

SN CRAC February 11th, 13th and 18th Workshop Follow Up Questions

Below are questions and answers to questions raised during the February 11th, 13th, and 18th SN CRAC workshops. BPA reserves the right to update these responses to the extent necessary in the event that it is subsequently discovered that responses are inconsistent with other materials presented.

Income Statement

- 1. What are the aMW for power purchases and augmentation in the May Rate Case column?**

Refer to “Income Statement” presented at the [February 11, 2003 Workshop](#).

- 2. Provide a breakout of IOU Benefits on line 43.**

Refer to “Income Statement” presented at the [February 11, 2003 Workshop](#).

Secondary Revenue

- 3. What is BPA’s current forecast of secondary revenue for each year of the rate period (including the most recent actuals) compared to May 2000 and June 2001 rate forecast? Please provide the underlying forecast of loads and power prices. Please also provide information for FY 2002.**

Refer to “Secondary Revenue Forecasts” presented at the [February 11, 2003 Workshop](#).

- 4. What is the average price for Secondary Revenue?**

Refer to “Secondary Revenue Forecasts” presented at the [February 11, 2003 Workshop](#).

- 5. What is the expected value of secondary revenue for FY 2002 compared to actual secondary revenue for FY 2002?**

Refer to “Secondary Revenue Forecasts” presented at the [February 11, 2003 Workshop](#).

Loads and Resources

- 6. Please provide a crosswalk of loads and resources from May 2000 Rate Case to Trigger Study.**

Refer to Appendix 1 (3 Pages): “[Difference Between the Federal Load Resource Analyses, Rate Case 2003 compared to Rate Case 2000](#)”

Debt Service

7. What are the ENW Debt service for audited actuals and the FY 2003 forecast?

<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>
525,442	445,148	211,358

8. What are the scheduled payments vs. the Treasury payments that are due?

Refer to Appendix 2: "[Generation Amortization Repayment Study](#)"

9. How much new Federal debt has been issued to TBL?

Refer to Appendix 3: "[Recent Bonds Issuances](#)"

10. During one of the workshops last week, a comment was made regarding Treasury prepayments associated with the sales of delivery facilities, I believe during the late 1990s. Could you let me know about how much the total payments were. We have had a bit of confusion over the total amount of prepayments, and whether the delivery facilities sales proceeds are being lumped in with the ENW proceeds. The ENW numbers were laid out very well, but I'd like to be able be sure our numbers don't include the other amounts.

Refer to Appendix 4: "[Actual Amortization Payments](#)"

Tool Kit

11. Please provide the numbers behind the FB CRAC/Slice% in the Toolkit.

Refer to Appendix 5: "[Summary Sales and Revenue](#)"

**Difference Between the Federal Load Resource Analysis
Rate Case 2003 and Rate Case 2000 (May 2000 Study)
Under 1937 Critical Water Conditions**

FY Annual Energy in Megawatts	2003	2004	2005	2006	Explanation
LOADS					
<i>Difference Non-Utility Obligations (Rate 2003 - Rate 2000)</i>					
Federal Agencies 1981 PSC Sale	0	0	0	0	
USBR 1981 PSC Sale	0	0	0	0	
DSI 1981 PSC Sale	0	0	0	0	
Federal Agencies 2002 PSC Sale	0	4	4	4	Rate 2003: New Federal Agencies forecast.
USBR 2002 PSC Sale	80	80	80	80	Rate 2003: New USBR forecast.
DSI 2002 PSC Sale	-956	-640	-640	-640	Rate 2003: New DSI forecast lower from 990 aMW 2000 Rate Case.
Difference Firm Non-Utility Obligations	-875	-555	-555	-555	
<i>Difference Transfers Out (Rate 2003 - Rate 2000)</i>					
NGP 1981 PSC Sale	0	0	0	0	
GPU 1981 PSC Sale	0	0	0	0	
IOU 1981 PSC Sale	0	0	0	0	
NGP 2002 PSC Sale	157	241	230	166	Rate 2003: New public forecast and includes 900 aMW of Presub.
GPU 2002 PSC Sale	484	471	457	362	Rate 2000: Included Presub in IRT(Out). Did not break out Slice components.
NGP Slice Sale	611	614	606	617	
GPU Slice Sale	1017	1023	1010	1028	
IOU 2002 PSC Sale	-618	-618	-618	-618	Rate 2003: IOU PSC obligations = IOU PSC less other IOU IRT(In).
Exports	-456	-378	-343	-353	Rate 2003: Reflects marketer contract expiration, termination, or power sales conversions.
Intra-Regional Transfers (Out)	60	-962	-1060	-965	Rate 2003: New contracts and update in energy delivered under PPL capacity sale. Does not include Presub. Rate 2000: Included 900 aMW of Presub.
Supp & Entitlement Capacity (Out)	0	0	0	0	
CSPE To West Group Utilities	0	0	0	0	
Federal Diversity	0	0	0	0	
Difference Transfers Out	1254	390	281	237	
Difference Total Firm Obligations	379	-165	-274	-318	
RESOURCES					
<i>Difference Hydro Resources (Rate 2003 - Rate 2000)</i>					
Regulated Hydro	236	201	175	200	Rate 2003: New hydro regulation 03SN65 and updated hydro improvements. Rate 2000: Hydro regulation 00FebSmooth. Includes Packwood Lake.
Independent Hydro	2	2	3	3	Rate 2003: Updated hydro improvements. No Packwood Lake. Rate 2000: Packwood Lake in Regulated Hydro.
Sustained Peaking Adjustment	0	0	0	0	
Non-Fed CER (CSPE)	0	0	0	0	
Non-Fed CER (Canada)	-1	-4	-6	-4	
Restoration	26	26	26	26	
Difference Hydro Resources	263	225	198	224	
<i>Difference Other Resources (Rate 2003 - Rate 2000)</i>					
Small Thermal & Misc.	0	0	0	0	
Combustion Turbines	0	0	0	0	
Renewables	0	0	0	0	
Cogeneration	0	0	0	0	
Imports	75	59	72	62	Rate 2003: New contracts and augmentation purchases.
Intra-Regional Transfers (In)	1811	1513	1438	1215	Rate 2003: New contracts, augmentation purchases, update in energy delivered under PPL capacity sale, and exclusion of WNP3 Settlement returns.
Supp & Entitlement Capacity (In)	0	0	0	0	
Large Thermal	2	0	2	0	
Non-Utility Generation	52	49	96	75	Rate 2003: Timing of new NUG resources purchased by BPA.
Resource Acquisition	0	0	0	0	
Post 2001 Augmentation Purchase	-1368	-1175	-1315	-1243	Rate 2003: Augmentation purchases include in imports and IRT(In). Rate 2000: Augmentation purchase estimates.
Difference Other Resources	571	446	293	109	
Difference Total Resources	835	671	491	334	
<i>Difference Reserves & Maintenance (Rate 2003 - Rate 2000)</i>					
Hydro Reserves	0	0	0	0	
Small Thermal & Misc. Reserves	0	0	0	0	
Contract Reserves	0	0	0	0	
Large Thermal Reserves	0	0	0	0	
Federal Hydro Maintenance	0	0	0	0	
Spinning Reserves	0	0	0	0	
Federal Transmission Losses	-24	-19	-14	-9	Rate 2003: Calculated field dependent on resource stack.
Total Reserves, Maintenance & Losses	-24	-11	-11	-11	
Difference Total Net Resources	811	652	477	324	
SURPLUS/DEFICIT					
Difference Total Firm Surplus/Deficit (Rate 2003 - Rate 2000)	432	817	751	643	

**Federal Load Resource Analysis
Rate Case 2003 1/23/2003 Analysis
Under 1937 Critical Water Conditions**

FY Annual Energy in Megawatts	2003	2004	2005	2006
LOADS				
<u>Non-Utility Obligations</u>				
Federal Agencies 1981 PSC Sale	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0
Federal Agencies 2002 PSC Sale	122	127	128	128
USBR 2002 PSC Sale	148	148	148	148
DSI 2002 PSC Sale	34	350	350	350
Total Firm Non-Utility Obligations	304	625	626	626
<u>Transfers Out</u>				
NGP 1981 PSC Sale	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0
NGP 2002 PSC Sale	2,624	2,783	2,812	2,861
GPU 2002 PSC Sale	2,129	2,165	2,178	2,158
NGP Slice Sale	611	614	606	617
GPU Slice Sale	1,017	1,023	1,010	1,028
IOU 2002 PSC Sale	382	382	382	382
Exports	1,063	1,029	994	945
Intra-Regional Transfers (Out)	1,554	518	426	426
Supp & Entitlement Capacity (Out)	21	0	0	0
CSPE To West Group Utilities	46	0	0	0
Federal Diversity	0	0	0	0
Total Transfers Out	9,448	8,514	8,408	8,418
Total Firm Obligations	9,752	9,139	9,033	9,044
RESOURCES				
<u>Hydro Resources</u>				
Regulated Hydro	6,474	6,447	6,429	6,461
Independent Hydro	396	397	397	397
Sustained Peaking Adjustment	0	0	0	0
Non-Fed CER (CSPE)	11	0	0	0
Non-Fed CER (Canada)	110	142	141	140
Restoration	0	0	0	0
Total Hydro Resources	6,991	6,986	6,967	6,998
<u>Other Resources</u>				
Small Thermal & Misc.	0	0	0	0
Combustion Turbines	0	0	0	0
Renewables	29	29	29	29
Cogeneration	0	0	0	0
Imports	293	263	255	245
Intra-Regional Transfers (In)	2,170	1,873	1,797	1,575
Supp & Entitlement Capacity (In)	21	0	0	0
Large Thermal	877	1,000	877	1,000
Non-Utility Generation	95	94	141	120
Resource Acquisition	0	0	0	0
Total Other Resources	3,485	3,258	3,100	2,969
Total Resources	10,477	10,244	10,067	9,967
<u>Reserves & Maintenance</u>				
Hydro Reserves	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0
Contract Reserves	0	0	0	0
Large Thermal Reserves	0	0	0	0
Federal Hydro Maintenance	0	0	0	0
Spinning Reserves	0	0	0	0
Federal Transmission Losses	-295	-289	-284	-281
Total Reserves, Maint. & Losses	-295	-289	-284	-281
Total Net Resources	10,181	9,955	9,783	9,686
Surplus/Deficit				
Total Firm Surplus/Deficit	430	816	750	642

**Federal Load Resource Analysis
Rate Case 2000 2/07/2000 Analysis
Under 1937 Critical Water Conditions**

FY Annual Energy in Megawatts	2003	2004	2005	2006
LOADS				
<u>Non-Utility Obligations</u>				
Federal Agencies 1981 PSC Sale	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0
Federal Agencies 2002 PSC Sale	122	123	123	124
USBR 2002 PSC Sale	67	67	67	67
DSI 2002 PSC Sale	990	990	990	990
Total Firm Non-Utility Obligations	1,179	1,180	1,181	1,181
<u>Transfers Out</u>				
NGP 1981 PSC Sale	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0
NGP 2002 PSC Sale	2,467	2,542	2,582	2,695
GPU 2002 PSC Sale	1,645	1,695	1,722	1,797
NGP Slice Sale	0	0	0	0
GPU Slice Sale	0	0	0	0
IOU 2002 PSC Sale	1,000	1,000	1,000	1,000
Exports	1,520	1,407	1,337	1,299
Intra-Regional Transfers (Out)	1,494	1,480	1,486	1,390
Supp & Entitlement Capacity (Out)	21	0	0	0
CSPE To West Group Utilities	46	0	0	0
Federal Diversity	0	0	0	0
Total Transfers Out	8,193	8,124	8,126	8,181
Total Firm Obligations	9,372	9,304	9,307	9,362
RESOURCES				
<u>Hydro Resources</u>				
Regulated Hydro	6,238	6,246	6,253	6,261
Independent Hydro	394	394	394	394
Sustained Peaking Adjustment	0	0	0	0
Non-Fed CER (CSPE)	11	0	0	0
Non-Fed CER (Canada)	111	147	147	144
Restoration	-26	-26	-26	-26
Total Hydro Resources	6,728	6,761	6,769	6,773
<u>Other Resources</u>				
Small Thermal & Misc.	0	0	0	0
Combustion Turbines	0	0	0	0
Renewables	29	29	29	29
Cogeneration	0	0	0	0
Imports	219	204	183	183
Intra-Regional Transfers (In)	359	359	359	359
Supp & Entitlement Capacity (In)	21	0	0	0
Large Thermal	875	1,000	875	1,000
Non-Utility Generation	43	45	45	45
Resource Acquisition	0	0	0	0
Post 2001 Augmentation Purchase	1,368	1,175	1,315	1,243
Total Other Resources	2,914	2,812	2,807	2,860
Total Resources	9,642	9,573	9,576	9,633
<u>Reserves & Maintenance</u>				
Hydro Reserves	0	0	0	0
Small Thermal & Misc. Reserves	0	0	0	0
Contract Reserves	0	0	0	0
Large Thermal Reserves	0	0	0	0
Federal Hydro Maintenance	0	0	0	0
Spinning Reserves	0	0	0	0
Federal Transmission Losses	-272	-270	-270	-272
Total Reserves, Maint. & Losses	-272	-270	-270	-272
Total Net Resources	9,370	9,303	9,306	9,362
Surplus/Deficit				
Total Firm Surplus/Deficit	-2	-1	-1	0

GENERATION AMORTIZATION
 REPAYMENT STUDY
 FY 2003-2006 (000s)

Maturing/Due		
Bonds	2003	60,322
	2004	35,848
	2005	44,658
	2006	20,000
		<u>160,828</u>
Appropriations	2003	20,440
	2004	0
	2005	103,173
	2006	53,200
		<u>176,813</u>
TOTAL DUE		337,641

Scheduled But Not Yet Due		
Bonds	2003	31,100
	2004	2,500
	2005	266
	2006	37,034
		<u>70,900</u>
Appropriations	2003	57,522
	2004	53,937
	2005	0
	2006	18,242
		<u>129,701</u>
TOTAL DUE		200,601

Total by Year		
Bonds	2003	91,422
	2004	38,348
	2005	44,924
	2006	57,034
		<u>231,728</u>
Appropriations	2003	77,962
	2004	53,937
	2005	103,173
	2006	71,442
		<u>306,514</u>
TOTAL AMORTIZATION	2003	169,384
	2004	92,285
	2005	148,097
	2006	128,476
		<u>538,242</u>

**BPA Bond Issuances, FYs 2000 - 2003
(\$millions)**

Date Issued	Type	Amount	Rate	Due	
1/31/2000	C	\$53.500	7.15%	1/31/2005	Trans C= Transmission Construction
4/30/2000	B	\$40.000	6.85%	4/30/2003	Trans E= Environment
7/31/2000	K	\$32.000	6.95%	7/31/2003	Pwr B= Corps and Bureau direct funding
7/31/2000	C	\$50.000	7.00%	7/31/2004	Pwr F= Fish and Wildlife
8/31/2000	C	\$15.300	6.85%	8/31/2003	Pwr K= Conservation
9/30/2000	C	\$40.000	6.75%	9/30/2006	
9/30/2000	B	\$20.000	6.70%	9/30/2005	
1/31/2001	C	\$60.000	6.05%	1/31/2010	
1/31/2001	C	\$20.000	5.65%	1/31/2005	
1/31/2001	F	\$25.000	5.65%	1/31/2005	
1/31/2001	E	\$30.000	6.05%	1/31/2010	
6/30/2001	B	\$50.000	4.75%	6/30/2004	
6/30/2001	C	\$25.000	5.95%	6/30/2011	
8/31/2001	C	\$50.000	5.75%	8/31/2011	
3/31/2002	C	\$110.000	4.60%	3/31/2005	
3/31/2002	B	\$30.000	4.60%	3/31/2005	
6/30/2002	C	\$60.000	3.75%	6/30/2005	
6/30/2002	K	\$40.000	3.75%	6/30/2005	
9/30/2002	C	\$100.000	3.05%	9/30/2006	
9/30/2002	E	\$30.000	3.05%	9/30/2006	
9/30/2002	B	\$20.000	3.05%	9/30/2006	
10/31/2002	C	\$50.000	3.00%	10/31/2005	
11/30/2002	C	\$40.000	2.80%	11/30/2005	
12/31/2002	B	\$40.000	3.05%	12/31/2006	

**Actual Amortization Payments
Variance from Planned Amortization
(\$thousands)**

	Transmission	Generation	Total	
1997	14,707	(11,872)	2,835	
1998	56,336	(36,964)	19,372	
1999	3,847	(2,655)	1,192	23,399 sum of 1997-1999 total variance
2000	0	84,907	84,907	This amount is designated as having been applied
2001	0	97,280	97,280	to retirement of transmission debt associated with
	74,913	137,126	212,039	delivery facility sales.

Completed Sales of Delivery Sales

Proceeds received	41,006	
Book Value	33,250	Book value is the amount of transmission debt that must be retired.
		9,851 remainder to be repaid as of 9/30/02 (bv of 33,250 less transmission amortization excess over total payments of 23,399)

TBL Rate Case Forecast for 2003

Proceeds received	6,259
Book Value	7,604

Summary of Sales and Revenues

	FY2002		FY2003		FY2004		FY2005		FY2006	
	(\$000)	aMW	(\$000)	aMW	(\$000)	aMW	(\$000)	aMW	(\$000)	aMW
WEST HUB										
PF Full Service	\$215,753	933	\$154,012	813	\$161,254	871	\$166,364	884	\$169,620	902
PF Partial Service	\$159,007	596	\$117,765	639	\$125,987	685	\$127,759	695	\$128,971	701
PF Block Sales	\$404,887	1,617	\$282,395	1,607	\$285,013	1,622	\$294,252	1,627	\$296,069	1,635
PF SLICE	\$427,360	1,541	\$308,896	1,674	\$303,707	1,710	\$303,707	1,665	\$303,707	1,696
PF Buyback for SLICE & Block	(\$119,573)	-310	(\$19,003)	-32	\$0	0	\$0	0	\$0	0
TOTAL WEST PF	\$1,087,434	4,377	\$844,065	4,702	\$875,962	4,889	\$892,082	4,871	\$898,368	4,935
TOTAL WEST	\$1,087,434	4,377	\$844,065	4,702	\$865,447	4,889	\$881,473	4,871	\$888,327	4,935
EAST HUB										
PF Full Service	\$132,854	518	\$99,605	567	\$109,068	625	\$111,792	635	\$114,329	649
PF Partial Service	\$59,942	204	\$34,244	182	\$54,337	231	\$52,414	215	\$54,112	219
PF Block Sales	\$42,588	173	\$30,304	184	\$31,254	185	\$31,620	182	\$30,106	173
PF SLICE	\$132,049	470	\$94,188	511	\$94,188	521	\$94,188	508	\$94,188	517
TOTAL EAST PF	\$367,434	1,364	\$258,340	1,443	\$288,848	1,561	\$290,014	1,540	\$292,735	1,559
TOTAL EAST	\$367,434	1,364	\$258,340	1,443	\$280,703	1,561	\$281,876	1,540	\$284,407	1,559
BULK HUB										
DSI IP Sales	\$20,006	65	\$175,332	838	\$72,082	351	\$71,940	350	\$71,940	350
IP Load Curtailment	\$0	0	(\$146,423)	-699	\$0	0	\$0	0	\$0	0
DSI Load After Curtailments	\$20,006	65	\$28,909	139	\$72,082	351	\$71,940	350	\$71,940	350
Subscription Sales to IOUs (RL)	\$84,000	350	\$69,990	382	\$66,142	383	\$65,946	382	\$65,946	382
RL Buyback	(\$38,393)	-120	(\$41,940)	-127	(\$41,390)	-124	(\$41,277)	-124	(\$41,277)	-124
RL Load After Buybacks	\$45,606	230	\$28,050	255	\$24,752	259	\$24,669	258	\$24,669	258

TOTAL REVENUE	\$1,520,480	6,036	\$1,159,364	5,954	\$1,242,984	6,428	\$1,259,957	6,446	\$1,269,342	6,488
Forecast of Slice True Up Revenue			\$29,000		\$53,700		\$85,000		\$65,300	
RL Buyback Subject to FBCRAC			\$41,940	127	\$41,390		\$41,277		\$41,277	
FBCRAC Revenue Basis			\$1,230,304	6,081	\$1,338,075		\$1,386,234		\$1,375,919	
Revenue Recovery Amount			\$135,000		\$150,000		\$150,000		\$175,000	

FBCRAC Percentage			10.9729%		11.2101%		10.8207%		12.7188%	
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Slice revenue as percent of FBCRAC Revenue Basis			35.12%		33.75%		34.84%		33.66%	
			64.8800%		66.2500%		65.1600%		66.3400%	

check against monthly totals										
PF Buyback for SLICE & Block	\$119,573	310	\$19,003	32	\$0	0	\$0	0	\$0	0
PF Reduction Ld Following	\$20,157	71	\$8,793	24	\$0	0	\$0	0	\$0	0
RL Reduction	\$199,295	656	\$205,639	618	\$273,724	618	\$272,427	618	\$272,427	618
RL Buyback	\$38,393	120	\$41,940	127	\$41,390	124	\$41,277	124	\$41,277	124
IP Load Reduction	\$151,742	956	\$100,188	648	\$2,091	51	\$2,085	51	\$2,085	44
IP Load Curtailment	\$0	0	(\$146,423)	-699	\$0	0	\$0	0	\$0	0