

## Summary of Results

<b>Table 1: Look Forward - LB CRAC9 for Oct '05-March '06</b>	
Increased Revenue Required (LB CRAC%)	<b>24.68%</b>
Total Increase in revenue in dollars	\$160,658,308
Increase in the Slice Rate	<b>24.62%</b>
Increase in the non-Slice Rate	<b>24.40%</b>

<b>Table 2: LB CRAC7 True Up: Oct '04-Mar '05</b>		
(negative sign = refund to customers)		
Total Bill Adjustment for Slice - 120 Day Rule	\$	\$2,325,908
Total Bill Adjustment for non-Slice - (0 Day Rule + 120 Day Rule)	\$	\$4,775,896
Total Bill Adjustment Slice + non-Slice	\$	<b>\$7,101,804</b>
Adjustment factor for each Slice customer		0.001692
Adjustment factor for each non-Slice customer		0.001429

<b>BPA's Current Forecast for Future LB CRAC's</b>	
note: This is being provided for your planning. These numbers will change.	
	<u>CRAC10</u>
LB CRAC%	29%
Increase in Slice Rate	29%
Increase in non-Slice Rate	29%

## Look Forward

Oct '05-March '06

Table 3

<b>Increased Revenue Required (LB CRAC%)</b>	<b>24.68%</b>	revenue required =	\$160,658,308
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<b>Change to Slice Rate</b>	<b>24.62%</b>
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<b>Change to non-Slice Rate</b>	<b>24.40%</b>
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<b>Base Rates with LB Adjustment</b>						
	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06
<b>Slice</b> (\$/% Slice per month)	\$1,768,894	\$1,768,894	\$1,768,894	\$1,768,894	\$1,768,894	\$1,768,894
<b>5-yr PF-02 and RL-02 rates</b>						
HLH (\$/MWh)	\$20.24	\$27.37	\$28.18	\$25.03	\$23.11	\$20.94
LLH (\$/MWh)	\$14.63	\$22.03	\$21.61	\$17.59	\$16.35	\$14.21
Demand (\$/kW-mo)	\$2.19	\$2.87	\$2.87	\$2.69	\$2.53	\$2.26
Load Variance (\$/MWh)	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00
<b>Stepped PF-02 Rates</b>						
HLH (\$/MWh)	\$21.36	\$28.49	\$29.30	\$26.15	\$24.23	\$22.06
LLH (\$/MWh)	\$15.75	\$23.15	\$22.73	\$18.71	\$17.47	\$15.33
Demand (\$/kW-mo)	\$2.19	\$2.87	\$2.87	\$2.69	\$2.53	\$2.26
Load Variance (\$/MWh)	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00
<b>IP-02 Rates w IPTAC(A)</b>						
HLH (\$/MWh)	\$24.92	\$32.05	\$32.85	\$29.71	\$27.78	\$25.61
LLH (\$/MWh)	\$19.31	\$26.71	\$26.29	\$22.27	\$21.02	\$18.88
Demand (\$/kW-mo)	\$2.19	\$2.87	\$2.87	\$2.69	\$2.53	\$2.26
<b>IP-02 Rates w IPTAC(B)</b>						
HLH (\$/MWh)	\$26.78	\$33.91	\$34.72	\$31.57	\$29.64	\$27.48
LLH (\$/MWh)	\$21.17	\$28.59	\$28.15	\$24.13	\$22.89	\$20.75
Demand (\$/kW-mo)	\$2.19	\$2.87	\$2.87	\$2.69	\$2.53	\$2.26

6/1/05 LB CRAC Workshop  
Final Results

## Look Forward

Table 4: Mark-to-Market Prices (\$/MWh)							
	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	AVG.
HLH	55.95	59.70	64.85	66.63	63.97	59.23	61.72
LLH	48.25	51.70	56.45	57.05	55.20	51.06	53.29

## Look Forward

Oct '05-March '06

<b>Table 5: Average Net Augmentation Need and Net Short Position</b>				
		<u>Oct-05</u>	<u>Jan-06</u>	<u>Oct-05</u>
		<u>to</u>	<u>to</u>	<u>to</u>
		<u>Dec-05</u>	<u>Mar-06</u>	<u>Mar-06</u>
1 - Net System Load	aMW	6,342	6,867	6,604
2 - Net Augmentation Need (w/losses)	aMW	725	1,030	877
3 - Net Short Position				
	HLH	0	227	114
	LLH	0	238	119

*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.

<b>Table 6: Selected 6-mo. Total Cost and Revenue Calculations</b>	
1 - Augmentation Pre-Purchase Costs	\$ <b>172,613,100</b>
2 - Net Short Costs	\$ 29,859,156
3 - Load Reduction Costs	\$ <b>105,222,232</b>
4 - Total Gross Augmentation Costs in LB CRAC	\$ <b>268,293,757</b>
5 - Revenues from Resale of Augmentation Quantity	\$ 107,635,449
6 - Net Augmentation Costs (= 4-5)	\$ <b>160,658,308</b>
7 - Total Revenues from Slice before LB CRAC	\$ 187,530,020
8 - Total Revenues from non-Slice products before LB CRAC	\$ 463,407,734
9 - Total CRAC'able revenue before LB CRAC (= 7+8)	\$ 650,937,754
LB CRAC% (= 6/9)	<b>24.68%</b>

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

Oct '05-March '06

<b>Table 7: Average 6-mo. Costs and Loads</b>		<b>units</b>	<b>Oct-Nov</b>	<b>Dec-Jan</b>	<b>Feb-Mar</b>
Slice Load		aMW	1,600	1,600	1,600
PF Base Load		aMW			
	HLH	aMW	4,261	4,728	4,492
	LLH	aMW	3,746	4,217	3,979
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
<b>Augmentation Pre-Purchase Costs</b>					
(note: this includes mkt. Pre-purchase cost + fixed portion of power buybacks)					
	HLH	\$	18,654,851	14,151,791	16,403,321
	LLH	\$	14,248,940	10,482,119	12,365,529
<b>Load Reduction Costs</b>					
	HLH	\$	10,147,920	9,893,270	10,020,595
	LLH	\$	7,618,221	7,414,666	7,516,444
LDD Slice Costs		\$	792,780	790,559	791,670
LDD Non-Slice Costs		\$	0	0	0
C&R Slice Costs		\$	77,522	74,903	76,212
C&R Non-Slice Costs		\$	890,535	887,045	888,790

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

<b>Table 8: Average 6-mo. Loads, Rate Mitigation, System Capability</b>					
			<u>Oct-Nov</u>	<u>Dec-Jan</u>	<u>Feb-Mar</u>
1 - System Load		aMW	7,569	8,055	7,812
2 - System Capability		aMW	5,630	5,855	5,743
3 - Load Reduction		aMW	1,227	1,188	1,208
	Public	aMW	0	0	0
	DSI	aMW	497	497	497
	IOU	aMW	613	628	620
	Other	aMW	117	64	90
4 - Augmentation Market Purchases					
	HLH	aMW	1,049	668	859
	LLH	aMW	1,111	687	899
5 - Augmentation Power Buybacks					
	HLH	aMW	121	123	122
	LLH	aMW	128	127	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

Oct '04-Mar '05

<b>Table 9: Total 6-mo. Incremental Revenue, Incremental Cost, Bill Adjustment Factors</b>		
<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	\$	\$41,843,641
2 - LB CRAC revenues earned from non-Slice products	\$	\$101,544,834
<i>sum</i>	\$	<b>\$143,388,476</b>
<i>Rows 3, 4 are the actual LB CRAC Revenue Requirement</i>		
3 - Revenues required from Slice to cover actual LB CRAC costs	\$	\$44,169,549
4 - Revenues required from non-Slice to cover actual LB CRAC costs	\$	\$107,332,556
<i>sum</i>	\$	<b>\$151,502,105</b>
<i>120 Day Bill Adjustment in Dollars (negative indicates refund to customers)</i>		<b>\$8,113,629</b>
5 - Total Bill Adjustment for Slice - 120 Day Rule	\$	<b>\$2,325,908</b>
6 - Bill Adjustment for non-Slice - 120 Day Rule	\$	\$5,787,722
7 - Bill Adjustment non-Slice - 0 Day Rule	\$	-\$1,011,825
8 - Total Bill Adjustment for non-Slice - (Sum of 0 Day Rule + 120 Day Rule)	\$	<b>\$4,775,896</b>
9 - Total Bill Adjustment Slice + non-Slice (row 5 + row 8)	\$	<b>\$7,101,804</b>
<i>Rows 10, 11 are the adjustment factors used to determine individual customer bill adjustments</i>		
<b>10 - Adjustment factor for each Slice customer bill</b>		<b>0.001692</b>
<b>11 - Adjustment factor for each non-Slice customer bill</b>		<b>0.001429</b>

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

Oct '04-Mar '05

<b>Table 10: Total 6-mo. Cost and Revenue Calculations - 120 Day Rule</b>				
1 - Augmentation Pre-Purchase Costs	\$	\$191,675,455	aMW	1,182
2 - Net Short Costs	\$	\$9,464,159	aMW	0
3 - Load Reduction Costs	\$	\$106,555,257		
4 - Gross Augmentation Costs in LB CRAC	\$	\$280,491,213	aMW	1,044
5 - Revenues from Resale of Augmentation Quantity	\$	\$128,989,108	aMW	1,044
6 - Actual Net Augmentation Costs in LB CRAC - 120 Day Rule (= 4-5)	\$	\$151,502,105	aMW	1,044
Rows 7, 8, 9 revenue calculations are the revenues BPA earned under LB CRAC'ed rates				
7 - Total Revenues from Slice	\$	\$229,145,725	aMW	1,600
8 - Total Revenues from non-Slice products	\$	\$556,826,977	aMW	4,960
9 - Total Revenue with LB CRAC Applied (= 7+8)	\$	\$785,972,703		

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.

<b>Table 11: Total 6-mo. Cost and Revenue Calculations - 0 Day Rule</b>				
1 - Augmentation Pre-Purchase Costs - 0 Day Rule	\$	\$191,675,455	aMW	1,182
2 - Net Short Costs - 0 Day Rule	\$	\$8,452,334	aMW	0
3 - Load Reduction Costs	\$	\$106,555,257		
4 - Gross Augmentation Costs in LB CRAC - 0 Day Rule	\$	\$279,479,388	aMW	1,044
5 - Revenues from Resale of Augmentation Quantity	\$	\$128,989,108	aMW	1,044
6 - Actual Net Augmentation Costs in LB CRAC 0 Day Rule (= 4-5)	\$	\$150,490,280	aMW	1,044

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

Oct '04-Mar '05

<b>Table 12: Average Net Augmentation Need and Net Short Position</b>			<u>Oct</u>	<u>Jan</u>	<u>Oct</u>
			<u>to</u>	<u>to</u>	<u>to</u>
			<u>Dec</u>	<u>Mar</u>	<u>Mar</u>
1 - Net System Load	aMW		6,600	6,845	6,722
2 - System Capability	aMW		5,541	5,852	5,697
3 - Net Augmentation Need (w/losses)	aMW		1,078	1,010	1,044
4 - Net Short Position	aMW		56	15	36
HLH	aMW		59	16	
LLH	aMW		53	14	34

*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

Oct '04-Mar '05

<b>Table 13: Quarterly Average Loads</b>		<b>units</b>	<b>Oct-Nov</b>	<b>Dec-Jan</b>	<b>Feb-Mar</b>
Slice Load Served		aMW	1,600	1,600	1,600
PF Load Served	HLH	aMW	4,363	4,717	4,538
	LLH	aMW	3,869	4,251	4,058
RL Load Served	HLH	aMW	382	382	382
	LLH	aMW	382	382	382
IP Load Served	HLH	aMW	268	262	265
	LLH	aMW	268	262	265

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

<b>Table 14: Quarterly LDD &amp; C&amp;R Dollars</b>		<b>units</b>	<b>Oct-Nov</b>	<b>Dec-Jan</b>	<b>Feb-Mar</b>
LDD Slice Costs		\$	392,581	392,581	392,581
LDD Non-Slice Costs		\$	1,065,766	988,156	1,026,961
C&R Slice Costs		\$	583,899	583,899	583,899
C&R Non-Slice Costs		\$	2,257,262	2,252,929	2,255,096

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

<b>Table 15: Average Pre-Purchase Quantities to Meet Augmentation Need</b>			<b>Oct-Nov</b>	<b>Dec-Jan</b>	<b>Feb-Mar</b>
1 - Augmentation Market Purchases - 120 Day Rule					
	HLH	aMW	1,056	1,052	1,054
	LLH	aMW	1,066	1,058	1,062
1 - Augmentation Market Purchases - 0 Day Rule					
	HLH	aMW	1,056	1,052	1,054
	LLH	aMW	1,066	1,058	1,062
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 CRAC7

Oct '04-Mar '05

Table 16: Average Monthly Net System Load, Net Augmentation Need, Net Short Position				
		Forecast	Actual	Actual-Fcst
Net System Load	aMW	6,509	6,722	214
System Capability	aMW	5,697	5,697	0
Net Augmentation Need (w/losses)	aMW	826	1,044	218
Net Short Position	aMW	0	36	36
	HLH	0	38	38
	LLH	0	34	34

Table 17: Selected Total Cost and Revenue Calculations				
		Forecast	Actual (120 Day)	Actual-Fcst
Augmentation Pre-Purchase Costs	\$	195,878,501	191,675,455	-4,203,045
Net Short Costs	\$	0	9,464,159	9,464,159
Load Reduction Costs	\$	109,628,564	106,555,257	-3,073,308
Gross Augmentation Costs in LB CRAC	\$	244,145,841	280,491,213	36,345,372
Augmentation Costs Covered by Base Rates	\$	101,475,371	128,989,108	27,513,737
Net Augmentation Costs (= 4-5)	\$	142,670,469	151,502,105	8,831,636
Revenue Earned from the LB CRAC	\$	142,670,469	143,388,476	718,006

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	4,563	4,538	-25
	LLH	4,031	4,058	28
RL Load to Serve	aMW			
	HLH	379	382	3
	LLH	379	382	3
IP Load to Serve	aMW			
	HLH	265	265	0
	LLH	265	265	0
Augmentation Pre-Purchase Costs -120 Day (note: this includes mkt. Pre-purchase cost + fixed & var. portion of power buybacks)	HLH \$	18,585,681	18,481,788	-103,893
	LLH \$	14,060,736	13,464,121	-596,614
Load Reduction Costs				
	HLH \$	10,655,509	10,140,860	-514,649
	LLH \$	7,615,919	7,618,349	2,431
LDD Slice Costs	\$	238,433	392,581	154,148
LDD Non-Slice Costs	\$	1,076,504	1,026,961	-49,543
C&R Slice Costs	\$	582,504	583,899	1,395
C&R Non-Slice Costs	\$	2,395,251	2,255,096	-140,155

*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	504	NA	
	IOU	620	NA	
	Other	153	NA	
Augmentation Market Purchases - 120 Day Rule				
	HLH	1,056	1,054	-2
	LLH	1,102	1,062	-40
Augmentation Market Purchases - 0 Day Rule**				
	HLH	NA	1,054	
	LLH	NA	1,062	
Augmentation Power Buybacks - 120 Day Rule				
	HLH	124	124	0
	LLH	122	124	2
Augmentation Power Buybacks - 0 Day Rule**				
	HLH	NA	124	
	LLH	NA	124	

\* Actual load reductions are not calculated.

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