933	931,842	4,209,841	6,256,800
44						
45	IP Billing Determinants			59,400	43,386	
46	IP Revenue @ PF Rt Sched Chgs		87,912	119,819	727,914	
47	IP Net Margin					
48	Revenues @ IP Net Margin				18,222	
49	IP Marginal Cost Rate Revenues				1,278,484	
50						
51	DELTA REVENUE FACTOR					
52	PF Allocation Factor (AMW)					
53	Total 7(C)(2) Allocation Factors					
54	Industrial Firm Power (allocated cost					
55	at this point in RDS):		87,912	118,751	1,074,277	1,280,939

Routing: PSP

RATE DESIGN STUDY
7(C)(2) Delta Calculation
Test Period October 2001 - September 2006
($ Thousands)

RDS 21

		A
1	IP Allocated Costs	1,280,939
2	IP Revenues @ Net Margin	18,222
3	IP Trans, Demand & Unbundled Revenues	206,663
4	IP Marginal Cost Rate Revenues	1,278,484
5	PF Marginal Cost Rate Revenues	7,394,019
6	PF Allocated Energy Costs	4,209,841
7	Numerator: 1-2-3-((4/5)*6)	328,140
8		0
9	PF Allocation Factor for Delta	5,783
10	NR Allocation Factor for Delta	1
11	Total Allocation Factors for Delta	5,784
12	Denominator: 1.0 + ((9/11)*(4/5))	1
13		
14	DELTA: (7/12)	279,771

$$\text{DELTA} = \frac{(\text{DSI Allocated Cost - Net Margin Rev. - Demand Rev.}) - \dfrac{(\text{DSI Marginal Rate Revenues})}{(\text{PF Marginal Rate Revenues})} \times \text{PF Allocated Costs}}{1 + \dfrac{\text{PF Allocation Factors}}{\text{PF + NR Allocation Fctrs}} \times \dfrac{\text{DSI Marginal Cost Rate Revenues}}{\text{PF Marginal Cost Rate Revenues}}}$$

Routing: PSP

RATE DESIGN STUDY
Allocation of 7(C)(2) Delta
Test Period October 2001 - September 2006
($ Thousands)

RDS 22

		Avg MW	Allocated Amount
1	CLASSES OF SERVICE		
2	**Power Rates**		
3	Priority Firm - Preference	4,481	216,738
4	Priority Firm - Exchange	1,302	63,000
5	Priority Firm Power	5,783	279,738
6	Industrial Firm Power		(279,771)
7	Special Industrial Power		
8	New Resources Firm Power	1	34
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	5,784	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	5,784	0

Allocation Factors are Federal Base System and NR

Routing: PSP **RATE DESIGN STUDY** **RDS 23**

Industrial Firm Power Floor Rate Calculation
Test Period October 2001 - September 2006
($ Thousands)

		A	B	C	D	E	F
		DEMAND		ENERGY		Customer	Total/
		Winter (Dec-Apr)	Summer (May-Nov)	Winter (Sep-Mar)	Summer (Apr-Aug)	Charge	Average
1	IP Billing Determinants	24,750	34,650	25,214	18,171	59,400	43,386
2	IP-83 Rates	4.62	2.21	14.70	12.20	7.34	0.00
3	Revenue	114,345	76,577	370,650	221,692	435,996	1,219,260
4							
5	Exchange Adj Clause for OY 1985						
6	New ASC Effective Jul 1, 1984						
7	Actual Total Exchange Cost (AEC)	938,442					
8	Actual Exchange Revenue (AER)	772,029					
9	Forecasted Exchange Cost (FEC)	1,088,690					
10	Forecasted Exchange Revenue (FER)	809,201					
11	Total Under/Over-recovery (TAR)						
12	(TAR=(AEC-AER)-(FEC-FER))	(113,076)					
13	Exchange Cost Percentage for IP (ECP)	1					
14	Rebate or Surcharge for IP (CCEA=TAR*ECP)	(58,913)					
15	OY 1985 IP Billing Determinants	24,368					
16							
17	OY 1985 DSI Transmission Costs	92,960					
18							
19	Adjustment for Transmission Costs	(3.81)					
20	Adjustment for the Exchange (mills/kWh)	(2.42)					
21	Adjustment for the Deferral (mills/kWh)	(0.90)					
22	IP-83 Average Rate (mills/kWh)	28.10					
23	Floor Rate (mills/kWh)	20.98					

1 Demand billing determinants are the test period DSI load expressed in noncoincidental demand MWs.
15 Billing determinants as forecast in the 1983 Rate Case Final Proposal (WP-83-FS-BPA-07, p. 82).
17 Transmission Costs as forecast in the 1983 Rate Case Final Proposal (WP-83-FS-BPA-07, p. 80).
19 Line 17 / Line 15
20 Line 14 / Line 15
21 1985 Final Rate Proposal (WP-85-FS-BPA-08A, p. 15).
22 Line 3, Col F / Line 1, Col F
23 IP-83 Avg Rate adjusted for the effects of the Exchange and Deferral, Lines 19 + 20 + 21 + 22

Routing: PSP **RATE DESIGN STUDY** **RDS 24**

Industrial Firm Power Floor Rate Test
Test Period October 2001 - September 2006
($ Thousands)

		A	B	C	D	E	F
		Unbundled Requirements Products	Transmission Total	Generation Demand Total	Energy Total	Total	Average Rate
1	IP Billing Determinants				43,386		
2	Floor Rate (mills/kWh)				20.98		
3	Value of Reserves Credit (mills/kWh)						
4	Revenue at Floor Rate Less VOR Credit				910,022	910,022	20.98
5	IP Revenue Under Proposed Rates	0	0	118,751	952,269	1,071,020	24.69
6	Difference					0	

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

Routing: PSP | **RATE DESIGN STUDY** | **RDS 30**

Calculation of 7(b)(2) Protection Amount
Test Period October 2001 - September 2006
($Thousands)

		A	B	C
		Mills/KWH	Energy GWH	Amount ($ 000)
1	7(b)(2) Protection from			
2	7(b)(2) Study	3.4		
3	PF Preference Energy Billing Determinants		190,208	
4				
5	PF Preference Protection Amount			646,708

Routing: PSP | **RATE DESIGN STUDY** | **RDS 31**

Allocation of 7(b)(2) Protection Amount
Test Period October 2001 - September 2006
($Thousands)

		A	B
		Allocation Factor	Allocated Amount ($ 000)
1	CLASSES OF SERVICE		
2	**Power Rates**		
3	Priority Firm Power (Preference)		(646,708)
4	Priority Firm Power (Exchange)	1,302	362,838
5	Industrial Firm Power	1,018	283,583
6	Special Industrial Power		
7	New Resources Firm Power	1	287
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	2,321	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	2,321	0

RATE DESIGN STUDY
Recalculation of 7(C)(2) Delta For 7(b)(2) Industrial Adjustment
Test Period October 2001 - September 2006
($Thousands)

	HLH	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total HLH	Total HLH+LLH
1	PF Preference Billing Determinants	8,671	9,880	12,660	13,917	13,015	12,252	11,273	7,410	6,343	6,199	8,135	9,837	119,594	190,208
2	PF Preference Rate After 7(c)(2) Adjustment	17.15	22.93	23.59	21.04	19.48	17.72	14.03	13.98	17.33	22.56	33.05	23.89		
3	PF Pref Rate After 7(b)(2) Credit	13.75	19.53	20.19	17.64	16.08	14.32	10.63	10.58	13.93	19.16	29.65	20.49		
4	PF Pref Revenues After 7(b)(2) Credit	119,256	192,999	255,606	245,488	209,266	175,428	119,861	78,381	88,346	118,761	241,210	201,522	2,046,125	2,825,193
5															
6	IP Billing Determinants	2,107	2,012	2,075	2,091	1,901	2,107	2,043	2,091	2,028	2,091	2,107	2,028	24,679	43,386
7	IP Revenue @ PF Rt Sched Chgs	28,974	39,295	41,894	36,881	30,562	30,164	21,725	22,116	28,242	40,055	62,463	41,538	423,910	628,772
8	IP Net Margin	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42		
9	Revenues @ IP Net Margin	885	845	872	878	798	885	858	878	852	878	885	852	10,365	18,222
10															
11															

12	**LLH**	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total LLH
13	PF Preference Billing Determinants	5,261	5,698	7,133	9,146	8,266	7,412	6,465	4,658	3,472	3,523	4,096	5,485	70,614
14	PF Preference Rate After 7(c)(2) Adjustment	12.60	18.60	18.26	15.00	13.99	12.25	9.62	8.04	9.61	15.56	18.82	19.70	
15	PF Pref Rate After 7(b)(2) Credit	9.20	15.20	14.86	11.60	10.59	8.85	6.22	4.64	6.21	12.16	15.42	16.30	
16	PF Pref Revenues After 7(b)(2) Credit	48,397	86,630	105,988	106,123	87,534	65,620	40,240	21,608	21,544	42,822	63,175	89,387	779,067
17														
18	IP Billing Determinants	1,581	1,552	1,608	1,592	1,449	1,576	1,516	1,592	1,536	1,592	1,576	1,536	18,707
19	IP Revenue @ PF Rt Sched Chgs	14,544	23,602	23,888	18,472	15,348	13,953	9,434	7,385	9,535	19,352	24,308	25,040	204,862
20	IP Net Margin	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	
21	Revenues @ IP Net Margin	664	652	675	669	609	662	637	669	645	669	662	645	7,857
22														

23					
24		Unbundled		Generation	
25		Requirements	Transmission	Demand	Total
26		Products	Total	Total	Energy
27					
28					
29	PF Preference Billing Determinants			356,493	
30	PF Preference Rate After 7(c)(2) Adjustment			2.02	
31	PF Pref Rate After 7(b)(2) Credit				
32	PF Pref Revenues After 7(b)(2) Credit	223,945	559,266	719,930	
33					
34					
35					
36					
37	IP Billing Determinants			59,400	
38	IP Revenue @ PF Rt Sched Chgs	0	87,912	119,957	
39	IP Net Margin				
40	Revenues @ IP Net Margin				
41					
42					
43	Industrial Firm Power (allocated cost				
44	at this point in RDS):	0	87,912	118,751	794,505

Routing: PSP

RATE DESIGN STUDY **RDS 33**

7(b)(2) Industrial Adjustment 7(C)(2) Delta Calculation

Test Period October 2001 - September 2006

($Thousands)

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 ($ 000)
1	DSI Allocated Revenue Requirement	
2	after 7(c)(2) Adjustment	794,505
3	DSI Share of 7(b)(2) Adjustment	283,583
4		0
5	Total DSI Revenue Requirement	1,078,088
6		
7	DSI Revenues at PF Preference Rate	628,772
8	Revenues at Net Margin	18,222
9	DSI Share of 7(b)(2) Adjustment	283,583
10		0
11	Total DSI Revenues	930,577
12		
13	Delta (5 - 11)	147,512

Routing: PSP

RATE DESIGN STUDY **RDS 34**

7(b)(2) Industrial Adjustment 7(C)(2) Delta Allocation

Test Period October 2001 - September 2006

($Thousands)

		A	B
		Annual Energy AMW	Allocated Amount
1	CLASSES OF SERVICE		
2	**Power Rates**		
3	Priority Firm Power Preference		
4	Priority Firm Power Exchange	1,302	147,395
5	Priority Firm Total		
6	Industrial Firm Power		-
7	Special Industrial Power		-
8	New Resources Firm Power	1	116
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	1,303	147,512
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	Energy Efficiency Revenues		
28	Total		
29	Grand Total	1,303	147,512

Routing: PSP

RATE DESIGN STUDY **RDS 34A**

7(b)(2) Exchange Cost Adjustment Allocation
Test Period October 2001 - September 2006
($Thousands)

1	Gross Exchange Costs W/O 7(b)(2)	2,234,426	
2	Gross Exchange Costs With 7(b)(2)	2,236,158	
3	Increase in Gross Exchange Costs	1,732	
4			
5			
6		Allocation	Allocated
7		Factor	Amount
8	CLASSES OF SERVICE		
9	**Power Rates**		
10	Priority Firm Power Preference		
11	Priority Firm Power Exchange	1,302	1,731
12	Priority Firm Total		
13	Industrial Firm Power		
14	Special Industrial Power		
15	New Resources Firm Power	1	1
16	Surplus Firm Contract-FAC		
17	Surplus Firm - Contract OTFAC		
18	Surplus Firm Open Market		
19	Nonfirm Energy		
20	Supplemental Capacity		
21	Entitlement Capacity		
22	Total	1,303	1,732
23	**Other Power Services**		
24	Montana Cap/Energy Exchange		
25	Post-Act Exchanges		
26	Irrigation Pumping Power		
27	Interchange		
28	WNP-1 Exchange (Post OY-90)		
29	Unbundled Products & Services		
30	Total		
31	**Miscellaneous Revenue**		
32	COE & USBR Project Revenues		
33	Energy Efficiency Revenues		
34	Other Miscellaneous Revenue		
35	Total		
36	Grand Total	1,303	1,732

RATE DESIGN STUDY

Priority Firm Preference Rate Schedule Charge Calculation

Test Period October 2001 - September 2006

($Thousands)

	HLH														Total
	PRIORITY FIRM PREFERENCE RATE ENERGY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total HLH	HLH+LLH
1	PF Rate w/o 7(b)(2)	17.15	22.93	23.59	DEMAND:	19.48	LOAD VARI/	14.03	13.98	17.33	22.56	33.05	23.89		
2	Billing Determinants (GWH)	8,671	9,880	12,660	13,917	13,015	12,252	11,273	7,410	6,343	6,199	8,135	9,837	119,594	190,208
3	Revenues at PF Rate w/o 7(b)(2)	$ 148,738	$ 226,592	$ 298,652	$ 292,806	$ 253,517	$ 217,086	$ 158,191	$ 103,576	$ 109,911	$ 139,839	$ 268,871	$ 234,966	$ 2,452,746	$ 3,471,900
4	7(b)(2) Credit	$ (27,705)	$ (42,207)	$ (55,630)	$ (54,541)	$ (47,222)	$ (40,436)	$ (29,466)	$ (19,293)	$ (20,473)	$ (26,048)	$ (50,082)	$ (43,767)	$ (456,871)	$ (646,708)
5	Conservation and Renewables Credit Cost	$ 4,074	$ 6,207	$ 8,181	$ 8,021	$ 6,944	$ 5,947	$ 4,333	$ 2,837	$ 3,011	$ 3,831	$ 7,365	$ 6,436	$ 67,187	$ 95,104
6	Low Density Discount Costs	$ 2,999	$ 4,569	$ 6,021	$ 5,904	$ 5,111	$ 4,377	$ 3,189	$ 2,088	$ 2,216	$ 2,819	$ 5,421	$ 4,737	$ 49,452	$ 70,000
7	S & I Rate Mitigation Costs	$ 857	$ 1,305	$ 1,720	$ 1,687	$ 1,460	$ 1,251	$ 911	$ 597	$ 633	$ 806	$ 1,549	$ 1,354	$ 14,129	$ 20,000
8	Revenues Required After 7(b)(2) Credit	$ 128,963	$ 196,466	$ 258,945	$ 253,876	$ 219,811	$ 188,224	$ 137,159	$ 89,805	$ 95,298	$ 121,247	$ 233,123	$ 203,727	$ 2,126,643	$ 3,010,297
9	Energy Rate incl. NR Deficiency Reallocation	**14.87**	**19.88**	**20.45**	**18.24**	**16.89**	**15.36**	**12.17**	**12.12**	**15.03**	**19.56**	**28.66**	**20.71**		
10															
11	***PRIORITY FIRM PREFERENCE RATE DEMAND***													Totals:	
12	Monthly Coincidental Peak MW	28,757	30,521	38,527	43,495	41,609	30,813	30,513	20,736	17,982	20,561	24,026	28,952	356,493	
13	Adjusted Marginal Cost $/KW/Mo	**1.76**	**2.31**	**2.31**	**2.16**	**2.03**	**1.82**	**1.45**	**1.43**	**1.79**	**2.31**	**2.31**	**2.31**	**2.02**	
14	Demand Revenues ($ Thousands)	$ 50,613	$ 70,503	$ 88,998	$ 93,950	$ 84,466	$ 56,080	$ 44,244	$ 29,653	$ 32,188	$ 47,495	$ 55,500	$ 66,879	$ 720,569	
15															
16	**LLH**														
17	***PRIORITY FIRM PREFERENCE RATE ENERGY***	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total LLH	
18	PF Rate w/o 7(b)(2)	12.60	18.60	18.26	15.00	13.99	12.25	9.62	8.04	9.61	15.56	18.82	19.70		
19	Billing Determinants (GWH)	5,261	5,698	7,133	9,146	8,266	7,412	6,465	4,658	3,472	3,523	4,096	5,485	70,614	
20	Revenues at PF Rate w/o 7(b)(2)	$ 66,284	$ 106,003	$ 130,241	$ 137,218	$ 115,638	$ 90,821	$ 62,223	$ 37,444	$ 33,348	$ 54,799	$ 77,102	$ 108,035	$ 1,019,154	
21	7(b)(2) Credit	$ (12,347)	$ (19,745)	$ (24,260)	$ (25,559)	$ (21,540)	$ (16,917)	$ (11,590)	$ (6,975)	$ (6,212)	$ (10,207)	$ (14,362)	$ (20,124)	$ (189,837)	
22	Conservation and Renewables Credit Cost	$ 1,816	$ 2,904	$ 3,568	$ 3,759	$ 3,168	$ 2,488	$ 1,704	$ 1,026	$ 913	$ 1,501	$ 2,112	$ 2,959	$ 27,917	
23	Low Density Discount Costs	$ 1,336	$ 2,137	$ 2,626	$ 2,767	$ 2,331	$ 1,831	$ 1,255	$ 755	$ 672	$ 1,105	$ 1,555	$ 2,178	$ 20,548	
24	S & I Rate Mitigation Costs	$ 382	$ 611	$ 750	$ 790	$ 666	$ 523	$ 358	$ 216	$ 192	$ 316	$ 444	$ 622	$ 5,871	
25	Revenues Required After 7(b)(2) Credit	$ 57,471	$ 91,909	$ 112,925	$ 118,974	$ 100,263	$ 78,746	$ 53,950	$ 32,465	$ 28,914	$ 47,513	$ 66,851	$ 93,671	$ 883,654	
26	Energy Rate incl. NR Deficiency Reallocation	**10.92**	**16.13**	**15.83**	**13.01**	**12.13**	**10.62**	**8.34**	**6.97**	**8.33**	**13.49**	**16.32**	**17.08**		
27															
28															

						Load	Load
29							
30						Regulation	Regulation
31					Total	Charge	Charge
32		Network	Point to Point	Delivery	Costs	Revenue	Rate
33	***PRIORITY FIRM PREFERENCE TRANSMISSION***						
34	Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs			
35	Quantity	377,883	0	0			
36	Rate	**1.480**	**1.480**	**0.750**			
37	Transmission Revenues	$ 559,266	$ -	$ -	$ 559,266	78,381	0.41
38							
39							
40	***PRIORITY FIRM PREFERENCE UNBUNDLED***						
41	***PRODUCTS & SERVICES - RQMTS***						
42	Total Revenues	223,945					
43							

		Cost	Contribution
44			
45	***PRIORITY FIRM PREFERENCE AVERAGE RATE***	Component	Per KWH
46	Energy Costs	$ 3,010,297	15.83
47	Demand Costs	$ 720,569	3.79
48	Transmission Costs	$ -	0.00
49	Unbundled Reqmts Costs	$ 223,945	1.18
50	Total Costs	$ 3,954,812	20.79
51			
52	Energy Billing Determnts Total GWH	190,208	
53			
54	Average PF Preference Rate	**20.79**	

Routing: PSP

RDS36

RATE DESIGN STUDY
Priority Firm Exchange Rate Schedule Charge Calculation
Test Period October 2001 - September 2006
($Thousands)

	PRIORITY FIRM EXCHANGE RATE ENERGY HLH	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total HLH	Total HLH+LLH
1	Billing Determinants (GWH)	2,549	3,113	3,729	3,717	3,139	3,085	2,755	2,535	2,443	2,506	2,733	2,524	34,830	55,411
2	PF Energy Charges (unbifurcated)	17.15	22.93	23.59	21.04	19.48	17.72	14.03	13.98	17.33	22.56	33.05	23.89		
3	PF Exchange Base Energy Revenues	43,715	71,401	87,968	78,202	61,153	54,668	38,666	35,436	42,334	56,534	90,311	60,298	720,686	1,017,679
4	7(b)(2) Adj. Allocated to PF Exchange	15,586	25,457	31,364	27,882	21,803	19,491	13,786	12,634	15,094	20,156	32,199	21,498	256,950	362,838
5	7(b)(2) Indust Adj Alloc. to PF Exchange	6,331	10,341	12,741	11,326	8,857	7,918	5,600	5,132	6,131	8,188	13,080	8,733	104,380	147,395
6	7(b)(2) Exch Cost Adj. Alloc to PF Exch	74	121	150	133	104	93	66	60	72	96	154	103	1,226	1,731
7	Total PF Exchange After 7(b)(2) Adjustments	65,707	107,321	132,222	117,544	91,917	82,170	58,117	53,263	63,631	84,974	135,744	90,632	1,083,241	1,529,643
8	Unbundled Reqmts Not in Energy Charge	2,802	4,577	5,639	5,013	3,920	3,505	2,479	2,272	2,714	3,624	5,789	3,865	46,200	65,239
9	Total PF Exchange Energy Revenue Reqmt	68,509	111,898	137,861	122,557	95,837	85,674	60,596	55,535	66,345	88,599	141,533	94,497	1,129,442	1,594,883
10	PF Exchange Energy Rate	26.88	35.94	36.97	32.97	30.53	27.77	21.99	21.91	27.16	35.35	51.79	37.43		
11															
12	**Weighted Average PF Exchange Energy Rate**	**24.18**	**33.45**	**33.95**	**29.22**	**27.18**	**24.53**	**19.47**	**18.30**	**22.84**	**31.34**	**44.27**	**35.08**		
13															
14	*Effective Demand Charge*				**3.799**										
15	*PRIORITY FIRM EXCHANGE RATE DEMAND*													annual	
16	Monthly Coincidental Peak MW	7,656	9,501	10,916	11,521	10,630	9,266	8,387	7,734	7,316	7,323	7,639	7,574	105,464	
17	Adjusted Marginal Cost $/KW/Mo	**1.76**	**2.31**	**2.31**	**2.16**	**2.03**	**1.82**	**1.45**	**1.43**	**1.79**	**2.31**	**2.31**	**2.31**	**2.01**	
18	Demand Revenues ($ Thousands)	$ 13,475	$ 21,948	$ 25,215	$ 24,886	$ 21,579	$ 16,864	$ 12,161	$ 11,060	$ 13,095	$ 16,917	$ 17,645	$ 17,496	$ 212,342	
19															
20															

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total LLH
21	**LLH**													
22	*PRIORITY FIRM EXCHANGE RATE ENERGY*													
23		**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Total LLH**
24	Billing Determinants (GWH)	1,555	1,805	2,110	2,447	1,998	1,872	1,587	1,603	1,355	1,442	1,393	1,415	20,581
25	PF Energy Charges (unbifurcated)	12.60	18.60	18.26	15.00	13.99	12.25	9.62	8.04	9.61	15.56	18.82	19.70	
26	PF Exchange Base Energy Revenues	19,589	33,582	38,528	36,714	27,951	22,939	15,271	12,887	13,011	22,429	26,212	27,881	296,993
27	7(b)(2) Adj. Allocated to PF Exchange	6,984	11,973	13,737	13,090	9,966	8,179	5,445	4,594	4,639	7,997	9,346	9,940	105,889
28	7(b)(2) Indust Adj Alloc. to PF Exchange	2,837	4,864	5,580	5,317	4,048	3,322	2,212	1,866	1,884	3,248	3,796	4,038	43,015
29	7(b)(2) Exch Cost Adj. Alloc to PF Exch	33	57	66	62	48	39	26	22	22	38	45	47	505
30	Total PF Exchange After 7(b)(2) Adjustments	29,444	50,476	57,910	55,183	42,013	34,479	22,953	19,369	19,557	33,712	39,399	41,907	446,402
31	Unbundled Reqmts Not in Energy Charge	1,256	2,153	2,470	2,354	1,792	1,471	979	826	834	1,438	1,680	1,787	19,039
32	Total PF Exchange Energy Revenue Reqmt	30,700	52,628	60,380	57,537	43,805	35,950	23,932	20,195	20,391	35,150	41,079	43,694	465,441
33	PF Exchange Energy Rate	19.75	29.16	28.61	23.51	21.92	19.20	15.08	12.60	15.05	24.38	29.50	30.87	
34														
35														
36														

		Network	Point to Point	Delivery	Load Regulation Charge Revenue	Total Costs
37–40						
41	*PRIORITY FIRM EXCHANGE TRANSMISSION*					
42	Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs		
43	Quantity	111,792				
44	Rate (From TRDS)	**1.480**				
45	Transmission Revenues	165,452			22,834	188,285
46						

		Cost Component	Contribution Per KWH
47			
48	*PRIORITY FIRM EXCHANGE AVERAGE RATE*		
49	Energy Costs	1,594,883	28.78
50	Demand Costs	212,342	3.83
51	Transmission Costs	188,285	3.40
52	Unbundled Reqmts Costs	0	0.00
53	Total Costs	1,995,510	36.01
54			
55	Energy Billing Determnts Total GWH	55,411	
56			
57	Average PF Exchange Rate	**36.01**	

RATE DESIGN STUDY
Summary of COSA and Rate Design Adjustments
Test Period October 2001 - September 2006
($ Thousands)

		A	B	C	D	E	F	G
			WNP-3 Excess Revenue Credit Adjustment		Nonfirm Excess Revenue Credit Adjustment		SP Contractual Revenue Surplus Adjustment	
		COSA Results	Amount	Contra	Amount	Contra	Amount	Contra
1	CLASSES OF SERVICE							
2	**Power Rates**							
3	Priority Firm - Preference	4,317,232			(1,176,399)		120,911	
4	Priority Firm - Exchange	1,254,897			(341,946)		35,145	
5	Priority Firm Total	5,572,130			(1,518,345)		156,057	
6	Industrial Firm	1,235,915			(180,155)		18,516	
7	New Resource Firm	1,249			(182)		19	
8	Surplus Firm Contract-FAC							
9	Surplus Firm Contract-OTFAC	3,626,946			(530,615)			(174,592)
10	Surplus Firm Open Market							
11	Nonfirm Energy					2,229,297		
12	Supplemental Capacity	3,059						
13	Entitlement Capacity	0						
14	Total	10,439,298			(2,229,297)	2,229,297	174,592	(174,592)
15	**Other Power Services**							
16	Montana Cap/Enr Exchange							
17	Post-Act Exchange							
18	Colville Credit	23,000						
19	'4(h)(10)(c)	457,935						
20	FCCF	130,326						
21	Net Transmission Services Costs	109,849						
22	Total	721,110						
23	**Miscellaneous Revenue**							
24	COE & USBR Proj. Revenues	40,500						
25	Energy Efficiency Revenues	66,426						
26	Other Misc Revenue	17,080						
27	Total	124,006						
28								
29	Grand Total	11,284,414			(2,229,297)	2,229,297	174,592	(174,592)

RATE DESIGN STUDY
Summary of COSA and Rate Design Adjustments
Test Period October 2001 - September 2006
($ Thousands)

	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
	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	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	216,738				(646,708)						2,831,775	-	2,831,775	3,478,483
4 Priority Firm - Exchange	63,000				362,838		147,395		1,731		1,523,061	-	1,523,061	1,011,096
5 Priority Firm Total	279,738				(283,869)		147,395		1,731		4,354,836	-	4,354,836	4,489,579
6 Industrial Firm		(279,771)			283,583		(147,512)				1,210,348	(279,771)	930,577	794,505
7 New Resource Firm	34				287		116		1		1,523	-	1,523	1,119
8 Surplus Firm Contract-FAC											-	-	-	-
9 Surplus Firm Contract-OTFAC											3,096,331	(174,592)	2,921,739	2,921,739
10 Surplus Firm Open Market											-	-	-	-
11 Nonfirm Energy											-	2,229,297	2,229,297	2,229,297
12 Supplemental Capacity											3,059	-	3,059	3,059
13 Entitlement Capacity											-	-	-	-
14 Total	279,771	(279,771)			0		0		1,732		8,666,097	1,774,933	10,441,031	10,439,298
15 **Other Power Services**														
16 Montana Cap/Enr Exchange											-	-	-	
17 Post-Act Exchange											-	-	-	
18 Colville Credit											23,000	-	23,000	
19 '4(h)(10)(c)											457,935	-	457,935	
20 FCCF											130,326	-	130,326	
21 Net Transmission Services Costs											109,849	-	109,849	
22 Total	-	-			-		-		-		721,110	-	721,110	
23 **Miscellaneous Revenue**														
24 COE & USBR Proj. Revenues											40,500	-	40,500	
25 Energy Efficiency Revenue											66,426	-	66,426	
26 Other Misc Revenue											17,080	-	17,080	
27 Total	-	-			-		-		-		124,006	-	124,006	
28														
29 Grand Total	279,771	(279,771)			0		0		1,732		9,511,213	1,774,933	11,286,146	

Routing: PSP **RDS41**

RATE DESIGN STUDY
Summary of COSA and Rate Design Adjustments
Test Period October 2001 - September 2006
($ Thousands)

		A	B	C	D	E	F	G	H
		Grand Total	Energy	Rate Design Contra	Total Energy	Generation Demand	Load Variance	Total Generation	Total Transmission
1	CLASSES OF SERVICE								
2	**Power Rates**								
3	Priority Firm Preference	4,335,556	2,831,775	-	2,831,775	720,569	223,945	3,776,290	559,266
4	Priority Firm Exchange	1,735,403	1,523,061		1,523,061	212,342		1,735,403	-
5	Priority Firm Total	6,070,959	4,354,836		4,354,836	932,912	223,945	5,511,693	559,266
6	Industrial Firm	1,137,239	1,210,348	(279,771)	930,577	118,751	-	1,049,327	87,912
7	New Resource Firm	1,643	1,523	-	1,523	120		1,643	-
8	Surplus Firm Contract-FAC	-	-	-	-		-	-	-
9	Surplus Firm Contract-OTFAC	3,182,156	3,096,331	(174,592)	2,921,739			2,921,739	260,417
10	Surplus Firm Open Market	-	-	-	-			-	-
11	Nonfirm Energy	2,577,987	-	2,229,297	2,229,297			2,229,297	348,690
12	Supplemental Capacity	3,059	3,059	-	3,059			3,059	-
13	Entitlement Capacity	-	-	-	-			-	-
14	Total	12,973,044	8,666,097	1,774,933	10,441,031	1,051,782	223,945	11,716,758	1,256,285
15	**Other Power Services**	-	-	-				-	-
16	Montana Cap/Enr Exchange	-	-	-	-			-	-
17	Post-Act Exchange	-	-	-	-			-	-
18	Colville Credit	23,000	23,000	-	23,000			23,000	-
19	'4(h)(10)(c)	457,935	457,935	-	457,935			457,935	-
20	FCCF	130,326	130,326	-	130,326			130,326	-
21	Net Transmission Services Costs	109,849	109,849	-	109,849			109,849	-
22	Total	721,110	721,110	-	721,110	-	-	721,110	-
23	**Miscellaneous Revenue**								-
24	COE & USBR Proj. Revenues	40,500	40,500	-	40,500			40,500	-
25	Energy Efficiency Revenues	66,426	66,426	-	66,426			66,426	-
26	Other Misc Revenue	17,080	17,080	-	17,080			17,080	-
27	Total	124,006	124,006	-	124,006	-	-	124,006	-
28									
29	Rate Design Total	13,818,159	9,511,213	1,774,933	11,286,146	1,051,782	223,945	12,561,874	1,256,285
30									
31	Less 7(b)(2) Exchange Cost Adj.	1,732	1,732		1,732			1,732	
32									
33	Rate Design Total After 7(b)(2)	13,816,427	9,509,480	1,774,933	11,284,414	1,051,782	223,945	12,560,141	1,256,285

Routing: PSP

RATE DESIGN STUDY

Priority Firm Rate Schedule Charge Calculation

Test Period October 2001 - September 2006

($ Thousands)

RDS50

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		Total	Years	
	HLH															5	
1	***PRIORITY FIRM RATE ENERGY***	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	**Total HLH**	**HLH+LLH**		
2	Marginal Costs of Firm Power	28.25	37.77	38.85	34.65	32.08	29.18	23.11	23.02	28.54	37.15	54.43	39.34	37%	100%		
3	Billing Determinants (GWH)	11,220	12,994	16,390	17,634	16,155	15,338	14,029	9,945	8,785	8,706	10,868	12,361	154,424	245,619	avg. MC rate	
4	Revenues at Marginal Cost Rates	$ 316,958	$ 490,774	$ 636,736	$ 611,025	$ 518,239	$ 447,560	$324,208	$228,943	$250,737	$323,412	$591,547	$486,279	$ 5,226,417	$ 7,394,019	30.10	with DSI floor
5	Conservation and Renewables Credit Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		
6	Low Density Discount Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		
7	S & I Rate Mitigation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		
8	Total Energy Revenue Requirement														$ 4,489,579	0	4,489,579
9	Ratio of Rev Reqmt to MC Revenues														0.6072	k_addr	scale_adj
10	Scaled MC Rates to Equal Rev Reqmt	**17.15**	**22.93**	**23.59**	**21.04**	**19.48**	**17.72**	**14.03**	**13.98**	**17.33**	**22.56**	**33.05**	**23.89**		0	0.00	0
11	Revenues at Scaled Rates	$ 192,454	$ 297,994	$ 386,620	$ 371,009	$ 314,670	$ 271,754	$196,856	$139,012	$152,245	$196,373	$359,182	$295,264	$ 3,173,432	$ 4,489,579		
12	Transmission Charges Included	-	-	-	-	-	-	-	-	-	-	-	-	$ -			
13	Net Energy Recovery													$ 3,173,432			
14																	
15																	
16	***PRIORITY FIRM RATE DEMAND***	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		**Total**		
17	Monthly Coincidental Peak MW	36,414	40,022	49,443	55,017	52,239	40,079	38,900	28,471	25,298	27,884	31,665	36,526		461,957		
18	Adjusted Marginal Cost $/KW/Mo	**1.76**	**2.31**	**2.31**	**2.16**	**2.03**	**1.82**	**1.45**	**1.43**	**1.79**	**2.31**	**2.31**	**2.31**		**2.02**		
19	Demand Revenues ($ Thousands)	$ 64,088	$ 92,451	$ 114,213	$ 118,836	$ 106,046	$ 72,944	$ 56,405	$ 40,713	$ 45,283	$ 64,412	$ 73,145	$ 84,374		$ 932,912		
20																	
21																	
22	**LLH**																
23	***PRIORITY FIRM RATE ENERGY***	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	**Total LLH**			
24	Marginal Costs of Firm Power	20.75	30.64	30.07	24.71	23.04	20.18	15.85	13.24	15.82	25.62	31.00	32.44	63%			
25	Billing Determinants (GWH)	6,816	7,503	9,243	11,593	10,264	9,284	8,052	6,261	4,826	4,964	5,489	6,900	91,195			
26	Revenues at Marginal Cost Rates	$ 141,428	$ 229,886	$ 277,951	$ 286,453	$ 236,481	$ 187,354	$127,627	$ 82,890	$ 76,350	$127,188	$170,151	$223,844	$ 2,167,602			
27	Conservation and Renewables Credit Cost	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -			
28	Low Density Discount Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -			
29	S & I Rate Mitigation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -			
30	Total Energy Revenue Requirement																
31	Ratio of Rev Reqmt to MC Revenues																
32	Scaled MC Rates to Equal Rev Reqmt	**12.60**	**18.60**	**18.26**	**15.00**	**13.99**	**12.25**	**9.62**	**8.04**	**9.61**	**15.56**	**18.82**	**19.70**				
33	Revenues at Scaled Rates	$ 85,874	$ 139,584	$ 168,769	$ 173,932	$ 143,589	$ 113,760	$ 77,494	$ 50,330	$ 46,359	$ 77,228	$103,314	$135,916	$ 1,316,148			
34	Transmission Charges Included	-	-	-	-	-	-	-	-	-	-	-	-	$ -			
35	Net Energy Recovery													$ 1,316,148			
36																	
37																	

		Network	Point to Point	Delivery	Exchange	Total Costs
38						
39		Network	Point to Point	Delivery	Exchange	Total Costs
40	***PRIORITY FIRM TRANSMISSION***					
41	Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs		
42	Quantity	377,883	-		111,792	
43	Average Rate	**1.480**	**1.480**		**1.480**	
44	Transmission Revenues	559,266	-		165,452	825,933
45	Load Regulation Charge Revenue	78,381			22,834	
46						

		Preference	Exchange	Total
47	***PRIORITY FIRM UNBUNDLED***			
48	***PRODUCTS & SERVICES - RQMTS***	Preference	Exchange	Total
49	Total Revenues	223,945	65,239	289,185
50				

		Cost Component	Contribution Per KWH
51		Cost	Contribution
52	***PRIORITY FIRM AVERAGE RATE***	Component	Per KWH
53	Energy Costs	$ 4,489,579	18.28
54	Demand Costs	$ 932,912	3.80
55	Transmission Costs	$ 825,933	3.36
56	Unbundled Reqmts Costs	$ 289,185	1.18
57	Total Costs	$ 6,537,608	26.62
58			
59	Energy Billing Determnts Total GWH	$ 245,619	
60			
61	Average PF Rate	**26.62**	

Routing: PSP

RDS51

RATE DESIGN STUDY

Industrial Firm Power Rate Schedule Charge Calculation

Test Period October 2001 - September 2006

($ Thousands)

HLH

INDUSTRIAL FIRM RATE ENERGY	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Total HLH**	**Total HLH+LLH**		
Marginal Costs of Firm Power	28.25	37.77	38.85	34.65	32.08	29.18	23.11	23.02	28.54	37.15	54.43	39.34				
Billing Determinants (GWH)	2,107	2,012	2,075	2,091	1,901	2,107	2,043	2,091	2,028	2,091	2,107	2,028	24,679	43,386		avg. MC rate
Revenues at Marginal Cost Rates	$ 59,515	$ 75,981	$ 80,615	$ 72,449	$ 60,978	$ 61,474	$ 47,222	$ 48,132	$ 57,865	$ 77,676	$114,669	$ 79,763	$ 836,339	$ 1,278,484	with DSI floor	29.47
Conservation and Renewables Credit Cost	$ 1,010	$ 1,289	$ 1,368	$ 1,229	$ 1,035	$ 1,043	$ 801	$ 817	$ 982	$ 1,318	$ 1,946	$ 1,353	$ 14,191	$ 21,693	21,693	
Total Energy Revenue Requirement														952,269	952,269	21.95
Ratio of Rev Reqmt to MC Revenues														0.7448	k_addr_ip	
Scaled MC Rates to Equal Rev Reqmt	**21.04**	**28.13**	**28.94**	**25.81**	**23.89**	**21.73**	**17.21**	**17.15**	**21.26**	**27.67**	**40.54**	**29.30**		**0**	**0.00**	
Revenues at Scaled Rates	$ 44,329	$ 56,594	$ 60,046	$ 53,963	$ 45,419	$ 45,789	$ 35,173	$ 35,851	$ 43,101	$ 57,857	$ 85,410	$ 59,411	$ 622,941	$ 952,269		
Transmission Charges Included																
Net Energy Recovery																

INDUSTRIAL FIRM RATE DEMAND	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Total**
Monthly Coincidental Peak MW	4,950	4,950	4,950	4,950	4,950	4,950	4,950	4,950	4,950	4,950	4,950	4,950	59,400
Adjusted Marginal Cost $/KW/Mo	**1.76**	**2.31**	**2.31**	**2.16**	**2.03**	**1.82**	**1.45**	**1.43**	**1.79**	**2.31**	**2.31**	**2.31**	**2.00**
Demand Revenues	$ 8,712	$ 11,435	$ 11,435	$ 10,692	$ 10,049	$ 9,009	$ 7,178	$ 7,079	$ 8,861	$ 11,435	$ 11,435	$ 11,435	$ 118,751

LLH

INDUSTRIAL FIRM RATE ENERGY	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Total LLH**
Marginal Costs of Firm Power	20.75	30.64	30.07	24.71	23.04	20.18	15.85	13.24	15.82	25.62	31.00	32.44	
Billing Determinants (GWH)	1,581	1,552	1,608	1,592	1,449	1,576	1,516	1,592	1,536	1,592	1,576	1,536	18,707
Revenues at Marginal Cost Rates	$ 32,806	$ 47,563	$ 48,345	$ 39,336	$ 33,393	$ 31,805	$ 24,024	$ 21,077	$ 24,307	$ 40,785	$ 48,858	$ 49,843	$ 442,144
Conservation and Renewables Credit Cost	$ 557	$ 807	$ 820	$ 667	$ 567	$ 540	$ 408	$ 358	$ 412	$ 692	$ 829	$ 846	$ 7,502
Total Energy Revenue Requirement													
Ratio of Rev Reqmt to MC Revenues													
Scaled MC Rates to Equal Rev Reqmt	**15.46**	**22.82**	**22.40**	**18.41**	**17.16**	**15.03**	**11.81**	**9.86**	**11.78**	**19.08**	**23.09**	**24.16**	
Revenues at Scaled Rates	$ 24,436	$ 35,427	$ 36,010	$ 29,299	$ 24,873	$ 23,690	$ 17,894	$ 15,699	$ 18,105	$ 30,378	$ 36,392	$ 37,126	$ 329,328
Transmission Charges Included													
Net Energy Recovery													

	Network	Point to Point	Delivery	Exchange Transmission	Transmission Recovered Through Enrg Charge	Total Costs
INDUSTRIAL FIRM TRANSMISSION						
Billing Determinants:	MCP MWs	Ctrct Demand	MCP MWs			
Quantity		59,400				
Rate (From TRDS)	**1.480**	**1.480**				
Transmission Revenues		87,912			-	87,912

INDUSTRIAL FIRM UNBUNDLED

PRODUCTS & SERVICES - RQMTS

Total Revenues

INDUSTRIAL FIRM AVERAGE RATE	Cost Component	Contribution Per KWH
Energy Costs	$ 952,269	21.95
Demand Costs	$ 118,751	2.74
Transmission Costs	$ -	-
Unbundled Reqmts Costs	$ -	-
Total Costs	$ 1,071,020	24.69
Energy Billing Determnts Total GWH	$ 43,386	
Average IP Rate	**24.69**	

Routing: PSP | **RDS52**

RATE DESIGN STUDY

New Resources Firm Power Rate Schedule Charge Calculation

Test Period October 2001 - September 2006

($ Thousands)

	HLH														**Total**
1	***NEW RESOURCES FIRM RATE ENERGY***	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Total HLH**	**HLH+LLH**
2	Marginal Costs of Firm Power	28.25	37.77	38.85	34.65	32.08	29.18	23.11	23.02	28.54	37.15	54.43	39.34		
3	Billing Determinants (GWH)	2	2	2	2	2	2	2	2	2	2	2	2	25	44
4	Revenues at Marginal Cost Rates	$ 60	$ 78	$ 82	$ 73	$ 61	$ 62	$ 47	$ 49	$ 59	$ 79	$ 115	$ 81	$ 846	$ 1,291
5	Conservation and Renewables Credit Cost	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 2	$ 1	$ 14	$ 22
6	Total Energy Revenue Requirement														
7	Ratio of Rev Reqmt to MC Revenues														
8	Scaled MC Rates to Equal Rev Reqmt	**33.81**	**45.20**	**46.50**	**41.47**	**38.39**	**34.92**	**27.66**	**27.55**	**34.16**	**44.46**	**65.14**	**47.08**		
9	Revenues at Scaled Rates	$ 72	$ 93	$ 99	$ 88	$ 74	$ 74	$ 57	$ 58	$ 70	$ 94	$ 138	$ 97	$ 1,013	$ 1,545
10	Transmission Charges Included														
11															
12															
13															
14	***NEW RESOURCES FIRM RATE DEMAND***														**Total**
15	Monthly Coincidental Peak MW	5	5	5	5	5	5	5	5	5	5	5	5		60
16	Adjusted Marginal Cost $/KW/Mo	**1.76**	**2.31**	**2.31**	**2.16**	**2.03**	**1.82**	**1.45**	**1.43**	**1.79**	**2.31**	**2.31**	**2.31**		**2.00**
17	Demand Revenues ($ Thousands)	$ 9	$ 12	$ 12	$ 11	$ 10	$ 9	$ 7	$ 7	$ 9	$ 12	$ 12	$ 12		$ 120
18															
19	**LLH**														
20	***NEW RESOURCES FIRM RATE ENERGY***	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Total LLH**	
21	Marginal Costs of Firm Power	20.75	30.64	30.07	24.71	23.04	20.18	15.85	13.24	15.82	25.62	31.00	32.44		
22	Billing Determinants (GWH)	2	2	2	2	1	2	2	2	2	2	2	2	19	
23	Revenues at Marginal Cost Rates	$ 33	$ 47	$ 48	$ 40	$ 33	$ 32	$ 25	$ 21	$ 24	$ 41	$ 50	$ 50	$ 445	
24	Conservation and Renewables Credit Cost	$ 1	$ 1	$ 1	$ 1	$ 1	$ 1	$ 0	$ 0	$ 0	$ 1	$ 1	$ 1	$ 8	
25	Total Energy Revenue Requirement														
26	Ratio of Rev Reqmt to MC Revenues														
27	Scaled MC Rates to Equal Rev Reqmt	**24.83**	**36.67**	**35.99**	**29.57**	**27.57**	**24.15**	**18.97**	**15.85**	**18.93**	**30.66**	**37.10**	**38.82**		
28	Revenues at Scaled Rates	$ 40	$ 57	$ 58	$ 47	$ 40	$ 39	$ 29	$ 25	$ 29	$ 49	$ 59	$ 60	$ 532	
29	Transmission Charges Included														
30															

31		Cost	Contribution
32	***NEW RESOURCES FIRM AVERAGE RATE***	Component	Per KWH
33	Energy Costs	$ 1,545	35.28
34	Demand Costs	$ 120	2.74
35	Transmission Costs		
36	Unbundled Reqmts Costs		
37	Total Costs	$ 1,665	38.02
38			
39	Energy Billing Determnts Total GWH	44	
40			
41	Average NR Rate	**38.02**	