

# 2002 Supplemental Power Rate Proposal Final Study Documentation

WP-02-FS-BPA-10

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# 2002 SUPPLEMENTAL POWER RATE PROPOSAL FINAL STUDY DOCUMENTATION

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## 2002 SUPPLEMENTAL POWER RATE PROPOSAL FINAL STUDY DOCUMENTATION

#### INTRODUCTION

The chapters in the Final Study Documentation correspond with the chapters in the 2002 Supplemental Power Rate Proposal Final Study (WP-02-FS-BPA-09). Only Chapter 5 (**Risk Mitigation**) has documentation.

The 2002 Supplemental Power Rate Proposal Final Study Documentation (WP-02-FS-BPA-10) is bound in the same volume as the 2002 Supplemental Power Rate Proposal Final Study (WP-02-FS-BPA-09). This is the same arrangement that was used in the initial study and documentation for the 2002 Supplemental Power Rate Proposal from. February 2001 (WP-02-E-BPA-67 and WP-02-E-BPA-69).

1. OVERVIEW (NO DOCUMENTATION)

**2.** RISK ANALYSIS (NO DOCUMENTATION)

**3.** NO-SLICE RISK ANALYSIS (NO DOCUMENTATION)

**4.** SLICE AUGMENTATION COST ANALYSIS (NO DOCUMENTATION)

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**CHAPTER FIVE: RISK MITIGATION** 

1. INTRODUCTION

This chapter of the documentation describes changes to the risk mitigation tools and modeling

that are incorporated into the Supplemental Proposal. Since the publication of the May 2000

Final Power Rate Proposal (May Proposal), significant changes in West Coast power markets

and unanticipated system augmentation have required Bonneville Power Administration (BPA)

to reassess its risk profile and develop an even more robust mitigation package. In August 2000,

BPA reviewed events during the summer months which indicated that power markets on the

West Coast had become more volatile than previously anticipated. BPA concluded that, in light

of the unprecedented price spikes during the summer months, BPA's cost-based rates for

Fiscal Year (FY) 2002–2006 would be far more attractive to prospective customers than market

alternatives.

As a result, preference customers could be expected to purchase significantly more power at

much higher prices than originally anticipated. During the initial phase of the rate case, BPA's

load forecast and forecast of generation resources revealed a projected shortfall in generation of

1,745 average megawatts (aMW). BPA now expects even higher loads that will increase the

generation shortfall by an additional 1,560 aMW. Moreover, the difficulty of forecasting the

expense of serving the increased load obligations is magnified by the extraordinary volatility in

the market.

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The combination of an unanticipated increase in loads with higher and more uncertain market prices greatly diminishes the probability that the rates proposed in the initial phase of the rate case will fully recover generation function costs. Treasury Payment Probability (TPP) has decreased to an unacceptable level.

In the May Proposal, BPA updated and expanded its risk analysis methodology to encompass a wider array of risks than had been addressed in prior rate cases. These methodological enhancements are described in detail in the 2002 Final Power Rate Proposal Revenue Requirement Study Documentation, Volume 1, WP-02-FS-BPA-02A, at 264-285.

In December 2000, BPA released the Amended Proposal to the 2002 Power Rate Case (Amended Proposal). The Amended Proposal addressed the additional risks that had materialized following the release of the May Proposal, updating forecasts of market prices and expected reserves and introducing a more robust, three-component Cost Recovery Adjustment Clause (CRAC) to mitigate risks of an increasingly volatile market. Since December, market prices have continued to rise to levels well beyond those forecast in the fall of 2000. At the same time, the Pacific Northwest has experienced a drought that has left reservoirs at levels well below average. This Supplemental Proposal addresses these increased risks, adopting the same general approach as the Amended Proposal (i.e. a three-component CRAC) but modifying some of the specific rate-making provisions. In order to accomplish this, several modifications have been made to the structure of the ToolKit model as well as to the risk mitigation methodology. These modifications are detailed in the text that follows.

#### 2. TREASURY PAYMENT PROBABILITY

In the face of operating and non-operating risks, BPA seeks to maintain a high probability of recovering all costs on schedule. Payments to Treasury rank lowest on BPA's priority of

payments, and therefore paying Treasury on time implies having paid all other creditors on time. For this reason, TPP is the key measure of the agency's ability to recover its costs on time and in full.

This Supplemental Proposal, like the May and Amended Proposals, is consistent with Fish and Wildlife Funding Principle Nos. 3 and 4 concerning with BPA's TPP. Principle No. 3 states:

"Bonneville will demonstrate a high probability of Treasury payment in full and on time over the five-year period.

- A 100 percent probability of Treasury payment is not achievable, but BPA's new rates must be designed to maintain or improve TPP, even in view of the range of fish costs.
- BPA will demonstrate a probability of Treasury payment in full and on time over the five-year rate period at least equal to the 80 percent level established in the last rate case and will seek to achieve an 88 percent level." *See* the Principles, Volume 1, Chapter 13 of Revenue Requirement Study Documentation, May Proposal, WP-02-FS-BPA-02A.

In the May Proposal, BPA designed and proposed risk mitigation tools to achieve an 88 percent TPP for the generation function. While 88 percent continues to be BPA's goal, the current modeling of alternative Load-Based (LB) CRAC outcomes resulted in TPP values falling between 81.6 percent to 88.3 percent, which still meet the criteria called for in the Principles. In addition to the Safety-Net (SN) CRAC described later in this chapter, BPA intends to pursue additional, non-ratemaking actions that could increase the likelihood of making Treasury payments on time during each of the five years.

Principle No. 4 states: "Given the range of potential fish and wildlife costs, BPA will design rates and contracts which will position BPA to achieve similarly high Treasury payment probability for the post-2006 period by building financial reserve levels and through other mechanisms." Consistent with this Principle, the expected value of reserve levels at the end of FY 2006 was \$1.2 billion in the May Proposal, without modeling Dividend Distribution Clause (DDC) distributions. In this Supplemental Proposal, a number of ToolKit runs were performed to assess the possible impact of LB CRAC given market price and load reduction uncertainties. In the six runs performed for the analysis, the expected value of FY 2006 ending reserves varied from \$1,003 to \$1,147 million.

#### 3. RISK MITIGATION TOOLS

Using the ToolKit model, analysts can assess the impacts of various risk mitigation tools on TPP. In addition to those used in the development of the May Proposal, two new tools, the LB CRAC and the SN CRAC, were added in the Amended Proposal to address the higher level of risk due to system augmentation and market volatility. This Supplemental Proposal contains updates and revisions to some of these tools. ToolKit allows users to evaluate the effects of each of the following tools on TPP (described in detail in WP-02-FS-BPA-02A, at 266-267):

- FY 2002 Start of Year Financial Reserves, consisting of cash in the Bonneville Fund and
  any deferred borrowing balance functionalized to generation. The Final Supplemental
  Proposal includes a forecast from BPA's Second Quarter Review for FY 2001.
- 4(h)(10)(C) credits for fish and wildlife expenditures made by BPA equal to the fraction of projects' costs allocated to purposes other than power. These credits were dealt with in Risk Analysis Model (RiskMod), where they have been updated since the May Proposal. See WP-02-E-BPA-71 for a description of the changes to RiskMod.

- Fish Cost Contingency Fund (FCCF credits), comprised of 4(h)(10)(C) credits that BPA earned since enactment of the Northwest Power Act in 1980 and prior to 1995, when BPA began claiming these credits annually. These credits are dealt with in RiskMod. The only change in these credits is a projection that \$168 million will be used in FY 2001, leaving a starting 2002 balance of \$158 million. The actual starting 2002 balance could be higher or lower than the current estimate of \$158 million by \$50 million or more.
- Planned Net Revenues for Risk (PNRR), a component of the revenue requirement that is added to expenses to increase expected cash flows for risk mitigation purposes. Because the Revenue Requirement used for the Supplemental Proposal has not changed since May 2000, both PNRR and other internally generated cash flows for risk remain unchanged since the May Proposal. Since BPA is not changing the Revenue Requirement, PNRR is not changing.
- posted power prices if certain conditions occur. Although the May Proposal contained a single CRAC mechanism to deal with fluctuations in BPA's financial situation, the Amended Proposal contained three CRAC mechanisms: the LB CRAC implemented if augmentation load exceeded the amount forecast in the original 2002 rate case, a Financial-Based CRAC (FB CRAC) designed to trigger if forecasted accumulated net revenues (ANR) fell substantially below a threshold level; and the SN CRAC, triggered by a deferral or a forecasted deferral, designed to prevent further deferrals. Power sales under pre-subscription contracts were exempt from CRAC. In this Supplemental Proposal, the financial portion of the Residential Exchange Settlement is subject to the SN CRAC, and Slice purchases are subject to the LB CRAC. See General Rate Schedule Provisions (GRSPs), Appendix, WP-02-A-09 for a detailed description of the rates schedules to which the CRACs apply. (The three CRAC mechanisms have been adjusted since the Amended proposal, as described below.)

#### 4. TOOLKIT AND GENERATION RISK MITIGATION MODELING

The ToolKit model utilizes outputs of two Monte Carlo models in developing an estimate of TPP. Specifically, ToolKit receives two streams of net revenues and sums these to arrive at a distribution that reflects both operating and non-operating risks. RiskMod produces the stream of net revenues reflecting operating risk, whereas Non-Operating Risk Model (NORM) produces the stream of net revenues reflecting non-operating risks. *See* Risk Analysis Study and Documentation, WP-02-E-BPA-03 and WP-02-E-BPA-03A, for a description of RiskMod and NORM and the Revenue Requirement Study Documentation, Volume 1, WP-02-FS-BPA-02A, at 268-270 for a fuller description of the modeling system.

Another version of the ToolKit model is used to produce a distribution of net revenues for the remaining year of the current rate period (FY 2001). This version uses the output of the STREAM model used in the 1996 Rate Case to assess operating risks for FY 2001, and a current rate period version of NORM to assess the potential impact of two non-operating risks in FY 2001. For the Supplemental Proposal, the output of Short-Term Evaluation and Analysis Model (STREAM) was modified to better reflect BPA's current outlook. Most of the variation in net revenues in STREAM comes, roughly equally, from two sources: water conditions and market prices. While the risks due to uncertainty from water conditions have not changed since the May Proposal, BPA estimated that price volatility was roughly four times greater than was previously modeled in STREAM. Accordingly, to better capture the uncertainty remaining in the last year of the current rate period, the net revenue deviations used in STREAM were doubled. One other change was made to the STREAM distribution. The games in the 2001 STREAM distribution were sorted so that, for each game, the water year in 2001 was the historical water year prior to the water year in 2002. This ensures that the assumptions made in the 2002 modeling about the balance remaining in the FCCF after 2001 are valid. STREAM is

documented in the 1996 Final Proposal Wholesale Power Rates Development Study and Documentation, WP-96-FS-BPA-05 and WP-96-FS-BPA-05A.

#### 5. DISCUSSION OF CHANGES TO THE TOOLKIT MODEL OPERATION

The ToolKit is a computer spreadsheet model that calculates sequential year-end financial reserve balances for a number of different games. It is used to determine the probability of paying Treasury in full and on time during the rate period; that is, the probability of making all five scheduled payments on time. The ToolKit counts the number of U.S. Treasury deferrals that occur whenever the balance of financial reserves falls below a \$50 million trigger point at the end of any year. This \$50 million figure represents the amount of working capital that BPA must keep on hand for day-to-day liquidity during the first part of each fiscal year. A fuller description of the operation of the ToolKit model can be found in Revenue Requirements Study Documentation, Volume 1, WP-02-FS-BPA-02A, at 271-276. The discussion that follows focuses on the changes to the ToolKit model operation implemented for the Supplemental Proposal.

## A. Starting Financial Reserves

ToolKit was used to evaluate the Treasury payment probability for 3,900 five-year rate period games. For each five-year scenario, the FY 2002 start-of-year financial reserve balance was derived from results of a separate run of an earlier version of the ToolKit for FY 1996–2001 through a probabilistic process. This probabilistic process consisted of running 300 simulations in the ToolKit using the one-year STREAM distribution described above to represent the remainder of the current rate period (FY 2001). These 300 simulations were repeated for each of the 13 Fish and Wildlife Alternatives (*See* the Principles, Volume 1, Chapter 13 of Revenue Requirement Study Documentation, WP-02-FS-BPA-02A) for a total of 3,900 simulated starting

reserve numbers. For the Supplemental Proposal, ToolKit was calibrated to a lower FY 2002 starting reserves value than in the May Proposal. (The Supplemental Proposal used a new set of 300 starting reserves values, generated by ToolKit and calibrated to forecasts reported in BPA's Second Quarter Review for FY 2001.)

Additionally, the \$50 million floor on reserves, used to model a minimum amount of working capital needed by BPA, was switched off for FY 2002 in order to model some additional aspects of the extraordinary potential for cash drains during FY 2001. This allowed ToolKit to produce negative cash balances for FY 2001, reflecting, for example, the possibility that BPA could exercise its short-term note with the Treasury and need to pay it off early in FY 2002. This corresponds to a change in the FY 2002 FB CRAC in the Supplemental Proposal: it was left uncapped so that in the event that BPA began FY 2002 with less than \$300 million in cash it would be able to collect whatever amount of FB CRAC revenue was needed to equal the difference between ending cash and the \$300 million threshold. For the expected value of this amount to be calculated correctly, it is necessary to allow the 2002–2006 ToolKit to begin with negative reserve balances. If a floor of \$50 million is placed on FY 2001 ending reserves values, the amount of additional revenue required to meet the \$300 million reserves threshold in FY 2002 would be understated.

FY 2002 starting reserve balances in the 3,900 games ranged from -\$394 million to \$1,335 million and averaged \$429 million. *See* the output from this ToolKit run at Attachment 1.

## B. Net Revenue Distribution Changes

Both the RiskMod and NORM distributions for the FY 2002–2006 period were modified to reflect two sets of changes from the May Proposal. First, because the percentage of system output to be purchased by Slice customers is now known, the net revenues deviation in both RiskMod and NORM were adjusted to reflect the 22.63 percent of operating and non-operating risks absorbed by the Slice customers. The net revenues developed in RiskMod also reflected a revised forecast of market prices and larger system augmentation required to meet the loads placed on BPA by customers who have signed Subscription contracts.

## C. Cost Recovery Adjustment Clause

Another mechanism BPA is using in its Supplemental Proposal to meet its TPP standard is a three-component CRAC that allows BPA to temporarily increase power rates under specific conditions. *See* GRSPs, Appendix to Administrator's Final Record of Decision, WP-02-A-09.

The LB CRAC is designed to cover the net cost of augmenting BPA's system by 1,560 aMW to meet the additional 1,518 aMW of load (transmission losses, estimated at 2.8 percent, require that system augmentation exceed additional load by 2.8 percent). Because BPA will be acquiring this additional power in a highly volatile market, it is not possible to accurately forecast the cost of purchasing this power over the entire five-year rate period. Accordingly, the LB CRAC has been designed to be responsive to changes in the market price of power.

There are two major steps involved in the determination of the LB CRAC amount.

First, the LB CRAC percentage will be calculated for each six-month period of the rate period at least 90 days before the start of the period, beginning with the October 2001 through March 2002 period. For each fiscal year there will be a calculation for the October-March period and for the April-September period. These calculations determine the percentage increase that will be applied to each customer's bill for each month in the six-month period. These calculations will be made based upon updated forward strip forecasts obtained 120 days prior to the start of the six-month period. There will be a public process prior to the determination of the LB CRAC adjustment.

Second, about 90 days after the end of each six-month period, BPA will true up the LB CRAC based on actual augmentation purchases during the period. *See* section 5.7 of WP-02-E-BPA-67 for a detailed discussion of the mechanics of the LB CRAC and Slice adjustments. Appendix 2 of this chapter contains documentation and additional explanation for the calculation of the amount of augmentation that BPA will use to calculate the LB CRAC percentage and its effect on rates.

The LB CRAC mitigates the market price risk inherent in serving augmented loads by what is, in effect, a variable price mechanism. How much revenue BPA collects from LB CRAC in any period is a function of two factors: the amount of additional load placed upon BPA and the cost of obtaining the electricity needed to serve that augmented load. There is, however, a great deal of uncertainty surrounding both these factors; so much uncertainty, in fact, that BPA staff determined that the only way to assess the potential impacts of the design of the Supplemental Proposal was to perform a series of ToolKit runs that would illustrate the amount of LB CRAC

revenue required to meet a TPP of between 80 and 88 percent under three price scenarios and two levels of load augmentation.

The FB CRAC is structured in substantially the same way as in the May Proposal with two notable exceptions. First, the annual cap on new revenue collection for FY 2002 was removed: ToolKit now models FY 2002 FB CRAC so that it collects whatever amount of additional revenues is needed to equal the difference between ending 2001 reserves and the \$300 million threshold value for that year. Ensuring collection of the full amount in FY 2002 requires that the FB CRAC revenue amount for 2002 not be prorated for the Slice load. The annual thresholds and caps for t FY 2003-2006 remain the same. Second, the timing of the collection of the FB CRAC has changed. In the May Proposal, it was proposed that determination of whether the FB CRAC triggers be based on audited actual financial data available in January, and that collection be made over a 12-month period beginning in April. By contrast, the Amended Proposal called for collecting the full amount in the four months between March and June. This Supplemental Proposal goes back to the 12-month collection. However, collection would begin in October following an initial determination made in August after the Third Quarter Review.

The SN CRAC is designed to trigger a special section 7(i) process if a payment to Treasury or other creditor is to be missed or has been missed. SN CRAC enables the amount, duration, and parameters of FB CRAC to be changed taking into account conditions prevailing at the time.

Because these changes cannot be known at this time, and because SN CRAC will not affect the calculation of the TPP, SN CRAC is not being modeled in ToolKit.

## D. Adjustment for Investor-Owned Utilities (IOU) Residential Exchange Settlement

Because the value of the IOU Residential Exchange Settlement has been revised to reflect a market price of \$38 rather than \$28.1 per megawatthour (MWh), annual net revenues were adjusted downward in the ToolKit by \$60 million. The IOU Settlement included a financial component equivalent to 900 aMW. Changing the market price assumption on which this is based from \$28.1 to \$38 per MWh increases this expense by (\$38-\$28.1) \* 8,760 \* 900 = \$78.1 million, less the 22.63 percent to be paid by Slice customers, yielding \$60.4 million.

## E. Dividend Distribution Clause

BPA's Supplemental Proposal retains the DDC mechanism for distributing "dividends" to certain stakeholders if Audited Accumulated Net Revenues (AANR) for the prior year reach the DDC Threshold, although the mechanism has been modified since the May Proposal.

As in the May Proposal, the first \$15 million of AANR exceeding the threshold will be allocated to qualifying conservation and renewable purposes. However, in the Supplemental Proposal, the remainder of any excess revenues will automatically be refunded to customers rather than having an additional public process to determine the allocation of the dividend. The threshold for any fiscal year will be adjusted upward, however, under two conditions.

- If there has been a power system emergency during the fiscal year and BPA has agreed to
  provide funding for measures to mitigate the impact of the emergency operations on fish and
  wildlife, then to the extent that BPA has not spent the additional emergency-related funding
  during that fiscal year, the threshold for that year will be increased.
- To the extent that BPA fish and wildlife direct program costs previously budgeted for expenditure in that fiscal year were not spent in that fiscal year and a need for them continues, the threshold for that year will be increased.

Threshold values, however, have been raised since the May and Amended Proposals. Because the DDC is now designed to operate automatically, these thresholds can be modeled straightforwardly in ToolKit as a "reverse CRAC." The DDC is modeled so that it triggers when cash reserves exceed \$1.7 billion at the end of FY 2002 (for distribution in FY 2003), \$1.5 billion at the end of FY 2003, and \$1.2 billion at the end of FY 2004-2005. There will be no DDC distribution in FY 2002, the first year of the rate period.

When implemented, the DDC will be triggered by actual accumulated net revenue values comparable to the threshold expressed in terms of cash. These AANR equivalents have been recalibrated based on updated financial data. The threshold is \$993 million for the end of FY 2002 (*i.e.*, for possible distribution starting in FY 2003), \$735 million for the end of FY 2003, and \$401 million for the end of FY 2004 and 2005.

#### 6. RISK MITIGATION TOOLKIT RESULTS

For the Supplemental Proposal, ToolKit was run a total of six times. This was done to demonstrate the impacts of different levels of market price and load reduction on the amount of revenues to be collected under the LB CRAC and to demonstrate that the Supplemental Proposal does not shift additional costs to non-Slice customers.

Table 1 compares the relative rate impacts of the LB CRAC, the FB CRAC, and the DDC on Slice and non-Slice customers, given the different FY 2002 price levels and load reduction assumptions. The table summarizes the results of running ToolKit for six distinct combinations of conditions.

where:

market price levels for FY 2002 are set at \$100, \$148, and \$225/MWh, and load reduction levels are either 0 or 750 aMW

The table compares Five-Year TPP, first year rate increase due to LB and FB CRAC, average rate increase due to LB and FB CRAC including the offsetting effects of the DDC, and FY 2006 average ending reserves. These values are reported for each of six specific market price/load reduction combinations. (Note: Unlike the May and Amended Proposals, the ToolKit runs represented in the tables reflect the effects of the DDC.) Attachments 2-7 to this documentation present the summary of ToolKit outputs for each of the six Alternatives modeled.

The No Load Reduction case uses augmentation loads, purchases, and buy-downs that were signed by June 1, 2001, with any remaining augmentation needs set at the expected value of the market prices used in RiskMod. The 750 MW Load Reduction cases assume that BPA's load is 750 MW smaller at no extra cost. These two sets of cases bracket the likely outcome: the No Load Reduction case is pessimistic, in that more deals are virtually certain to be signed before the June 22, 2001 deadline; the 750 MW Load Reduction case is optimistic, because while that much load reduction may well be achieved, it would entail a cost.

**Table 1: ToolKit Analysis Summary** 

		No	750 MW
		Load	Load
		Reduction	Reduction
Ave 2002 Market = \$100	TPP (5-year)	81.6%	81.6 %
·	1 <sup>st</sup> yr rate increase	93%	61%
	Ave rate increase	45%	31%
	Ave rate inc w/DDC	37%	22%
	Ave 2006 End Res	\$1,003	\$1,004
Ave 2002 Market = \$148	TPP (5-year)	85.7 %	85.7 %
	1 <sup>st</sup> yr rate increase	129%	75%
	Ave rate increase	54%	34%
	Ave rate inc w/DDC	39%	17%
	Ave 2006 End Res	\$1,087	\$1,087
Ave 2002 Market = \$225	TPP (5-year)	88.3 %	88.3 %
·	1 <sup>st</sup> yr rate increase	187%	98%
	Ave rate increase	70%	40%
	Ave rate inc w/DDC	40%	5%
	Ave 2006 End Res	\$1,147	\$1,147

## Notes for Table 1

additional cost.

<u>Ave 2002 Market</u>: The 2002 and 2003 markets vary; 2004 through 2006 are the same in all cases. Calendar-weighted average prices by year for each of the three cases: \$100, \$50, \$46, \$50, \$49; \$148, \$63, \$46, \$50, \$49; \$225, \$100, \$46, \$50, \$49.

<u>Load Reduction</u>: "No Reduction" means full amount of augmentation is needed; "750 Reduction" means that load has been reduced by 750 MW of unspecified load at no

<u>TPP</u>: The TPP is estimated without quantification of the risks of mismatch between the LB CRAC revenues and the actual augmentation costs, and without estimation of the timing of cash flows of the LB CRAC revenues.

<u>Starting 2002 Reserves</u>: The 2001 ending reserves are allowed to be negative, reflecting possible use of Treasury note (expected value = \$429 million).

FB CRAC for 2002 collects enough to make up for any shortfall (below \$300M) in beginning 2002 reserves. It triggers 32 percent of the time in all six cases.

Slice/Non-Slice Allocation of Net Augmentation Cost: Allocated equally across all revenues.

## Appendix 1 – page 5-17 FB CRAC and DDC Threshold Conversion from Reserves to ANR (Tables A and B)

Appendix 2 – page 5-21 Calculation of the Initial Estimate of Augmentation Need (Table C)

Attachment 1 – page 5-25 Current rate period ToolKit output (FY 2000-2001)

Attachments 2-7 – page 5-27

ToolKit outputs (FY 2002 – 2006)

## APPENDIX 1

FB CRAC and DDC Threshold Conversion from Reserves to ANR

Table A page 5-18

Table B page 5-20

## Appendix 1: FB CRAC and DDC Threshold Conversion from Reserves to ANR

The FB CRAC is a temporary, upward adjustment to posted power rates for Subscription sales if ANR in the generation function are forecasted to fall below a threshold level. The FB CRAC has typically been modeled in ToolKit as having a trigger level based on reserves. Because ANR are: (1) a more common financial yardstick; (2) audited as part of BPA's regular financial accounting practices; and (3) better able to be separated into power and transmission portions, BPA is defining the FB CRAC Threshold (the "trigger point" for invoking a rate increase under the FB CRAC) in terms of forecasted ANR. A series of five accumulated net revenue FB CRAC Thresholds is calibrated based on starting reserves thresholds of \$300 million for FY 2002 to 2003 and \$500 million for FY 2003 to 2006. The ToolKit run for the \$148 market in FY 2002 with no load reduction was used here.

Table A: Calculation of the FB CRAC Threshold as Accumulated Net Revenues

(1) Fiscal Year	(2) Pro- jected Ending Reserves	(3)  Projected Starting Reserves	(4) FB CRAC Thresh- old as Reserve Level	(5)  Maximum Planned Recovery Amount	(6) Differential (3)-(4)	(7) Projected Starting Accumulated Net Revenues	(8) FB CRAC Threshold as Accumulated Net Revenues (7)-(6)
FY2001	429						
FY2002	1387	429	300	No cap	129	-257	-386
FY2003	1534	1387	300	135	1087	680	-407
FY2004	1454	1534	500	150	1034	769	-265
FY2005	1285	1454	500	150	954	655	-299
FY2006		1285	500	175	785	486	-299

Note: Because there were no changes in the base rates in the Supplemental Proposal, it was necessary to derive the values in this table somewhat differently than was the case for the May Proposal. *See* Revenue Requirements Study Documentation, Volume 1, WP-02-FS-BPA-02A, at 280-285. The projected ending reserves in column 2 were taken directly from ToolKit and as such represent the expected values for reserves in each of the years in the rate period. The projected Accumulated Net Revenues in column 8 were derived by calculating the year-to-year change in reserves from column 3 and subtracting the "Internal Cash Flow" values listed in ToolKit to yield an estimate of net revenues for each of the years in the FY 2001-2006 period. These values were then added to the net revenues forecasted for the FY 2000 to produce the values in column 7.

The same methodology was used to convert the DDC reserves thresholds to ANR. BPA has proposed three changes to the DDC methodology from what was presented in the May Proposal: first, the DDC would not be available in the first year (2002) of the rate period; second, any dividend beyond the first \$15 million which will go to Conservation and Renewable purposes would all be distributed to power customers; and finally, the distribution will be automatic if accumulated net revenues exceed the threshold. There will be no TPP test. Due to the automatic nature of the dividend and BPA's increased financial volatility, the thresholds are higher. For FY 2003, the threshold is the accumulated net revenue equivalent of \$1.7 billion in reserves; FY 2004, \$1.5 billion; FY 2005 and 2006, \$1.2 billion. The conversion from reserves to ANR is reported in Table B below.

Table B: Calculation of the DDC Threshold as Accumulated Net Revenues

(1) Fiscal Year	(2) Projected Ending Reserves	(3) Projected Starting Reserves	(4) DDC Threshold as Reserve Level	(5) Differential (3)-(4)	(6) Projected Starting Accumulated Net Revenues	(7)  DDC  Threshold as  Accumulated  Net Revenues
FY2001	429					(6)-(5)
FY2002	1387	429	N/A	N/A	N/A	N/A
FY2003	1534	1387	1700	-313	680	993
FY2004	1454	1534	1500	34	769	735
FY2005	1285	1454	1200	254	655	401
FY2006		1285	1200	85	486	401

## APPENDIX 2

Calculation of the Initial Estimate of Augmentation Need Table C page 5-24

## **Appendix 2: Calculation of the Initial Estimate of Augmentation Need**

Table C shows the calculation of the initial estimate of augmentation need (AAMT) for each month for each year in the rate period. The estimate of AAMT contained in the last line of numbers for each year only reflects pre-purchases made by August 1, 2000. There are five calculations required to determine a monthly value for AAMT. Each of these five steps is discussed below.

The first line is BPA's loads with the Slice loads removed. It is labeled "BPA loads minus Slice loads." It is derived from the May Proposal adjusted for the increase in the forecast due to increases in Subscription load forecasts, for the 46 aMW of increased Direct Service Industrial Customers (DSI) load, and for transmission losses of 13 aMW on 450 aMW of DSI load. It includes Priority Firm (PF), Residential Load (RL), Industrial Firm Power (IP), and New Resource (NR) loads except for Slice loads and 900 aMW of IOU load receiving the cash settlement. It also includes all long-term purchases and sales using the Firm Power Products & Services rate schedule, and all system obligations. It is reduced by long-term purchases and customer contributions to meet system obligations. It is then further reduced by system obligations met by the base Federal Base System (FBS) that are taken off the top of the base FBS before determining the basis for the Slice of the system.

The second line is BPA's share of the base FBS after reducing for system obligations. It is labeled "BPA critical FBS shaped to load." BPA's share of the critical FBS (5,472 aMW) is shaped across the months in proportion to the loads in line one. The 5,472 aMW is the critical FBS of 7,072 minus an assumed sale of 1,600 aMW of Slice. For example, the October entry for

FY 2002 in the second line is found by multiplying the constant 5,472 by the October entry in "BPA loads minus Slice loads" and dividing the result by the average of "BPA loads minus Slice loads."

Line 3 labeled "Initial estimate of augmentation need" is the estimated augmentation before adjusting for any pre-purchases and buydowns made after August 1, 2000.

### **Table C: Shaped Augmentation by Year**

## FY 2002 Hours in Month

BPA loads minus Slice loads BPA critical FBS shaped to load Initial estimate of augmentation need

## FY 2003

## **Hours in Month**

BPA Loads minus Slice Loads BPA critical FBS shaped to load Initial estimate of augmentation need

## FY 2004 Hours in Month

BPA Loads minus Slice Loads BPA critical FBS shaped to load Initial estimate of augmentation need

## FY 2005

## **Hours in Month**

BPA Loads minus Slice Loads BPA critical FBS shaped to load Initial estimate of augmentation need

## FY 2006

## **Hours in Month**

BPA Loads minus Slice Loads BPA critical FBS shaped to load Initial estimate of augmentation need 

 Oct
 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 Sep
 Avg

 745
 720
 744
 744
 672
 744
 719
 744
 720
 744
 744
 720

 8,135
 8,933
 9,622
 9,951
 9,782
 9,034
 8,821
 8,783
 8,527
 8,695
 8,658
 8,417
 8943

 4976
 5464
 5886
 6087
 5983
 5526
 5396
 5372
 5216
 5319
 5296
 5149
 5472

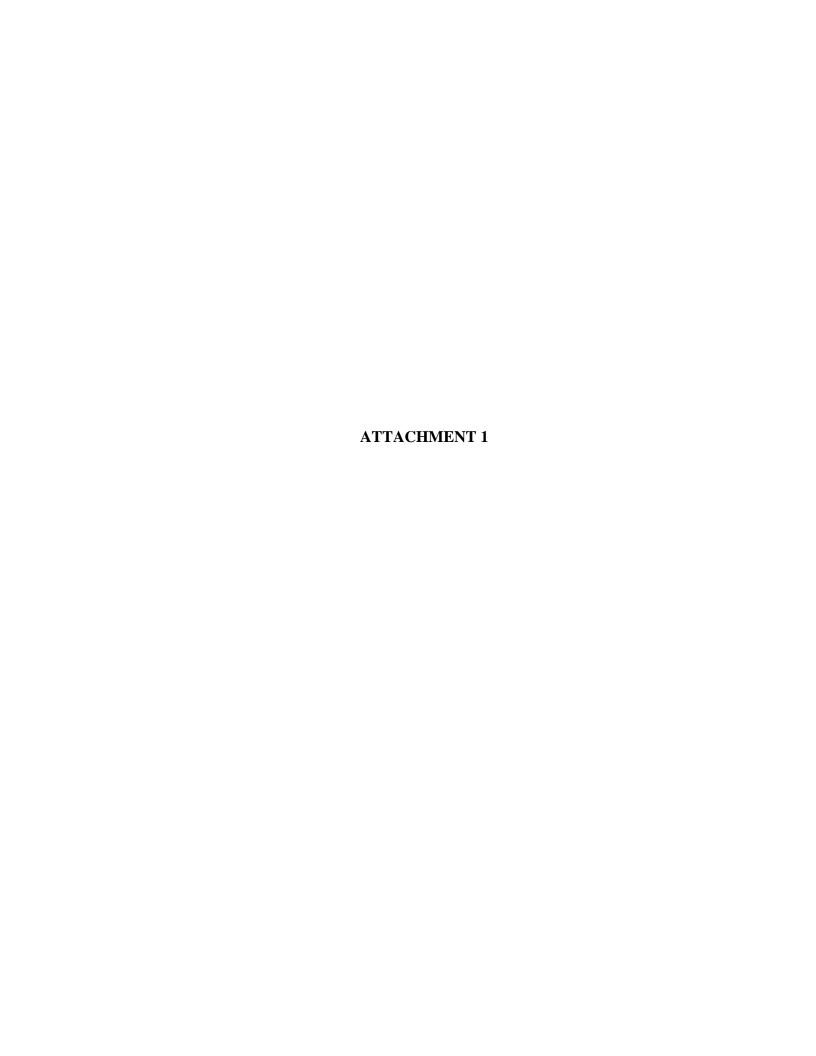
 3159
 3469
 3736
 3864
 3799
 3508
 3425
 3411
 3311
 3376
 3362
 3268
 3474

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Avg 745 720 744 744 672 744 719 744 720 744 744 720 8,370 9,148 9,826 9,678 9,495 8,738 8,462 8,430 8,207 8,366 8,325 8,085 8758 5228 5714 6137 6045 5930 5458 5285 5265 5126 5225 5200 5050 5472 3142 3434 3689 3633 3565 3280 3177 3165 3081 3141 3125 3035 3289

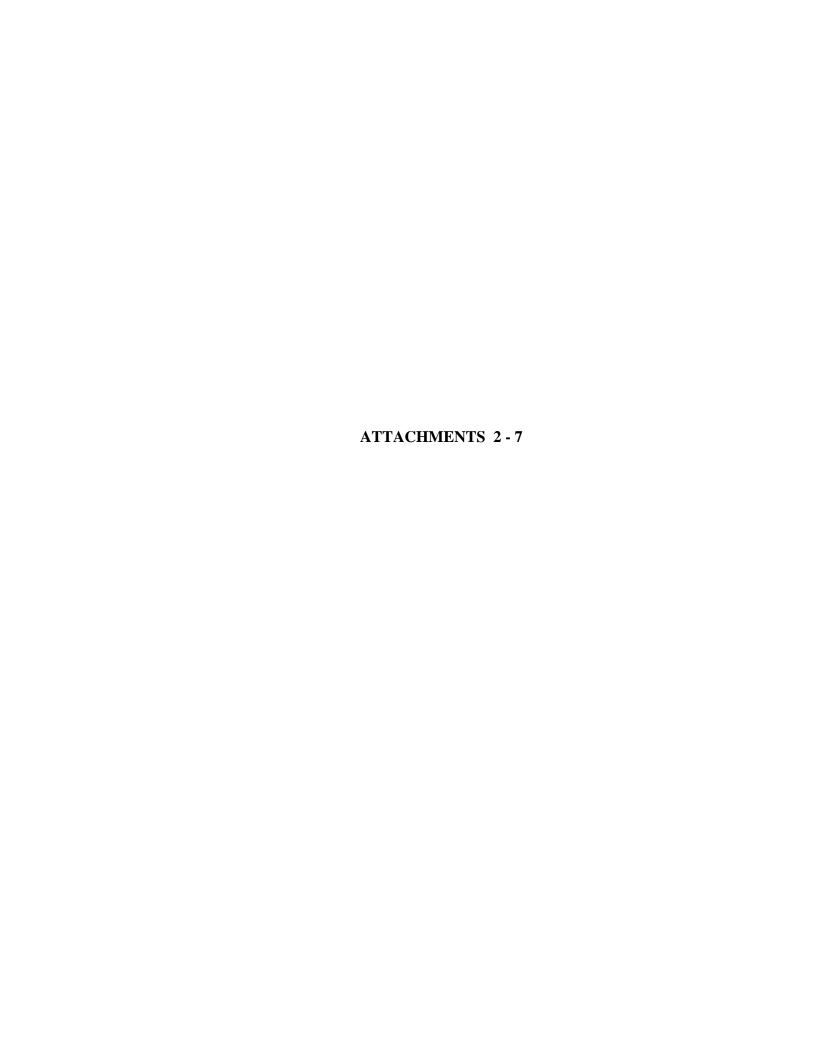
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Avg 745 720 744 744 696 744 719 744 720 744 744 720 **8,045 8,865 9,535 9,468 9,262 8,517 8,306 8,270 8,039 8,207 8,177 7,935** 8551 5146 5671 6099 6056 5925 5448 5313 5290 5142 5250 5231 5076 5471 2899 3194 3436 3412 3337 3069 2993 2980 2897 2957 2946 2859 3082

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Avg 745 720 744 744 672 744 719 744 720 744 744 720 **7,889 8,719 9,400 9,540 9,356 8,572 8,360 8,322 8,088 8,262 8,236 7,992** 8558 5043 5573 6008 6098 5980 5479 5344 5319 5170 5281 5264 5108 5472 2846 3146 3392 3442 3376 3093 3016 3003 2918 2981 2972 2884 3089

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Avg 745 720 744 744 672 744 719 744 720 744 744 720 7,939 8,778 9,465 9,466 9,278 8,488 8,226 8,182 7,944 8,122 8,081 7,829 8480 5121 5662 6106 6106 5985 5475 5306 5278 5124 5239 5213 5050 5472 2818 3116 3359 3360 3293 3013 2920 2904 2820 2883 2868 2779 3011



Initial Re	serves Balan	ce (Year 0)		165.7								Upo	lated 2/	11/01
Initial Ba	lance of 4(H	)(10)(C) FCCF		325										
Interest ea	arned on FC	CF? (1=yes)		0	1	Allow access t	o FCCF?					Ad	justments t	o cash
Frequency	y of 4(H)(10	)(C) FCCF		2%	1	Allow access t	o 4h10c??					Flex.	FCCF	4h10c
Additiona	l contingent	4(H)(10)(C) C1	redit	0							esc	0	0.0	0.0
Interest ra	ite from Trea	asury		6.93%		1-year probab	oility of		100.0%		flat	0	0.0	0.0
Rebate Th	nreshhold			8000		Use adjustmen	its? (1=yes	)	0				0.0	0.0
Total exp	ected rebates	s (5-year)		\$0		"cumulative pr	obability":	probability	y of making	g all payme	nts in		0.0	0.0
Total exp	ected missed	l Tr. payments (	(5-yr)	\$0		years 1 thru 2			r 1 thru 5				0.0	0.0
Plus one	e std. dev.	(0.0)		\$0		Ave. size of de	eferrals (pe	r deferral)		<b>\$0</b>				-39.8
Maximu	ım amount r	nissed			kg Cap =	-5000								
Customer	Line of Cre		Size =	\$ -	Int % =	6.93%								
		Proba-			cun	nulative	Sched	Sched	Cash for	Acc to	Adjmt	STREAM	Interest	Ave End
Kit Yr	Fiscal Yr	bilistic?	deferrals	prob.	deferrals	probab.	Amort	Interest	Risk	Cash Adj	to Cash	Mean	Credit	Bal
Year 0	FY 96	0	0	100.0%			290.0	407.1	39.85	0	0.0	-6.7	20.6	197.1
Year 1	FY 97	0	0	100.0%			233.1	426.6	199.8	0	-10.1	-18.5	24.4	381.8
Year 2	FY 98	0	0	100.0%			227.6	470.9	180.0	0	1.8	-19.7	32.3	562.9
Year 3	FY 99	0	0	100.0%	0	100.0%	163.6	473.5	85.1		25.1	-21.3	45.1	669.2
Year 4	FY 2000	0	0	100.0%	0	100.0%	164.1	489.6	108.6		0.0	-19.3	51.5	774.6
Year 5	FY 2001	1	0	100.0%	0	100.0%	163.0	521.7	183.3	0	-523.6	-57.9	63.3	429.0
		5-yr Ave.	0	100.0%			190	476	151	0.00	-101.36	-27.3	43.3	
		5-yr Total	0				951	2,382	757		-506.80		217	



<b>ToolKit</b>	v. 1.47,	(6-12-20	001)		Study title:	6-12-0		N Slice, \$10 Reduction.	00/MWh, No	Load		RiskModFil	e2 (the unca	pped one):			
Time of ru	n: 23:19:40	on 6/12/01	,	5	-yr TPP =	81.6%						C:\My Dox\	A Risky Bus	iness\Final 2	2002 ROD\R	evSim0608	_S1600_FY(
Inputs	Riskmod:	RM Merge	d_0608_S1	600 \$100	LR0.xls								Sep augm a		1375		
			Prob_Final			touts.xls							Additional Id	•	-1338.4		
Files =>			(it 2001 06										Total		36.6		
Start in	Stop in			Access			Access	CRAC	Slice frac.	CP CRAC	Tx Surch			Price for IO	U Fin. Settle	mt.	
TK Year		St. Rsrv.	Balance		St. FCCF		4h10C?	Lim/Total	for CRAC		Threshold				s percentag		
2		TRUE	300	FALSE	TRUE	162.5	FALSE	20,000	23.69%	0	300				on of System		
Start TPP	"Small"	FishRisk	No. of	Ave PF	Debug	Reserves	AutoPrint	AutoPrint	Use Adj.	Enable	LB CRAC			Slice Fraction			
in TK Yr	Def. Size	in RM?	Iterations	Base Rt	Level	Graph	Res Grph		CRAC	OnTheFly	Scaling		1,600	Slice Load	on coda		
2	\$20	TRUE	3900	21.7	0						100%			Default Slic	a Load Δmt	-	1
ToolKit	Fiscal	Probabi-	Treasury	Amort	Interest	Interest	CRAC	CRAC	Tx Surch.	Div. Dist.	Div.Dist				participate	in ED CDAC	<u>.                                      </u>
						Cr. Sched						l l				III FB CRAC	,
Year	Year	listic?	Int. Rate	Sched			Inresnoid			Threshold	Lim/Year		(1: There ar	/			
1	2001	TRUE	7.39%	163.0	521.7	65.4		50	0				(2: Load-bas				
2	2002	TRUE	6.82%	107.4	315.5	61.0	300	1000	0		20,000		(3: Pseudo-				; years])
3		TRUE	6.78%	73.0	323.0	67.5	300	135	0	1,700	20,000		(4: No FB C				
4	2004	TRUE	6.92%	93.0	334.4	75.0	500	150	0	1,500	20,000		(5: BPA Cou				
5	2005	TRUE	6.90%	148.1	345.3	79.8	500	150	0	1,200	20,000		(6: BPA Cou				true-up)
6	2006	TRUE	6.90%	128.5	348.3	84.7	500	175	0	1,200	20,000		(7: 2-2-01 p			talks	
ToolKit	Fiscal	Internal		Add'l	LB CRAC	Adj. C1	LB CRAC	Slice Aug	FB CRAC	FB CRAC	IOU \$	Rem Aug	Net Augm	LB CRAC	FB CRAC		
Year	Year	Cash Flow		IOU \$	Non-Slice	Slice	Price	Price	1st Month	Thr. Type	to power	Q (aMW)	Cost	Rev Basis	<b>Rev Basis</b>		
1	2001	190.6	0.0			0	0	0.0	0								
2	2002	21.6		-60.4	834.5	319.3	138.4	138.4	1	0	0		1,153.7	1,371.1	991.7		
3	2003	57.7		-60.4	365.2	131.8	74.9	74.9	1	0	0		497.0	1,430.5	1,051.1		
4	2004	33.6		-60.4	342.6	111.3	44.3	44.3	1	0	0		454.0	1,547.2	1,167.8		
5	2005	0.0		-60.4	344.5	111.2	47.3	47.3	1	0	0		455.7	1,554.8			
6	2006	0.0		-60.4	372.5	119.1	47.6	47.6	1	0	0		491.5	1,566.3			
Outputs	2000	0.0		00.1	072.0	110.1	17.0	17.0			J		101.0	1,000.0	1,100.0		
ToolKit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	On-the-Fly						
Year	Year		Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.			Adjustmt.	Ave Renve					
0.0	0.0	0.0	-	1.0	n/a	n/a	0.0	n/a	n/a	0	Aujustiii.	Strt Bal					
2	2002	251	22	94%	251	94%	15.3	237.5	237.5	980	_	429.0					
						89%			231.3	900	-	429.0					
3	2003	343	21 9	91%	414				166.6	1.000							
4	2004	353			F00		22.3	254.1	166.6	1,063	-	FOOF					
5	2005			91%	523	87%	30.5	336.9	181.4	1,136	-	FCCF					
6		430	18	89%	636	87% 84%	30.5 38.4	336.9 348.4	181.4 149.4	1,136 1,113	-	Strt Bal					
_	2006	432	18 17	89% 89%	636 718	87% 84% 82%	30.5 38.4 35.6	336.9 348.4 321.7	181.4 149.4 141.9	1,136 1,113 1,003	- - -						
	-yr Total	432 1809	18 17 87	89% 89% n / a	636 718 n/a	87% 84% 82% n/a	30.5 38.4 35.6 142.2	336.9 348.4 321.7 n/a	181.4 149.4 141.9 n/a	1,136 1,113 1,003 n/a	-	Strt Bal					
5	-yr Total -yr Ave.	432 1809 361.8	18 17 87 17	89% 89% n/a n/a	636 718 n/a n/a	87% 84% 82% n/a n/a	30.5 38.4 35.6 142.2 28.4	336.9 348.4 321.7 n/a 306.5	181.4 149.4 141.9 n/a 188.1	1,136 1,113 1,003 n/a n/a		Strt Bal n / a					
	-yr Total -yr Ave. Fiscal	432 1809 361.8 CRAC	18 17 87 17	89% 89% n/a n/a	636 718 n/a n/a	87% 84% 82% n/a	30.5 38.4 35.6 142.2 28.4	336.9 348.4 321.7 n/a	181.4 149.4 141.9 n/a	1,136 1,113 1,003 n/a n/a TxS Ann.	- - - - - TxS Total	Strt Bal n / a Slice					
5 ToolKit Year	-yr Total -yr Ave. Fiscal Year	432 1809 361.8 CRAC Accesses	18 17 87 17 Av. CRAC per Acc.	89% 89% n/a n/a Av. CRAC per Year	636 718 n/a n/a CRAC Ann.	87% 84% 82% n/a n/a	30.5 38.4 35.6 142.2 28.4 Slice pmt.	336.9 348.4 321.7 n / a 306.5 Av. Slice per Acc.	181.4 149.4 141.9 n / a 188.1 Av. Slice per Year	1,136 1,113 1,003 n / a n / a TxS Ann. Lim Rchd		Strt Bal n / a Slice					
ToolKit Year 0.0	-yr Total -yr Ave. Fiscal	432 1809 361.8 CRAC	18 17 87 17 Av. CRAC per Acc. n / a	89% 89% n/a n/a Av. CRAC	636 718 n / a n / a CRAC Ann. Lim Rchd	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0	336.9 348.4 321.7 n / a 306.5 Av. Slice	181.4 149.4 141.9 n / a 188.1 Av. Slice	1,136 1,113 1,003 n / a n / a TxS Ann. Lim Rchd	TxS Total Lim Rchd	Strt Bal n / a Slice LB CRAC					
5 ToolKit Year	-yr Total -yr Ave. Fiscal Year	432 1809 361.8 CRAC Accesses	18 17 87 17 Av. CRAC per Acc.	89% 89% n/a n/a Av. CRAC per Year	636 718 n / a n / a CRAC Ann. Lim Rchd	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses	336.9 348.4 321.7 n / a 306.5 Av. Slice per Acc.	181.4 149.4 141.9 n / a 188.1 Av. Slice per Year	1,136 1,113 1,003 n / a n / a TxS Ann. Lim Rchd	- - - - TxS Total Lim Rchd	Strt Bal n / a Slice LB CRAC					
ToolKit Year 0.0	-yr Total -yr Ave. Fiscal Year 0.0	432 1809 361.8 CRAC Accesses 0	18 17 87 17 Av. CRAC per Acc. n / a	89% 89% n/a n/a Av. CRAC per Year 0.0	636 718 n / a n / a CRAC Ann. Lim Rchd	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0	336.9 348.4 321.7 n / a 306.5 Av. Slice per Acc. n / a	181.4 149.4 141.9 n / a 188.1 Av. Slice per Year 0.0	1,136 1,113 1,003 n / a n / a TxS Ann. Lim Rchd	TxS Total Lim Rchd	Strt Bal n / a Slice LB CRAC					
ToolKit Year 0.0 2	-yr Total -yr Ave. Fiscal Year 0.0 2002	432 1809 361.8 CRAC Accesses 0 1248	18 17 87 17 Av. CRAC per Acc. n / a 273.4	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5	636 718 n/a n/a CRAC Ann. Lim Rchd 0	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a	181.4 149.4 141.9 n/a 188.1 Av. Slice per Year 0.0 0.0	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd	TxS Total Lim Rchd	Strt Bal n / a Slice LB CRAC 84% 35%					
ToolKit Year 0.0 2 3	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003	432 1809 361.8 CRAC Accesses 0 1248 452	18 17 87 17 Av. CRAC per Acc. n / a 273.4 86.0	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0	636 718 n/a n/a CRAC Ann. Lim Rchd 0 0 305	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a	181.4 149.4 141.9 n / a 188.1 Av. Slice per Year 0.0 0.0	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0	- - - - - - - - - - - - - - - - - - -	Strt Bal n / a Slice LB CRAC 84% 35% 29%					
ToolKit Year 0.0 2 3 4	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005	432 1809 361.8 CRAC Accesses 0 1248 452 980 971	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2	636 718 n / a n / a CRAC Ann. Lim Rchd 0 0 305 779 786	87% 84% 82% n/a n/a CRAC Tot. Lim Rchd 0 0 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a	181.4 149.4 141.9 n/a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0	- - - - - TxS Total Lim Rchd 0 0 0	Strt Bal n / a Slice LB CRAC 84% 35% 29% 29%					
5 ToolKit Year 0.0 2 3 4 5 6	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954	18 17 87 17 Av. CRAC per Acc. n / a 273.4 86.0 101.2 105.1 93.6	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9	636 718 n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0 0 0 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a	181.4 149.4 141.9 n/a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0	1,136 1,113 1,003 n/a n/a Tx\$ Ann. Lim Rchd 0 0 0 0	- - - - TxS Total Lim Rchd 0 0 0 0	Strt Bal n / a Slice LB CRAC 84% 35% 29% 29% 31%					
5 ToolKit Year 0.0 2 3 4 5 6	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1 93.6 n/a	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9	636 718 n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0 0 0 0 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a	181.4 149.4 141.9 n / a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 0.0	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0 0 0	- - - - - TxS Total Lim Rchd 0 0 0 0 0	Strt Bal n / a Slice LB CRAC 84% 35% 29% 29% 31%					
5 ToolKit Year 0.0 2 3 4 5 6 5 5	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave.	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1 93.6 n/a 145.6	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4	636 718 n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669 533.8	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0 0 0 0 0 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a	181.4 149.4 141.9 n / a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 0.0	1,136 1,113 1,003 n / a n / a TxS Ann. Lim Rchd 0 0 0 0 0 0	- - - - TXS Total Lim Rchd 0 0 0 0 0 0	Strt Bal n / a Slice LB CRAC 84% 35% 29% 29% 31%		R& ER CPA	Cs and DDC		ER CRAC
5 ToolKit Year 0.0 2 3 4 5 6 5 5	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave.	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1 93.6 n/a 145.6 NORM	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP	636 718 n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669 533.8 No. of	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0 0 0 0 0 0 0 0 0 0 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a	181.4 149.4 141.9 n / a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 0.0 FCCF	1,136 1,113 1,003 n / a n / a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 0	- - - - TxS Total Lim Rchd 0 0 0 0 0 0 0 0 0 4h10C	Strt Bal n / a Slice LB CRAC 84% 35% 29% 29% 31% 42% Non-Slice I	mpacts of LE				FB CRAC
ToolKit Year 0.0 2 3 4 5 6 5 ToolKit Year	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave. Fiscal Year	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod Inputs	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1 93.6 n/a 145.6 NORM Inputs	89% 89% n / a n / a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP Totals	636 718 n/a n/a CRAC Ann. Lim Rchd 0 0 3055 779 786 799 2669 533.8 No. of DivDists	87% 84% 82% n / a n / a CRAC Tot. Lim Rchd 0 0 0 0 0 0 0 0 0 0 7 4 Ave. DvD. per DvD.	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a n/a	181.4 149.4 141.9 n / a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 FCCF Credit	1,136 1,113 1,003 n / a n / a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 0 0 0 FCCF Use %		Strt Bal n / a Slice LB CRAC 84% 35% 29% 29% 31% 42% Non-Slice I LB C	mpacts of LE			Net	
5 ToolKit Year 0.0 2 3 4 5 6 5 5 5 ToolKit Year 0.0	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave. Fiscal Year 0.0	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod Inputs 0.0	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1 93.6 n/a 145.6 NORM Inputs	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP Totals	636 718 n/a n/a CRAC Ann. Lim Rchd 0 0 3055 779 786 799 2669 533.8 No. of DivDists n/a	87% 84% 82% n/a n/a n/a CRAC Tot. Lim Rchd 0 0 0 0 0 0 and Ave. DvD. per DvD. n/a	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a n/a conditional conditional con	181.4 149.4 141.9 n/a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 FCCF Credit n/a	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Strt Bal n / a Slice LB CRAC 84% 35% 29% 29% 31% 42% Non-Slice I LB C	mpacts of LE FB C	FB + LB	DDC	Net	Freqncy
5 ToolKit Year 0.0 2 3 4 5 6 5 5 ToolKit Year 0.0 2	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave. Fiscal Year 0.0 2002	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod Inputs 0.0 -623.1	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1 93.6 n/a 145.6 NORM Inputs 0.0 -7.9	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP Totals 0.0 -631.0	636 718 n/a n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669 533.8 No. of DivDists n/a n/a	87% 84% 82% n/a n/a CRAC Tot. Lim Rchd 0 0 0 0 0 0 0 0 0 7/a Ave. DvD. per DvD. n/a n/a	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a n/a 0.0 47.6	181.4 149.4 141.9 n/a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 0.0 FCCF Credit n/a n/a	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Strt Bal n / a Slice LB CRAC 84% 35% 29% 31% 42% Non-Slice I LB C	mpacts of LE FB C 9%	FB + LB 93%	DDC	Net 93%	Freqncy 32%
5 ToolKit Year 0.0 2 3 4 5 6 5 5 ToolKit Year 0.0 2 3	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave. Fiscal Year 0.0 2002 2003	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod Inputs 0.0 -623.1 -423.1	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1 93.6 n/a 145.6 NORM Inputs 0.0 -7.9 -9.3	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP Totals 0.0 -631.0	636 718 n/a n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669 533.8 No. of DivDists n/a n/a	87% 84% 82% n/a n/a CRAC Tot. Lim Rchd 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0.0 Ave. DvD. per Year n/a 1/2.1	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a credit 0.0 47.6 67.1	181.4 149.4 141.9 n/a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 FCCF Credit n/a n/a n/a	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Strt Bal n / a Slice LB CRAC 84% 35% 29% 31% 42% Non-Slice I LB C 84% 35%	mpacts of LE FB C 9% 1%	FB + LB 93% 36%	DDC 3%	93% 32%	32% 12%
5 ToolKit Year 0.0 2 3 4 5 6 5 5 ToolKit Year 0.0 2 3 4 4 5 4 5 4 5 4 7 6 7 7 8 7 8 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod Inputs 0.0 -623.1 -423.1	18 17 87 17 Av. CRAC per Acc. n/a 273.4 86.0 101.2 105.1 93.6 n/a 145.6 NORM Inputs 0.0 -7.9 -9.3	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP Totals 0.0 -631.0 -432.4 -308.0	636 718 n/a n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669 533.8 No. of DivDists n/a 492 1053	87% 84% 82% n/a n/a CRAC Tot. Lim Rchd 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a credit Credit 0.0 47.6 67.1 73.3	181.4 149.4 141.9 n/a 188.1  Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 FCCF Credit n/a n/a n/a n/a	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 FCCF Use % n/a n/a n/a		Strt Bal n / a Slice LB CRAC 84% 35% 29% 31% 42% Non-Slice I LB C 84% 35% 29%	mpacts of LE FB C 9% 1% 2%	FB + LB 93% 36% 32%	3% 9%	93% 32% 23%	32% 12% 25%
5 ToolKit Year 0.0 2 3 4 5 6 5 5 ToolKit Year 0.0 2 3 4 5 5 5 ToolKit 5 To	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod Inputs 0.0 -623.1 -423.1 -298.7	18 17 87 17 Av. CRAC per Acc. n / a 273.4 86.0 101.2 105.1 93.6 n / a 145.6 NORM Inputs 0.0 -7.9 -9.3 -9.2	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP Totals 0.0 -631.0 -432.4 -308.0 -286.8	636 718 n/a n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669 533.8 No. of DivDists n/a 492 1053 1887	87% 84% 82% n/a n/a CRAC Tot. Lim Rchd 0 0 0 0 0 0 0 0 0 0 7/a Ave. DvD. per DvD. n/a 333.8 430.9 453.4	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a n/a 1nterest Credit 0.0 47.6 67.1 73.3 74.6	181.4 149.4 141.9 n/a 188.1  Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 FCCF Credit n/a n/a n/a n/a	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 FCCF Use % n/a n/a n/a		Strt Bal n / a Slice LB CRAC 84% 35% 29% 31% 42% Non-Slice I LB C 84% 35% 29% 29%	mpacts of LE FB C 9% 1% 2% 2%	93% 36% 32% 32%	3% 9% 16%	93% 32% 23% 16%	32% 12% 25% 25%
5 ToolKit Year 0.0 2 3 4 5 6 5 ToolKit Year 0.0 2 3 4 5 6 6 6 6	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod Inputs 0.0 -623.1 -423.1 -298.7 -277.6 -295.0	18 17 87 17 Av. CRAC per Acc. n / a 273.4 86.0 101.2 105.1 93.6 n / a 145.6 NORM Inputs 0.0 -7.9 -9.3 -9.2 -9.2	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP Totals 0.0 -631.0 -432.4 -308.0 -286.8 -304.3	636 718 n/a n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669 533.8 No. of DivDists n/a 492 1053 1887 1804	87% 84% 82% n/a n/a CRAC Tot. Lim Rchd 0 0 0 0 0 0 0 0 0 0 7/a Ave. DvD. per DvD. n/a 333.8 430.9 453.4 329.3	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a foredit Credit 0.0 47.6 67.1 73.3 74.6 69.8	181.4 149.4 141.9 n/a 188.1 Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 FCCF Credit n/a n/a n/a n/a n/a	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Strt Bal n / a Slice LB CRAC 84% 35% 29% 31% Non-Slice I LB C 84% 35% 29% 29% 31%	mpacts of LE FB C 9% 1% 2%	93% 36% 32% 32%	3% 9% 16%	93% 32% 23%	32% 12% 25%
5 ToolKit Year 0.0 2 3 4 5 6 5 ToolKit Year 0.0 2 3 4 5 6 5 5  ToolKit Year 0.0 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005 2006 -yr Total -yr Ave. Fiscal Year 0.0 2002 2003 2004 2005	432 1809 361.8 CRAC Accesses 0 1248 452 980 971 954 4605 921 Riskmod Inputs 0.0 -623.1 -423.1 -298.7	18 17 87 17 Av. CRAC per Acc. n / a 273.4 86.0 101.2 105.1 93.6 n / a 145.6 NORM Inputs 0.0 -7.9 -9.3 -9.2	89% 89% n/a n/a Av. CRAC per Year 0.0 87.5 10.0 25.4 26.2 22.9 172.0 34.4 Risk IP Totals 0.0 -631.0 -432.4 -308.0 -286.8	636 718 n/a n/a n/a CRAC Ann. Lim Rchd 0 0 305 779 786 799 2669 533.8 No. of DivDists n/a n/a 492 1053 1887 1804	87% 84% 82% n/a n/a CRAC Tot. Lim Rchd 0 0 0 0 0 0 0 0 0 0 7/a Ave. DvD. per DvD. n/a 333.8 430.9 453.4	30.5 38.4 35.6 142.2 28.4 Slice pmt. Accesses 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	336.9 348.4 321.7 n/a 306.5 Av. Slice per Acc. n/a n/a n/a n/a n/a n/a n/a 1nterest Credit 0.0 47.6 67.1 73.3 74.6	181.4 149.4 141.9 n/a 188.1  Av. Slice per Year 0.0 0.0 0.0 0.0 0.0 FCCF Credit n/a n/a n/a n/a	1,136 1,113 1,003 n/a n/a TxS Ann. Lim Rchd 0 0 0 0 0 0 0 0 FCCF Use % n/a n/a n/a		Strt Bal n / a Slice LB CRAC 84% 35% 29% 31% Non-Slice I LB C 84% 35% 29% 31% 35% 29% 31%	mpacts of LE FB C 9% 1% 2% 2%	93% 36% 32% 32% 33%	3% 9% 16% 11%	93% 32% 23% 16%	32% 12% 25% 25%

Time of mark 2391132	ToolKit	v. 1.47b	o, (6-12-2	2001)		Study title:	6-12-0	1, 1600 aM\	W Slice, \$10 Reduction.	00/MWh, 75	0 Load		RiskModFi	e2 (the unca	apped one):			
NORM	Time of ru	n: 23:21:38	on 6/12/01		5	-yr TPP =	81.6%						C:\My Dox\	A Risky Bus	iness\Final 2	2002 ROD\R	evSim0608	_S1600_FY(
NORM	Inputs	Riskmod:	RM_Merge	d_0608_S1	600_\$100_	LR750_Rev	v1.xls							Sep augm a	ssumpt'n	1375		
Files														Additional lo	ad .	-1338.4		
Start   Name   Thirty   Thir	Files =>													Total				
Try								Access	CRAC	Slice frac.	CP CRAC	Tx Surch			Price for IO		mt.	
Start PP   Start Professor   Factor Professor   F																		
Sum TPF   Semail   Fall-Risk   No. of   Awe PF   Debug   Reasona											· /							
Cook   Fiscal   Probable																on co Load		
The content of the																a Load Amt		
The content of the		_					<u> </u>										in ED CDAC	`
1																	III FB CRAC	,
2								Inresnoid				Lim/ Year		,				
3   2003   TRUE   6,78%   73.0   323.0   67.5   300   135   0   1,700   20,000   (4: No FB CRAC; They true up instead)																		
4																		; years])
1																		
Toolka   Fiscal   Internal   Second   Fiscal   Internal					93.0													
Toolkit   Fiscal   Internal   Add   LB CRAC   Slice   Slice   Slice   Slice   Slice   Slice   Toolkit   Fiscal   No. of   Small*   Small	5	2005	TRUE	6.90%	148.1	345.3	79.8	500	150	0	1,200	20,000						true-up)
Yoar   Cash Flow   Flow   Price   1st Month   Thr. Type   to power   Q (aMW)   Cash Rev Basis   Rev	6	2006	TRUE	6.90%								20,000		(7: 2-2-01 p			talks	
1 2001 190.6 0.0	ToolKit	Fiscal	Internal		Add'l	LB CRAC	Adj. C1	LB CRAC	Slice Aug	FB CRAC	FB CRAC	IOU \$	Rem Aug	Net Augm	LB CRAC	FB CRAC		
2 2002 21.6	Year	Year	Cash Flow		IOU \$	Non-Slice	Slice	Price	Price	1st Month	Thr. Type	to power	Q (aMW)	Cost	Rev Basis	Rev Basis		
3 2003   57.7   -60.4   213.8   89.5   74.9   74.9   1   0   0   0   303.3   1,285.3   90.9   4 2004   33.6   -60.4   20.97   77.9   44.3   41.0   0   0   287.6   1,401.6   1,022.2   5 2005   0.0   -60.4   213.8   89.5   74.9   44.3   1   0   0   0   287.6   1,401.6   1,022.2   5 2005   0.0   -60.4   213.8   89.5   74.9   44.3   1   0   0   0   287.6   1,401.6   1,030.1   6 2006   0.0   -60.4   223.0   81.2   47.6   47.6   1   0   0   0   285.6   1,409.6   1,030.1   7 2	1	2001	190.6	0.0			0	0	0.0	0								
3 2003   57.7   -60.4   213.8   89.5   74.9   74.9   1   0   0   0   303.3   1,285.3   90.9   4 2004   33.6   -60.4   20.97   77.9   44.3   41.0   0   0   287.6   1,401.6   1,022.2   5 2005   0.0   -60.4   213.8   89.5   74.9   44.3   1   0   0   0   287.6   1,401.6   1,022.2   5 2005   0.0   -60.4   213.8   89.5   74.9   44.3   1   0   0   0   287.6   1,401.6   1,030.1   6 2006   0.0   -60.4   223.0   81.2   47.6   47.6   1   0   0   0   285.6   1,409.6   1,030.1   7 2	2	2002	21.6		-60.4	429.2	192.4	138.4	138.4	1	0	0		621.6	1,225.9	846.5		
4 2004   33.6   -60.4   29.7   77.9   44.3   44.3   1   0   0   0   287.6   1,401.6   1,002.2   1,401.6   1,402.2   1,402.2   1,401.6   1,402.2   1,402.2   1,402.2   1,402.2   1,402.2					-60.4	213.8		74.9	74.9	1	0			303.3		905.9		
Section   Compute   Comp										1								
Colputs   Fiscal   No. of   Colputs   No. of   No.																		
ToolKit   Fiscal   No. of   "Small"   1-year   Cumul.   Ave. Def.   Ave. Def.   Ave. Def.   Ave. Bed.   Ave. Bed.   On-the-Fly																		
ToolKit   Fiscal   No. of   Small"   1-year   Cumul.   Cumul.   Nave. Def.   Ave. Def.   Ave. Def.   Ave. End.   On-the-Fly		2000	0.0		-00.4	220.0	01.2	47.0	47.0	<u> </u>	0	U		304.3	1,721.1	1,041.7		
Year   Year   Octor   Probab.   Deferrals   Probab.   Pr		Fiscal	No. of	"Small"	1-voor	Cumul	Cumul	Avo Dof	Avo Dof	Avo 1st	Avo End	On-tho-Fly						
0.0 0.0 0.0 0.0 - 1.0 n/a n/a 0.0 n/a n/a 0.0 - 1.0 n/a n/a 0.0 n/a n/a 0 0 2270 2261 22 94% 251 94% 15.3 237.2 237.2 981 - 429.0 249.0 3 2003 342 20 91% 414 89% 22.3 254.5 166.4 1,063 - 50.0 3 3 2003 342 20 91% 414 89% 22.3 254.5 166.4 1,063 - 50.0 3 3 200 3 342 20 91% 523 87% 30.5 336.6 181.1 1,136 - 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50														Ī				
2 2002 251 22 94% 251 94% 15.3 237.2 237.2 981 - 429.0 3 2003 342 20 91% 414 89% 22.3 3254.5 166.4 1,063 - FCCF 5 2005 428 16 89% 635 84% 38.4 349.7 150.4 1,113 - Strt Bal 6 2006 432 18 89% 718 82% 35.6 321.1 142.8 1,004 - n/a 5 -yr Total 1806 85 n/a n/a n/a 142.0 n/a 182.2 n/a  ToolKitt Fiscal CRAC Av. CRAC Av. CRAC Av. CRAC Av. CRAC Tot. Slice per Ac. Per Year Year Accesses per Acc. 0.0 0.0 0.0 0 n/a 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								•	•			Aujustini.						
3 2003 342 20 91% 414 89% 22.3 254.5 166.4 1,063 -																		
4 2004 353 9 91% 523 87% 30.5 336.6 181.1 1.136 - 50.5 5.00 428 16 89% 635 84% 38.4 349.7 150.4 1,113 - 50.4 1.13													429.0					
5													====					
6																		
5 -yr Total 1806 85 n/a n/a n/a 142.0 n/a n/a n/a n/a n/a - 5 -yr Ave. 361.2 17 n/a n/a n/a n/a 28.4 306.7 188.2 n/a - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -												-	Strt Bal					
ToolKit   Fiscal   CRAC   Av. C												-	n/a					
ToolKit   Fiscal   CRAC   Av. CRAC   Av. CRAC   Av. CRAC	5	-yr Total	1806	85	n/a	n/a	n/a	142.0	n/a	n/a	n/a	-						
Year         Year         Accesses         per Acc.         per Year         Lim Rchd         Li	5	-yr Ave.									n/a	-		_				
0.0 0.0 0.0 0 0 n/a 0.0 0 0 n/a 0.0 0 0 n/a 0.0 0 0 n/a 0.0 0 0 51%  2 2002 1248 273.4 87.5 0 0 0 0 n/a 0.0 0 0 51%  3 2003 452 85.9 10.0 305 0 0 n/a 0.0 0 0 24%  4 2004 980 101.2 25.4 779 0 0 n/a 0.0 0 0 21%  5 2005 971 105.0 26.2 786 0 0 n/a 0.0 0 0 19%  6 2006 954 93.6 22.9 799 0 0 n/a 0.0 0 0 21%  5 -yr Total 4605 n/a 171.9 2669 0 0 n/a 0.0 n/a 0.0 0 0 21%  5 -yr Total 4605 n/a 171.9 2669 0 0 n/a 0.0 n/a 0.0 n/a 27%  ToolKit Fiscal Riskmod NORM Risk IP No. of Ave. DvD. Ave. DvD. Interest FCCF FCCF 4h10C Non-Slice Impacts of LB & FB CRACs and DDC Frequency  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 n/a	ToolKit	Fiscal	CRAC	Av. CRAC	Av. CRAC	CRAC Ann.	CRAC Tot.	Slice pmt.	Av. Slice	Av. Slice	TxS Ann.	TxS Total	Slice					
2 2002 1248 273.4 87.5 0 0 0 0 n/a 0.0 0 0 51% 3 2003 452 85.9 10.0 305 0 0 0 n/a 0.0 0 0 24% 4 2004 980 101.2 25.4 779 0 0 0 n/a 0.0 0 0 21% 5 2005 971 105.0 26.2 786 0 0 n/a 0.0 0 0 19% 6 2006 954 93.6 22.9 799 0 0 n/a 0.0 0 0 21% 5 -yr Total 4605 n/a 171.9 2669 0 n/a 0.0 0 0 0 21% 5 -yr Ave. 921 145.6 34.4 533.8 n/a 0.0 n/a 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year	Year	Accesses	per Acc.	per Year	Lim Rchd	Lim Rchd	Accesses	per Acc.	per Year	Lim Rchd	Lim Rchd	LB CRAC					
2 2002 1248 273.4 87.5 0 0 0 0 n/a 0.0 0 0 51% 3 2003 452 85.9 10.0 305 0 0 0 n/a 0.0 0 0 24% 4 2004 980 101.2 25.4 779 0 0 0 n/a 0.0 0 0 21% 5 2005 971 105.0 26.2 786 0 0 n/a 0.0 0 0 19% 6 2006 954 93.6 22.9 799 0 0 n/a 0.0 0 0 21% 5 -yr Total 4605 n/a 171.9 2669 0 n/a 0.0 0 0 0 21% 5 -yr Ave. 921 145.6 34.4 533.8 n/a 0.0 n/a 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0			n/a	0.0	0	0	0	n/a	0.0	0	0						
3 2003 452 85.9 10.0 305 0 0 n/a 0.0 0 0 24% 4 2004 980 101.2 25.4 779 0 0 0 n/a 0.0 0 0 24% 5 2005 971 105.0 26.2 786 0 0 n/a 0.0 0 0 19% 6 2006 954 93.6 22.9 799 0 0 0 n/a 0.0 0 0 21% 5 -yr Total 4605 n/a 171.9 2669 0 0 n/a 0.0 0 0 0 21% 5 -yr Ave. 921 145.6 34.4 533.8 n/a 0.0 n/a 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1248			0		0	n/a		0							
4 2004 980 101.2 25.4 779 0 0 0 n/a 0.0 0 0 19% 5 2005 971 105.0 26.2 786 0 0 0 n/a 0.0 0 0 19% 6 2006 954 93.6 22.9 799 0 0 n/a 0.0 0 0 21% 5 -yr Total 4605 n/a 171.9 2669 0 0 n/a 0.0 0 0 0 21% 5 -yr Ave. 921 145.6 34.4 533.8 n/a 0.0 n/a 0.0 0 n/a 0.0 0 n/a 27%   ToolKit Fiscal Riskmod NORM Risk IP No. of Ave. DvD. Ave. DvD. Interest FCCF FCCF 4h10C Year Year Inputs Inputs Totals DivDists per DvD. per Year Credit Use % Credit Use																		
5         2005         971         105.0         26.2         786         0         0         n/a         0.0         0         19%         6         2006         954         93.6         22.9         799         0         0         n/a         0.0         0         0         21%         5 -yr Total         4605         n/a         171.9         2669         0         0         n/a         0.0         0         0         0         0         5 -yr Ave.         921         145.6         34.4         533.8         n/a         0.0         n/a         0.0         0.0         n/a         27%           ToolKit Fiscal Riskmod Inputs Inputs Inputs Totals Div/Dists per DvD. per Year Credit Credit Use % Credit Use																		
6 2006 954 93.6 22.9 799 0 0 0 n/a 0.0 0 0 21% 5 -yr Total 4605 n/a 171.9 2669 0 0 n/a 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
5 -yr Total         4605         n / a         171.9         2669         0         0         n / a         0.0         0         0         n / a         27%           ToolKit         Fiscal Year         Riskmod Inputs         NORM         Risk IP Risk IP No. of Ave. DvD. Ave. DvD. Ave. DvD. Interest         FCCF FCF         FCCF FCCF         Credit LB C         FB C FB LB         DDC         Net FB C FB C         F																		
5 -yr Ave.         921         145.6         34.4         533.8         n/a         0.0         n/a         0.0         n/a         27%           ToolKit         Fiscal Year         Riskmod Inputs         NORM Risk IP No. of Ave. DvD. Ave. DvD. Ave. DvD. Interest         FCCF FCF         FCCF FCF         4h10C Verific Non-Slice Impacts of LB & FB CRACs and DDC Verific Non																		
ToolKit         Fiscal Year         Riskmod Inputs         NORM Inputs         Risk IP No. of Ave. DvD. Ave. DvD. Per Year         Interest Credit         FCCF Use With Credit         FCCF Use With Credit         Hond Inputs Use With Credit         Non-Slice Impacts of LB & FB CRACs and DDC		•																
Year         Year         Inputs         Inputs         Totals         DivDists         per DvD.         per Year         Credit         Use %         Credit         LB C         FB C         FB + LB         DDC         Net         Freqncy           0.0         0.0         0.0         0.0         n/a         n/a <td></td> <td>0 CD CD A</td> <td>Co and DDC</td> <td></td> <td>EB CBAC</td>															0 CD CD A	Co and DDC		EB CBAC
0.0 0.0 0.0 0.0 0.0 n/a n/a n/a 0.0 n/a n/a n/a n/a n/a 1.2 2002    2 2002 -90.9 -7.9 -98.8 n/a n/a n/a 47.6 n/a n/a n/a n/a 51% 10% 61% 61% 32% 32% 3 2003 -229.3 -9.3 -238.6 492 333.9 42.1 67.2 n/a n/a n/a n/a 24% 1% 25% 4% 21% 12% 4 2004 -132.3 -9.2 -141.5 1053 431.1 116.4 73.3 n/a n/a n/a n/a 21% 2% 23% 10% 13% 25% 5 2005 -87.4 -9.2 -96.7 1887 453.5 219.4 74.6 n/a n/a n/a n/a 19% 3% 21% 18% 3% 25% 6 2006 -107.7 -9.3 -117.0 1805 329.2 152.4 69.8 n/a n/a n/a n/a 19% 3% 21% 12% 11% 24% 5 -yr Total -647.7 -44.9 -692.5 5237 n/a 530.3 332.5 n/a n/a n/a n/a n/a																		
2 2002 -90.9 -7.9 -98.8 n/a n/a n/a 47.6 n/a n/a n/a n/a 51% 10% 61% 61% 32% 32% 3 2003 -229.3 -9.3 -238.6 492 333.9 42.1 67.2 n/a n/a n/a n/a 24% 1% 25% 4% 21% 12% 4 2004 -132.3 -9.2 -141.5 1053 431.1 116.4 73.3 n/a n/a n/a n/a 21% 2% 23% 10% 13% 25% 5 2005 -87.4 -9.2 -96.7 1887 453.5 219.4 74.6 n/a n/a n/a n/a 19% 3% 21% 18% 3% 25% 6 2006 -107.7 -9.3 -117.0 1805 329.2 152.4 69.8 n/a n/a n/a n/a 19% 3% 21% 18% 3% 25% 5 -yr Total -647.7 -44.9 -692.5 5237 n/a 530.3 332.5 n/a n/a n/a n/a				•			-							FBC	LR + FR	DDC	ivet	Frequey
3 2003 -229.3 -9.3 -238.6 492 333.9 42.1 67.2 n/a n/a n/a n/a 24% 1% 25% 4% 21% 12% 4 2004 -132.3 -9.2 -141.5 1053 431.1 116.4 73.3 n/a n/a n/a n/a 21% 2% 23% 10% 13% 25% 5 2005 -87.4 -9.2 -96.7 1887 453.5 219.4 74.6 n/a n/a n/a n/a 19% 3% 21% 18% 3% 25% 6 2006 -107.7 -9.3 -117.0 1805 329.2 152.4 69.8 n/a n/a n/a n/a 21% 2% 24% 12% 11% 24% 5 -yr Total -647.7 -44.9 -692.5 5237 n/a 530.3 332.5 n/a n/a n/a n/a																		
4 2004 -132.3 -9.2 -141.5 1053 431.1 116.4 73.3 n/a n/a n/a n/a 21% 2% 23% 10% 13% 25% 5 2005 -87.4 -9.2 -96.7 1887 453.5 219.4 74.6 n/a n/a n/a n/a 19% 3% 21% 18% 3% 25% 6 2006 -107.7 -9.3 -117.0 1805 329.2 152.4 69.8 n/a n/a n/a n/a 21% 2% 24% 12% 11% 24% 5 -yr Total -647.7 -44.9 -692.5 5237 n/a 530.3 332.5 n/a n/a n/a n/a																		
5 2005 -87.4 -9.2 -96.7 1887 453.5 219.4 74.6 n/a n/a n/a 19% 3% 21% 18% 3% 25% 6 2006 -107.7 -9.3 -117.0 1805 329.2 152.4 69.8 n/a n/a n/a 19% 21% 2% 24% 12% 11% 24% 5 -yr Total -647.7 -44.9 -692.5 5237 n/a 530.3 332.5 n/a n/a n/a												n/a						
6 2006 -107.7 -9.3 -117.0 1805 329.2 152.4 69.8 n/a n/a n/a 21% 2% 24% 12% 11% 24% 5 -yr Total -647.7 -44.9 -692.5 5237 n/a 530.3 332.5 n/a n/a n/a			-132.3	-9.2	-141.5	1053	431.1	116.4	73.3	n/a	n/a	n/a	21%	2%	23%	10%	13%	
5 -yr Total -647.7 -44.9 -692.5 5237 n/a 530.3 332.5 n/a n/a n/a	5	2005	-87.4	-9.2	-96.7	1887	453.5	219.4	74.6	n/a	n/a	n/a	19%	3%	21%	18%	3%	25%
	6	2006	-107.7	-9.3	-117.0	1805	329.2	152.4	69.8	n/a	n/a	n/a	21%	2%	24%	12%	11%	24%
5 -yr Ave129.5 -9.0 -138.5 1047.4 394.9 106.1 66.5 n/a n/a n/a 27% 4% 31% 9% 22% 24%	5	-yr Total	-647.7	-44.9	-692.5	5237	n/a	530.3	332.5	n/a	n/a	n/a						
	5	-yr Ave.	-129.5	-9.0	-138.5	1047.4	394.9	106.1	66.5	n/a	n/a	n/a	27%	4%	31%	9%	22%	24%

ToolKit	v. 1.47,	(6-12-20	001)		Study title:	6-12-0		W Slice, \$14 Reduction.	48/MWh, No	o Load		RiskModFi	le2 (the unca	apped one):			
Time of ru				5	-yr TPP =	85.7%						C:\My Dox	A Risky Bus	iness\Final 2	2002 ROD\R	evSim0608	_S1600_FY(
Inputs	Riskmod:	RM_Merge	d_0608_S1	600_\$148_	LR0.xls								Sep augm a	ssumpt'n	1375		
	NORM:	NORM_Mix	Prob_Final	_Proposal_	<mark>77-37%_</mark> ou	tputs.xls							Additional lo	ad	-1338.4		
Files =>	Prior TK:	Prior_Toolk	Kit_2001_06	0801_2nd0	Rev_NoFlo	oor.xls							Total		36.6		
Start in	Stop in	Random	St. Rsrv.	Access	Random	St. FCCF	Access	CRAC	Slice frac.	CP CRAC	Tx Surch		\$38	Price for IO	U Fin. Settle	emt.	
TK Year	TK Year	St. Rsrv.	Balance	FCCF?	St. FCCF	Balance	4h10C?	Lim/Total	for CRAC	On (>0)	Threshold		2.80%	Network los	ss percentag	е	
2	6	TRUE	300	FALSE	TRUE	162.5	FALSE	20,000	23.69%	0	300		22.63%	Slice Fracti	on of Systen	n	
Start TPP	"Small"	FishRisk	No. of	Ave PF	Debug	Reserves	AutoPrint	AutoPrint	Use Adj.	Enable	LB CRAC		23.69%	Slice Fracti	on of Load		
in TK Yr	Def. Size	in RM?	Iterations	Base Rt	Level	Graph	Res Grph	This Page	CRAC	OnTheFly	Scaling		1,600	Slice Load			
2	\$20	TRUE	3900	21.7	0	~					100%		1600	Default Slic	e Load Amt.		
ToolKit	Fiscal	Probabi-	Treasury	Amort	Interest	Interest	CRAC	CRAC	Tx Surch.	Div. Dist.	Div.Dist		7	How Slicers	s participate	in FB CRAC	
Year	Year	listic?	Int. Rate	Sched	Sched	Cr. Sched	Threshold	Lim/Year	Lim/Year	Threshold	Lim/Year		(1: There ar	e no Slicers	)		
1	2001	TRUE	7.39%	163.0	521.7	65.4		50	0				(2: Load-ba	sed share of	FB CRAC)		
2	2002	TRUE	6.82%	107.4	315.5	61.0	300	1000	0		20,000		(3: Pseudo-	CRAC [\$ & I	MW true-up	in FB CRAC	vears])
3	2003	TRUE	6.78%	73.0	323.0		300	135	0	1,700	20,000				rue up instea		, ,,
4	2004	TRUE	6.92%	93.0	334.4		500	150	0	1,500	20,000				-22-01, CRA		e-up)
5	2005	TRUE	6.90%	148.1	345.3		500	150	0	1,200	20,000				-22-01, CRA		
6	2006	TRUE	6.90%	128.5	348.3	84.7	500	175	0	1,200	20,000				settlement		uo up)
ToolKit	Fiscal	Internal	0.0070		LB CRAC		LB CRAC					Rem Aug			FB CRAC		
Year		Cash Flow			Non-Slice	Slice	Price	U		Thr. Type					Rev Basis		
1	2001	190.6	0.0	100 ψ	14011 Olloc	0	0			Till. Type	to power	Q (aivivv)	0031	TCV Dasis	TYCY Dasis		
2	2002	21.6	0.0	-60.4	1,193.0		138.4	138.4	1	0	0		1,649.5	1,371.1	991.7		
3	2003	57.7		-60.4	464.0		74.9	74.9	1	0			631.5	1,430.5			
4	2003	33.6		-60.4	342.6		44.3	44.3	1	0			454.0	1,547.2			
5	2004	0.0		-60.4	344.5		47.3	47.3	1	0			455.7	1,554.8			
5 6	2005	0.0		-60.4	372.5		47.3			0			491.5	1,566.3			
	2006	0.0		-60.4	372.5	119.1	47.0	47.0		0	0		491.5	1,566.3	1,186.9		
Outputs	Fiscal	No. of	"Small"	1 11000	Cumul	Cumul	Ave. Def.	Ave. Def.	Ava 1st	Ave. End.	On the Fly						
ToolKit	Fiscal			1-year	Cumul.	Cumul.					•		1				
Year	Year		Deferrals	Probab.	Deferrals		per Year	•		Reserves	Adjustmt.						
0.0	0.0	0.0	- 40	1.0	n/a	n/a	0.0	n/a		0		Strt Bal					
2	2002	271	13	93%	271	93%	29.7	428.1	428.1	1,387	-	429.0					
3	2003	274	17	93%	350	91%	30.0	426.7	154.6	1,534	-	5005					
4	2004	293	3	92%	418	89%	32.6	433.7	156.2	1,454	-	FCCF					
5	2005	298	13	92%	480	88%	33.8	442.9		1,285	-	Strt Bal					
6	2006	317	14	92%	558	86%	32.3	397.7	147.3	1,087	-	n/a					
	-yr Total	1453	60	n/a	n/a		158.5	n/a		n/a	-						
	-yr Ave.	290.6	12	n/a	n/a		31.7	425.4	289.3	n/a			•				
ToolKit	Fiscal					CRAC Tot.	•	Av. Slice		TxS Ann.							
Year		Accesses	per Acc.	•		Lim Rchd		per Acc.	per Year		Lim Rchd						
0.0	0.0	0	n/a	0.0	0		0	n/a	0.0	0	0						
2	2002	1248	273.4	87.5	0		0	n/a	0.0	0	0						
3	2003	370	93.2	8.8	306		0	n/a	0.0	0	0						
4	2004	632	104.3	16.9	520	0	0	n/a	0.0	0	0						
5	2005	648	101.8	16.9	518	0	0	n/a	0.0	0	0						
6	2006	674	92.0	15.9	563	0	0	n/a	0.0	0	0						
5	-yr Total	3572	n/a	146.0	1907	0	0	n/a	0.0	0	0						
5	-yr Ave.	714.4	159.5	29.2	381.4	n/a	0.0	n/a	0.0	0.0	n/a	51%					
ToolKit	Fiscal	Riskmod	NORM	Risk IP	No. of	Ave. DvD.	Ave. DvD.	Interest	FCCF	FCCF	4h10C	Non-Slice I	Impacts of LI	3 & FB CRA	Cs and DDC	;	FB CRAC
Year	Year	Inputs	Inputs	Totals		per DvD.		Credit	Credit	Use %	Credit						
0.0	0.0	0.0	0.0	0.0	n/a	•	n/a	0.0	n/a	n/a	n/a						
2	2002	-740.0	-7.9	-747.8	n/a		n/a	60.5		n/a			9%	129%	)	129%	32%
3	2003	-433.3	-9.3	-442.5	1270		207.7	97.0	n/a	n/a	n/a					28%	9%
4	2004	-296.3	-9.2	-305.5	1993		288.6	99.5	n/a	n/a	n/a					9%	16%
	2007															6%	17%
5	2005	-276.7	-9.2	-285 a	2547	5186		ui n	n/a								
5 6	2005	-276.7 -293.6	-9.2 -9.3	-285.9 -302.9	2547 2115		338.7 177.9	90.5 77.8		n/a	n/a						
6	2006	-293.6	-9.3	-302.9	2115	328.1	177.9	77.8	n/a	n/a	n/a	31%				20%	17%
6 5						328.1 n/a		77.8 425.2	n/a n/a	n/a n/a	n/a n/a	31%	1%	33%	13%		

ToolKit	v. 1.47b	o, (6-12-2	2001)		Study title:	6-12-0	1, 1600 aM\	W Slice, \$14 Reduction.	l8/MWh, 75	0 Load		RiskModFi	e2 (the unca	apped one):			
Time of ru				5	-yr TPP =	85.7%						C:\My Dox\	A Risky Bus	iness\Final 2	2002 ROD\R	evSim0608	_S1600_FY0
Inputs	Riskmod:	RM_Merge	d_0608_S1	600_\$148_	LR750_Rev	v1.xls							Sep augm a	ssumpt'n	1375		
		NORM_Mix											Additional lo	ad .	-1338.4		
Files =>		Prior Toolk											Total		36.6		
Start in	Stop in				Random		Access	CRAC	Slice frac.	CP CRAC	Tx Surch			Price for IO	U Fin. Settle	mt.	
TK Year		St. Rsrv.	Balance		St. FCCF		4h10C?		for CRAC		Threshold		2.80%		s percentag		
2	6	TRUE	300	FALSE	TRUE		FALSE	20,000	23.69%	0	300				on of System		
Start TPP	"Small"	FishRisk	No. of	Ave PF	Debug	Reserves	AutoPrint	AutoPrint	Use Adj.	Enable	LB CRAC		23.69%	Slice Fracti			
in TK Yr	Def. Size	in RM?	Iterations	Base Rt	Level	Graph		This Page	CRAC	OnTheFly	Scaling		1,600	Slice Load	on or Loud		
2	\$20	TRUE	3900	21.7	0			Tills Fage			100%			Default Slic	a Load Δmt		
ToolKit	Fiscal	Probabi-	Treasury	Amort	Interest	<u> </u>	CRAC	CRAC		Div. Dist.	Div.Dist				s participate	in ED CDAC	
			-													III FB CRAC	,
Year	Year	listic?	Int. Rate	Sched		Cr. Sched	Inresnoid			Threshold	Lim/Year		,	e no Slicers	,		
1	2001	TRUE	7.39%	163.0	521.7			50					(2: Load-ba				
2	2002	TRUE	6.82%	107.4	315.5		300	1000	0		20,000		(3: Pseudo-				; years])
3	2003	TRUE	6.78%	73.0	323.0		300	135	0	1,700	20,000		(4: No FB C				
4	2004	TRUE	6.92%	93.0	334.4		500	150	0	1,500	20,000		(5: BPA Cou				
5	2005	TRUE	6.90%	148.1	345.3	79.8	500	150	0	1,200	20,000		(6: BPA Cou				true-up)
6	2006	TRUE	6.90%	128.5	348.3		500	175	0	1,200	20,000		(7: 2-2-01 p			talks	
ToolKit	Fiscal	Internal		Add'l	LB CRAC	Adj. C1	LB CRAC	Slice Aug	FB CRAC	FB CRAC	IOU \$	Rem Aug	Net Augm	LB CRAC	FB CRAC		
Year	Year	Cash Flow		IOU \$	Non-Slice	Slice	Price	Price	1st Month	Thr. Type	to power	Q (aMW)	Cost		Rev Basis		
1	2001	190.6	0.0			0	0	0.0	0								
2	2002	21.6		-60.4	547.7	245.5	138.4	138.4	1	0	0		793.2	1,225.9	846.5		
3	2003	57.7		-60.4	245.7	102.9	74.9	74.9	1	0			348.6	1,285.3			
4	2004	33.6		-60.4	209.7		44.3	44.3	1	0			287.6	1,401.6			
5	2005	0.0		-60.4	194.1		47.3	47.3	1	0			265.6	1,409.6			
6	2006	0.0		-60.4	223.0					0			304.3	1,421.1			
Outputs	2000	0.0		-00.4	220.0	01.2	47.0	47.0	<u> </u>	0	U		304.3	1,721.1	1,041.7		
ToolKit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Avo 1st	Ave. End.	On-tho-Fly						
			Deferrals	Probab.								Ave Rsrvs	Ī				
Year	Year						•	•			Aujustini.						
0.0	0.0	0.0	-	1.0	n/a	n/a	0.0	n/a		0		Strt Bal					
2	2002	270	12	93%	270	93%	29.7	429.3	429.3	1,387	-	429.0					
3	2003	274	17	93%	350	91%	29.9	426.1	152.5	1,534	-	====					
4	2004	293	4	92%	418	89%	32.5	433.1	155.8	1,454	-	FCCF					
5	2005	297	12	92%	480	88%	33.8	443.9		1,285	-	Strt Bal					
6	2006	317	14	92%	558	86%	32.3	397.1	146.7	1,087	-	n/a					
5	-yr Total	1451	59	n/a	n/a	n/a	158.3	n/a	n/a	n/a	-						
5	-yr Ave.	290.2	12	n/a	n/a		31.7	425.4	288.9	n/a	-		_				
ToolKit	Fiscal	CRAC	Av. CRAC	Av. CRAC	CRAC Ann.	CRAC Tot.	Slice pmt.	Av. Slice	Av. Slice	TxS Ann.	TxS Total	Slice					
Year	Year	Accesses	per Acc.	per Year	Lim Rchd	Lim Rchd	Accesses	per Acc.	per Year	Lim Rchd	Lim Rchd	LB CRAC					
0.0	0.0	0	n/a	0.0	0	0	0	n/a	0.0	0	0						
2	2002	1248	273.4	87.5	0	0	0	n/a	0.0	0	0						
3	2003	370	93.1	8.8	306			n/a	0.0	0	0						
4	2004	632	104.2	16.9	520			n/a	0.0	0	0						
5	2005	647	101.9	16.9	518			n/a	0.0	0	0						
6	2006	674	92.0	15.9	563			n/a	0.0	0	0						
	-yr Total	3571	92.0 n/a	146.0	1907				0.0	0							
	•																
	-yr Ave.	714.2	159.5	29.2	381.4					0.0				0 6 6 6 6 6	C DDC	. 1	
ToolKit			NORM	Risk IP		Ave. DvD.		Interest	FCCF	FCCF			mpacts of LE				FB CRAC
Year	Year	Inputs	Inputs	Totals		per DvD.		Credit	Credit	Use %	Credit		FB C	FB + LB	DDC	Net	Freqncy
0.0	0.0	0.0	0.0	0.0	n/a		n/a	0.0	n/a	n/a	n/a						
2	2002	116.5	-7.9	108.6	n/a		n/a	60.5		n/a	n/a		10%			75%	32%
3	2003	-150.4	-9.3	-159.6	1270		207.7	97.0	n/a	n/a	n/a	27%	1%			9%	9%
4	2004	-129.9	-9.2	-139.1	1994	564.7	288.7	99.5	n/a	n/a	n/a	21%	2%	22%	24%	-2%	16%
5	2005	-86.6	-9.2	-95.8	2547	518.7	338.8	90.5	n/a	n/a	n/a	19%	2%	20%	28%	-7%	17%
6	2006	-106.3	-9.3	-115.6	2115	328.2	178.0	77.8	n/a	n/a	n/a	21%	2%	23%	14%	9%	17%
	-yr Total	-356.6	-44.9	-401.5	7926			425.3		n/a	n/a						
	-yr Ave.	-71.3	-9.0	-80.3					n/a				3%	34%	17%	17%	18%

ToolKit	v. 1.47,	(6-12-20	001)		Study title:	6-12-0		W Slice, \$22 Reduction.	25/MWh, No	o Load		RiskModFi	le2 (the unca	apped one):			
Time of ru	n: 23:16:01	on 6/12/01		5	-yr TPP =	88.3%						C:\My Dox	A Risky Bus	iness\Final 2	2002 ROD\R	evSim0608	_S1600_FY(
Inputs	Riskmod:	RM Merge	d_0608_S1	600 \$225	LR0.xls								Sep augm a		1375	_	_
•			Prob_Final			tputs.xls							Additional lo	•	-1338.4		
Files =>			(it 2001 06										Total		36.6		
Start in	Stop in	Random		Access			Access	CRAC	Slice frac.	CP CRAC	Tx Surch			Price for IO	U Fin. Settle	mt.	
TK Year		St. Rsrv.	Balance		St. FCCF		4h10C?		for CRAC		Threshold		2.80%		s percentag		
2			300	FALSE	TRUE		FALSE	20,000	23.69%	0	300				on of System		
Start TPP	"Small"	FishRisk	No. of	Ave PF	Debug	Reserves	AutoPrint	AutoPrint	Use Adj.	Enable	LB CRAC		23.69%	Slice Fraction		-	
in TK Yr	Def. Size	in RM?	Iterations	Base Rt	Level	Graph		This Page	CRAC	OnTheFly	Scaling		1,600	Slice Load	on or Loud		
2	\$20	TRUE	3900	21.7	0						100%			Default Slic	e Load Amt		
ToolKit	Fiscal	Probabi-	Treasury	Amort	Interest		CRAC	CRAC	Tx Surch.	Div. Dist.	Div.Dist				s participate	in ER CDAC	`
			•			Cr. Sched								e no Slicers		III B CIXAC	<u>,                                     </u>
Year	Year	listic?	Int. Rate	Sched			Threshold			Threshold	Lim/Year		,		,		
1	2001	TRUE	7.39%	163.0	521.7		000	50	0		00.000		(2: Load-ba			- FD 0D 40	
2	2002		6.82%	107.4	315.5		300	1000	0	4 700	20,000				<b>MW</b> true-up i		years])
3			6.78%	73.0	323.0		300	135	0	1,700					rue up instea		`
4	2004	TRUE	6.92%	93.0	334.4		500	150	0	1,500	20,000				-22-01, CRA		
5			6.90%	148.1	345.3		500	150	0	1,200					-22-01, CRA		true-up)
6			6.90%	128.5	348.3	84.7	500	175	0	1,200	20,000				settlement	alks	
ToolKit		Internal			LB CRAC	•	LB CRAC	U				Rem Aug	_		FB CRAC		
Year	Year	Cash Flow		IOU \$	Non-Slice	Slice	Price		1st Month	Thr. Type	to power	Q (aMW)	Cost	Rev Basis	Rev Basis		
1	2001	190.6	0.0			0	0	0.0	0								
2	2002	21.6		-60.4	1,770.9	677.6	138.4	138.4	1	0	0		2,448.5	1,371.1	991.7		
3	2003	57.7		-60.4	741.0	267.5	74.9	74.9	1	0	0		1,008.5	1,430.5			
4	2004	33.6		-60.4	342.6	111.3	44.3	44.3	1	0	0		454.0	1,547.2	1,167.8		
5	2005	0.0		-60.4	344.5	111.2	47.3	47.3	1	0	0		455.7	1,554.8			
6	2006	0.0		-60.4	372.5	119.1	47.6	47.6	1	0	0		491.5	1,566.3	1,186.9		
Outputs														, , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,		
ToolKit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	On-the-Flv						
Year	Year		Deferrals	Probab.	Deferrals					Reserves	•	Ave Rsrvs	1				
0.0	0.0		-	1.0	n/a	n/a	0.0	n/a	n/a	0	•	Strt Bal					
2	2002		1	92%	318	92%	56.8	696.5	696.5	2,027		429.0					
3	2003		3	94%	356	91%	50.6	802.0	222.1	2,326		120.0					
4	2004		10	93%	400	90%	50.1	749.2	201.7	1,842		FCCF					
5	2004		6	93%	429	89%	46.2	673.0	201.7	1,419		Strt Bal					
6	2005		10	94%	455	88%	39.7	626.6	106.7	1,419							
	-yr Total	1340	30	n/a	n/a		243.4	n/a	n/a	n/a		n/a	1				
	•		6														
	-yr Ave.	268		n/a	n/a		48.7	708.5	544.2	n/a		Clina	1				
ToolKit						CRAC Tot.	•	Av. Slice	Av. Slice	TxS Ann.		Slice					
Year		Accesses	per Acc.	•		Lim Rchd		per Acc.	per Year		Lim Rchd						
0.0	0.0		n/a	0.0	0		0	n/a	0.0	0							
2	2002		273.4	87.5	0			n/a	0.0	0							
3	2003		96.5	9.6	344		0	n/a	0.0	0							
4	2004	434	107.4	11.9	379	0		n/a	0.0	0							
5	2005		108.2	11.7	379	0		n/a	0.0	0							
6	2006	454	93.3	10.9	394	0		n/a	0.0	0							
5	-yr Total	2948	n/a	131.7	1496	0	0	n/a	0.0	0	0						
5	-yr Ave.	589.6	174.2	26.3	299.2	n/a	0.0	n/a	0.0	0.0							
ToolKit	Fiscal	Riskmod	NORM	Risk IP	No. of	Ave. DvD.	Ave. DvD.	Interest	FCCF	FCCF	4h10C	Non-Slice	Impacts of LI	B & FB CRA	Cs and DDC		FB CRAC
TOOHAIL	i iscai	Miskinou					nor Voor	Crodit	Credit	Use %	Credit	LB C	FB C	FB + LB	DDC		
Year			Inputs	Totals	DivDists	per DvD.	per rear	Credit	Cieuit	056 %	Oroan			I D T LD	טטט	Net	Freqncy
		Inputs		Totals 0.0	DivDists n / a	•	n/a	0.0	n/a	n/a				10+60	DDC	Net	Freqncy
Year 0.0	Year 0.0	Inputs 0.0	Inputs			n/a	•				n/a					Net 187%	Frequery 32%
Year 0.0 2	Year 0.0	Inputs 0.0 -945.8	Inputs 0.0	0.0	n/a	n/a n/a	n/a	0.0	n/a	n/a	n/a n/a	179%	9%	187%			
Year 0.0 2 3	Year 0.0 2002 2003	Inputs 0.0 -945.8 -474.8	0.0 -7.9 -9.3	0.0 -953.6 -484.1	n/a n/a 2346	n/a n/a 1108.8	n/a n/a 667.0	0.0 80.7 147.0	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	179% 71%	9% 1%	187% 71%	55%	187% 17%	32% 10%
Year 0.0 2 3 4	Year 0.0 2002 2003 2004	Inputs 0.0 -945.8 -474.8 -293.1	Inputs 0.0 -7.9 -9.3 -9.2	0.0 -953.6 -484.1 -302.3	n / a n / a 2346 2902	n/a n/a 1108.8 949.6	n/a n/a 667.0 706.6	0.0 80.7 147.0 137.9	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	179% 71% 29%	9% 1% 1%	187% 71% 30%	55% 53%	187% 17% -22%	32% 10% 11%
Year 0.0 2 3 4 5	Year 0.0 2002 2003 2004 2005	Inputs 0.0 -945.8 -474.8 -293.1 -274.9	9.2 Inputs 0.0 -7.9 -9.3 -9.2	0.0 -953.6 -484.1 -302.3 -284.1	n / a n / a 2346 2902 3089	n/a n/a 1108.8 949.6 555.5	n/a n/a 667.0 706.6 440.0	0.0 80.7 147.0 137.9 104.7	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	179% 71% 29% 29%	9% 1% 1% 1%	187% 71% 30% 30%	55% 53% 32%	187% 17% -22% -2%	32% 10% 11% 11%
Year 0.0 2 3 4 5	Year 0.0 2002 2003 2004 2005 2006	Inputs 0.0 -945.8 -474.8 -293.1 -274.9	Inputs 0.0 -7.9 -9.3 -9.2 -9.2	0.0 -953.6 -484.1 -302.3 -284.1 -301.5	n / a n / a 2346 2902 3089 2336	n/a n/a 1108.8 949.6 555.5 327.9	n/a n/a 667.0 706.6 440.0 196.4	0.0 80.7 147.0 137.9 104.7 83.3	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	179% 71% 29% 29% 31%	9% 1% 1% 1%	187% 71% 30% 30%	55% 53% 32%	187% 17% -22%	32% 10% 11%
Year 0.0 2 3 4 5 6	Year 0.0 2002 2003 2004 2005	Inputs 0.0 -945.8 -474.8 -293.1 -274.9	9.2 Inputs 0.0 -7.9 -9.3 -9.2	0.0 -953.6 -484.1 -302.3 -284.1	n / a n / a 2346 2902 3089	n/a n/a 1108.8 949.6 555.5 327.9 n/a	n/a n/a 667.0 706.6 440.0 196.4 2010.0	0.0 80.7 147.0 137.9 104.7 83.3 553.6	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	179% 71% 29% 29% 31%	9% 1% 1% 1% 1%	187% 71% 30% 30% 32%	55% 53% 32% 14%	187% 17% -22% -2%	32% 10% 11% 11%

Inputs   Riskmod:   NORM:   NORM:   NORM   NORM   NORM   NORM   NORM   NORM:   Prior TK:   Prior ToolKit 2001 060801 2ndQRev_NoFloor.xls      Start in   Stop in   TK Year   TK Year   St. Rsrv.   Balance   FCCF?   St. FCCF   Balance   Hollow:	Separation   Sep
NORM_MikProb_Final_Proposal_77-37%_outputs_xts	Additional load   Continue   Co
NORM_MixProb_Final_Proposal_77-37%_outputs_xis	Additional load   Continue   Co
Start in   Stop in   Random   St. Rsrv.   Random   R	Solid   2ndQRev_NoFloor.xls   Access   Random St. FCCF   Access   CRAC   CP CRAC   On (>0)   Threshold   FCCF   St. FCCF   Balance   FALSE   TRUE   162.5   FALSE   20,000   23.69%   0   300   300   Ave PF   Debug   Base Rt   Level   Graph   Reserves   Reserves   AutoPrint   AutoPrint   Use Adj.   Enable   Level   Graph   Reserves   CRAC   CRAC   Tx Surch   Div. Dist   Div. Dist   Div. Dist   CF. Sched   Sched   CF. Sched   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Yea
Start in   Stop in   Random   St. Rsrv.   Access   Random   St. FCCF   Access   CRAC   Sticle frac.   CP CRAC   Tx Surch   Cn (so)   Threshold   Tx Surch   CRAC   St. FCCF	Access   Random St. FCCF   Access   CRAC   Slice frac.   CP CRAC   Tx Surch   FCCF?   St. FCCF   Balance   4h10C?   Lim/Total   for CRAC   On (>0)   Threshold   CRAC   St. FCCF   Balance   Ah10C?   Lim/Total   for CRAC   On (>0)   Threshold   CRAC   St. FCCF   Balance   Ah10C?   Lim/Total   FALSE   TRUE   162.5   FALSE   20,000   23.69%   0   300
TK Year	FCCF? St. FCCF Balance
Start TPP   Small*   FishRisk   No. of   Ave PF   Debug   Reserves   AutoPrint   Use Adj.   Enable   LB CRAC   C	FALSE   TRUE   162.5   FALSE   20,000   23.69%   0   300   300   Ave PF   Debug   Reserves   AutoPrint   AutoPrint   AutoPrint   Use Adj.   Enable   Level   Graph   Res Grph   This Page   CRAC   OnTheFly   Scaling   21.7   0   □   □   □   □   100%   1600   Slice Load   1600   Slice Load Amt.   1600   Default Slice Load Amt.
Start TPP   "Small"   FishRisk   No. of in RM"   Iterations   Base Rt   Level   Graph   Reserves   Graph   Reserves   AutoPrint   AutoPrint   AutoPrint   AutoPrint   CRAC   OnTheFly   Scaling   1600   Slice Load   1,600   Slice Load   1,6	Ave PF   Base Rt   Level   Graph   Reserves   Graph   Res Grph   This Page   CRAC   OnTheFly   Scaling   100%
In TK Yr   Def. Size   in RM?   Iterations   Base Rt   Level   Graph   Res Grph   This Page   CRAC   OnTheFly   Scaling   100%   100%   1600   Default Size Load Amt.	Base Rt   Level   Graph   Res Grph   This Page   CRAC   OnTheFly   Scaling   100%
ToolKit   Fiscal   Probabi   Treasury   Amort   Interest   Interest   CRAC   CRAC   Tx Surch.   Div. Dist.   Div. Dist.   Div. Dist.   The participate in FB (1)   The participate in FB (2)   The participate in FB (2)   The participate in FB (3)   The participate in FB (2)   The participate in FB (3)   The participate in FB (3)   The participate in FB (4)   The participate in FB (3)   The participate in FB (4)   The participate in FB (5)   The participate in FB (6)   The participate in FB (7)   The p	21.7   0   E
ToolKit   Fiscal   Probabi   Treasury   Amort   Interest   Interest   CRAC   CRAC   Tx Surch.   Div. Dist.   Div. Dist. D	Amort   Interest   Interest   CRAC   CRAC   Tx Surch.   Div. Dist.   Div. Dist.   Div. Dist.   Sched   Sched   Cr. Sched   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Threshold   Lim/Year   Lim/Yea
Year   Year   Iistic?   Int. Rate   Sched   Sched   Cr. Sched   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Lim/Year   Threshold   Lim/Year	Sched   Sched   Cr. Sched   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Lim/Year   Threshold   Lim/Year   Lim/Year   Lim/Year   Lim/Year   Lim/Year   Lim/Year   Threshold   Lim/Year
1	163.0   521.7   65.4   50   0
2 2002 TRUE 6.82% 107.4 315.5 61.0 300 1000 0 20,000 (3: Pseudo-CRAC [\$ & MW true-up in FB C C CRAC They true up in Standard (4: No FB CRAC; they true up in Sta	107.4 315.5 61.0 300 1000 0 20,000 (3: Pseudo-CRAC [\$ & MW true-up in FB CRAC years]) 73.0 323.0 67.5 300 135 0 1,700 20,000 (4: No FB CRAC; they true up instead) 93.0 334.4 75.0 500 150 0 1,500 20,000 (5: BPA CounterProp, 1-22-01, CRAC rev in true-up) 148.1 345.3 79.8 500 150 0 1,200 20,000 (6: BPA CounterProp, 1-22-01, CRAC rev not in true-up) 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 2-2-01 proposal from settlement talks  Add'l LB CRAC Adj. C1 LB CRAC Slice Aug FB CRAC FB CRAC IOU \$ Rem Aug Net Augm LB CRAC FB CRAC IOU \$ Non-Slice Slice Price Ist Month Thr. Type to power Q (aMW) Cost Rev Basis Rev Basis
3 2003 TRUE 6.78% 73.0 323.0 67.5 300 135 0 1,700 20,000 (4: No FB CRAC; they true up instead) 4 2004 TRUE 6.92% 93.0 334.4 75.0 500 150 0 1,500 20,000 (5: BPA CounterProp, 1-22-01, CRAC rev in 5 2005 TRUE 6.90% 148.1 345.3 79.8 500 150 0 1,200 20,000 (6: BPA CounterProp, 1-22-01, CRAC rev in 6 2006 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 22-201 proposal from settlement talks in 5 2005 TRUE 6.90% 128.5 348.3 34.1 138.4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	73.0 323.0 67.5 300 135 0 1,700 20,000 (4: No FB CRAC; they true up instead) 93.0 334.4 75.0 500 150 0 1,500 20,000 (5: BPA CounterProp, 1-22-01, CRAC rev in true-up) 148.1 345.3 79.8 500 150 0 1,200 20,000 (6: BPA CounterProp, 1-22-01, CRAC rev not in true-up) 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 2-2-01 proposal from settlement talks  Add'l LB CRAC Adj. C1 LB CRAC Slice Aug FB CRAC FB CRAC IOU \$ Rem Aug IOU \$ Non-Slice Slice Price Price 1st Month Thr. Type to power Q (aMW)
A   2004   TRUE   6.92%   93.0   334.4   75.0   500   150   0   1,500   20,000   (5: BPA CounterProp, 1-22-01, CRAC revision for the counter property of the counter propert	93.0 334.4 75.0 500 150 0 1,500 20,000 (5: BPA CounterProp, 1-22-01, CRAC rev in true-up) 148.1 345.3 79.8 500 150 0 1,200 20,000 (6: BPA CounterProp, 1-22-01, CRAC rev not in true-up) 128.5 348.3 84.7 500 175 0 1,200 20,000 (7: 2-2-01 proposal from settlement talks  Add'l LB CRAC Adj. C1 LB CRAC Slice Aug FB CRAC FB CRAC IOU \$ Rem Aug Q (aMW) Cost Rev Basis Rev Basis  0 0 0 0.0 0  -60.4 738.6 331.1 138.4 138.4 1 0 0 0 1,069.7 1,225.9 846.5 -60.4 335.4 140.5 74.9 74.9 1 0 0 0 475.8 1,285.3 905.9 -60.4 209.7 77.9 44.3 44.3 1 0 0 0 287.6 1,401.6 1,022.2 -60.4 194.1 71.5 47.3 47.3 1 0 0 0 265.6 1,409.6 1,030.1 -60.4 223.0 81.2 47.6 47.6 1 0 0 0 304.3 1,421.1 1,041.7
ToolKit   Fiscal   Internal   Add'  LB CRAC   Adj. C1 LB CRAC   Slice   Aug   FB CRAC   FB CRAC   Three   Three   Three   ToolKit   Three   ToolKit   Three   ToolKit   Three   ToolKit	148.1         345.3         79.8         500         150         0         1,200         20,000         (6: BPA CounterProp, 1-22-01, CRAC rev not in true-up)           128.5         348.3         84.7         500         175         0         1,200         20,000         (7: 2-2-01 proposal from settlement talks)           Add'l LB CRAC IOU \$\infty\$ Non-Slice         Adj. C1 LB CRAC Slice Aug FB CRAC FB CRAC IOU \$\infty\$ to power to power IOU \$\infty\$ new power IOU \$\infty\$ new power IOU \$\infty\$ Rem Aug Q (aMW)         Net Augm Cost Rev Basis Rev Basis IOU \$\infty\$ Rev Basis IOU \$\
Countries   Coun	128.5         348.3         84.7         500         175         0         1,200         20,000         (7: 2-2-01 proposal from settlement talks)           Add'l LB CRAC IOU \$\infty\$ Non-Slice         Adj. C1 LB CRAC Slice Aug FB CRAC IOU \$\infty\$ FB CRAC IOU \$\infty\$ Rem Aug Call \$\infty\$ Rem Aug Call \$\infty\$ Rew Basis         Net Augm Call \$\infty\$ Rev Basis         LB CRAC FB CRAC Rev Basis           10U \$\infty\$ Non-Slice         Slice Price Price 1st Month Thr. Type to power Oath \$\infty\$ to power Oath \$\infty\$ (all \$\infty\$)         Q (all \$\infty\$)         Net Augm Call \$\infty\$ Rev Basis         Rev Basis           -60.4         738.6         331.1         138.4         138.4         1         0         0         1,069.7         1,225.9         846.5           -60.4         335.4         140.5         74.9         74.9         1         0         0         475.8         1,285.3         905.9           -60.4         209.7         77.9         44.3         44.3         1         0         0         287.6         1,401.6         1,022.2           -60.4         194.1         71.5         47.3         47.3         1         0         0         265.6         1,409.6         1,030.1           -60.4         223.0         81.2         47.6         47.6         1
ToolKit   Fiscal   Internal   Add'  LB CRAC   Adj. C1 LB CRAC   Slice   Aug. FB CRAC	Add'l LB CRAC IOU \$ Non-Slice         Adj. C1 LB CRAC Slice Aug FB CRAC FB CRAC IOU \$ Rem Aug O (aMW)         Net Augm O (aMW)         LB CRAC Rev Basis         FB CRAC Rev Basis           -60.4         738.6         331.1         138.4         138.4         1 0 0 0         1,069.7         1,225.9         846.5           -60.4         335.4         140.5         74.9         74.9         1 0 0 0         287.6         1,401.6         1,022.2           -60.4         194.1         71.5         47.3         47.3         1 0 0 0         265.6         1,409.6         1,030.1           -60.4         223.0         81.2         47.6         47.6         1 0 0 0         304.3         1,421.1         1,041.7
Year         Year         Cash Flow         IOU \$ Non-Slice         Slice         Price         Price         1st Month         Thr. Type         to power         Q (aMW)         Cost         Rev Basis         Rev Basis           1         2001         190.6         0.0         0         0         0.0         0         0         0         1,069.7         1,225.9         846.5         331.1         138.4         138.4         1         0         0         475.8         1,285.3         905.9         905.9         42004         33.6         -60.4         209.7         77.9         44.3         44.3         1         0         0         287.6         1,401.6         1,022.2         1,030.1         1,030.1         1,030.1         1,030.1         1,030.1         1,030.1         1,030.1         1,030.1         1,041.7	IOU \$ Non-Slice         Slice         Price         Price of 1st Month         Thr. Type to power of 1st Month         Q (aMW)         Cost of Rev Basis         Rev Basis           -60.4         738.6         331.1         138.4         138.4         1         0         0         1,069.7         1,225.9         846.5           -60.4         335.4         140.5         74.9         74.9         1         0         0         475.8         1,285.3         905.9           -60.4         209.7         77.9         44.3         44.3         1         0         0         287.6         1,401.6         1,022.2           -60.4         194.1         71.5         47.3         47.3         1         0         0         265.6         1,409.6         1,030.1           -60.4         223.0         81.2         47.6         47.6         1         0         0         304.3         1,421.1         1,041.7
1 2001 190.6 0.0 0 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0	-60.4         738.6         331.1         138.4         138.4         1         0         0         1,069.7         1,225.9         846.5           -60.4         335.4         140.5         74.9         74.9         1         0         0         475.8         1,285.3         905.9           -60.4         209.7         77.9         44.3         44.3         1         0         0         287.6         1,401.6         1,022.2           -60.4         194.1         71.5         47.3         47.3         1         0         0         265.6         1,409.6         1,030.1           -60.4         223.0         81.2         47.6         47.6         1         0         0         304.3         1,421.1         1,041.7
2 2002 21.6	-60.4       738.6       331.1       138.4       138.4       1       0       0       1,069.7       1,225.9       846.5         -60.4       335.4       140.5       74.9       74.9       1       0       0       475.8       1,285.3       905.9         -60.4       209.7       77.9       44.3       44.3       1       0       0       287.6       1,401.6       1,022.2         -60.4       194.1       71.5       47.3       47.3       1       0       0       265.6       1,409.6       1,030.1         -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7
3 2003 57.7 -60.4 335.4 140.5 74.9 74.9 1 0 0 4475.8 1,285.3 905.9 4 2004 33.6 -60.4 209.7 77.9 44.3 44.3 1 0 0 0 287.6 1,401.6 1,022.2 5 2005 0.0 -60.4 194.1 71.5 47.3 47.3 1 0 0 0 265.6 1,409.6 1,030.1 6 2006 0.0 -60.4 223.0 81.2 47.6 47.6 1 0 0 304.3 1,421.1 1,041.7      Outputs	-60.4       335.4       140.5       74.9       74.9       1       0       0       475.8       1,285.3       905.9         -60.4       209.7       77.9       44.3       44.3       1       0       0       287.6       1,401.6       1,022.2         -60.4       194.1       71.5       47.3       47.3       1       0       0       265.6       1,409.6       1,030.1         -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7
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4       2004       33.6       -60.4       209.7       77.9       44.3       44.3       1       0       0       287.6       1,401.6       1,022.2         5       2005       0.0       -60.4       194.1       71.5       47.3       47.3       1       0       0       265.6       1,409.6       1,030.1         6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def. Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       n/a       0       Strt Bal	-60.4     209.7     77.9     44.3     44.3     1     0     0     287.6     1,401.6     1,022.2       -60.4     194.1     71.5     47.3     47.3     1     0     0     265.6     1,409.6     1,030.1       -60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
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Coutputs   Council   Cou	<u>-60.4 223.0 81.2 47.6 47.6 1 0 0 304.3 1,421.1 1,041.7</u>
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	94% 356 91% 50.5 801.0 221.3 2,326 - 93% 400 90% 50.1 748.2 201.1 1,843 - 93% 429 89% 46.2 672.0 208.0 1,419 - Strt Bal
	94%       356       91%       50.5       801.0       221.3       2,326       -         93%       400       90%       50.1       748.2       201.1       1,843       -       FCCF         93%       429       89%       46.2       672.0       208.0       1,419       -       Strt Bal         94%       455       88%       39.6       628.2       106.1       1,147       -       n / a
	94% 356 91% 50.5 801.0 221.3 2,326 - 93% 400 90% 50.1 748.2 201.1 1,843 - 93% 429 89% 46.2 672.0 208.0 1,419 - 94% 455 88% 39.6 628.2 106.1 1,147 - n/a n/a n/a 243.1 n/a n/a n/a -
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·	94% 356 91% 50.5 801.0 221.3 2,326 - 93% 400 90% 50.1 748.2 201.1 1,843 - 93% 429 89% 46.2 672.0 208.0 1,419 - 94% 455 88% 39.6 628.2 106.1 1,147 - 94% 455 88% 39.6 628.2 106.1 1,147 - 94% 455 88% 39.6 628.2 106.1 1,147 - 95
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0.0       0.0       0       n/a       0.0       0       n/a       0.0       87%       0       0       0       0       0       0       0       0       37%       0       0       0       0       0       0       0       0       37%       0       0       0       0       0       0       0       21%       0       0       0       0       0       0       0       19%       0       0       0       0       0       0       0       0       21%       0<	94% 356 91% 50.5 801.0 221.3 2,326 - 93% 400 90% 50.1 748.2 201.1 1,843 - FCCF 93% 429 89% 46.2 672.0 208.0 1,419 - Strt Bal 94% 455 88% 39.6 628.2 106.1 1,147 - n/a n/a n/a n/a n/a n/a 48.6 708.2 543.6 n/a - Av. CRAC CRAC Ann. CRAC Tot. Slice pmt. Av. Slice per Year Lim Rchd Lim Rchd Accesses per Acc. per Year Lim Rchd Lim R
0.0       0.0       0       n/a       0.0       0       0       n/a       0.0       87%       3       2003       389       96.4       9.6       344       0       0       n/a       0.0       0       0       0       37%       0       0       n/a       0.0       0       0       0       37%       0       0       0       0       0       0       21%       0       0       0       0       0       0       19%       0	94% 356 91% 50.5 801.0 221.3 2,326 -
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0.0       0.0       0       n/a       0.0       0       0       n/a       0.0       37%       0       0       0       0       0       0       0       0       0       0       0       0       37%       0       0       0       0       0       0       0       0       21%       0       0       0       0       0       0       0       0       19%       0	94% 356 91% 50.5 801.0 221.3 2,326 - 93% 400 90% 50.1 748.2 201.1 1,843 - FCCF 93% 429 89% 46.2 672.0 208.0 1,419 - Strt Bal 94% 455 88% 39.6 628.2 106.1 1,147 - n/a n/a n/a n/a n/a 243.1 n/a n/a n/a n/a n/a 48.6 708.2 543.6 n/a - Av. CRAC CRAC Ann. CRAC Tot. Slice pmt. Av. Slice Av. Slice TxS Ann. TxS Total per Year Lim Rchd Lim Rchd Accesses per Acc. per Year Lim Rchd 11.9 378 0 0 n/a 0.0 0 0 87% 11.9 378 0 0 n/a 0.0 0 0 0 21% 11.7 379 0 0 n/a 0.0 0 0 0 19% 131.6 1495 0 0 n/a 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0.0         0.0         0         n/a         0.0         0         0         n/a         0.0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         87%         3         2003         389         96.4         9.6         344         0         0         n/a         0.0         0         0         37%         0         0         0         0         0         37%         0         0         0         0         0         0         21%         0         0         0         0         0         0         21%         0         0         0         0         0         0         19%         0         0         0         0         0         0         0         0         19%         0 <td>94% 356 91% 50.5 801.0 221.3 2,326 -</td>	94% 356 91% 50.5 801.0 221.3 2,326 -
0.0         0.0         0         n/a         0.0         0         0         n/a         0.0         87%         3         2003         389         96.4         9.6         344         0         0         n/a         0.0         0         0         37%         0         0         0         0         0         37%         0         0         0         0         0         37%         0         0         0         0         0         0         21%         0         0         0         0         0         21%         0         0         0         0         0         0         0         19%         0 <td>94% 356 91% 50.5 801.0 221.3 2,326 -                                    </td>	94% 356 91% 50.5 801.0 221.3 2,326 -
0.0         0.0         0         n/a         0.0         0         0         n/a         0.0         37%         0         0         0         0         0         0         0         37%         0         0         0         0         0         0         37%         0         0         0         0         0         0         37%         0         0         0         0         0         21%         0         0         0         0         0         0         19%         0 <td>94% 356 91% 50.5 801.0 221.3 2,326 -                                    </td>	94% 356 91% 50.5 801.0 221.3 2,326 -
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0.0	94% 356 91% 50.5 801.0 221.3 2,326 -   FCCF   93% 400 90% 50.1 748.2 201.1 1,843 -   FCCF   Strt Bal   94% 455 88% 39.6 628.2 106.1 1,147 -   n/a   n/
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6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       N/a       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
5       2005 6 2006       0.0       -60.4 194.1 71.5 47.3 47.3 1 0 0 0 304.3 1,421.1 1,030.1 304.3 1,421.1 1,041.7         Coutputs         ToolKit Year Vear Deferrals Deferrals 0.0       Probab. Deferrals Probab. Deferrals Probab. Deferrals n/a       Probab. Deferrals N/a       Probab. Deferrals N/a       Deferrals N/a       Deferrals N/a       N/	-60.4     194.1     71.5     47.3     47.3     1     0     0     265.6     1,409.6     1,030.1       -60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
5       2005 6 2006       0.0       -60.4 194.1 71.5 47.3 47.3 1 0 0 0 304.3 1,421.1 1,030.1 304.3 1,421.1 1,041.7         Coutputs         ToolKit Year Vear Deferrals Deferrals 0.0       Probab. Deferrals Probab. Deferrals Probab. Deferrals n/a       Probab. Deferrals N/a       Probab. Deferrals N/a       Deferrals N/a       Deferrals N/a       N/	-60.4     194.1     71.5     47.3     47.3     1     0     0     265.6     1,409.6     1,030.1       -60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
5       2005   0.0	-60.4     194.1     71.5     47.3     47.3     1     0     0     265.6     1,409.6     1,030.1       -60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
5       2005   0.0	-60.4     194.1     71.5     47.3     47.3     1     0     0     265.6     1,409.6     1,030.1       -60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
5       2005 6 2006       0.0       -60.4 194.1 71.5 47.3 47.3 1 0 0 0 304.3 1,421.1 1,030.1 304.3 1,421.1 1,041.7         Coutputs         ToolKit Year Vear Deferrals Deferrals 0.0       Probab. Deferrals Probab. Deferrals Probab. Deferrals n/a       Probab. Deferrals N/a       Probab. Deferrals N/a       Deferrals N/a       Deferrals N/a       N/	-60.4     194.1     71.5     47.3     47.3     1     0     0     265.6     1,409.6     1,030.1       -60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
6       2006       0.0       -60.4       223.0       81.2       47.6       47.6       1       0       0       304.3       1,421.1       1,041.7         Outputs         ToolKit       Fiscal       No. of "Small"       1-year       Cumul.       Ave. Def.       Ave. Def.       Ave 1st       Ave. End. On-the-Fly         Year       Year       Deferrals       Probab.       Deferrals       Probab.       per Year       per Def.       Def./Def.       Reserves       Adjustmt.       Ave Rsrvs         0.0       0.0       -       1.0       n/a       n/a       0.0       n/a       0       Strt Bal	-60.4     223.0     81.2     47.6     47.6     1     0     0     304.3     1,421.1     1,041.7
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6. INVESTOR-OWNED UTILITY RESIDENTIAL EXCHANGE PROGRAM SETTLEMENT (NO DOCUMENTATION)