

Summary of Results

Table 1: Look Forward - LB CRAC8 for April '05-September '05	
Increased Revenue Required (LB CRAC%)	26.79%
Total Increase in revenue in dollars	\$146,933,161
Increase in the Slice Rate	26.31%
Increase in the non-Slice Rate	25.77%

Table 2: LB CRAC6 True Up: April '04-September '04	
(negative sign = refund to customers)	
Total Bill Adjustment for Slice - 120 Day Rule	\$ -\$541,876
Total Bill Adjustment for non-Slice - (0 Day Rule + 120 Day Rule)	\$ \$4,227,714
Total Bill Adjustment Slice + non-Slice	\$ \$3,685,838
Adjustment factor for each Slice customer	-0.000385
Adjustment factor for each non-Slice customer	0.001587

BPA's Current Forecast for Future LB CRAC's		
note: This is being provided for your planning. These numbers will change.		
	<u>CRAC9</u>	<u>CRAC10</u>
LB CRAC%	25%	27%
Increase in Slice Rate	25%	27%
Increase in non-Slice Rate	25%	26%

Look Forward

Table 3

Increased Revenue Required (LB CRAC%)	26.79%	revenue required =	\$146,933,161
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Change to Slice Rate	26.31%
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Change to non-Slice Rate	25.77%
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Base Rates with LB CRAC8 Adjustment only						
	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05
Slice (\$/% Slice per month)	\$1,792,882	\$1,792,882	\$1,792,882	\$1,792,882	\$1,792,882	\$1,792,882
5-yr PF-02 and RL-02 rates						
HLH (\$/MWh)	\$16.58	\$16.51	\$20.69	\$27.20	\$40.27	\$28.85
LLH (\$/MWh)	\$11.09	\$9.12	\$11.07	\$18.48	\$22.55	\$23.63
Demand (\$/kW-mo)	\$1.82	\$1.80	\$2.25	\$2.91	\$2.91	\$2.91
Load Variance (\$/MWh)	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01
Stepped PF-02 Rates						
HLH (\$/MWh)	\$17.71	\$17.65	\$21.82	\$28.34	\$41.40	\$29.98
LLH (\$/MWh)	\$12.22	\$10.25	\$12.20	\$19.61	\$23.68	\$24.76
Demand (\$/kW-mo)	\$1.82	\$1.80	\$2.25	\$2.91	\$2.91	\$2.91
Load Variance (\$/MWh)	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01	\$1.01
IP-02 Rates w IPTAC(A)						
HLH (\$/MWh)	\$21.31	\$21.23	\$25.41	\$31.92	\$45.00	\$33.58
LLH (\$/MWh)	\$15.81	\$13.83	\$15.78	\$23.20	\$27.27	\$28.36
Demand (\$/kW-mo)	\$1.82	\$1.80	\$2.25	\$2.91	\$2.91	\$2.91
IP-02 Rates w IPTAC(B)						
HLH (\$/MWh)	\$23.19	\$23.12	\$27.29	\$33.81	\$46.89	\$35.47
LLH (\$/MWh)	\$17.70	\$15.72	\$17.67	\$25.09	\$29.15	\$30.25
Demand (\$/kW-mo)	\$1.82	\$1.80	\$2.25	\$2.91	\$2.91	\$2.91

Look Forward

Table 4: Mark-to-Market Prices (\$/MWh)							
	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	AVG.
HLH	47.47	36.90	35.65	50.75	60.60	57.50	48.15
LLH	40.15	29.80	29.00	43.15	51.50	50.50	40.68

Look Forward

Table 5: Average Net Augmentation Need and Net Short Position				
		<u>Apr-05</u>	<u>Jul-05</u>	<u>Apr-05</u>
		<u>to</u>	<u>to</u>	<u>to</u>
		<u>Jun-05</u>	<u>Sep-05</u>	<u>Sep-05</u>
1 - Net System Load	aMW	6,066	5,871	5,969
2 - Net Augmentation Need (w/losses)	aMW	803	665	734
3 - Net Short Position				
	HLH	aMW 171	0	86
	LLH	aMW 179	0	89

These numbers are approximate due to the use of simple averaging.

1 - Net System Load = System Load - Load reductions

2 - Net Augmentation Need = Net System Load - System Capability (w/transmission losses of 1.8%).

3 - The net short position is the simple average of the HLH and LLH actual net short positions for the given months.

Table 6: Selected 6-mo. Total Cost and Revenue Calculations	
1 - Augmentation Pre-Purchase Costs	\$ 159,449,466
2 - Net Short Costs	\$ 14,674,258
3 - Load Reduction Costs	\$ 106,573,763
4 - Total Gross Augmentation Costs in LB CRAC	\$ 237,379,392
5 - Revenues from Resale of Augmentation Quantity	\$ 90,446,231
6 - Net Augmentation Costs (= 4-5)	\$ 146,933,161
7 - Total Revenues from Slice before LB CRAC	\$ 187,771,382
8 - Total Revenues from non-Slice products before LB CRAC	\$ 360,641,393
9 - Total CRAC'able revenue before LB CRAC (= 7+8)	\$ 548,412,775
LB CRAC% (= 6/9)	26.79%

1- Sum of augmentation pre-purchases and power buyback for rate mitigation. Cost of rate mitigation deals with Slice/Block included here. IOU power conversion costs here also.

(Cost of IOU and DSI load reduction deals are contained in row 3). Rate mitigation buyback costs include both premium portion and cost of deals tied to LB CRAC.

2 - Net short costs = cost of meeting BPA's net short position

3 - All costs associated with load reductions from IOU, DSIs, and load following publics.

4 - If row 4 total is less than sum of rows (1+2+3), some costs in rows 1+2 are being excluded from recovery from LB CRAC.

Chase product is included as a credit in the calculation of Total Gross Augmentation Costs.

8 - Total revenue from non-Slice products that are subject to LB CRAC before application of LB CRAC.

Look Forward

Table 7: Average 6-mo. Costs and Loads		units	Apr-June	July-Sept	Apr-Sept.
Slice Load		aMW	1,600	1,600	1,600
PF Base Load		aMW			
	HLH	aMW	3,771	3,592	3,681
	LLH	aMW	3,339	3,058	3,198
RL Base Load		aMW			
	HLH	aMW	999	999	999
	LLH	aMW	999	999	999
IP Base Load		aMW			
	HLH	aMW	769	769	769
	LLH	aMW	769	769	769
Augmentation Pre-Purchase Costs					
<i>(note: this includes mkt. Pre-purchase cost + fixed portion of power buybacks)</i>					
	HLH	\$	11,941,360	18,452,172	15,196,766
	LLH	\$	8,670,124	14,086,166	11,378,145
Load Reduction Costs					
	HLH	\$	10,147,920	10,147,920	10,147,920
	LLH	\$	7,610,811	7,617,936	7,614,373
LDD Slice Costs		\$	243,814	243,814	243,814
LDD Non-Slice Costs		\$	451,912	774,050	612,981
C&R Slice Costs		\$	583,841	583,841	583,841
C&R Non-Slice Costs		\$	2,402,113	2,403,217	2,402,665

These numbers are approximate due to the use of simple averaging of actual numbers.

Table 8: Average 6-mo. Loads, Rate Mitigation, System Capability					
			<u>Apr-June</u>	<u>July-Sept</u>	<u>Apr-Sept.</u>
1 - System Load		aMW	7,240	7,038	7,139
2 - System Capability		aMW	5,278	5,218	5,248
3 - Load Reduction		aMW	1,174	1,167	1,170
	Public	aMW	0	0	0
	DSI	aMW	504	504	504
	IOU	aMW	620	613	616
	Other	aMW	50	50	50
4 - Augmentation Market Purchases					
	HLH	aMW	502	1,037	769
	LLH	aMW	513	1,098	805
5 - Augmentation Power Buybacks					
	HLH	aMW	122	121	121
	LLH	aMW	127	128	127

These numbers are approximate due to the use of simple averaging of actual numbers. Each row in this table is the simple average of the actual numbers in the analysis for that variable.

1&2 - These numbers are net of 1,600aMW of Slice and do not include losses.

3 - All DSI, IOU and load following publics rate mitigation deals treated as load reductions.

4 - Includes only market purchases.

5 - Includes only rate mitigation with Block/Slice customers.

LB CRAC True Up

April '04-September '04

Table 9: Total 6-mo. Incremental Revenue, Incremental Cost, Bill Adjustment Factors		
<i>Rows 1, 2 are the revenues BPA earned only from the LB CRAC part of rates.</i>		
1 - LB CRAC revenues earned from Slice	\$	\$47,807,124
2 - LB CRAC revenues earned from non-Slice products	\$	\$90,426,133
<i>sum</i>	\$	\$138,233,257
<i>Rows 3, 4 are the actual LB CRAC Revenue Requirement</i>		
3 - Revenues required from Slice to cover actual LB CRAC costs	\$	\$47,265,248
4 - Revenues required from non-Slice to cover actual LB CRAC costs	\$	\$89,467,034
<i>sum</i>	\$	\$136,732,282
<i>120 Day Bill Adjustment in Dollars (negative indicates refund to customers)</i>		-\$1,500,976
5 - Total Bill Adjustment for Slice - 120 Day Rule	\$	-\$541,876
6 - Bill Adjustment for non-Slice - 120 Day Rule	\$	-\$959,099
7 - Bill Adjustment non-Slice - 0 Day Rule	\$	\$5,186,814
8 - Total Bill Adjustment for non-Slice - (Sum of 0 Day Rule + 120 Day Rule)	\$	\$4,227,714
9 - Total Bill Adjustment Slice + non-Slice (row 6 + row 8)	\$	\$3,685,838
<i>Rows 10, 11 are the adjustment factors used to determine individual customer bill adjustments</i>		
10 - Adjustment factor for each Slice customer bill		-0.000385
11 - Adjustment factor for each non-Slice customer bill		0.001587

- 1 - Incremental Revenues from the LB CRAC increment to the May 2000 Slice rates.
- 2 - Incremental Revenues from the LB CRAC increment to the May 2000 non-Slice rates.
- 3 - Incremental Augmentation Costs in LB CRAC above May 2000 rates for Slice
- 4 - Incremental Augmentation Costs in LB CRAC above May 2000 rates for non-Slice
- 5 - Row 3 Table 9 - Row 1 Table 9.
- 6 - Row 4 Table 9 - Row 2 Table 9.
- 7 - Row 6 Table 11 - Row 6 Table 10.
- 10 - Applied to Slice payments from customer minus LDD minus C&R.
- 11 - Applied to payments from customer for products subject to LB CRAC minus LDD minus C&R.

LB CRAC True Up

April '04-September '04

Table 10: Total 6-mo. Cost and Revenue Calculations - 120 Day Rule			
1 - Augmentation Pre-Purchase Costs	\$	\$157,955,116	aMW 900
2 - Net Short Costs	\$	\$6,050,136	aMW 0
3 - Load Reduction Costs	\$	\$101,457,084	
4 - Gross Augmentation Costs in LB CRAC	\$	\$223,009,645	aMW 700
5 - Revenues from Resale of Augmentation Quantity	\$	\$86,277,363	aMW 700
6 - Actual Net Augmentation Costs in LB CRAC - 120 Day Rule (= 4-5)	\$	\$136,732,282	aMW 700
Rows 7, 8, 9 revenue calculations are the revenues BPA earned under LB CRAC'ed rates			
7 - Total Revenues from Slice	\$	\$234,543,331	aMW 1,600
8 - Total Revenues from non-Slice products	\$	\$443,960,352	aMW 4,091
9 - Total Revenue with LB CRAC Applied (= 7+8)	\$	\$678,503,683	

- 1- Sum of augmentation pre-purchases and power buyback for rate mitigation. Cost of rate mitigation deals with Slice/Block included here. IOU power conversion costs here also. (Cost of IOU and DSI load reduction deals are contained in row 3). Rate mitigation buyback costs include both premium portion and cost of deals tied to LB CRAC.
- 2 - net short costs = cost of meeting BPA's net short position
- 3 - All costs associated with load reductions from IOU, DSIs, and load following publics are borne by Slice and non-Slice.
- 4 - If row 4 total is less than sum of rows (1+2+3), some costs in rows 1+2 are being excluded from recovery from LB CRAC. Also, the Chase product is included as a credit in the calculation of Total Gross Augmentation Costs.
- 5 - Revenue from the resale of the augmentation quantity using the GRSP formula.
- 7, 8, 9 - Total revenue earned by BPA from Slice and non-Slice products at rates with LB CRAC.

Table 11: Total 6-mo. Cost and Revenue Calculations - 0 Day Rule			
1 - Augmentation Pre-Purchase Costs - 0 Day Rule	\$	\$157,955,116	aMW 900
2 - Net Short Costs - 0 Day Rule	\$	\$11,236,950	aMW 0
3 - Load Reduction Costs	\$	\$101,457,084	
4 - Gross Augmentation Costs in LB CRAC - 0 Day Rule	\$	\$228,196,459	aMW 700
5 - Revenues from Resale of Augmentation Quantity	\$	\$86,277,363	aMW 700
6 - Actual Net Augmentation Costs in LB CRAC 0 Day Rule (= 4-5)	\$	\$141,919,095	aMW 700

- 1- Sum of augmentation pre-purchases and power buyback for rate mitigation. Cost of rate mitigation deals with Slice/Block included here. IOU power conversions costs here also. (Cost of IOU and DSI load reduction deals are contained in row 3). Rate mitigation buyback costs include both premium portion and cost of deals tied to LB CRAC.
- 2 - net short costs = cost of meeting BPA's net short position
- 3 - All costs associated with load reductions from IOU, DSIs, and load following publics are borne by Slice and non-Slice.
- 4 - If row 4 total is less than sum of rows (1+2+3), some costs in rows 1+2 are being excluded from recovery from LB CRAC. Also, the Chase product is included as a credit in the calculation of Total Gross Augmentation Costs.
- 5 - Revenue from the resale of the augmentation quantity using the GRSP formula

LB CRAC True Up

April '04-September '04

		<u>Apr</u> <u>to</u> <u>June</u>	<u>July</u> <u>to</u> <u>Sept</u>	<u>Apr</u> <u>to</u> <u>Sept</u>
1 - Net System Load	aMW	5,970	5,840	5,905
2 - System Capability	aMW	5,248	5,248	5,248
3 - Net Augmentation Need (w/losses)	aMW	735	666	700
4 - Net Short Position	aMW	119	0	59
HLH	aMW	124	0	62
LLH	aMW	113	0	57

These numbers are approximate due to the use of simple averaging.

1 - In the True Up, Net System Load equals the system loads BPA served.

2 - Production from the system established in the rate case.

3 - Net Augmentation Need = Net System Load minus System Capability plus transmission losses of 1.8%. It is the simple average of actual monthly net augmentation need used in the model.

4 - The net short position is the simple average of the HLH and LLH actual net short positions for the given months.

LB CRAC True Up
April '04-September '04

1/0/1900

Table 13: Quarterly Average Loads		units	Apr-June	July-Sept	Apr-Sept
Slice Load Served		aMW	1,600	1,600	1,600
PF Load Served	HLH	aMW	3,699	3,597	3,647
	LLH	aMW	3,271	3,092	3,181
RL Load Served	HLH	aMW	382	382	382
	LLH	aMW	382	382	382
IP Load Served	HLH	aMW	285	277	281
	LLH	aMW	285	277	281

These numbers are approximate due to the use of simple averaging of actual numbers.

Table 14: Quarterly LDD & C&R Dollars		units	Apr-June	July-Sept	Apr-Sept
LDD Slice Costs		\$	417,638	624,303	520,970
LDD Non-Slice Costs		\$	584,018	1,025,028	804,523
C&R Slice Costs		\$	583,841	583,841	583,841
C&R Non-Slice Costs		\$	2,269,499	2,265,154	2,267,327

These numbers are approximate due to the use of simple averaging of actual numbers.

Table 15: Average Pre-Purchase Quantities to Meet Augmentation Need			Apr-June	July-Sept	Apr-Sept
1 - Augmentation Market Purchases - 120 Day Rule					
	HLH	aMW	487	1,053	770
	LLH	aMW	495	1,070	783
1 - Augmentation Market Purchases - 0 Day Rule					
	HLH	aMW	487	1,053	770
	LLH	aMW	495	1,070	783
2 - Augmentation Power Buybacks - 120 Day Rule					
	HLH	aMW	123	123	123
	LLH	aMW	126	124	125
2 - Augmentation Power Buybacks - 0 Day Rule					
	HLH	aMW	123	123	123
	LLH	aMW	126	124	125

These numbers are approximate due to the use of simple averaging of actual numbers. Each row in this table is the simple average of the actual numbers in the analysis for that variable.

1 - Includes only market purchases.

2 - Includes only rate mitigation with Block/Slice customers and IOU cash for power conversion.

Compare: Forecast to Actuals for LB CRAC6

April '04-September '04

1/0/1900

Table 16: Average Monthly Net System Load, Net Augmentation Need, Net Short Position				
		Forecast	Actual	Actual-Fcst
Net System Load	aMW	5,861	5,905	44
System Capability	aMW	5,217	5,217	0
Net Augmentation Need (w/losses)	aMW	656	700	44
Net Short Position	aMW	44	59	15
	HLH	48	62	14
	LLH	40	57	17

Table 17: Selected Total Cost and Revenue Calculations				
		Forecast	Actual (120 Day)	Actual-Fcst
Augmentation Pre-Purchase Costs	\$	159,600,176	157,955,116	-1,645,059
Net Short Costs	\$	4,773,518	6,050,136	1,276,618
Load Reduction Costs	\$	101,489,933	101,457,084	-32,849
Gross Augmentation Costs in LB CRAC	\$	217,551,365	223,009,645	5,458,280
Augmentation Costs Covered by Base Rates	\$	80,769,060	86,277,363	5,508,303
Net Augmentation Costs (= 4-5)	\$	136,782,305	136,732,282	-50,023
Revenue Earned from the LB CRAC	\$	136,782,305	138,233,257	1,450,953

Table 18: Average Monthly Costs and Loads				
		Forecast	Actual	Actual-Fcst
Slice Load to Serve	aMW	1,600	1,600	0
PF Load to Serve	aMW			
	HLH	3,630	3,647	17
	LLH	3,167	3,181	14
RL Load to Serve	aMW			
	HLH	381	382	1
	LLH	381	382	1
IP Load to Serve	aMW			
	HLH	263	281	18
	LLH	263	281	18
Augmentation Pre-Purchase Costs -120 Day (note: this includes mkt. Pre-purchase cost + fixed & var. portion of power buybacks)	HLH \$	15,229,352	15,280,515	51,163
	LLH \$	11,370,677	11,045,337	-325,340
Load Reduction Costs				
	HLH \$	9,473,112	9,666,513	193,400
	LLH \$	7,441,876	7,243,001	-198,875
LDD Slice Costs	\$	333,234	520,970	187,736
LDD Non-Slice Costs	\$	927,587	804,523	-123,064
C&R Slice Costs	\$	580,289	583,841	3,552
C&R Non-Slice Costs	\$	2,297,886	2,267,327	-30,559

note: These numbers are approximate due to the use of simple averaging of actual numbers.

Table 19: Average Monthly Load Reductions and Power Purchases				
		Forecast	Actual	Actual-Fcst
Load Reduction*				
	Public	0	NA	
	DSI	506	NA	
	IOU	618	NA	
	Other	50	NA	
Augmentation Market Purchases - 120 Day Rule				
	HLH	762	770	9
	LLH	797	783	-14
Augmentation Market Purchases - 0 Day Rule**				
	HLH	NA	770	
	LLH	NA	783	
Augmentation Power Buybacks - 120 Day Rule				
	HLH	124	123	-1
	LLH	121	125	3
Augmentation Power Buybacks - 0 Day Rule**				
	HLH	NA	123	
	LLH	NA	125	

* Actual load reductions are not calculated.

** For the forecast, implicitly, the 0 day results = 120 day results.