

Summary of Results

Table 1: Look Forward - LB CRAC10 for April '06-Sept '06	
Increased Revenue Required (LB CRAC%)	29.61%
Total Increase in revenue in dollars	\$165,082,678
Increase in the Slice Rate	29.07%
Increase in the non-Slice Rate	28.51%

Table 2: LB CRAC10 True Up: April'06-Sept'06		
(negative sign = refund to customers)		
Total Bill Adjustment for Slice - 120 Day Rule	\$	\$2,231,810
Total Bill Adjustment for non-Slice - (0 Day Rule + 120 Day Rule)	\$	-\$17,240,656
Total Bill Adjustment Slice + non-Slice	\$	-\$15,008,846
Adjustment factor for each Slice customer		0.001533
Adjustment factor for each non-Slice customer		-0.005951

BPA's Current Forecast for Future LB CRAC's	
note: This is being provided for your planning. These numbers definitely will not change.	
	<u>Na</u>
LB CRAC%	<u>Na</u>
Increase in Slice Rate	<u>Na</u>
Increase in non-Slice Rate	<u>Na</u>

Look Forward LB CRAC 10

April '06-Sept'06

Table 3

Increased Revenue Required (LB CRAC%)	29.61%	revenue required =	\$165,082,678
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Change to Slice Rate	29.07%
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Change to non-Slice Rate	28.51%
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Base Rates with LB CRAC10 Adjustment						
	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06
Slice (\$/% Slice per month)	\$1,832,058	\$1,832,058	\$1,832,058	\$1,832,058	\$1,832,058	\$1,832,058
5-yr PF-02 and RL-02 rates						
HLH (\$/MWh)	\$16.94	\$16.87	\$21.14	\$27.80	\$41.15	\$29.48
LLH (\$/MWh)	\$11.33	\$9.32	\$11.31	\$18.88	\$23.04	\$24.15
Demand (\$/kW-mo)	\$1.86	\$1.84	\$2.30	\$2.97	\$2.97	\$2.97
Load Variance (\$/MWh)	\$1.03	\$1.03	\$1.03	\$1.03	\$1.03	\$1.03
Stepped PF-02 Rates						
HLH (\$/MWh)	\$18.09	\$18.03	\$22.30	\$28.95	\$42.31	\$30.64
LLH (\$/MWh)	\$12.49	\$10.47	\$12.47	\$20.03	\$24.20	\$25.30
Demand (\$/kW-mo)	\$1.86	\$1.84	\$2.30	\$2.97	\$2.97	\$2.97
Load Variance (\$/MWh)	\$1.03	\$1.03	\$1.03	\$1.03	\$1.03	\$1.03
IP-02 Rates w IPTAC(A)						
HLH (\$/MWh)	\$21.77	\$21.69	\$25.96	\$32.62	\$45.98	\$34.31
LLH (\$/MWh)	\$16.15	\$14.14	\$16.13	\$23.71	\$27.86	\$28.98
Demand (\$/kW-mo)	\$1.86	\$1.84	\$2.30	\$2.97	\$2.97	\$2.97
IP-02 Rates w IPTAC(B)						
HLH (\$/MWh)	\$23.70	\$23.62	\$27.89	\$34.54	\$47.91	\$36.24
LLH (\$/MWh)	\$18.08	\$16.06	\$18.06	\$25.64	\$29.79	\$30.91
Demand (\$/kW-mo)	\$1.86	\$1.84	\$2.30	\$2.97	\$2.97	\$2.97

12/14/05 LB CRAC Workshop
Final Results

Look Forward

Table 4: Mark-to-Market Prices (\$/MWh)							
	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	AVG.
HLH	64.55	46.45	43.45	71.30	86.30	83.30	65.89
LLH	53.10	35.30	33.85	57.85	70.60	68.65	53.23

Look Forward

April '06-Sept'06

Table 5: Average Net Augmentation Need and Net Short Position				
		<u>Apr-06</u>	<u>Jul-06</u>	<u>Apr-06</u>
		<u>to</u>	<u>to</u>	<u>to</u>
		<u>Jun-06</u>	<u>Sep-06</u>	<u>Sep-06</u>
1 - Net System Load	aMW	6,142	5,804	5,973
2 - Net Augmentation Need (w/losses)	aMW	923	648	786
3 - Net Short Position				
	HLH	aMW 365	0	182
	LLH	aMW 376	0	188

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	\$	130,913,503
2 - Net Short Costs	\$	41,061,406
3 - Load Reduction Costs	\$	102,925,084
4 - Total Gross Augmentation Costs in LB CRAC	\$	261,874,815
5 - Revenues from Resale of Augmentation Quantity	\$	96,792,138
6 - Net Augmentation Costs (= 4-5)	\$	165,082,678
7 - Total Revenues from Slice before LB CRAC	\$	187,794,900
8 - Total Revenues from non-Slice products before LB CRAC	\$	369,766,985
9 - Total CRAC'able revenue before LB CRAC (= 7+8)	\$	557,561,884
LB CRAC% (= 6/9)		29.61%

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

April '06-Sept'06

Table 7: Average 6-mo. Costs and Loads		units	April-May	Jun-Jul	Aug-Sept	
Slice Load		aMW	1,600	1,600	1,600	
PF Base Load		aMW				
	HLH	aMW	3,891	3,702	3,796	
	LLH	aMW	3,451	3,174	3,312	
RL Base Load		aMW				
	HLH	aMW	999	999	999	
	LLH	aMW	999	999	999	
IP Base Load		aMW				
	HLH	aMW	762	762	762	
	LLH	aMW	762	762	762	
Augmentation Pre-Purchase Costs						
(note: this includes mkt. Pre-purchase cost		HLH	\$	11,018,200	13,942,448	12,480,324
+ fixed portion of power buybacks)		LLH	\$	8,081,562	10,595,624	9,338,593
Load Reduction Costs						
	HLH	\$	9,776,341	9,776,341	9,776,341	
	LLH	\$	7,376,848	7,378,831	7,377,840	
LDD Slice Costs		\$	239,894	239,894	239,894	
LDD Non-Slice Costs		\$	595,020	1,018,689	806,854	
C&R Slice Costs		\$	583,841	583,841	583,841	
C&R Non-Slice Costs		\$	2,401,985	2,403,018	2,402,501	

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>April-May</u>	<u>Jun-Jul</u>	<u>Aug-Sept</u>
1 - System Load		aMW	7,319	7,004	7,162
2 - System Capability		aMW	5,236	5,167	5,202
3 - Load Reduction		aMW	1,177	1,200	1,188
	Public	aMW	0	0	0
	DSI	aMW	490	490	490
	IOU	aMW	620	613	616
	Other	aMW	67	97	82
4 - Augmentation Market Purchases					
	HLH	aMW	424	640	532
	LLH	aMW	443	685	564
5 - Augmentation Power Buybacks					
	HLH	aMW	122	121	122
	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 '06-Sept'06

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	\$	\$55,454,236
2 - LB CRAC revenues earned from non-Slice products	\$	\$110,129,009
<i>sum</i>	\$	\$165,583,244
<i>Rows 3, 4 are the actual LB CRAC Revenue Requirement</i>		
3 - Revenues required from Slice to cover actual LB CRAC costs	\$	\$57,686,046
4 - Revenues required from non-Slice to cover actual LB CRAC costs	\$	\$114,768,744
<i>sum</i>	\$	\$172,454,790
<i>120 Day Bill Adjustment in Dollars (negative indicates refund to customers)</i>		\$6,871,545
5 - Total Bill Adjustment for Slice - 120 Day Rule	\$	\$2,231,810
6 - Bill Adjustment for non-Slice - 120 Day Rule	\$	\$4,639,735
7 - Bill Adjustment non-Slice - 0 Day Rule	\$	-\$21,880,391
8 - Total Bill Adjustment for non-Slice - (Sum of 0 Day Rule + 120 Day Rule)	\$	-\$17,240,656
9 - Total Bill Adjustment Slice + non-Slice (row 5 + row 8)	\$	-\$15,008,846
<i>Rows 10, 11 are the adjustment factors used to determine individual customer bill adjustments</i>		
10 - Adjustment factor for each Slice customer bill		0.001533
11 - Adjustment factor for each non-Slice customer bill		-0.005951

- 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 '06-Sept'06

Table 10: Total 6-mo. Cost and Revenue Calculations - 120 Day Rule				
1 - Augmentation Pre-Purchase Costs	\$	\$129,668,976	aMW	667
2 - Net Short Costs	\$	\$50,850,750	aMW	222
3 - Load Reduction Costs	\$	\$102,913,725		
4 - Gross Augmentation Costs in LB CRAC	\$	\$281,972,302	aMW	888
5 - Revenues from Resale of Augmentation Quantity	\$	\$109,517,512	aMW	888
6 - Actual Net Augmentation Costs in LB CRAC - 120 Day Rule (= 4-5)	\$	\$172,454,790	aMW	888
Rows 7, 8, 9 revenue calculations are the revenues BPA earned under LB CRAC'ed rates				
7 - Total Revenues from Slice	\$	\$242,712,235	aMW	1,600
8 - Total Revenues from non-Slice products	\$	\$482,885,899	aMW	4,211
9 - Total Revenue with LB CRAC Applied (= 7+8)	\$	\$725,598,134		

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	\$	\$129,668,976	aMW	667
2 - Net Short Costs - 0 Day Rule	\$	\$28,970,359	aMW	222
3 - Load Reduction Costs	\$	\$102,913,725		
4 - Gross Augmentation Costs in LB CRAC - 0 Day Rule	\$	\$260,091,911	aMW	888
5 - Revenues from Resale of Augmentation Quantity	\$	\$109,517,512	aMW	888
6 - Actual Net Augmentation Costs in LB CRAC 0 Day Rule (= 4-5)	\$	\$150,574,399	aMW	888

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 '06-Sept'06

Table 12: Average Net Augmentation Need and Net Short Position			<u>Apr</u> <u>to</u> <u>Jun</u>	<u>Jul</u> <u>to</u> <u>Sep</u>	<u>Apr</u> <u>to</u> <u>Sep</u>
1 - Net System Load	aMW		6,149	6,000	6,074
2 - System Capability	aMW		5,236	5,167	5,202
3 - Net Augmentation Need (w/losses)	aMW		929	847	888
4 - Net Short Position	aMW		378	81	229
HLH	aMW		370	78	224
LLH	aMW		386	84	235

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 '06-Sept'06

Table 13: Quarterly Average Loads		units	April-May	Jun-Jul	Aug-Sept
Slice Load Served		aMW	1,600	1,600	1,600
PF Load Served	HLH	aMW	3,785	3,787	3,786
	LLH	aMW	3,356	3,272	3,314
RL Load Served	HLH	aMW	382	382	382
	LLH	aMW	382	382	382
IP Load Served	HLH	aMW	265	265	265
	LLH	aMW	266	265	266

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

Table 14: Quarterly LDD & C&R Dollars		units	April-May	Jun-Jul	Aug-Sept
LDD Slice Costs		\$	425,128	425,128	425,128
LDD Non-Slice Costs		\$	680,078	1,235,902	957,990
C&R Slice Costs		\$	583,841	583,841	583,841
C&R Non-Slice Costs		\$	2,253,596	2,254,786	2,254,191

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

Table 15: Average Pre-Purchase Quantities to Meet Augmentation Need			April-May	Jun-Jul	Aug-Sept
1 - Augmentation Market Purchases - 120 Day Rule					
	HLH	aMW	436	663	549
	LLH	aMW	419	652	536
1 - Augmentation Market Purchases - 0 Day Rule					
	HLH	aMW	436	663	549
	LLH	aMW	419	652	536
2 - Augmentation Power Buybacks - 120 Day Rule					
	HLH	aMW	124	124	124
	LLH	aMW	124	124	124
2 - Augmentation Power Buybacks - 0 Day Rule					
	HLH	aMW	124	124	124
	LLH	aMW	124	124	124

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 CRAC8

April '06-Sept'06

Table 16: Average Monthly Net System Load, Net Augmentation Need, Net Short Position				
		Forecast	Actual	Actual-Fcst
Net System Load	aMW	5,973	6,074	101
System Capability	aMW	5,202	5,202	0
Net Augmentation Need (w/losses)	aMW	786	888	103
Net Short Position	aMW	182	229	47
	HLH	188	224	36
	LLH	177	235	58

Table 17: Selected Total Cost and Revenue Calculations				
		Forecast	Actual (120 Day)	Actual-Fcst
Augmentation Pre-Purchase Costs	\$	130,913,503	129,668,976	-1,244,527
Net Short Costs	\$	41,061,406	50,850,750	9,789,344
Load Reduction Costs	\$	102,925,084	102,913,725	-11,359
Gross Augmentation Costs in LB CRAC	\$	261,874,815	281,972,302	20,097,486
Augmentation Costs Covered by Base Rates	\$	96,792,138	109,517,512	12,725,374
Net Augmentation Costs (= 4-5)	\$	165,082,678	172,454,790	7,372,112
Revenue Earned from the LB CRAC	\$	165,082,678	165,583,244	500,567

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	3,796	3,786	-10
	LLH	3,312	3,314	2
RL Load to Serve	aMW			
	HLH	383	382	-1
	LLH	383	382	-1
IP Load to Serve	aMW			
	HLH	272	265	-7
	LLH	272	266	-6
Augmentation Pre-Purchase Costs -120 Day (note: this includes mkt. Pre-purchase cost + fixed & var. portion of power buybacks)	HLH \$	12,480,324	12,579,185	98,861
	LLH \$	9,338,593	9,032,311	-306,282
Load Reduction Costs				
	HLH \$	9,776,341	9,805,915	29,574
	LLH \$	7,377,840	7,346,372	-31,467
LDD Slice Costs	\$	239,894	425,128	185,234
LDD Non-Slice Costs	\$	806,854	957,990	151,136
C&R Slice Costs	\$	583,841	583,841	0
C&R Non-Slice Costs	\$	2,402,501	2,254,191	-148,310

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	aMW	0	NA
	DSI	aMW	490	NA
	IOU	aMW	616	NA
	Other	aMW	82	NA
Augmentation Market Purchases - 120 Day Rule				
	HLH	aMW	532	549
	LLH	aMW	564	536
Augmentation Market Purchases - 0 Day Rule**				
	HLH	aMW	NA	549
	LLH	aMW	NA	536
Augmentation Power Buybacks - 120 Day Rule				
	HLH	aMW	124	124
	LLH	aMW	122	124
Augmentation Power Buybacks - 0 Day Rule**				
	HLH	aMW	NA	124
	LLH	aMW	NA	124

* Actual load reductions are not calculated.

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