

Total Results - Tables 1-3

Table 1 - 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	\$	\$44,077,031
2 - LB CRAC revenues earned from non-Slice products	\$	\$99,587,653
<i>Rows 3, 4 are the actual LB CRAC Revenue Requirement</i>		
3 - Revenues required from Slice to cover actual LB CRAC costs	\$	\$40,970,634
4 - Revenues required from non-Slice to cover actual LB CRAC costs	\$	\$92,021,960
<i>Bill Adjustment in Dollars (negative indicates refund to customers)</i>		
5 - Total Bill Adjustment for Slice - 120 Day Rule	\$	-\$3,106,397
6 - Bill Adjustment for non-Slice - 120 Day Rule	\$	-\$7,565,693
7 - Bill Adjustment non-Slice - 0 Day Rule	\$	-\$994,999
8 - Total Bill Adjustment for non-Slice - (Sum of 0 Day Rule + 120 Day Rule)	\$	-\$8,560,692
9 - Total Bill Adjustment Slice + non-Slice (row 6 + row 8)	\$	-\$11,667,090
<i>Rows 10, 11 are the adjustment factors used to determine individual customer bill adjustments</i>		
10 - Adjustment factor for each Slice customer bill		(0.007503847)
11 - Adjustment factor for each non-Slice customer bill		(0.009206977)

1 - Incremental Revenues from the LB CRAC increment to the May 2000 Slice rate for Oct. '01- March '02.

2 - Incremental Revenues from the LB CRAC increment to the May 2000 non-Slice rates for Oct. '01- March '02.

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 1 - row 1 Table 1.

6 - Row 4 table 1 - row 2 Table 1.

7 - Row 6 table 3 - row 6 Table 2.

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.

Table 2 - Total Cost and Revenue Calculations - 120 Day Rule		
1 - Augmentation Pre-Purchase Costs	\$	\$152,193,858
2 - Net Short Costs	\$	\$0
3 - Load Reduction Costs	\$	\$99,406,432
4 - Total Gross Augmentation Costs in LB CRAC	\$	\$183,847,756
5 - Revenues from Resale of Augmentation Quantity	\$	\$50,855,162
6 - Actual Net Augmentation Costs in LB CRAC - 120 Day Rule (= 4-5)	\$	\$132,992,593
<i>Rows 7, 8, 9 revenue calculations are the revenues BPA earned under LB CRAC'ed rates</i>		
7 - Total Revenues from Slice	\$	\$137,991,323
8 - Total Revenues from non-Slice products	\$	\$309,934,966
9 - Total Revenue with LB CRAC Applied (= 7+8)	\$	\$447,926,289

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 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 3 - Total Cost and Revenue Calculations - 0 Day Rule		
1 - Augmentation Pre-Purchase Costs - 0 Day Rule	\$	\$160,266,198
2 - Net Short Costs - 0 Day Rule	\$	\$0
3 - Load Reduction Costs	\$	\$99,406,432
4 - Total Gross Augmentation Costs in LB CRAC - 0 Day Rule	\$	\$182,852,757
5 - Revenues from Resale of Augmentation Quantity	\$	\$50,855,162
6 - Actual Net Augmentation Costs in LB CRAC 0 Day Rule (= 4-5)	\$	\$131,997,594

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 rows (1+2+3), some costs in rows 1+2 are being excluded from recovery from LB CRAC.

Also, the Chase product 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

MODEL OVERVIEW -- LB CRAC CALCULATIONS FOR THE TRUE-UP**Housekeeping**

Analysis Parameters	This worksheet is the place where values for a number of variables are input from the look forward analysis and certain variables defining the term and months in a given look back true-up are input and set.
Definitions	Definition of variable definitions in the GRSPs.

Data Input

Load Inputs	Input of base loads, load reductions amounts by rate schedule.
120-Day Rule Pre-Purchases - Inputs	Input of market purchases and power buybacks by diurnal period by month (both quantity and costs) that are acquired no sooner than 120-days before the beginning of each separate month.
0-Day Rule Pre-Purchases - Inputs	Input of market purchases and power buybacks by diurnal period by month (both quantity and costs) that are acquired up to the beginning of each separate month (includes purchases included in 120-day rule worksheet).
Fixed Buydown Costs & Rates	Input of fixed costs and rates by rate schedule.

Output Worksheets

Total Results	Reports total cost, revenues, bill adjustments.
Selected Results - Monthly	Reports results for a variety of dependent variables and Inputs on a monthly level and some on a diurnal monthly level.
Avg. Net Aug. Need + Net Short	Reports gross augmentation need, net augmentation need, net short position.
Quarterly Inputs	Reports inputs to a quarterly and 6-month level of aggregation (when applicable) using simple averaging.

Calculations

Calculated Inputs	Values for independent variables that are dependent on aggregation of user provided data inputs Also contains calculation of costs for rate mitigation deals (both load reduction and power buybacks) tied to LB CRAC.
120-Day Rule Calc's	Performs calculation of LB CRAC gross costs, net costs, revenues using purchases included in 120-Day Rule pre-purchases.
0-Day Rule Calc's	Performs calculation of LB CRAC gross costs, net costs, revenues using purchases included in 0-Day Rule pre-purchases.
Lookback Calculation	Performs the calculations used to determine what surcharge or rebate is required for the true-up.

Analysis Parameters

1. This worksheet contains parameters input to the analysis of two kinds: (a) the term covered by the look back analysis, and (b) values from the look forward analysis done for this same term and important in the look back calculations.

2. *Italic sections have a link to an external data source with the value hardwired in this model.*

A. Number of Months in Analysis	3
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B. Months (names)	Oct	Nov	Dec
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C. Diurnal Hours	Oct	Nov	Dec
HLH	432	416	416
LLH	313	304	328

D. System Capability (these numbers are fixed and equal the number for that month used in the look forward calculation)

	Oct	Nov	Dec
aMW	4,976	5,464	5,886

E. Base Rates from the Look Forward Analysis		Oct	Nov	Dec
Slice	\$/1% Slice	\$1,419,430	\$1,419,430	\$1,419,430
5 yr PF-02 and IP-02 RATE[NS]				
HLH	\$/MWh	\$16.27	\$22.00	\$22.65
LLH	\$/MWh	\$11.76	\$17.71	\$17.37
Demand	\$/kW-mo.	\$1.76	\$2.31	\$2.31
Load Variance	\$/MWh	\$0.80	\$0.80	\$0.80
DSI - IPTAC (A)				
HLH	\$/MWh	\$20.03	\$25.76	\$26.41
LLH	\$/MWh	\$15.52	\$21.47	\$21.13
Demand	\$/kW-mo.	\$1.76	\$2.31	\$2.31
DSI - IPTAC (B)				
HLH	\$/MWh	\$21.53	\$27.26	\$27.91
LLH	\$/MWh	\$17.02	\$22.98	\$22.63
Demand	\$/kW-mo.	\$1.76	\$2.31	\$2.31
Stepped PF rates				
HLH	\$/MWh	\$15.67	\$21.40	\$22.05
LLH	\$/MWh	\$11.16	\$17.11	\$16.77
Demand	\$/kW-mo.	\$1.76	\$2.31	\$2.31
Load Variance	\$/MWh	\$0.80	\$0.80	\$0.80

F. Revised Rates from LB CRAC Look Forward		Oct	Nov	Dec
Slice	\$/1% Slice	\$2,077,598	\$2,077,598	\$2,077,598
5 yr PF-02 and IP-02 RATE[NS]				
HLH	\$/MWh	\$23.79	\$32.17	\$33.12
LLH	\$/MWh	\$17.20	\$25.90	\$25.40
Demand	\$/kW-mo.	\$2.57	\$3.38	\$3.38
Load Variance	\$/MWh	\$1.17	\$1.17	\$1.17
DSI - IPTAC (A)				
HLH	\$/MWh	\$29.29	\$37.67	\$38.62
LLH	\$/MWh	\$22.69	\$31.39	\$30.90
Demand	\$/kW-mo.	\$2.57	\$3.38	\$3.38
DSI - IPTAC (B)				
HLH	\$/MWh	\$21.53	\$27.26	\$34.92
LLH	\$/MWh	\$17.02	\$22.98	\$26.17
Demand	\$/kW-mo.	\$1.76	\$2.31	\$3.16
Stepped PF rates				
HLH	\$/MWh	\$22.91	\$31.29	\$32.24
LLH	\$/MWh	\$16.32	\$25.02	\$24.52
Demand	\$/kW-mo.	\$2.57	\$3.38	\$3.38
Load Variance	\$/MWh	\$1.17	\$1.17	\$1.17

G. 120 Day Rule Mark-to-Market Prices		Oct	Nov	Dec
Price of Augmentation not Pre-Purchased (same prices used in look forward)				
HLH	\$/MWh	140.26	140.26	140.26
LLH		95.14	95.14	95.14

H. Variable Component of the Pre Purchase Costs		Oct	Nov	Dec
Determined in the Look Forward Analysis				
HLH	\$	1,954,794	2,300,355	2,175,531
LLH	\$	1,606,383	2,240,084	2,262,711

I. Melded PF Price from Look Forward with LB CRAC Applied		Oct	Nov	Dec
	\$/MWh	28.16		

Definitions

AAMTA	Augmentation Amount Actual
ACTUALLBCREVREQ	Actual LB CRAC Revenue Required
ACTUALLBCREVREQ[NS]	Actual LB CRAC Revenue Required [Non-Slice]
ACTUALLBCREVREQ[S]	Actual LB CRAC Revenue Required [Slice]
ADJUST[NS]	Adjustment to a Purchaser's Non-Slice Monthly Bill
ADJUST[S]	Adjustment to a Purchaser's Slice Monthly Bill
APP	Augmentation Pre-Purchase
BUYDOWN	Cost of Load Buydown
C&R[NS]	Conservation and Renewable Discount- Non-Slice
C&R[S]	Conservation and Renewable Discount- Slice
CUSTREV[NS]	Customer Revenue with LB CRAC – Non-Slice
CUSTREV[S]	Customer Revenue with LB CRAC - Slice
DIURNALACA	Actual Diurnal Augmentation Cost
HLH	Heavy Load Hours - 6 a.m. to 10 p.m., Monday through Saturday
LBCREV[NS]	LB CRAC Revenues [Non-Slice] Received by BPA
LBCREV[S]	LB CRAC Revenues [Slice] Received by BPA
LDD[NS]	Low Density Discount Non-Slice
LDD[S]	Low Density Discount Slice
LLH	Light Load Hours - 10 p.m. to 6 a.m. Monday through Saturday and all day Sunday.
LOAD[NS]	Non-Slice Load Subject to LB CRAC
LOAD[S]	Slice Load Subject to LB CRAC
MARRA	Monthly Augmentation Resale Revenues Actual
MSC	Monthly System Capability
NACA	Net Augmentation Cost Actual
NACDIFF	Net Augmentation Cost Difference
NSL[A]	Actual Non-Slice Load
OC	Option Costs
PRICE	Price For Forecasted Augmentation Amounts Not Pre-Purchased
RATE[NS]	Non-Slice Rates Without LB CRAC
RATE[S]	Slice Rate without LB CRAC
REVDIFF[NS]	Revenue Difference Non-Slice
REVDIFF[S]	Revenue Difference Slice
REVRATE[NS]	Adjusted Non-Slice Rates
REVRATE[S]	Adjusted Slice Rate
REVw/LBC[NS]	Actual Non-Slice Revenues
REVw/LBC[S]	Actual Slice Revenues
REVw/oLBC[NS]	Baseline Non-Slice Revenues
REVw/oLBC[S]	Baseline Slice Revenues
SALESMAYAUGA	Actual Sales of Existing Augmentation Quantity
SALESNEWAUGA	Sales of New Augmentation Quantity Actual
TAUGCA	Total Augmentation Cost Actual
TARRA	Total Augmentation Resale Revenue Actual
TCAPPA	Total Cost of Augmentation Pre-Purchases Actual Non-Slice
TREVw/LBC[NS]	Total Revenues for Non-Slice With LB CRAC
TREVw/LBC[S]	Total Revenues for Slice with LB CRAC
TTREVw/LBC	Total Revenues with LB CRAC
TREVw/oLBC[NS]	Total Non-Slice Revenues Without LB CRAC
TREVw/oLBC[S]	Total Slice Revenues without LB CRAC
TTREVw/oLBC	Total Revenues without LB CRAC
TLA	Transmission Loss Adjustment

Table 4 - Monthly Results

120-Day Rule Prices		Oct	Nov	Dec	
	HLH Price	140.26	140.26	140.26	
	LLH Price	95.14	95.14	95.14	
0-Day Rule Prices					
	HLH Price	24.42	35.55	30.08	
	LLH Price	19.85	28.51	25.16	
System Load		5,616	6,219	6,904	6,246
System Capability		4,976	5,464	5,886	5,442
Gross Aug Need		640	755	1,018	804
Net Aug Need (w/losses)		652	769	1,036	819
120-Day Rule					
<i>Power Buybacks</i>					
	HLH	169	172	160	167
	LLH	252	276	261	263
<i>Market Pre-purchase</i>					
	HLH	1,283	1,236	1,238	1,252
	LLH	1,257	1,327	1,325	1,303
Total					
	HLH	1,452	1,408	1,397	
	LLH	1,509	1,603	1,586	
0-Day Rule					
<i>Power Buybacks</i>					
	HLH	222	290	278	264
	LLH	307	397	374	359
<i>Market Pre-purchase</i>					
	HLH	1,283	1,236	1,238	1,252
	LLH	1,257	1,327	1,325	1,303
Total					
	HLH	1,505	1,526	1,515	
	LLH	1,564	1,725	1,698	
Net Short Position					
	HLH	0	0	0	0
	LLH	0	0	0	0
120-Day Rule Diurnal Augmentation Costs in LB CRAC					
HLH		\$13,605,218	\$14,740,851	\$21,138,348	
LLH		\$9,193,112	\$10,127,676	\$15,652,539	
Total		\$22,798,330	\$24,868,527	\$36,790,888	
120 Day Total Gross Aug. Costs		\$183,847,756			
0-Day Rule Diurnal Augmentation Costs in LB CRAC					
HLH		\$13,502,503	\$14,539,875	\$20,766,848	
LLH		\$9,142,387	\$10,039,787	\$15,471,346	
Total		\$22,644,890	\$24,579,662	\$36,238,194	
0 Day Total Gross Aug. Costs		\$182,852,757			
<i>(note: total gross aug. costs = sum of diurnal costs + load reduction costs - credits for Chase)</i>					
Revenues from the resale of augmentation amounts					
HLH		\$7,908,932	\$8,984,510	\$12,114,213	
LLH		\$5,730,314	\$6,565,603	\$9,551,591	
Total Resale Revenue		\$50,855,162			
120-Day Net Augmentation Cost Actual		\$132,992,593			
0-Day Net Augmentation Cost Actual		\$131,997,594			
NACDIFF (0 Day NACA - 120 Day NACA)		-\$994,999			
Revenue calculated using actual loads and May 2000 rates, minus (LDD under May 2000 rates)					
Rev w/o LBC(S)		\$31,304,764	\$31,304,764	\$31,304,764	
Rev w/o LBC(NS)		\$49,676,171	\$74,719,649	\$85,951,493	
Total Revenue BPA <i>would have</i> Received		\$304,261,605			
Revenue using <u>actual</u> loads & LB CRAC rates, minus (LDD under LB CRAC rates + C&R)					
Rev w/ LBC(S)		\$45,997,108	\$45,997,108	\$45,997,108	
Rev w/ LBC(NS)		\$73,489,877	\$110,035,043	\$126,410,046	
Total Revenue BPA <i>actually did</i> Receive		\$447,926,289			

Table 5 - Selected Quarterly and Total Results - Look Back

Table 5 - Average Net Augmentation Need and Net Short Position		
		<u>Oct</u>
		<u>to</u>
		<u>Dec</u>
1 - Net System Load	aMW	6,246
2 - System Capability	aMW	5,442
3 - Net Augmentation Need (w/losses)	aMW	819
4 - Net Short Position	aMW	0
HLH	aMW	0
LLH	aMW	0

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

1 - For the true up, net system load is the actual load.

2 - System Capability monthly amounts were established in the rate case.

3 - Net Augmentation Need reflects net system load minus system capability plus 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.

Quarterly Inputs - Tables 6-8

Table 6 - Quarterly Average Loads		units	Oct- Dec
Slice Load		aMW	1,600
PF Load Served	HLH	aMW	4,233
	LLH	aMW	3,735
RL Load Served	HLH	aMW	350
	LLH	aMW	350
IP Load Served	HLH	aMW	64
	LLH	aMW	63

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

Table 7 - Quarterly LDD & C&R Dollars		units	Oct-Dec
LDD Slice Costs		\$	436,838
LDD Non-Slice Costs		\$	1,164,401
C&R Slice Costs		\$	583,841
C&R Non-Slice Costs		\$	2,236,018

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

Table 8 - Average Pre-Purchase Quantities to Meet Augmentation Need			Oct-Dec
1 - Augmentation Market Purchases - 120 Day Rule			
	HLH	aMW	1,252
	LLH	aMW	1,303
1 - Augmentation Market Purchases - 0 Day Rule			
	HLH	aMW	1,252
	LLH	aMW	1,303
2 - Augmentation Power Buybacks - 120 Day Rule			
	HLH	aMW	167
	LLH	aMW	263
2 - Augmentation Power Buybacks - 0 Day Rule			
	HLH	aMW	264
	LLH	aMW	359

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

1 - Includes only market purchases.

2 - Includes rate mitigation with Block/Slice customers and IOU conversions from power to cash.

Loads

NOTE: The values in this table are all input from external sources and the links to the external sources are overridden.

A. Slice Loads - contract amount

	Units	Oct	Nov	Dec
Slice Load - West	aMW	1116	1116	1116
Slice Load - East	aMW	484	484	484

NOTE: all the demand and load variance sales for both 5-yr flat and stepped rates are contained in the 5-yr flat input cells.

B. 5-yr PF Loads

Load -West (metered for load following plus contract amount for block)				
HLH	MWh	928,237	1,000,252	1,140,774
LLH	MWh	602,624	649,829	794,124
Demand	MW-mo.	3,579	3,994	3,986
Load Variance	MWh	1,227,463	1,240,310	1,367,290
Load -East				
HLH	MWh	221,214	237,643	280,149
LLH	MWh	129,548	147,064	188,649
Demand	MW-mo.	849	883	981
Load Variance	MWh	492,354	496,955	616,799

C. Stepped PF Loads

		Oct	Nov	Dec
Loads - West (metered for load following plus contract amount for block)				
HLH	MWh	381,192	438,475	489,748
LLH	MWh	243,409	283,625	324,016
Demand	MW-mo.	0	0	0
Load Variance	MWh	0	0	0
Loads - East				
HLH	MWh	78,371	66,236	87,678
LLH	MWh	54,598	46,873	65,142
Demand	MW-mo			
Load Variance	MWh			

D. DSI Loads

HLH	MWh	28,266	26,624	26,624
LLH	MWh	20,167	19,152	20,664
Demand	MW-mo.	68	64	64
DSI Load Reduction (paid for and price induced)				
Demand	MW-mo.	1,418	1,422	1,422

E. IOU Loads

		Oct	Nov	Dec
IOU loads				
HLH	MWh	151,200	145,600	145,600
LLH	MWh	109,550	106,400	114,800
Demand	MW-mo.	350	350	350

F. Net System Load for Monthly Augmentation Calculation (this amount is input and is the actual net system load)

Rate Case Loads	aMW	5,616	6,219	6,904
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G. Chase Product

		Oct	Nov	Dec
Sales	MWh	93	92	95

H. Diurnal Hours

		Oct	Nov	Dec
HLH		432	416	416
LLH		313	304	328
total		745	720	744

Augmentation Pre-Purchases - 120-Day Rule

1. Includes market purchases, power purchases from publics, power buybacks through rate mitigation from Block/Slice customers, and IOU conversions are included in this spreadsheet.

2. Data are from external sources and the links have been overridden.

	Oct	Nov	Dec
Diurnal Hours			
HLH	432	416	416
LLH	313	304	328
total	745	720	744

Section I - Purchases with Pricing that is NOT tied to LB CRAC

a. Market Purchases

Quantity

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	143,856	134,000	134,800
TOTAL HLH Completed: PRE 8/1/00	MWh	410,400	380,000	380,000
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	96,091	99,520	107,672
TOTAL LLH Completed: PRE 8/1/00	MWh	297,350	304,000	326,800

Cost

PURCHASE TOTAL HLH Completed: Pre 8/1/00	\$	11,490,120	10,639,000	10,639,000
PURCHASE TOTAL LLH Completed: Pre 8/1/00	\$	8,325,018	8,511,200	9,149,540
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	15,239,184	12,463,187	14,191,331
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	9,874,843	8,789,980	10,926,248

b. Purchases from Publics, IOUs, and DSIs, including IOU conversions

(note: the power for money IOU conversions may go in here as long as they meet the 120 day rule)

Quantity

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	4,320	4,000	4,000
TOTAL HLH Completed: PRE 8/1/00	MWh	-	-	-

PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	4,758	4,864	5,229
TOTAL LLH Completed: PRE 8/1/00	MWh	-	-	-

Cost

PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	129,600	120,000	120,000
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	103,845	106,167	114,130

Section II - Rate Mitigation Power Buybacks with Pricing Tied to LB CRAC

a. 5-yr PF-02 (mitigation deals tied to Block only)

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	47,520	48,000	42,800
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	58,844	63,360	63,640
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	1,209,600	1,200,000	1,096,000
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	1,169,368	1,259,520	1,264,544

b. PF-02 (mitigation deals tied to Slice only)

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	21,168	19,600	19,600
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	15,337	15,680	16,856
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	297,760	275,704	275,704
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	215,738	220,563	237,105

c. RL-02

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	-	-	-
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	-	-	-

d. Stepped PF Rates

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	-	-	-
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	-	-	-

e. IP-02

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	-	-	-
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	-	-	-

Augmentation Pre-Purchases - 0-Day Rule

1. This spreadsheet will include all the deals included in the 120-day rule worksheet plus deals in these categories that are made before the month but after the 120-day cutoff for that month that did not meet the 120-day cutoff.

2. Data are from external sources and the links have been overridden.

	Oct	Nov	Dec
Diurnal Hours			
HLH	432	416	416
LLH	313	304	328
total	745	720	744

Section I - Purchases with Pricing that is NOT tied to LB CRAC

a. Market Purchases

Quantity

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	143,856	134,000	134,800
TOTAL HLH Completed: PRE 8/1/00	MWh	410,400	380,000	380,000
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	96,091	99,520	107,672
TOTAL LLH Completed: PRE 8/1/00	MWh	297,350	304,000	326,800

Cost

PURCHASE TOTAL HLH Completed: Pre 8/1/00	\$	11,490,120	10,639,000	10,639,000
PURCHASE TOTAL LLH Completed: Pre 8/1/00	\$	8,325,018	8,511,200	9,149,540
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	15,239,184	12,463,187	14,191,331
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	9,874,843	8,789,980	10,926,248

b. Purchases from Publics, IOUs, and DSIs plus IOU conversions.

Quantity

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	27,273	53,245	53,245
TOTAL HLH Completed: PRE 8/1/00	MWh	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	21,955	41,759	42,124
TOTAL LLH Completed: PRE 8/1/00	MWh	-	-	-

Cost

PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	1,001,827	1,991,323	1,991,323
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	757,318	1,508,164	1,516,127

Section II - Rate Mitigation Power Buybacks with Pricing Tied to LB CRAC

a. 5-yr PF-02 (mitigation deals tied to Block only)

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	47,520	48,000	42,800
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	58,844	63,360	63,640
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	1,209,600	1,200,000	1,096,000
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	1,169,368	1,259,520	1,264,544

b. PF-02 (mitigation deals tied to Slice only)

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	21,168	19,600	19,600
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	15,337	15,680	16,856
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	297,760	275,704	275,704
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	215,738	220,563	237,105

c. RL-02

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	-	-	-
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	-	-	-

d. Stepped PF Rates

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	-	-	-
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	-	-	-

e. IP-02

PURCHASE TOTAL HLH Completed: POST 8/1/00	MWh	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	MWh	-	-	-
Premium Component				
PURCHASE TOTAL HLH Completed: POST 8/1/00	\$	-	-	-
PURCHASE TOTAL LLH Completed: POST 8/1/00	\$	-	-	-

Load Reduction, C&D, LDD Cost Inputs and Rates

Inputs	Variable Name	Units	Oct	Nov	Dec
			aMW	4,976	5,464
System Capability					
LDD Costs Under the Revised Rates					
Low Density Discount - East	LDD(S)	\$	0	0	0
	LDD(NS)	\$	305,449	383,477	446,575
Low Density Discount - West	LDD(S)	\$	436,838	436,838	436,838
	LDD(NS)	\$	549,513	817,139	991,051
Low Density Discount - Total	LDD(S)	\$	436,838	436,838	436,838
	LDD(NS)	\$	854,962	1,200,616	1,437,626
LDD costs under May 2000 rates are estimated using the above value and adjusting it using the appropriate rate adjustment from the look forward analysis.					
Low Density Discount - East	LDD(S)	\$	0	0	0
	LDD(NS)	\$	164,255	206,215	240,146
Low Density Discount - West	LDD(S)	\$	234,281	234,281	234,281
	LDD(NS)	\$	295,501	439,416	532,938
Low Density Discount - Total	LDD(S)	\$	234,281	234,281	234,281
	LDD(NS)	\$	459,756	645,631	773,083
Conservation and Renewables Discount - East	C&R(NS)	\$	256,770	257,092	263,911
	C&R(S)	\$	106,300	106,300	106,300
Conservation and Renewables Discount - West	C&R(NS)	\$	1,165,201	1,165,201	1,158,221
	C&R(S)	\$	477,541	477,541	477,541
Conservation and Renewables Discount - DSI	C&R(NS)	\$	121,063	118,080	122,016
Conservation and Renewables Discount - IOU	C&R(NS)	\$	693,500	693,500	693,500
Conservation and Renewables Discount - Total	C&R(NS)	\$	2,236,534	2,233,873	2,237,648
	C&R(S)	\$	583,841	583,841	583,841
Total Cost of Load Reduction for deals done @ a fixed price - East Hub					
	HLH	\$	135,337	151,917	217,988
	LLH	\$	101,655	112,899	163,537
Total premium portion of Load Reduction Costs for deals done @ a price tied to LB CRAC - East Hub					
	HLH	\$			
	LLH	\$			
Total Cost of Load Reduction for deals done @ fixed price - West Hub					
	HLH	\$	574,519	938,256	757,859
	LLH	\$	422,068	672,465	588,428
Total premium portion of Load Reduction Costs for deals done @ a price tied to LB CRAC - West Hub					
	HLH	\$			
	LLH	\$			
Total Cost of Load Reduction done @ fixed prices - DSI					
	HLH	\$	8,621,735	8,295,518	8,295,518
	LLH	\$	6,246,766	6,074,041	6,553,026
Total Cost of Load Reduction done @ fixed prices - IOU					
	HLH	\$	9,760,985	9,716,593	9,411,743
	LLH	\$	7,072,195	7,100,587	7,420,797
Option Costs	OC	\$			
	HLH	\$			
	LLH	\$			

Rates without LB CRAC Applied - DO NOT INPUT HERE - see Analysis Parameters Worksheet

Slice Rate without LB CRAC	RATE(S)	\$/1% Slice	\$1,419,430	\$1,419,430	\$1,419,430
5 yr PF-02 and IP-02					
	RATE(NS)				
HLH	\$/MWh		\$16.27	\$22.00	\$22.65
LLH	\$/MWh		\$11.76	\$17.71	\$17.37
Demand	\$/kW-mo.		\$1.76	\$2.31	\$2.31
Load Variance	\$/MWh		\$0.80	\$0.80	\$0.80
DSI - IPTAC (A)					
HLH	\$/MWh		\$20.03	\$25.76	\$26.41
LLH	\$/MWh		\$15.52	\$21.47	\$21.13
Demand	\$/kW-mo.		\$1.76	\$2.31	\$2.31
DSI - IPTAC (B)					
HLH	\$/MWh		\$21.53	\$27.26	\$27.91
LLH	\$/MWh		\$17.02	\$22.98	\$22.63
Demand	\$/kW-mo.		\$1.76	\$2.31	\$2.31
Stepped PF rates					
HLH	\$/MWh		\$15.67	\$21.40	\$22.05
LLH	\$/MWh		\$11.16	\$17.11	\$16.77
Demand	\$/kW-mo.		\$1.76	\$2.31	\$2.31
Load Variance	\$/MWh		\$0.80	\$0.80	\$0.80
Price of Augmentation not Pre-Purchased - 120 Day Rule					
HLH	\$/MWh		140.26	140.26	140.26
LLH	\$/MWh		95.14	95.14	95.14
Price of Augmentation not Pre-Purchased - 0 Day Rule					
HLH	\$/MWh		24.42	35.55	30.08
LLH	\$/MWh		19.85	28.51	25.16

Rates with LB CRAC Applied Do NOT INPUT HERE - see Analysis Parameters Worksheet

Slice Rate without LB CRAC	RATE(S)	\$/1% Slice	\$2,077,598	\$2,077,598	\$2,077,598
5 yr PF-02 and IP-02					
	RATE(NS)				
HLH	\$/MWh		\$23.79	\$32.17	\$33.12
LLH	\$/MWh		\$17.20	\$25.90	\$25.40
Demand	\$/kW-mo.		\$2.57	\$3.38	\$3.38
Load Variance	\$/MWh		\$1.17	\$1.17	\$1.17
DSI - IPTAC (A)					
HLH	\$/MWh		\$29.29	\$37.67	\$38.62
LLH	\$/MWh		\$22.69	\$31.39	\$30.90
Demand	\$/kW-mo.		\$2.57	\$3.38	\$3.38
DSI - IPTAC (B)					
HLH	\$/MWh		\$21.53	\$27.26	\$34.92
LLH	\$/MWh		\$17.02	\$22.98	\$26.17
Demand	\$/kW-mo.		\$1.76	\$2.31	\$3.16
Stepped PF rates					
HLH	\$/MWh		\$22.91	\$31.29	\$32.24
LLH	\$/MWh		\$16.32	\$25.02	\$24.52
Demand	\$/kW-mo.		\$2.57	\$3.38	\$3.38
Load Variance	\$/MWh		\$1.17	\$1.17	\$1.17
Price of Augmentation not Pre-Purchased - 0 Day Rule					
HLH	\$/MWh		24.42	35.55	30.08
LLH	\$/MWh		19.85	28.51	25.16

Transmission Loss Adjustment	TLA	%	1.80%
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Diurnal Hours

	Oct	Nov	Dec
HLH	432	416	416
LLH	313	304	328
Total	745	720	744

Values Calculated within the Model

NOTE: All the values in this table are calculated internally

DO NOT INPUT VALUES IN THIS WORKSHEET

A. Loads (Calculated from Load Inputs worksheet)

		Oct	Nov	Dec	
5 yr PF-02 Load					
Slice Load	LOAD(S)	aMW	1,600	1,600	1,600
HLH	MWh	1,149,452	1,237,895	1,420,923	
LLH	MWh	732,172	796,893	982,773	
Demand	MW-mo.	4,429	4,877	4,967	
Load Variance	mWh	1,719,818	1,737,266	1,984,089	
DSI Load					
HLH	MWh	28,266	26,624	26,624	
LLH	MWh	20,167	19,152	20,664	
Demand	MW-mo.	68	64	64	
IOU load					
HLH	MWh	151,200	145,600	145,600	
LLH	MWh	109,550	106,400	114,800	
Demand	MW-mo.	350	350	350	
Stepped PF-02 (note: demand & load variance numbers included in loads @ 5yr flat PF rates above)					
HLH	MWh	459,563	504,712	577,427	
LLH	MWh	298,007	330,498	389,158	
Demand	MW-mo.	0	0	0	
Load Variance	mWh	0	0	0	

B. Summary Table of Pre-Purchase Quantities and Costs - 120 Day Rule (from 120-Day Rule Pre-Purchases Worksheet)

Quantity Augmentation Pre-Purchased at Fixed Prices (mkt. purchases + buybacks from publics not tied to LB CRAC)				
HLH	aMW	1,293	1,245	1,247
LLH	aMW	1,272	1,343	1,341
Quantity Augmentation Pre-Purchased Tied to LB CRAC				
HLH	aMW	159	163	150
LLH	aMW	237	260	245
Quantity Augmentation Pre-Purchased Total				
HLH	aMW	1,452	1,408	1,397
LLH	aMW	1,509	1,603	1,586
Fixed Cost of Augment pre-purchases not tied to LB CRAC				
HLH	\$	26,858,904	23,222,187	24,950,331
LLH	\$	18,303,705	17,407,347	20,189,918
Premium Component of Pre-Purchases tied to LB CRAC				
HLH	\$	1,507,360	1,475,704	1,371,704
LLH	\$	1,385,106	1,480,083	1,501,649
Total Fixed Cost of Augment Pre-Purchases				
HLH	\$	28,366,264	24,697,891	26,322,035
LLH	\$	19,688,811	18,887,431	21,691,567
Variable Component of Pre-Purchase Cost for deals tied to LB CRAC				
HLH	\$	1,954,794	2,300,355	2,175,531
LLH	\$	1,606,383	2,240,084	2,262,711
Total Cost of Augmentation Pre-Purchases				
HLH	\$	30,321,058	26,998,247	28,497,566
LLH	\$	21,295,194	21,127,515	23,954,278

C. Summary Table of Pre-Purchase Quantities and Costs - 0 Day Rule (from 0-Day Rule Pre-Purchases Worksheet)

Augmentation Pre-Purchased at Fixed Prices (mkt. purchases + buybacks from publics not tied to LB CRAC)				
HLH	aMW	1,346	1,364	1,365
LLH	aMW	1,327	1,465	1,453
Augmentation Pre-Purchases tied to LB CRAC				
HLH	aMW	159	163	150
LLH	aMW	237	260	245
Augmentation Pre-Purchased Total				
HLH	aMW	1,505	1,526	1,515
LLH	aMW	1,564	1,725	1,698
Fixed Cost of Augment pre-purchases not tied to LB CRAC				
HLH	\$	27,731,131	25,093,510	26,821,654
LLH	\$	18,957,178	18,809,344	21,591,915
Premium Component of Pre-Purchases tied to LB CRAC				
HLH	\$	1,507,360	1,475,704	1,371,704
LLH	\$	1,385,106	1,480,083	1,501,649
Total Fixed Cost of Augment Pre-Purchases				
HLH	\$	29,238,491	26,569,214	28,193,358
LLH	\$	20,342,284	20,289,428	23,093,564
Variable Component of Pre-Purchase Cost for deals tied to LB CRAC				
HLH	\$	1,954,794	2,300,355	2,175,531
LLH	\$	1,606,383	2,240,084	2,262,711
Total Cost of Augment Pre-Purchases				
HLH	\$	31,193,285	28,869,570	30,368,889
LLH	\$	21,948,667	22,529,512	25,356,275

D. Chase Product

Payments to BPA	\$	\$6,324	\$6,256	\$6,460
Credit in LB CRAC	\$	\$3,705	\$6,256	\$6,460

E. Summary Table of Load Reduction Costs (from Fixed Cost & Rates worksheet)

Total Cost of Load Reduction for deals not tied to LB CRAC				
(all PF, RL, aHLH)	\$	19,092,576	19,102,284	18,683,108
LLH	\$	13,842,684	13,959,992	14,725,788

120-Day Rule Calculations

Section	Steps	Variable Name	Equation
F(1)(d)(1)	Step 2	AAMTA	=(NSL(A)-MSC)*(1+TLA)
F(1)(d)(2)	If APP is greater than AAMTA	DIURNALACA	=(AAMTA/APP)*(TCAPPA)
	If APP is equal to AAMTA	DIURNALACA	=TCAPPA
	If APP is less than AAMTA	DIURNALACA	=(TCAPPA)+((AAMTA-APP)*PRICE*Diurnal Hours)
F(1)(d)(3)		TAUGCA	=Sum of the six monthly(DIURNALACA+BUYDOWN+OC)
		SALESMAUYAUGA	=1745 - ((Amount of DSI load reduction/1486)*450)
		SALESNEWAUGA	=AAMTA - SALESMAUYAUG
F(1)(d)(4)	Step 1	MARRA	=((SALESMAUYAUGA*\$28.10)+(SALESNEWAUGA*\$19.26))*Hours in the Month
	Step 2	TARRA	=Sum of MARRA for each month in a six month period
F(1)(d)(5)		NACA	=TAUGCA-TARRA
F(1)(d)(7)	The following equations calculate revenues BPA has available to pay augmentation costs using the rates with LB CRAC and actual loads		
	Month of Slice Revenue	REVw/LBC(S)	=Slice load in month X * Revised Slice rate in month X/7070*100-LDD in month X -C&R in month)
	Month of non-Slice Revenue	REVw/LBC(NS)	=load in month X * Revised rate applied to that load in month X - LDD in month X - C&R in month)
	Slice Revenue	TREVw/LBC(S)	=ΣREVw/LBC(S) for each month in a six-month period
	Non-Slice Revenue	TREVw/LBC(NS)	=ΣREVw/LBC(NS) for each month in a six-month period
	total CRAC'able Revenue	TTREVw/LBC	=TREVw/LBC(S)+TREVw/LBC(NS)

Results	Oct	Nov	Dec
AAMTA	652	769	1,036
HLH			
Diurnal Hours	432	416	416
DIURNALACA	13,605,218	14,740,851	21,138,348
net short cost	0	0	0
net short+pre purchase costs	30,321,058	26,998,247	28,497,566
LLH			
Diurnal Hours	313	304	328
DIURNALACA	9,193,112	10,127,676	15,652,539
net short cost	0	0	0
net short+pre purchase costs	21,295,194	21,127,515	23,954,278
TAUGCA	183,847,756		
SALESMAUYAUGA (HLH)	652	769	1,036
SALESMAUYAUGA (LLH)	652	769	1,036
SALESNEWAUGA (HLH)	0	0	0
SALESNEWAUGA (LLH)	0	0	0
MARRA (HLH)	7,908,932	8,984,510	12,114,213
MARRA(LLH)	5,730,314	6,565,603	9,551,591
TARRA	50,855,162		
NACA	132,992,593		
REVw/LBC(S)	45,997,108	45,997,108	45,997,108
REVw/LBC(NS)	73,489,877	110,035,043	126,410,046
TREVw/LBC(S)	137,991,323		
TREVw/LBC(NS)	309,934,966		
TTREVw/LBC	447,926,289		

0-Day Rule Calculations

Results	Oct	Nov	Dec
AAMTA	652	769	1,036
HLH			
Diurnal Hours	432	416	416
DIURNALACA	13,502,503	14,539,875	20,766,848
<i>net short costs</i>	0	0	0
<i>net short+pre purchase costs</i>	31,193,285	28,869,570	30,368,889
LLH			
Diurnal Hours	313	304	328
DIURNALACA	9,142,387	10,039,787	15,471,346
net short costs	0	0	0
<i>net short+pre purchase costs</i>	21,948,667	22,529,512	25,356,275
TAUGCA	182,852,757		
SALESMAUGA (HLH)	652	769	1,036
SALESMAUGA (LLH)	652	769	1,036
SALESNEWAUGA (HLH)	0	0	0
SALESNEWAUGA (LLH)	0	0	0
MARRA (HLH)	7,908,932	8,984,510	12,114,213
MARRA (LLH)	5,730,314	6,565,603	9,551,591
TARRA	50,855,162		
NACA	131,997,594		

Lookback Calculations

F(1)(d)(6)	These equations calculate revenue BPA would have received using actual loads at the May 2000 rates - LDD - C&R		
	Slice Monthly Revenue	$REVw/oLBC(S)$	$=(May\ 2000\ RATE(S)*LOAD(S))-LDD(S)-C\&R(S)$
	Non-Slice Monthly Revenue	$REVw/oLBC(NS)$	$=(May\ 2000\ RATE(NS)*LOAD(NS))-LDD(NS)-C\&R(NS)$
F(1)(d)(7)	Slice Total revenue	$TREVw/oLBC(S)$	$=\sum REVw/oLBC(S)$ for each month in a six-month period
	Non-Slice Total Revenue	$TREVw/oLBC(NS)$	$=\sum REVw/oLBC(NS)$ for each month in a six-month period
	Grand Total Revenue	$TTREVw/oLBC$	$=TREVw/oLBC(S)+TREVw/oLBC(NS)$

Step One - Calculate the Revenue Collected form the LB CRAC

$$LBCREV(S) = TREVw/LBC(S) - TREVw/oLBC(S)$$

$$LBCREV(NS) = TREVw/LBC(NS) - TREVw/oLBC(NS)$$

Step Two - Calculating the Actual LB CRAC Revenue Requirement under the 120-Day Rule

$$ACTUALLBCREVREQ(S) = [NACA * (TREVw/LBC(S) / TTREVw/LBC)]$$

$$ACTUALLBCREVREQ(NS) = [NACA * (TREVw/LBC(NS) / TTREVw/LBC)]$$

Step Three - Calculation of LB CRAC Revenue Over or Under Collection under the 120-Day Rule

$$REVDIFF(S) = LBCREV(S) - ACTUALLBCREVREQ(S)$$

$$REVDIFF(NS) = LBCREV(NS) - ACTUALLBCREVREQ(NS)$$

Step Four - Calculating the Incremental Cost for the 0-Day Rule

$$NACDIFF = NACA(0) - NACA(120)$$

Step Five - Determining Customer Bill Adjustments

$$ADJUST(S) = REVDIFF(S) / (TREVw/LBC(S) * Months\ in\ Analysis)$$

$$ADJUST(NS) = REVDIFF(NS) / (TREVw/LBC(NS) * Months\ in\ Analysis)$$

Note: The Step Five equations calculate a revised form of the equations in the GRSPs that are then separately applied to Custrev.

	Oct	Nov	Dec
REVw/oLBC(S)	31,304,764	31,304,764	31,304,764
REVw/oLBC(NS)	49,676,171	74,719,649	85,951,493
TREVw/oLBC(S)	93,914,292		
TREVw/oLBC(NS)	210,347,313		
TTREVw/oLBC	304,261,605		

Step One	
LBCREV(S)	44,077,031
LBCREV(NS)	99,587,653
Step Two	
ACTUALLBCREVREQ(S)	40,970,634
ACTUALLBCREVREQ(NS)	92,021,960
Step Three	
REVDIFF(S)	-3,106,397
REVDIFF(NS)	-7,565,693
Step Four	
NACDIFF	-994,999
Step Five	
Adjustment Factor(S)	-0.007503847
Adjustment Factor(NS)	-0.009206977