

2003 Safety-Net Cost Recovery Adjustment Clause
Final Proposal

Documentation for Chapter 7
SN CRAC Design

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R					
1	ToolKit v. 1.87, (6-20-2003)					Study title: SN-03 Final Study #1, No SNN BPA reserves																	
2	Time of run: 11:37:22 on 6-28-03					3 -yr TPP = 41.4%		All-BPA run															
3	Inputs													PBL data: RM_June19_Final.xls									
4	TBL data: TBL_MAY_PBLMC_TOOLKIT_Tx_RESERVES_DATA_5-29-03.xls															% Inc re		Original Thresholds					
5	Files => Prior TK:													FB+SN%		prev year		FB CRAC		DDC			
6	Start in	Stop in	Random Run	Type	Access	Random St.	FCCF	Access	PBL Wrkg	TBL Wrkg	PBL Strt.		New Def.	2004	12.07%	-5.04%	-265	735					
7	TK Year	TK Year	St. Rsv.	PBL	FCCF?	St. FCCF	Balance	4h10C?	Capital	Capital	ANR		Logic?	2005	9.30%	-0.02%	-299	401					
8	3	6	<input type="checkbox"/>	BPA	<input type="checkbox"/>	<input type="checkbox"/>	162.5	<input type="checkbox"/>	50	20	-637.8		<input type="checkbox"/>	2006	11.12%	1.46%	-299	401					
9	Start TPP	"Small"	No. of	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint	FB CRAC	Enable	SN CRAC	CRAC	Ave.	10.83%		05<=04?	% 05 >=04					
10	in TK Yr	Def. Size	Iterations	Rsrv Bal	Rsrv Bal	Level	Graph	Res Graph	This Page	Lim/Total	OnTheFly	Fixed?	Stats On?				FALSE	73.2%					
11	4	\$20	3000	(9)	197	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
12	Toolkit	Fiscal	Probabili-	Treasury	Amort	Interest	PBL Int.	TBL Int.	FB CRAC	FB CRAC	Div. Dist.	Div. Dist.	SN CRAC	SN CRAC	SN CRAC	SN CRAC	PBL Cash	TBL Cash					
13	Year	Year	stic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Threshold	Lim/Year	Threshold	Lim/Year	Threshold	Lim/Year	Deadband	Slope	Tmg Adj	Tmg Adj					
14	1	2001																					
15	2	2002	FALSE	5.73%					-386	1000				0									
16	3	2003	TRUE	5.73%	215.8	473.8	10.0	10.8	-408	0	993	20,000		0			13.5	4.2					
17	4	2004	TRUE	5.73%	244.3	506.4	22.0	20.0	-265	150	735	20,000	-374	320		0%	15.2	6.4					
18	5	2005	TRUE	5.73%	305.1	519.9	17.8	20.3	-299	150	401	20,000	-197	320		0%	9.6	6.4					
19	6	2006	TRUE	5.73%	277.4	542.5	5.8	23.9	-299	175	401	20,000	-150	320		0%	9.6	6.4					
20	Toolkit	Fiscal	Other	Back out	PBL Acc.	TBL Fed.	PBL Fed.	Other NR	Back out	FB CRAC	FB CRAC	FB CRAC	SN CRAC	OnTheFly	SN CRAC	FB CRAC	LB CRAC	Input					
21	Year	Year	Cash Adj	FB CRAC	to Cash	Int. Red.	Int. Red.	& Csh Adj	FB CRAC	1st Month	Thr. Type	Slice Frc.	Planned	Shape	Rev Basis	Rev Basis	Rev Basis	LB %					
22	1	2001																42.7%					
23	2	2002					0.0			1	0							35.2%					
24	3	2003			182.2	0.0	0.0		0.0	1	0	67.2%				798.2		26.75%					
25	4	2004	0.0	10.1	-65.1	19.5	0.0		92.2	1	0	63.7%	0	1.0	942.1	785.7	1,164.4	29.50%					
26	5	2005		0.1	-111.3	20.0	3.3		92.9	1	0	63.6%	0	1.0	970.9	814.9	1,193.6	29.70%					
27	6	2006		0.9	-65.3	20.2	5.7		101.1	1	0	64.2%	0	1.0	988.1	832.1	1,210.9	29.70%					
28	Outputs													< - - - - Cash-only adjustments - - - - >		< - Cash & NR adjustments - >		0		*** below: approx. rate impact			
29	Toolkit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	OnTheFly	BPA	Total PBL	Forecasted Range of Tot. Rate							
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Adjustmt.	Strt Bal	Net Rev	Increase Above FY 03 Level*	Maximum	Exp. Val.	Minumum				
31														188.0									
32																							
33	3	2003	0	-	100%	n/a	n/a	0.0	n/a	n/a	383.6	-605.8	-	FCCF	32.0								
34	4	2004	477	52	84%	477	84.1%	17.0	106.7	106.7	341.8	-589.4	-	Strt Bal	16.5	-5.0%	-5.04%	-12.4%					
35	5	2005	1297	67	57%	1,307	56.4%	121.4	280.9	177.5	125.3	-724.3	-	n/a	-134.9	-3.4%	-5.05%	-11.4%					
36	6	2006	1698	52	43.4%	1,758	41.4%	249.7	441.1	154.6	-48.3	-856.4	-		-132.1	-2.0%	-3.67%	-11.3%					
37	4 -yr Total		3472	171	n/a	n/a	n/a	388.1	n/a	n/a	n/a	n/a	-	4-yr sum>	-218.6	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.				
38	4 -yr Ave.		868	43	n/a	n/a	n/a	97.0	335.3	152.4	n/a	n/a	-	5-yr sum>	-609.1	-3.4%	-4.59%	-11.4%					
39	Toolkit	Fiscal	FB CRAC	FB CRAC	FB CRAC	FB CRAC	FB CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	FB CRAC	SN CRAC	Ave. FB	SN CRAC	FB CRAC	FB+LB+SN					
40	Year	Year	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Freqncy	Freqncy	+ SN	Std Dev.	Std Dev.	Std Dev.					
41																							
42																							
43	3	2003	0	n/a	0.0	0	0	0		0.0	0	0											
44	4	2004	3000	94.8	94.8	2912	0	0		0.0	0	0	100.0%	0.0%	94.8	0.0%	0.6%	0.4%					
45	5	2005	2582	88.0	75.8	2146	0	0		0.0	0	0	86.1%	0.0%	75.8	0.0%	4.4%	3.0%					
46	6	2006	2651	104.8	92.6	2256	0	0		0.0	0	0	88.4%	0.0%	92.6	0.0%	4.7%	3.2%					
47	4 -yr Total		8233	263.2	7314	0	0			0.0	0	0	3-Yr. Ave.	3-Yr. Ave.	263.2	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
48	4 -yr Ave.		2058.25	95.9	65.8	1828.5	0.0	0.0		0.0	0.0	0.0	91%	0%		0.0%	3.3%	2.2%					
49	Toolkit	Fiscal	PBL	TBL	Risk IP	No. of	Ave. DvD.	Ave. DvD.	PBL Int	TBL Int	FCCF	4h10C	E.V. Non-Slice Impacts of LB, FB & SN CRACs and DDC*										
50	Year	Year	Inputs	Inputs	Totals	DivDists	per DvD.	per Year	Credit	Credit	Use %	Credit	LB C	FB C	SN C	FB+LB+SN	DDC	Net					
51																							
52																							
53	3	2003	23.3	-22.4	0.9	0		0.0	18.6	14.6	n/a	n/a	42.7%	11.0%		42.7%	0.0%	46.2%					
54	4	2004	-83.3	-8.7	-92.0	0		0.0	27.0	16.3	n/a	n/a	35.2%	12.07%	0.0%	38.8%	0.0%	38.8%					
55	5	2005	-209.4	10.7	-198.7	0		0.0	13.2	17.3	n/a	n/a	26.75%	9.30%	0.0%	38.8%	0.0%	38.8%					
56	6	2006	-225.8	9.6	-216.2	0		0.0	1.2	18.8	n/a	n/a	29.50%	11.12%	0.0%	40.8%	0.0%	40.8%					
57	4 -yr Total		-495.2	-10.9	-506.0	0		0.0	60.0	67.0	n/a	n/a	< - - - - - Three-year average values - - - - - >										
58	4 -yr Ave.		-123.8	-2.7	-126.5	0		0.0	15.0	16.7	n/a	n/a	28.6%	10.8%	0.0%	39.5%	0.0%	39.5%					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R					
1	Toolkit v. 1.87, (6-20-2003)					Study title: SN-03 Final Study #2, Fixed, Flat SNN BPA reserves																	
2	Time of run: 11:39:54 on 6-28-03					3 -yr TPP = 80.0%		All-BPA run															
3	Inputs													PBL data: RM_June19_Final.xls									
4	TBL data: TBL_MAY_PBLMC_TOOLKIT_Tx_RESERVES_DATA_5-29-03.xls															% Inc re		Original Thresholds					
5	Files => Prior TK:													FB+SN%		prev year		FB CRAC		DDC			
6	Start in	Stop in	Random Run	Type	Access	Random St.	FCCF	St. FCCF	Balance	Access	PBL Wrkg	TBL Wrkg	PBL Strt.	ANR	New Def.	2004	30.54%	6.44%	-265	735			
7	TK Year	TK Year	St. Rsv.	PBL	FCCF?	St. FCCF			162.5	4h10C?	50	20	-637.8	Logic?	2005	30.64%	1.53%	-299	401				
8	3	6	<input type="checkbox"/>	BPA	<input type="checkbox"/>	<input type="checkbox"/>								<input type="checkbox"/>	2006	30.63%	-0.03%	-299	401				
9	Start TPP	"Small"	No. of	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint	FB CRAC	Enable	SN CRAC	CRAC	Ave.	30.60%	05<=04? % 05 >=04							
10	in TK Yr	Def. Size	Iterations	Rsrv Bal	Rsrv Bal	Level	Graph	Res Graph	This Page	Lim/Total	OnTheFly	Fixed?	Stats On?	FALSE 57.5%									
11	4	\$20	3000	(9)	197	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
12	Toolkit	Fiscal	Probabi-	Treasury	Amort	Interest	PBL Int.	TBL Int.	FB CRAC	FB CRAC	Div. Dist.	Div. Dist.	SN CRAC	SN CRAC	SN CRAC	SN CRAC	PBL Cash	TBL Cash					
13	Year	Year	listic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Threshold	Lim/Year	Threshold	Lim/Year	Threshold	Lim/Year	Deadband	Slope	Tmg Adj	Tmg Adj					
14	1	2001																					
15	2	2002	FALSE	5.73%					-386	1000			0										
16	3	2003	TRUE	5.73%	215.8	473.8	10.0	10.8	-408	0	993	20,000	0			13.5	4.2						
17	4	2004	TRUE	5.73%	244.3	506.4	22.0	20.0	-265	150	735	20,000	-374	320		0%	15.2	6.4					
18	5	2005	TRUE	5.73%	305.1	519.9	17.8	20.3	-299	150	401	20,000	-197	320		0%	9.6	6.4					
19	6	2006	TRUE	5.73%	277.4	542.5	5.8	23.9	-299	175	401	20,000	-150	320		0%	9.6	6.4					
20	Toolkit	Fiscal	Other	Back out	PBL Acc.	TBL Fed.	PBL Fed.	Other NR	Back out	FB CRAC	FB CRAC	FB CRAC	SN CRAC	OnTheFly	SN CRAC	FB CRAC	LB CRAC	Input					
21	Year	Year	Cash Adj	FB CRAC	to Cash	Int. Red.	Int. Red.	& Csh Adj	FB CRAC	1st Month	Thr. Type	Slice Frc.	Planned	Shape	Rev Basis	Rev Basis	Rev Basis	LB %					
22	1	2001																42.7%					
23	2	2002					0.0			1	0							35.2%					
24	3	2003			182.2	0.0	0.0		0.0	1	0	67.2%				798.2		26.75%					
25	4	2004	-56.7	10.1	-65.1	19.5	0.0		92.2	1	0	63.7%	174	1.0	942.1	785.7	1,164.4	29.50%					
26	5	2005		0.1	-111.3	20.0	3.3		92.9	1	0	63.6%	233	1.0	970.9	814.9	1,193.6	29.70%					
27	6	2006		0.9	-65.3	20.2	5.7		101.1	1	0	64.2%	247	1.0	988.1	832.1	1,210.9	29.70%					
28	Outputs													< - - - Cash-only adjustments - - - >		< - Cash & NR adjustments - >		654		*** below: approx. rate impact			
29	Toolkit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	OnTheFly	BPA	Total PBL	Forecasted Range of Tot. Rate							
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Adjustmt.	Strt Bal	Net Rev	Increase Above FY 03 Level*	Maximum	Exp. Val.	Minumum				
31														188.0	w/ CRACs								
32																							
33	3	2003	0	-	100%	n/a	n/a	0.0	n/a	n/a	383.6	-605.8	-	FCCF	32.0								
34	4	2004	205	30	93%	205	93.2%	5.3	77.4	77.4	446.8	-408.6	-	Strt Bal	197.2	6.5%	6.44%	-0.9%					
35	5	2005	444	37	85%	468	84.4%	25.6	172.8	119.8	454.7	-315.0	-	n/a	93.5	11.5%	8.07%	3.5%					
36	6	2006	492	32	83.6%	601	80.0%	35.9	218.6	89.6	511.6	-217.6	-		97.4	13.5%	8.17%	4.3%					
37	4 -yr Total	1141	99	n/a	n/a	n/a	n/a	66.7	n/a	n/a	n/a	n/a	-	4-yr sum>	420.1	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
38	4 -yr Ave.	285.25	25	n/a	n/a	n/a	n/a	16.7	175.4	98.7	n/a	n/a	-	5-yr sum>	29.6	11.5%	7.56%	3.5%					
39	Toolkit	Fiscal	FB CRAC	FB CRAC	FB CRAC	FB CRAC	FB CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	FB CRAC	SN CRAC	Ave. FB	SN CRAC	FB CRAC	FB+LB+SN					
40	Year	Year	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Freqncy	Freqncy	+ SN	Std Dev.	Std Dev.	Std Dev.					
41																							
42																							
43	3	2003	0	n/a	0.0	0	0	0		0.0	0	0											
44	4	2004	3000	94.8	94.8	2912	0	3000	174.0	174.0	0	0	100.0%	100.0%	268.8	0.0%	0.6%	0.4%					
45	5	2005	2024	80.2	54.1	1369	0	3000	233.0	233.0	0	0	67.5%	100.0%	287.1	0.0%	5.4%	3.7%					
46	6	2006	1543	91.2	46.9	960	0	3000	247.0	247.0	0	0	51.4%	100.0%	293.9	0.0%	6.2%	4.2%					
47	4 -yr Total	6567	195.8	5241	0	9000		654.0	0	0	0	0	3-Yr. Ave.	3-Yr. Ave.	849.8	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
48	4 -yr Ave.	1641.75	89.5	49.0	1310.25	2250.0		163.5	0.0				73%	100%		0.0%	4.1%	2.8%					
49	Toolkit	Fiscal	PBL	TBL	Risk IP	No. of	Ave. DvD.	Ave. DvD.	PBL Int	TBL Int	FCCF	4h10C	E.V. Non-Slice Impacts of LB, FB & SN CRACs and DDC*										
50	Year	Year	Inputs	Inputs	Totals	DivDists	per DvD.	per Year	Credit	Credit	Use %	Credit	LB C	FB C	SN C	FB+LB+SN	DDC	Net					
51																							
52																							
53	3	2003	23.3	-22.4	0.9	0		0.0	18.6	14.6	n/a	n/a	35.2%	11.0%		46.2%	0.0%	46.2%					
54	4	2004	-83.3	-8.7	-92.0	0		0.0	33.7	16.3	n/a	n/a	25.05%	12.07%	18.5%	55.6%	0.0%	55.6%					
55	5	2005	-209.4	10.7	-198.7	8	47.7	0.1	30.4	17.3	n/a	n/a	27.34%	6.64%	24.0%	58.0%	0.0%	58.0%					
56	6	2006	-225.8	9.6	-216.2	83	58.4	1.6	31.0	18.8	n/a	n/a	27.49%	5.63%	25.0%	58.1%	0.2%	57.9%					
57	4 -yr Total	-495.2	-10.9	-506.0	91		1.7	113.8	67.0	n/a	n/a		< - - - - - Three-year average values - - - - - >										
58	4 -yr Ave.	-123.8	-2.7	-126.5	22.75	57.5	0.4	28.4	16.7	n/a	n/a		28.6%	8.1%	22.5%	57.2%	0.1%	57.2%					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R					
1	ToolKit v. 1.87, (6-20-2003)					Study title: SN-03 Final Study #3, BPA's Proposal: Variable, Flat SN CRAC, 80% TPP BPA reserves																	
2	Time of run: 11:42:55 on 6-28-03				3 -yr TPP =		80.0%		All-BPA run														
3	Inputs													PBL data: RM_June19_Final.xls									
4	TBL data: TBL_MAY_PBLMC_TOOLKIT_Tx_RESERVES_DATA_5-29-03.xls															% Inc re		Original Thresholds					
5	Files => Prior TK:													FB+SN%		prev year		FB CRAC		DDC			
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7	TK Year	TK Year	St. Rsvr.	PBL	FCCF?	St. FCCF	Balance	4h10C?	Capital	Capital	ANR		Logic?	2005	26.03%	1.22%	-299	401					
8	3	6	<input type="checkbox"/>	BPA	<input type="checkbox"/>	<input type="checkbox"/>	162.5	<input type="checkbox"/>	50	20	-637.8		<input type="checkbox"/>	2006	25.94%	0.19%	-299	401					
9	Start TPP	"Small"	No. of	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint	FB CRAC	Enable	SN CRAC	CRAC	Ave.	26.00%		05<=04?	% 05 >=04					
10	in TK Yr	Def. Size	Iterations	Rsrv Bal	Rsrv Bal	Level	Graph	Res Grp	This Page	Lim/Total	OnTheFly	Fixed?	Stats On?				FALSE	55.7%					
11	4	\$20	3000	(9)	197	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
12	Toolkit	Fiscal	Probabi-	Treasury	Amort	Interest	PBL Int.	TBL Int.	FB CRAC	FB CRAC	Div. Dist.	Div. Dist.	SN CRAC	SN CRAC	SN CRAC	SN CRAC	PBL Cash	TBL Cash					
13	Year	Year	listic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Threshold	Lim/Year	Threshold	Lim/Year	Threshold	Lim/Year	Deadband	Slope	Tmg Adj	Tmg Adj					
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15	2	2002	FALSE	5.73%					-386	1000			0										
16	3	2003	TRUE	5.73%	215.8	473.8	10.0	10.8	-408	0	993	20,000	0				13.5	4.2					
17	4	2004	TRUE	5.73%	244.3	506.4	22.0	20.0	-378	150	-363	20,000	-378	320		0%	15.2	6.4					
18	5	2005	TRUE	5.73%	305.1	519.9	17.8	20.3	-204	150	-189	20,000	-204	320		0%	9.6	6.4					
19	6	2006	TRUE	5.73%	277.4	542.5	5.8	23.9	-161	175	-146	20,000	-161	320		0%	9.6	6.4					
20	Toolkit	Fiscal	Other	Back out	PBL Acc.	TBL Fed.	PBL Fed.	Other NR	Back out	FB CRAC	FB CRAC	FB CRAC	SN CRAC	OnTheFly	SN CRAC	FB CRAC	LB CRAC	Input					
21	Year	Year	Cash Adj	FB CRAC	to Cash	Int. Red.	Int. Red.	& Csh Adj	FB CRAC	1st Month	Thr. Type	Slice Frc.	Planned	Shape	Rev Basis	Rev Basis	Rev Basis	LB %					
22	1	2001																42.7%					
23	2	2002					0.0			1	0							35.2%					
24	3	2003			182.2	0.0	0.0		0.0	1	0	67.2%				798.2		26.75%					
25	4	2004	-56.7	10.1	-65.1	19.5	0.0		92.2	1	0	63.7%	174	1.0	942.1	785.7	1,164.4	29.50%					
26	5	2005		0.1	-111.3	20.0	3.3		92.9	1	0	63.6%	233	1.0	970.9	814.9	1,193.6	29.70%					
27	6	2006		0.9	-65.3	20.2	5.7		101.1	1	0	64.2%	247	1.0	988.1	832.1	1,210.9	29.70%					
28	Outputs													< - - - Cash-only adjustments - - - >		< - Cash & NR adjustments - >		654		*** below: approx. rate impact			
29	Toolkit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	OnTheFly	BPA	Total PBL	Forecasted Range of Tot. Rate							
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Adjustmt.	Strt Bal	Net Rev	Increase Above FY 03 Level*	Maximum	Exp. Val.	Minumum				
31														188.0	w/ CRACs								
32																							
33	3	2003	0	-	100%	n/a	n/a	0.0	n/a	n/a	383.6	-605.8	-	FCCF	32.0								
34	4	2004	185	40	94%	185	93.8%	3.5	56.5	56.5	408.4	-451.4	-	Strt Bal	154.4	16.1%	3.57%	-13.3%					
35	5	2005	376	45	87%	408	86.4%	17.0	135.4	87.2	360.8	-414.3	-	n/a	34.1	17.1%	5.35%	-11.4%					
36	6	2006	447	57	85.1%	601	80.0%	21.6	144.9	68.3	350.9	-386.2	-		31.2	18.2%	5.52%	-11.3%					
37	4 -yr Total	1008	142	n/a	n/a	n/a	n/a	42.0	n/a	n/a	n/a	n/a	-	4-yr sum>	251.6	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
38	4 -yr Ave.	252	36	n/a	n/a	n/a	n/a	10.5	125.1	71.7	n/a	n/a	-	5-yr sum>	-138.9	17.1%	4.81%	-11.4%					
39	Toolkit	Fiscal	FB CRAC	FB CRAC	FB CRAC	FB CRAC	FB CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	FB CRAC	SN CRAC	Ave. FB	SN CRAC	FB CRAC	FB+LB+SN					
40	Year	Year	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Freqncy	Freqncy	+ SN	Std Dev.	Std Dev.	Std Dev.					
41																							
42																							
43	3	2003	0	n/a	0.0	0	0	0		0.0	0	0											
44	4	2004	2966	87.9	86.9	2287	0	2966	142.7	141.0	31	0	98.9%	98.9%	227.9	9.1%	2.6%	6.8%					
45	5	2005	2578	86.1	74.0	2031	0	2578	191.5	164.6	736	0	85.9%	85.9%	238.5	13.0%	4.4%	10.5%					
46	6	2006	2600	98.7	85.5	1885	0	2600	178.5	154.7	681	0	86.7%	86.7%	240.2	12.6%	5.1%	10.7%					
47	4 -yr Total	8144	246.4	6203	0	8144		8144	460.3	1448	0	3-Yr. Ave.	3-Yr. Ave.	706.7	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.						
48	4 -yr Ave.	2036	90.8	1550.75	2036.0	169.6		2036.0	115.1	362.0		90%	90%		11.6%	4.0%	9.3%						
49	Toolkit	Fiscal	PBL	TBL	Risk IP	No. of	Ave. DvD.	Ave. DvD.	PBL Int	TBL Int	FCCF	4h10C	E.V. Non-Slice Impacts of LB, FB & SN CRACs and DDC*										
50	Year	Year	Inputs	Inputs	Totals	DivDists	per DvD.	per Year	Credit	Credit	Use %	Credit	LB C	FB C	SN C	FB+LB+SN	DDC	Net					
51																							
52																							
53	3	2003	23.3	-22.4	0.9	0		0.0	18.6	14.6	n/a	n/a	42.7%	35.2%	11.0%	42.7%	0.0%	46.2%					
54	4	2004	-83.3	-8.7	-92.0	0		0.0	31.8	16.3	n/a	n/a	25.37%	11.06%	15.0%	51.4%	0.0%	51.4%					
55	5	2005	-209.4	10.7	-198.7	362	51.0	6.2	25.6	17.3	n/a	n/a	27.98%	9.08%	17.0%	54.0%	0.8%	53.2%					
56	6	2006	-225.8	9.6	-216.2	348	50.6	5.9	22.7	18.8	n/a	n/a	28.32%	10.28%	15.7%	54.3%	0.7%	53.5%					
57	4 -yr Total	-495.2	-10.9	-506.0	710		12.0	98.6	67.0	n/a	n/a		< - - - - - Three-year average values - - - - - >										
58	4 -yr Ave.	-123.8	-2.7	-126.5	177.5	50.8	3.0	24.7	16.7	n/a	n/a		28.6%	10.1%	15.9%	53.2%	0.5%	52.7%					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R					
1	Toolkit v. 1.87, (6-20-2003)					Study title: SN-03 Final Study #4, Variable, Flat SN CRAC, 87.5% TPP (equiv. to 5-yr, 80%) BPA reserves																	
2	Time of run: 11:52:28 on 6-28-03				3 -yr TPP =		87.5%		All-BPA run														
3	Inputs													PBL data: RM_June19_Final.xls									
4	TBL data: TBL_MAY_PBLMC_TOOLKIT_Tx_RESERVES_DATA_5-29-03.xls															% Inc re		Original Thresholds					
5	Files => Prior TK:													FB+SN%		prev year		FB CRAC		DDC			
6	Start in	Stop in	Random Run	Type	Access	Random St.	FCCF	Access	PBL Wrkg	TBL Wrkg	PBL Strt.		New Def.	2004	28.64%	5.22%	-265	735					
7	TK Year	TK Year	St. Rsv.	PBL	FCCF?	St. FCCF	Balance	4h10C?	Capital	Capital	ANR		Logic?	2005	28.61%	1.22%	-299	401					
8	3	6	<input type="checkbox"/>	BPA	<input type="checkbox"/>	<input type="checkbox"/>	162.5	<input type="checkbox"/>	50	20	-637.8		<input type="checkbox"/>	2006	28.65%	0.33%	-299	401					
9	Start TPP	"Small"	No. of	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint	FB CRAC	Enable	SN CRAC	CRAC	Ave.	28.63%		05<=04?	% 05 >=04					
10	in TK Yr	Def. Size	Iterations	Rsrv Bal	Rsrv Bal	Level	Graph	Res Grph	This Page	Lim/Total	OnTheFly	Fixed?	Stats On?				FALSE	55.3%					
11	4	\$20	3000	(9)	197	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
12	Toolkit	Fiscal	Probabili-	Treasury	Amort	Interest	PBL Int.	TBL Int.	FB CRAC	FB CRAC	Div. Dist.	Div. Dist.	SN CRAC	SN CRAC	SN CRAC	SN CRAC	PBL Cash	TBL Cash					
13	Year	Year	stic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Threshold	Lim/Year	Threshold	Lim/Year	Threshold	Lim/Year	Deadband	Slope	Tmg Adj	Tmg Adj					
14	1	2001																					
15	2	2002	FALSE	5.73%					-386	1000			0										
16	3	2003	TRUE	5.73%	215.8	473.8	10.0	10.8	-408	0	993	20,000	0				13.5	4.2					
17	4	2004	TRUE	5.73%	244.3	506.4	22.0	20.0	-354	150	-339	20,000	-354	370		0%	15.2	6.4					
18	5	2005	TRUE	5.73%	305.1	519.9	17.8	20.3	-158	150	-143	20,000	-158	370		0%	9.6	6.4					
19	6	2006	TRUE	5.73%	277.4	542.5	5.8	23.9	-87	175	-72	20,000	-87	370		0%	9.6	6.4					
20	Toolkit	Fiscal	Other	Back out	PBL Acc.	TBL Fed.	PBL Fed.	Other NR	Back out	FB CRAC	FB CRAC	FB CRAC	SN CRAC	OnTheFly	SN CRAC	FB CRAC	LB CRAC	Input					
21	Year	Year	Cash Adj	FB CRAC	to Cash	Int. Red.	Int. Red.	& Csh Adj	FB CRAC	1st Month	Thr. Type	Slice Frc.	Planned	Shape	Rev Basis	Rev Basis	Rev Basis	LB %					
22	1	2001																42.7%					
23	2	2002					0.0			1	0							35.2%					
24	3	2003			182.2	0.0	0.0		0.0	1	0	67.2%				798.2		26.75%					
25	4	2004	-56.7	10.1	-65.1	19.5	0.0		92.2	1	0	63.7%	217	1.0	942.1	785.7	1,164.4	29.50%					
26	5	2005		0.1	-111.3	20.0	3.3		92.9	1	0	63.6%	284	1.0	970.9	814.9	1,193.6	29.70%					
27	6	2006		0.9	-65.3	20.2	5.7		101.1	1	0	64.2%	305	1.0	988.1	832.1	1,210.9	29.70%					
28	Outputs													< - - - Cash-only adjustments - - - >		< - Cash & NR adjustments - >		806		*** below: approx. rate impact			
29	Toolkit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	OnTheFly	BPA	Total PBL	Forecasted Range of Tot. Rate							
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Adjustmt.	Strt Bal	Net Rev	Increase Above FY 03 Level*	Maximum	Exp. Val.	Minumum				
31														188.0									
32																							
33	3	2003	0	-	100%	n/a	n/a	0.0	n/a	n/a	383.6	-605.8	-	FCCF	32.0								
34	4	2004	135	37	96%	135	95.5%	2.3	50.3	50.3	430.9	-426.3	-	Strt Bal	179.5	19.4%	5.22%	-13.3%					
35	5	2005	258	36	91%	290	90.3%	9.7	112.3	74.8	410.7	-361.6	-	n/a	61.8	20.3%	6.98%	-11.4%					
36	6	2006	224	24	92.5%	375	87.5%	9.1	122.3	58.3	432.4	-301.8	-		62.7	21.3%	7.24%	-11.3%					
37	4 -yr Total		617	97	n/a	n/a	n/a	21.0	n/a	n/a	n/a	n/a	-	4-yr sum>	336.0	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
38	4 -yr Ave.		154.25	24	n/a	n/a	n/a	5.3	102.3	62.2	n/a	n/a	-	5-yr sum>	-54.5	20.3%	6.48%	-11.4%					
39	Toolkit	Fiscal	FB CRAC	FB CRAC	FB CRAC	FB CRAC	FB CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	FB CRAC	SN CRAC	Ave. FB	SN CRAC	FB CRAC	FB+LB+SN					
40	Year	Year	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Freqncy	Freqncy	+ SN	Std Dev.	Std Dev.	Std Dev.					
41																							
42																							
43	3	2003	0	n/a	0.0	0	0	0		0.0	0	0											
44	4	2004	2982	90.5	89.9	2482	0	2982	163.0	162.0	10	0	99.4%	99.4%	251.9	9.6%	2.0%	6.8%					
45	5	2005	2637	86.9	76.3	2126	0	2637	212.5	186.8	612	0	87.9%	87.9%	263.2	14.4%	4.2%	11.2%					
46	6	2006	2676	100.4	89.5	2017	0	2676	198.2	176.8	566	0	89.2%	89.2%	266.3	13.9%	4.8%	11.2%					
47	4 -yr Total		8295	92.5	255.8	6625	0	8295	2073.8	525.6	1188	0	3-Yr. Ave.	3-Yr. Ave.	781.4	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
48	4 -yr Ave.		2073.75	92.5	63.9	1656.25	0	2073.8	518.45	131.4	297.0	0	92%	92%	195.35	12.7%	3.7%	9.7%					
49	Toolkit	Fiscal	PBL	TBL	Risk IP	No. of	Ave. DvD.	Ave. DvD.	PBL Int	TBL Int	FCCF	4h10C	E.V. Non-Slice Impacts of LB, FB & SN CRACs and DDC*										
50	Year	Year	Inputs	Inputs	Totals	DivDists	per DvD.	per Year	Credit	Credit	Use %	Credit	LB C	FB C	SN C	FB+LB+SN	DDC	Net					
51																							
52																							
53	3	2003	23.3	-22.4	0.9	0		0.0	18.6	14.6	n/a	n/a	35.2%	11.0%		46.2%	0.0%	46.2%					
54	4	2004	-83.3	-8.7	-92.0	0		0.0	32.9	16.3	n/a	n/a	25.17%	11.45%	17.2%	53.8%	0.0%	53.8%					
55	5	2005	-209.4	10.7	-198.7	315	53.8	5.6	28.2	17.3	n/a	n/a	27.77%	9.37%	19.2%	56.4%	0.7%	55.7%					
56	6	2006	-225.8	9.6	-216.2	292	48.9	4.8	27.0	18.8	n/a	n/a	28.12%	10.76%	17.9%	56.8%	0.6%	56.2%					
57	4 -yr Total		-495.2	-10.9	-506.0	607		10.4	106.7	67.0	n/a	n/a	< - - - - - Three-year average values - - - - - >										
58	4 -yr Ave.		-123.8	-2.7	-126.5	151.75		2.6	26.7	16.7	n/a	n/a	28.6%	10.5%	18.1%	55.7%	0.4%	55.2%					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R					
1	ToolKit v. 1.87, (6-20-2003)					Study title: SN-03 Final Study #5, Variable, Flat SN CRAC, meet 3 standards BPA reserves																	
2	Time of run: 13:07:13 on 6-28-03				3 -yr TPP =		87.5%		All-BPA run														
3	Inputs													PBL data: RM_June19_Final.xls									
4	TBL data: TBL_MAY_PBLMC_TOOLKIT_Tx_RESERVES_DATA_5-29-03.xls															% Inc re		Original Thresholds					
5	Files => Prior TK:													FB+SN%		prev year		FB CRAC		DDC			
6	Start in	Stop in	Random Run Type	Access	Random St. FCCF	Access	PBL Wrkg	TBL Wrkg	PBL Strt.	New Def.	2004	30.30%	6.26%	-265	735								
7	TK Year	TK Year	St. Rsrv. PBL	FCCF?	St. FCCF	Balance	4h10C?	Capital	ANR	Logic?	2005	30.33%	1.39%	-299	401								
8	3	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	162.5	<input type="checkbox"/>	50	20	-637.8	<input type="checkbox"/>	2006	30.31%	0.27%	-299	401							
9	Start TPP	"Small"	No. of	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint	FB CRAC	Enable	SN CRAC	CRAC	Ave.	30.31%	05<=04? % 05 >=04							
10	in TK Yr	Def. Size	Iterations	Rsrv Bal	Rsrv Bal	Level	Graph	Res This Page	FB CRAC	Lim/Total	OnTheFly	Fixed?	Stats On?	FALSE			57.5%						
11	4	\$20	3000	(9)	197	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
12	Toolkit	Fiscal	Probabi-	Treasury	Amort	Interest	PBL Int.	TBL Int.	FB CRAC	FB CRAC	Div. Dist.	Div. Dist.	SN CRAC	SN CRAC	SN CRAC	SN CRAC	PBL Cash	TBL Cash					
13	Year	Year	istic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Threshold	Lim/Year	Threshold	Lim/Year	Threshold	Lim/Year	Deadband	Slope	Tmg Adj	Tmg Adj					
14	1	2001																					
15	2	2002	FALSE	5.73%					-386	1000			20,000	0									
16	3	2003	TRUE	5.73%	215.8	473.8	10.0	10.8	-408	0	993	20,000	0			13.5	4.2						
17	4	2004	TRUE	5.73%	244.3	506.4	22.0	20.0	-337	150	-322	20,000	-337	320	0%	15.2	6.4						
18	5	2005	TRUE	5.73%	305.1	519.9	17.8	20.3	-94	150	-79	20,000	-94	320	0%	9.6	6.4						
19	6	2006	TRUE	5.73%	277.4	542.5	5.8	23.9	4	175	19	20,000	4	320	0%	9.6	6.4						
20	Toolkit	Fiscal	Other	Back out	PBL Acc.	TBL Fed.	PBL Fed.	Other NR	Back out	FB CRAC	FB CRAC	FB CRAC	SN CRAC	OnTheFly	SN CRAC	FB CRAC	LB CRAC	Input					
21	Year	Year	Cash Adj	FB CRAC	to Cash	Int. Red.	Int. Red.	& Csh Adj	FB CRAC	1st Month	Thr. Type	Slice Frc.	Planned	Shape	Rev Basis	Rev Basis	Rev Basis	LB %					
22	1	2001																42.7%					
23	2	2002					0.0			1	0							35.2%					
24	3	2003			182.2	0.0	0.0	0.0	0.0	1	0	67.2%				798.2		26.75%					
25	4	2004	-56.7	10.1	-65.1	19.5	0.0		92.2	1	0	63.7%	174	1.0	942.1	785.7	1,164.4	29.50%					
26	5	2005		0.1	-111.3	20.0	3.3		92.9	1	0	63.6%	233	1.0	970.9	814.9	1,193.6	29.70%					
27	6	2006		0.9	-65.3	20.2	5.7		101.1	1	0	64.2%	247	1.0	988.1	832.1	1,210.9	29.70%					
28	Outputs													< - - - - Cash-only adjustments - - - - >		< - Cash & NR adjustments - >		654		*** below: approx. rate impact			
29	Toolkit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	OnTheFly	BPA	Total PBL	Forecasted Range of Tot. Rate							
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Adjustmt.	Strt Bal	Net Rev	Increase Above FY 03 Level*	Maximum	Exp. Val.	Minumum				
31														188.0	w/ CRACs								
32																							
33	3	2003	0	-	100%	n/a	n/a	0.0	n/a	n/a	383.6	-605.8	-	FCCF	32.0								
34	4	2004	110	34	96%	110	96.3%	1.7	47.3	47.3	445.2	-410.3	-	Strt Bal	195.5	16.1%	6.26%	-13.3%					
35	5	2005	271	27	91%	290	90.3%	12.0	132.5	100.4	443.2	-327.4	-	n/a	80.9	17.1%	8.08%	-11.4%					
36	6	2006	268	26	91.1%	376	87.5%	13.5	151.5	63.5	484.9	-247.2	-		82.2	18.2%	8.31%	-11.3%					
37	4 -yr Total		649	87	n/a	n/a	n/a	27.2	n/a	n/a	n/a	n/a	n/a	4-yr sum>	390.6	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
38	4 -yr Ave.		162.25	22	n/a	n/a	n/a	6.8	125.9	76.4	n/a	n/a	n/a	5-yr sum>	0.1	17.1%	7.55%	-11.4%					
39	Toolkit	Fiscal	FB CRAC	FB CRAC	FB CRAC	FB CRAC	FB CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	FB CRAC	SN CRAC	Ave. FB	SN CRAC	FB CRAC	FB+LB+SN					
40	Year	Year	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Freqncy	Freqncy	+ SN	Std Dev.	Std Dev.	Std Dev.					
41																							
42																							
43	3	2003	0	n/a	0.0	0	0	0		0.0	0	0											
44	4	2004	2989	91.9	91.5	2598	0	2989	176.3	175.7	199	0	99.6%	99.6%	267.2	9.6%	1.7%	6.6%					
45	5	2005	2736	88.9	81.1	2302	0	2736	217.0	197.9	1070	0	91.2%	91.2%	278.9	12.6%	3.8%	9.9%					
46	6	2006	2752	102.7	94.2	2224	0	2752	204.5	187.6	999	0	91.7%	91.7%	281.8	12.4%	4.4%	10.1%					
47	4 -yr Total		8477	266.8	7124	0	8477		561.2	2268	0	3-Yr. Ave.	3-Yr. Ave.	828.0	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.						
48	4 -yr Ave.		2119.25	94.4	66.7	1781		2119.3	140.3	567.0		94%	94%		11.5%	3.3%	8.9%						
49	Toolkit	Fiscal	PBL	TBL	Risk IP	No. of	Ave. DvD.	Ave. DvD.	PBL Int	TBL Int	FCCF	4h10C	E.V. Non-Slice Impacts of LB, FB & SN CRACs and DDC*										
50	Year	Year	Inputs	Inputs	Totals	DivDists	per DvD.	per Year	Credit	Credit	Use %	Credit	LB C	FB C	SN C	FB+LB+SN	DDC	Net					
51																							
52													42.7%			42.7%		42.7%					
53	3	2003	23.3	-22.4	0.9	0		0.0	18.6	14.6	n/a	n/a	35.2%	11.0%		46.2%	0.0%	46.2%					
54	4	2004	-83.3	-8.7	-92.0	0		0.0	33.7	16.3	n/a	n/a	25.04%	11.65%	18.6%	55.3%	0.0%	55.3%					
55	5	2005	-209.4	10.7	-198.7	231	53.0	4.1	29.9	17.3	n/a	n/a	27.67%	9.95%	20.4%	58.0%	0.5%	57.5%					
56	6	2006	-225.8	9.6	-216.2	219	47.4	3.5	29.7	18.8	n/a	n/a	28.02%	11.32%	19.0%	58.3%	0.4%	57.9%					
57	4 -yr Total		-495.2	-10.9	-506.0	450		7.5	111.9	67.0	n/a	n/a	< - - - - - Three-year average values - - - - - >										
58	4 -yr Ave.		-123.8	-2.7	-126.5	112.5		50.3	1.9	28.0	16.7	n/a	n/a	28.6%	11.0%	19.3%	57.2%	0.3%	56.9%				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R					
1	ToolKit v. 1.87, (6-20-2003)					Study title: SN-03 Final Study #6, Variable, Flat SN CRAC, shaped 50M impr. BPA reserves																	
2	Time of run: 23:13:18 on 6-28-03					3 -yr TPP = 80.0%		All-BPA run															
3	Inputs													PBL data: RM_June19_Final.xls									
4	TBL data: TBL_MAY_PBLMC_TOOLKIT_Tx_RESERVES_DATA_5-29-03.xls															% Inc re		Original Thresholds					
5	Files => Prior TK:													FB+SN%		prev year		FB CRAC		DDC			
6	Start in	Stop in	Random Run	Type	Access	Random St.	FCCF	Access	PBL Wrkg	TBL Wrkg	PBL Strt.		New Def.	2004	24.13%	2.37%	-265	735					
7	TK Year	TK Year	St. Rsv.	PBL	FCCF?	St. FCCF	Balance	4h10C?	Capital	Capital	ANR		Logic?	2005	24.09%	1.15%	-299	401					
8	3	6	<input type="checkbox"/>	BPA	<input type="checkbox"/>	<input type="checkbox"/>	162.5	<input type="checkbox"/>	50	20	-637.8		<input type="checkbox"/>	2006	24.09%	0.23%	-299	401					
9	Start TPP	"Small"	No. of	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint	FB CRAC	Enable	SN CRAC	CRAC	Ave.	24.11%		05<=04?	% 05 >=04					
10	in TK Yr	Def. Size	Iterations	Rsv Bal	Rsv Bal	Level	Graph	Res Grph	This Page	Lim/Total	OnTheFly	Fixed?	Stats On?				FALSE	55.8%					
11	4	\$20	3000	(9)	197	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
12	Toolkit	Fiscal	Probabili-	Treasury	Amort	Interest	PBL Int.	TBL Int.	FB CRAC	FB CRAC	Div. Dist.	Div. Dist.	SN CRAC	SN CRAC	SN CRAC	SN CRAC	PBL Cash	TBL Cash					
13	Year	Year	stic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Threshold	Lim/Year	Threshold	Lim/Year	Threshold	Lim/Year	Deadband	Slope	Tmg Adj	Tmg Adj					
14	1	2001																					
15	2	2002	FALSE	5.73%					-386	1000			0										
16	3	2003	TRUE	5.73%	215.8	473.8	10.0	10.8	-408	0	993	20,000	0				13.5	4.2					
17	4	2004	TRUE	5.73%	244.3	506.4	22.0	20.0	-375	150	-360	20,000	-375	300		0%	15.2	6.4					
18	5	2005	TRUE	5.73%	305.1	519.9	17.8	20.3	-215	150	-200	20,000	-215	300		0%	9.6	6.4					
19	6	2006	TRUE	5.73%	277.4	542.5	5.8	23.9	-180	175	-165	20,000	-180	300		0%	9.6	6.4					
20	Toolkit	Fiscal	Other	Back out	PBL Acc.	TBL Fed.	PBL Fed.	Other NR	Back out	FB CRAC	FB CRAC	FB CRAC	SN CRAC	OnTheFly	SN CRAC	FB CRAC	LB CRAC	Input					
21	Year	Year	Cash Adj	FB CRAC	to Cash	Int. Red.	Int. Red.	& Csh Adj	FB CRAC	1st Month	Thr. Type	Slice Frc.	Planned	Shape	Rev Basis	Rev Basis	Rev Basis	LB %					
22	1	2001																42.7%					
23	2	2002					0.0			1	0							35.2%					
24	3	2003			182.2	0.0	0.0	20.0	0.0	1	0	67.2%				798.2		26.75%					
25	4	2004	-56.7	10.1	-65.1	19.5	0.0	7.5	92.2	1	0	63.7%	157	1.0	942.1	785.7	1,164.4	29.50%					
26	5	2005		0.1	-111.3	20.0	3.3	10.0	92.9	1	0	63.6%	215	1.0	970.9	814.9	1,193.6	29.70%					
27	6	2006		0.9	-65.3	20.2	5.7	12.5	101.1	1	0	64.2%	227	1.0	988.1	832.1	1,210.9	29.70%					
28	Outputs													< - - - Cash-only adjustments - - - >		< - Cash & NR adjustments - >		599		*** below: approx. rate impact			
29	Toolkit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	OnTheFly	BPA	Total PBL	Forecasted Range of Tot. Rate							
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Adjustmt.	Strt Bal	Net Rev	Increase Above FY 03 Level*	Maximum	Exp. Val.	Minumum				
31					100%	n/a	n/a	0.0	n/a	n/a	404.1	-585.3	-	188.0									
32																							
33	3	2003	0	-	100%	n/a	n/a	0.0	n/a	n/a	404.1	-585.3	-	FCCF	52.5								
34	4	2004	155	34	95%	155	94.8%	2.8	53.3	53.3	421.6	-440.1	-	Strt Bal	145.1	14.8%	2.37%	-13.3%					
35	5	2005	368	41	88%	397	86.8%	16.6	135.3	94.1	365.5	-411.6	-	n/a	25.2	15.8%	4.12%	-11.4%					
36	6	2006	460	55	84.7%	599	80.0%	22.3	145.7	71.0	349.0	-390.1	-		24.9	16.9%	4.35%	-11.3%					
37	4 -yr Total		983	130	n/a	n/a	n/a	41.7	n/a	n/a	n/a	n/a	-	4-yr sum>	247.7	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
38	4 -yr Ave.		245.75	33	n/a	n/a	n/a	10.4	127.2	75.7	n/a	n/a	-	5-yr sum>	-142.8	15.8%	3.61%	-11.4%					
39	Toolkit	Fiscal	FB CRAC	FB CRAC	FB CRAC	FB CRAC	FB CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	FB CRAC	SN CRAC	Ave. FB	SN CRAC	FB CRAC	FB+LB+SN					
40	Year	Year	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Freqncy	Freqncy	+ SN	Std Dev.	Std Dev.	Std Dev.					
41																							
42																							
43	3	2003	0	n/a	0.0	0	0	0		0.0	0	0											
44	4	2004	2943	85.8	84.2	2155	0	2943	128.9	126.4	35	0	98.1%	98.1%	210.6	8.7%	3.0%	6.9%					
45	5	2005	2512	85.2	71.3	1935	0	2512	177.8	148.9	727	0	83.7%	83.7%	220.2	12.3%	4.6%	10.3%					
46	6	2006	2538	97.0	82.1	1761	0	2538	166.2	140.6	683	0	84.6%	84.6%	222.7	12.0%	5.3%	10.5%					
47	4 -yr Total		7993	237.6	585.1	0	7993		416.0	1445	0	3-Yr. Ave.	3-Yr. Ave.	653.5	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.						
48	4 -yr Ave.		1998.25	89.2	146.275	1998.3	156.1	104.0	361.3		89%	89%			11.0%	4.3%	9.2%						
49	Toolkit	Fiscal	PBL	TBL	Risk IP	No. of	Ave. DvD.	Ave. DvD.	PBL Int	TBL Int	FCCF	4h10C	E.V. Non-Slice Impacts of LB, FB & SN CRACs and DDC*										
50	Year	Year	Inputs	Inputs	Totals	DivDists	per DvD.	per Year	Credit	Credit	Use %	Credit	LB C	FB C	SN C	FB+LB+SN	DDC	Net					
51																							
52																							
53	3	2003	23.3	-22.4	0.9	0	0.0	19.2	14.6	n/a	n/a	35.2%	11.0%		46.2%	0.0%	46.2%						
54	4	2004	-83.3	-8.7	-92.0	0	0.0	32.3	16.3	n/a	n/a	25.52%	10.71%	13.4%	49.7%	0.0%	49.7%						
55	5	2005	-209.4	10.7	-198.7	422	48.5	6.8	25.6	17.3	n/a	n/a	28.12%	8.76%	15.3%	52.2%	0.8%	51.4%					
56	6	2006	-225.8	9.6	-216.2	407	50.0	6.8	22.3	18.8	n/a	n/a	28.44%	9.86%	14.2%	52.5%	0.8%	51.7%					
57	4 -yr Total		-495.2	-10.9	-506.0	829	13.6	99.5	67.0	n/a	n/a												
58	4 -yr Ave.		-123.8	-2.7	-126.5	207.25	49.2	3.4	24.9	16.7	n/a	n/a											

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R					
1	Toolkit v. 1.87, (6-20-2003)					Study title: SN-03 Final Study #7, Variable, Flat SNN PBL reserves																	
2	Time of run: 16:25:21 on 6-28-03				3 -yr TPP =		80.0%		PBL-only run														
3	Inputs PBL data: RM_June19_Final.xls																						
4	TBL data: TBL_MAY_PBLMC_TOOLKIT_Tx_RESERVES_DATA_5-29-03.xls																						
5	Files => Prior TK:																						
6	Start in	Stop in	Random Run Type	Access	Random St. FCCF	St. FCCF	Balance	Access	PBL Wrkg	TBL Wrkg	PBL Strt.		New Def.	2004	34.97%	9.18%	-265	735					
7	TK Yr	TK Yr	St. Rsvr. PBL	FCCF?	St. FCCF			4h10C?	Capital	Capital	ANR		Logic?	2005	34.88%	1.31%	-299	401					
8	3	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		162.5	<input type="checkbox"/>	50	20	-637.8		<input type="checkbox"/>	2006	34.92%	0.36%	-299	401					
9	Start TPP	"Small"	No. of	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint	FB CRAC	Enable	SN CRAC	CRAC	Ave.	34.93%		05<=04?	% 05 >=04					
10	in TK Yr	Def. Size	Iterations	Rsvr Bal	Rsvr Bal	Level	Graph	Res Grp	This Page	Lim/Total	OnTheFly	Fixed?	Stats On?				FALSE	56.3%					
11	4	\$20	3000	(9)	197	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
12	Toolkit	Fiscal	Probabili-	Treasury	Amort	Interest	PBL Int.	TBL Int.	FB CRAC	FB CRAC	Div. Dist.	Div. Dist.	SN CRAC	SN CRAC	SN CRAC	SN CRAC	PBL Cash	TBL Cash					
13	Year	Year	stic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Threshold	Lim/Year	Threshold	Lim/Year	Threshold	Lim/Year	Deadband	Slope	Tmg Adj	Tmg Adj					
14	1	2001																					
15	2	2002	FALSE	5.73%					-386	1000			0										
16	3	2003	TRUE	5.73%	215.8	473.8	10.0	10.8	-408	0	993	20,000	0				13.5	4.2					
17	4	2004	TRUE	5.73%	244.3	506.4	22.0	20.0	-295	150	-280	20,000	-295	425		0%	15.2	6.4					
18	5	2005	TRUE	5.73%	305.1	519.9	17.8	20.3	-27	150	-12	20,000	-27	425		0%	9.6	6.4					
19	6	2006	TRUE	5.73%	277.4	542.5	5.8	23.9	113	175	128	20,000	113	425		0%	9.6	6.4					
20	Toolkit	Fiscal	Other	Back out	PBL Acc.	TBL Fed.	PBL Fed.	Other NR	Back out	FB CRAC	FB CRAC	FB CRAC	SN CRAC	OnTheFly	SN CRAC	FB CRAC	LB CRAC	Input					
21	Year	Year	Cash Adj	FB CRAC	to Cash	Int. Red.	Int. Red.	& Csh Adj	FB CRAC	1st Month	Thr. Type	Slice Frc.	Planned	Shape	Rev Basis	Rev Basis	Rev Basis	LB %					
22	1	2001																42.7%					
23	2	2002					0.0			1	0							35.2%					
24	3	2003			182.2	0.0	0.0		0.0	1	0	67.2%				798.2		26.75%					
25	4	2004	-56.7	10.1	-65.1	19.5	0.0		92.2	1	0	63.7%	264	1.0	942.1	785.7	1,164.4	29.50%					
26	5	2005		0.1	-111.3	20.0	3.3		92.9	1	0	63.6%	340	1.0	970.9	814.9	1,193.6	29.70%					
27	6	2006		0.9	-65.3	20.2	5.7		101.1	1	0	64.2%	366	1.0	988.1	832.1	1,210.9	29.70%					
28	Outputs < - - - Cash-only adjustments - - - >													< - Cash & NR adjustments - >		970		*** below: approx. rate impact					
29	Toolkit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	OnTheFly	PBL	Total PBL	Forecasted Range of Tot. Rate							
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Adjustmt.	Strt Bal	Net Rev	Increase Above FY 03 Level*	Maximum	Exp. Val.	Minumum				
31														-9.0	w/ CRACs								
32																							
33	3	2003	164	95	95%	n/a	n/a	1.2	21.8	21.8	205.2	-605.8	-	FCCF	32.0								
34	4	2004	435	60	86%	435	85.5%	12.1	83.4	83.4	300.6	-364.6	-	Strt Bal	241.2	23.0%	9.18%	-13.3%					
35	5	2005	390	48	87%	554	81.5%	16.7	128.8	46.8	319.7	-233.0	-	n/a	129.8	23.9%	10.93%	-11.4%					
36	6	2006	257	31	91.4%	601	80.0%	11.0	128.4	31.9	390.3	-99.2	-		135.7	24.8%	11.22%	-11.3%					
37	4 -yr Total		1246	234	n/a	n/a	n/a	41.0	n/a	n/a	n/a	n/a	-	4-yr sum>	538.6	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
38	4 -yr Ave.		311.5	59	n/a	n/a	n/a	10.3	98.8	61.3	n/a	n/a	-	5-yr sum>	148.1	23.9%	10.44%	-11.4%					
39	Toolkit	Fiscal	FB CRAC	FB CRAC	FB CRAC	FB CRAC	FB CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	FB CRAC	SN CRAC	Ave. FB	SN CRAC	FB CRAC	FB+LB+SN					
40	Year	Year	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Freqncy	Freqncy	+ SN	Std Dev.	Std Dev.	Std Dev.					
41																							
42																							
43	3	2003	0	n/a	0.0	0	0	0		0.0	0	0											
44	4	2004	2999	94.0	94.0	2820	0	2999	216.9	216.8	13	0	100.0%	100.0%	310.8	10.3%	1.0%	6.7%					
45	5	2005	2777	89.7	83.0	2389	0	2777	259.0	239.8	664	0	92.6%	92.6%	322.8	15.9%	3.5%	11.6%					
46	6	2006	2821	104.3	98.1	2340	0	2821	243.1	228.6	597	0	94.0%	94.0%	326.7	15.3%	3.9%	11.4%					
47	4 -yr Total		8597	275.0	7549	0	8597		685.2	1274	0	3-Yr. Ave.	3-Yr. Ave.	960.2	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.						
48	4 -yr Ave.		2149.25	96.0	1887.25	0	2149.3		171.3	318.5		96%	96%		13.8%	2.8%	9.9%						
49	Toolkit	Fiscal	PBL	TBL	Risk IP	No. of	Ave. DvD.	Ave. DvD.	PBL Int	TBL Int	FCCF	4h10C	E.V. Non-Slice Impacts of LB, FB & SN CRACs and DDC*										
50	Year	Year	Inputs	Inputs	Totals	DivDists	per DvD.	per Year	Credit	Credit	Use %	Credit	LB C	FB C	SN C	FB+LB+SN	DDC	Net					
51																							
52																							
53	3	2003	23.3	0.0	23.3	0		0.0	18.6	15.2	n/a	n/a	35.2%	11.0%		46.2%	0.0%	46.2%					
54	4	2004	-83.3	0.0	-83.3	0		0.0	35.8	17.4	n/a	n/a	24.64%	11.96%	23.0%	59.6%	0.0%	59.6%					
55	5	2005	-209.4	0.0	-209.4	197	56.7	3.7	34.6	17.2	n/a	n/a	27.28%	10.19%	24.7%	62.2%	0.5%	61.7%					
56	6	2006	-225.8	0.0	-225.8	162	44.8	2.4	37.3	16.9	n/a	n/a	27.66%	11.78%	23.1%	62.6%	0.3%	62.3%					
57	4 -yr Total		-495.2	0.0	-495.2	359		6.1	126.3	66.7	n/a	n/a	< - - - - - Three-year average values - - - - - >										
58	4 -yr Ave.		-123.8	0.0	-123.8	89.75	51.4	1.5	31.6	16.7	n/a	n/a	28.6%	11.3%	23.6%	61.5%	0.2%	61.2%					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R					
1	Toolkit v. 1.87, (6-20-2003)					Study title: SN-03 Final Study #8, Variable, Flat SN CRAC, 2 Fin. Stds. BPA reserves																	
2	Time of run: 16:13:16 on 6-28-03					3 -yr TPP = 74.6%		All-BPA run															
3	Inputs													PBL data: RM_June19_Final.xls									
4	TBL data: TBL_MAY_PBLMC_TOOLKIT_Tx_RESERVES_DATA_5-29-03.xls															% Inc re		Original Thresholds					
5	Files => Prior TK:													FB+SN%		prev year		FB CRAC		DDC			
6	Start in	Stop in	Random Run	Type	Access	Random St.	FCCF	Access	PBL Wrkg	TBL Wrkg	PBL Strt.		New Def.	2004	24.29%	2.47%	-265	735					
7	TK Year	TK Year	St. Rsv.	PBL	FCCF?	St. FCCF	Balance	4h10C?	Capital	Capital	ANR		Logic?	2005	24.21%	1.14%	-299	401					
8	3	6	<input type="checkbox"/>	BPA	<input type="checkbox"/>	<input type="checkbox"/>	162.5	<input type="checkbox"/>	50	20	-637.8		<input type="checkbox"/>	2006	24.21%	0.22%	-299	401					
9	Start TPP	"Small"	No. of	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint	FB CRAC	Enable	SN CRAC	CRAC	Ave.	24.24%		05<=04?	% 05 >=04					
10	in TK Yr	Def. Size	Iterations	Rsrv Bal	Rsrv Bal	Level	Graph	Res Grp	This Page	Lim/Total	OnTheFly	Fixed?	Stats On?				FALSE	56.1%					
11	4	\$20	3000	(9)	197	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
12	Toolkit	Fiscal	Probabili-	Treasury	Amort	Interest	PBL Int.	TBL Int.	FB CRAC	FB CRAC	Div. Dist.	Div. Dist.	SN CRAC	SN CRAC	SN CRAC	SN CRAC	PBL Cash	TBL Cash					
13	Year	Year	stic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Threshold	Lim/Year	Threshold	Lim/Year	Threshold	Lim/Year	Deadband	Slope	Tmg Adj	Tmg Adj					
14	1	2001																					
15	2	2002	FALSE	5.73%					-386	1000				0									
16	3	2003	TRUE	5.73%	215.8	473.8	10.0	10.8	-408	0	993	20,000		0			13.5	4.2					
17	4	2004	TRUE	5.73%	244.3	506.4	22.0	20.0	-394	150	-379	20,000	-394	295		0%	15.2	6.4					
18	5	2005	TRUE	5.73%	305.1	519.9	17.8	20.3	-239	150	-224	20,000	-239	295		0%	9.6	6.4					
19	6	2006	TRUE	5.73%	277.4	542.5	5.8	23.9	-214	175	-199	20,000	-214	295		0%	9.6	6.4					
20	Toolkit	Fiscal	Other	Back out	PBL Acc.	TBL Fed.	PBL Fed.	Other NR	Back out	FB CRAC	FB CRAC	FB CRAC	SN CRAC	OnTheFly	SN CRAC	FB CRAC	LB CRAC	Input					
21	Year	Year	Cash Adj	FB CRAC	to Cash	Int. Red.	Int. Red.	& Csh Adj	FB CRAC	1st Month	Thr. Type	Slice Frc.	Planned	Shape	Rev Basis	Rev Basis	Rev Basis	LB %					
22	1	2001																42.7%					
23	2	2002					0.0			1	0							35.2%					
24	3	2003			182.2	0.0	0.0		0.0	1	0	67.2%				798.2		26.75%					
25	4	2004	-56.7	10.1	-65.1	19.5	0.0		92.2	1	0	63.7%	156	1.0	942.1	785.7	1,164.4	29.50%					
26	5	2005		0.1	-111.3	20.0	3.3		92.9	1	0	63.6%	210	1.0	970.9	814.9	1,193.6	29.70%					
27	6	2006		0.9	-65.3	20.2	5.7		101.1	1	0	64.2%	221	1.0	988.1	832.1	1,210.9	29.70%					
28	Outputs													< - - - - Cash-only adjustments - - - - >		< - Cash & NR adjustments - >		587		*** below: approx. rate impact			
29	Toolkit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	OnTheFly	BPA	Total PBL	Forecasted Range of Tot. Rate							
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Adjustmt.	Strt Bal	Net Rev	Increase Above FY 03 Level*	Maximum	Exp. Val.	Minumum				
31					100%	n/a	n/a	0.0	n/a	n/a	383.6	-605.8	-	188.0									
32					92%	226	92.5%	4.5	60.2	60.2	393.5	-468.1	-	FCCF	32.0								
33	3	2003	0	-	100%	n/a	n/a	0.0	n/a	n/a	383.6	-605.8	-	Strt Bal	137.7	14.5%	2.47%	-13.3%					
34	4	2004	226	56	92%	226	92.5%	4.5	60.2	60.2	393.5	-468.1	-	n/a	14.6	15.5%	4.20%	-11.4%					
35	5	2005	489	61	84%	522	82.6%	22.7	139.3	86.9	326.7	-450.2	-		11.0	16.6%	4.42%	-11.3%					
36	6	2006	599	56	80.0%	762	74.6%	32.7	164.0	79.1	296.4	-442.6	-										
37	4 -yr Total		1314	173	n/a	n/a	n/a	60.0	n/a	n/a	n/a	n/a	-	4-yr sum>	195.2	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.				
38	4 -yr Ave.		328.5	43	n/a	n/a	n/a	15.0	137.0	76.6	n/a	n/a	-	5-yr sum>	-195.3	15.5%	3.70%	-11.4%					
39	Toolkit	Fiscal	FB CRAC	FB CRAC	FB CRAC	FB CRAC	FB CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	SN CRAC	FB CRAC	SN CRAC	Ave. FB	SN CRAC	FB CRAC	FB+LB+SN					
40	Year	Year	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Accesses	Ave/ea.	Ave/Yr	Ann.Lim.	Tot.Lim.	Freqncy	Freqncy	+ SN	Std Dev.	Std Dev.	Std Dev.					
41																							
42																							
43	3	2003	0	n/a	0.0	0	0	0		0.0	0	0											
44	4	2004	2945	86.0	84.4	2170	0	2945	130.0	127.6	58	0	98.2%	98.2%	212.0	8.7%	2.9%	6.9%					
45	5	2005	2522	85.4	71.8	1953	0	2522	177.8	149.5	773	0	84.1%	84.1%	221.3	12.1%	4.6%	10.2%					
46	6	2006	2546	97.3	82.6	1777	0	2546	166.3	141.1	734	0	84.9%	84.9%	223.7	11.8%	5.3%	10.4%					
47	4 -yr Total		8013	89.4	238.8	5900	0	8013	104.6	418.3	1565	0	3-Yr. Ave.	3-Yr. Ave.	657.1	3-Yr. Ave.	3-Yr. Ave.	3-Yr. Ave.					
48	4 -yr Ave.		2003.25	89.4	59.7	1475	0	2003.3	156.6	104.6	391.3	0	89%	89%		10.9%	4.3%	9.1%					
49	Toolkit	Fiscal	PBL	TBL	Risk IP	No. of	Ave. DvD.	Ave. DvD.	PBL Int	TBL Int	FCCF	4h10C	E.V. Non-Slice Impacts of LB, FB & SN CRACs and DDC*										
50	Year	Year	Inputs	Inputs	Totals	DivDists	per DvD.	per Year	Credit	Credit	Use %	Credit	LB C	FB C	SN C	FB+LB+SN	DDC	Net					
51																							
52																							
53	3	2003	23.3	-22.4	0.9	0		0.0	18.6	14.6	n/a	n/a	35.2%	11.0%		46.2%	0.0%	46.2%					
54	4	2004	-83.3	-8.7	-92.0	0		0.0	31.0	16.3	n/a	n/a	25.51%	10.75%	13.5%	49.8%	0.0%	49.8%					
55	5	2005	-209.4	10.7	-198.7	415	48.2	6.7	23.8	17.3	n/a	n/a	28.11%	8.81%	15.4%	52.3%	0.8%	51.5%					
56	6	2006	-225.8	9.6	-216.2	396	50.5	6.7	19.8	18.8	n/a	n/a	28.44%	9.92%	14.3%	52.6%	0.8%	51.8%					
57	4 -yr Total		-495.2	-10.9	-506.0	811		13.3	93.2	67.0	n/a	n/a	< - - - - - Three-year average values - - - - - >										
58	4 -yr Ave.		-123.8	-2.7	-126.5	202.75		49.3	3.3	23.3	16.7	n/a	n/a	28.6%	9.8%	14.4%	51.6%	0.5%	51.1%				

Descriptions of the contents of sheet "TK_Main"

A General Comment The ToolKit was set up to handle 6 fiscal years - a five-year rate period (years 2 through 6) and the year preceding it (year 1). For the 2003 SN CRAC rate case, we are modeling 4 years - the remainder of 2003 (year 3) and the 3-year period covered by the SN CRAC, 2004 through 2006 (years 4 through 6). ToolKit years 1 & 2 are not part of these runs, and therefore data entered for these years have no impact.

Inputs vs. **Outputs** The inputs are in black here; **the outputs are in blue.**

Cell	Name	Description
A8	Start in TK Year	Determines which of the 6 years should be used as the first year in the run; A8 should be set to 3 , meaning 2003.
A11	Start TPP in TK Yr	The first year of the period over which the main TPP figure is calculated, and reported in cell G3. Should be set to 4 to calculate 2004-6 TPP.
B8	Stop in TK Year	Determines when the ToolKit run should stop; this should be 2006, so B8 should be set to 6.
B11	"Small" Def. Size	[Does not affect TPP.] Defines how small a deferral must be to be counted as small - purely for the user's curiosity. Reported in D33:D36.
C3	PBL Data	Enter the name of the file containing the PBL risk data here. The path to the file is optional. If a file is open with the same name as that specified (with or without a path), the ToolKit will use that file. If not, the ToolKit will attempt to open the file specified, looking in the specified directory if a path was included, or looking in the current default directory if not. If it cannot find the file, it will open a dialog box asking the user to find it.
C41:C46	TBL Data	Enter the name of the file containing the TBL risk data. See notes for C3 for more details on file and path specifying.
C8	Random St. Rsrv.	Use Random Starting Reserves? Since the current runs start at a known point, the end of FY 2002, cell C9 should be unchecked , meaning don't use Random St. Reserves.
C11	No. of Iterations	Number of Iterations should match the number of iterations in the RiskMod and TBL files. Set this to 3000 for a regular run ; to see quickly what happens in fewer iterations, you can set it smaller, but be sure to reset it to 3000 for calculating whole-run outputs.
C14:C19	Probabilistic?	Separate switches for each of the 6 years that the ToolKit can run; years 1 & 2 (2001 & 2002) aren't being run, and their switches are irrelevant; switches for years 3 through 6 (2003 through 2006) should be set to TRUE.
C22:C27	Other Cash Adj.	Values entered here will be added to the PBL cash flow (or subtracted if negative) for the respective years. These values will not affect net revenue. To reflect an event that will affect both revenue and cash accounts, use "Other NR & Csh Adj" (cells H22:h27). The -56.7 entered for 2004 represents the payment from BPA to the IOUs that was deferred from 2003. The assumption in the Net Rev file from RiskMod: the NRs on all 4 years, 03 through 06, include a \$55M expense; cashflow for 03 has NOT been reduced by \$55M, since that amount has been deferred as follows. If there is an SN CRAC, the payment must be made in 04 (a 3.01% interest, that amounts to \$56.7M); if there is no SN CRAC, the amount is deferred until after 06, and will not affect this rate case. Change the value in this cell according to whether or not your run assumes an SN CRAC.
C31:C36	No. of Deferrals	The number of games (out of No. of Iterations (C11)) in which there was a deferral, for this fiscal year of the simulation.
C41:C46	FB CRAC Accesses	Number of games in which the FB CRAC triggered. (See Note 1 below.)
C51:C56	PBL Inputs	Expected value per year of the PBL file (from RiskMod). These values are net revenue values. They were calculated in RiskMod under the assumption that the FB CRAC would trigger at maximum, and then those deterministic amounts (from I22:I27) were backed out. These values - with LB CRAC revenues but without FB CRAC revenues - are shown here.
D7:D8	RunType: PBL/TBL	Does this run model just PBL, or all of BPA? If PBL only, PBL reserves, net revenues and accrual-to-cash adjustments will be used, and the result will be probabilities that PBL will generate enough cash to meet the PBL portion of BPA's Treasury payments. If RunType = BPA, then TBL figures will be added in, and the results will reflect probabilities that BPA will have enough cash to make all of BPA's Treasury payments.
D11	PBL Strt Rsrv Bal	PBL Starting Reserves Balance for beginning of run - FY 2003. Figure based on BPA reserves, from the First Quarter Review for FY 2003, less TBL reserves, from the TBL 2003 Rate Case Settlement Proposal.
D14:D19	Treasury Int. Rate	The Treasury Interest Rate is the rate the U.S. Treasury gives BPA on BPA's cash, maintained in the Bonneville Fund. This interest rate is the weighted average of the interest BPA pays on its outstanding Federal debt. Users should not change this except to enter updates from BPA's Finance staff.
D22:D27	Back Out FB CRAC	These numbers back out the cash lag impact of the maximum FB CRAC assumptions in the PBL NR distribution. See I22:I19. These values should not be changed unless the FB CRAC assumptions in RiskMod change.
D31:D36	"Small" Deferrals	The number of games (out of No. of Iterations (C11)) in which there was a deferral for this fiscal year of the simulation that was .

Chapter 7 Documentation Final Study

D41:D46	FB CRAC Ave/ea.	The average FB CRAC access per each gives an indication of how big the FB CRAC collections are <i>when they occur</i> . It is the sum of all FB CRAC amounts per year divided by the number of FB CRAC accesses for that year. It's not the expected value - that is FB CRAC Ave/Yr (E31:E36). (See Note 1 below.)
D47	"	The sum of the averages of the FB CRAC amounts per FB CRAC access has no meaning.
D48	"	Average size of FB CRAC collections over all three years. This is the sum of all FB CRAC amounts over all years and all games, divided by the total number of FB CRAC accesses.
D51:D56	TBL Inputs	Expected value per year of the TBL inputs (from TBL risk model). These values are in annual cash flow.
E8	Access FCCF?	Turns on logic for the Fish Cost Contingency Fund (FCCF). The FCCF is now modeled in RiskMod, so cell E8 should be unchecked .
E11	TBL Strt Rsrv Bal	TBL Starting Reserves Balance for beginning of run - FY 2003. Figure based on TBL 2003 Rate Case Settlement Proposal. Only used if RunType = BPA.
E14:E19	Amort Sched	Scheduled amounts of Federal amortization by year: the total amount of amortization of Federal debt (bonds and appropriations), from the 2002 rate case. See "New Def. Logic?" in M8.
E22:E27	PBL Acc. to Cash	PBL Accrual to Cash adjustment: the PBL inputs to the Toolkit are in net revenue, as are the triggers for the FB CRAC and the SN CRAC. TPP is calculated in terms of cash. Annual net revenue and cash flow can be different for many reasons. For example, Federal debt affects the two accounts differently: net revenues contain an expense for depreciation, which has no cash impact; cash flow is decremented by amortization of principle (cash payments to Treasury) which are not part of the net revenue accounting. The figures here represent the sum of the adjustments that must be made in translating PBL annual net revenue into PBL annual cash flow. These figures should not be changed except to make updates per BPA's Finance staff.
E31:E36	1-year Probab.	The probability for a specific year that PBL or BPA (see Run Type, D7:D8) will have enough cash to make its Treasury payments that year and still have at least as much cash as the Working Capital amount (I8 and maybe J8, if RunType = BPA). This probability is equal to $1 - \frac{[\text{No. of Deferrals}]}{[\text{No. of Iterations}]}$ (C31:C36/C11). These calculations are affected by New Def. Logic? (M8).
E37	"	The total of probabilities has no meaning.
E38	"	The average of the probabilities is not a metric BPA has tracked or imputed any meaning to.
E41:E46	FB CRAC Ave/Yr	The average amount of FB CRAC revenue per year is the expected value per year of FB CRAC revenue. It is the sum of FB CRAC amounts over all games for that year divided by the number of games. (See Note 1 below.)
E51:E56	Risk IP Totals	The totals of the PBL and TBL expected value numbers (from C51:C56 and D51:D56).
F8	Random St. FCCF	Uses random starting levels for the FCCF?. Makes no difference when E8 is unchecked, as it should be for 2003 - 2006 runs.
F11	Debug level	If set above 0, turns on various debugging outputs presented on sheet "Debugging". Will slow down a run.
F14:F19	Interest Sched	Total amount of scheduled payment to the Treasury of interest on Federal debt (bonds and appropriations), from the 2002 rate case. See "New Def. Logic?" in M8.
F22:F27	TBL Acc. to Cash	TBL Accrual to Cash adjustment: since the input file for TBL data used in the SN CRAC rate case actually contains cash flows, not net revenues, no accrual-to-cash adjustments are needed. These values should be blank or zero.
F31:36	Cumul. Deferrals	Cumulative Deferrals counts the number of games in which there has been one or more deferrals, starting with the first year for which TPP is being calculated, Start TPP in TK Yr (A11). For the 2003 SN CRAC rate case, we are starting the TPP calculations in 2004, the 4th TKK year. There will not be a cumulative deferrals number for 2003. For 2004, cumulative deferrals will be equal to the number of deferrals. For 2005, cumulative deferrals will count all of the games in which there was a deferral in either 2004 or 2005. For years over which TPP is being calculated, the cumulative deferral number for a later year will always be at least as large as for earlier years.
F37	"	The sum of cumulative deferrals has no meaning.
F38	"	The average of cumulative deferrals has no meaning.
F41:F46	FB CRAC Ann. Lim.	The number of times per year that the annual limit (cap) on FB CRAC amounts was reached. (See Note 1 below.)
F51:F56	No. of DivDists	Number of games in which a dividend distribution was made.
G8	St. FCCF Balance	The deterministic starting level for the FCCF if FCCF logic is on and Random FCCF is off. Makes no difference when E8 is unchecked, as it should be for 2003 - 2006 runs.
G11	Reserves Graph	If checked, the worksheet named "RsrvsGrph" will have a graph of the ending reserves balances for all years in the run and the beginning reserves level for the first year of the run. For each year, all percentiles are shown from 0% to 100% in 10% increments.

Chapter 7 Documentation Final Study

G14:G19	PBL Int. Cr. Sched.	Amounts of interest credit on PBL reserves assumed in the distributions of net revenues; must be backed out in the ToolKit in order to let the ToolKit calculate the proper, game-specific interest on reserves. These numbers should not be changed except as directed by BPA Finance staff.
G22:G27	Calibration	Annual calibrations may be needed when attempting to calibrate the ToolKit results to some other results. None are need for the 2003 SN CRAC rate case. These cells could be used to reflect other events or 'what ifs' whose effects on PBL cash and effects on PBL net revenue are the same.
G31:G36	Cumul. Probab.	The cumulative probability is the probability that there will not have been any deferrals in the time from the start of TPP calculations (Start TPP in TK Yr, A8) through the current year. Thus, for the last year of the TPP calculations, the cumulative probability IS the TPP - the probability of making all Treasury payments over a defined period of years. Cumul. Probab. = 1 - [Cumul. Deferrals]/[No. of Iterations] (F31:F36/C11).
G37	"	The sum of cumulative probabilities has no meaning.
G38	"	The average of cumulative probabilities has no meaning.
G41:G46	FB CRAC Tot. Lim.	Number of times the total rate-period limit for FB CRAC revenue was reached. This is left over from previous design work; since the current design of the FB CRAC does not have a "total limit", these values should all be zero. If not, the value in FB CRAC Lim./Total (J11) has been set too low and should be reset to over 500.
G51:G56	Ave. DvD. per DvD.	The average Dividend Distribution per Dividend Distribution indicates the average size of the Dividend Distribution when they are made. It is the total over all games of the Dividend Distribution amounts per year divided by the number of Dividend Distributions.
H8	Access 4h10C?	Turns on ToolKit logic for modeling the 4(h)(10)(C) credits; these are modeled in RiskMod, so cell H8 should be unchecked.
H11	AutoPrint Res Grph	Automatically print the Reserves Graph at the end of the run to your default printer? Checked = yes.
H16:H19	TBL Int. Cr. Sched.	Amounts of interest credit on TBL reserves assumed in the distributions of cash flows; must be backed out in the ToolKit in order to let the ToolKit calculate the proper, game-specific interest on reserves. These numbers should not be changed except as directed by BPA Finance staff.
H22:H27	Other NR & Csh Adj	These cells allow the user to enter values that will increase (or decrease if negative) the PBL cash and PBL net revenue equally. For example, to model a one-time event in 2004 of increased sale of surplus firm power that was not included in the PBL input file, enter a positive number in the cell for 2004. Both PBL cash and PBL net revenue would be increased. However, to model an event with cash impact but no NR impact, such as a prepayment by a customer, use the cash-only adjustments in cells C22:C27. (Prepayment affects only cash - the revenue would continue to be booked in the year of the delivery of the product.)
H31:H36	Ave. Def. per Year	The average amount of deferral per year is the expected value per year of Treasury payment deferred. It is the sum of deferred amounts over all games for that year divided by the number of games.
H41:H46	SN CRAC Accesses	Number of games in which the SN CRAC triggered. (See Note 2 below.)
H51:H56	Ave. DvD. per Year	The average Dividend Distribution per year is the expected value of the Dividend Distribution. It is the total over all games of the Dividend Distribution amounts divided by the number of games.
I8	PBL Wrkg Capital	PBL Working Capital: the minimum amount of cash (financial reserves) that must be kept on hand at the end of a fiscal year to provide liquidity in early parts of the next year. In the ToolKit, this means that if ending cash would be below PBL working capital in a PBL-only run, a deferral will occur. See also M8, New Deferral Logic.
I11	AutoPrint This Page	Automatically print worksheet "TK_Main" at the end of the run to your default printer? Checked = yes.
I14:I19	FB CRAC Threshold	The FB CRAC Thresholds are used to determine whether the FB CRAC will trigger. About six weeks prior to the start of a fiscal year, BPA makes a forecast of the ending ANR (Accumulated Net Revenue) for the previous year. If this ANR value is below the FB CRAC Threshold, an FB CRAC amount is calculated equal to the lesser of the threshold less the ANR and the annual cap ("FB CRAC Lim/Year", J14:J19). From this amount an FB CRAC surcharge percentage is calculated that will be applied to eligible rate schedules starting October 1. These numbers were set in the 2002 Rate Case, and should not be changed unless you want to model a change in the parameters of the FB CRAC.
I22:I27	Back Out FB CRAC	The file containing PBL NR (the RiskMod file) is based on the assumption that the FB CRAC will trigger at its maximum value each year 2003 through 2006. In some of the games modeled by the ToolKit, ANR increases enough that the FB CRAC for 2004, 5 or 6 would not trigger maximally (especially when an SN CRAC is available). So these cells back out the FB CRAC revenue, allowing the ToolKit to calculate the proper game-specific FB CRAC revenue (which is shown in output cells E41:E46. These values should not be changed unless the FB CRAC assumptions in RiskMod change.
I31:I36	Ave. Def. per Def.	The average deferral per deferral gives an indication of how big deferrals are <i>when they occur</i> . It is the sum of all deferred amounts per year divided by the number of deferrals for that year. It's not the expected value - that is Ave. Def. per Year (H31:H36).
I37	"	The sum of the averages of the deferrals per deferral has no meaning.

I38	"	Average size of deferrals over all years. This is the sum of all deferral sizes, over all years and all games, divided by the total number of deferrals
I41:I46	SN CRAC Ave/ea.	The average SN CRAC access per each gives an indication of how big the SN CRAC collections are <i>when they occur</i> . It is the sum of all SN CRAC amounts per year divided by the number of SN CRAC accesses for that year. It's not the expected value - that is SN CRAC Ave/Yr (J31:J36). (See Note 2 below.)
I47	"	The sum of the averages of the SN CRAC amounts per SN CRAC access has no meaning.
I48	"	Average size of SN CRAC collections over all three years. This is the sum of all SN CRAC amounts over all years and all games, divided by the total number of SN CRAC accesses.
I51:I56	Interest Credit	This is the average (expected value) of the interest credit earned on reserves (PBL reserves if RunType (D7:D8) = PBL only; BPA reserves otherwise). This is calculated game by game and then averaged.
J8	TBL Wrkg Capital	TBL Working Capital: if RunType = BPA, then the BPA working capital will be the sum of the PBL working capital and the TBL working capital. See I8, and M8.
J11	FB CRAC Lim/Total	Restricts the total FB CRAC collections to this amount. This is left over from previous FB CRAC design work and is no longer needed. Therefore, this figure should be set to at least 500 to keep it from erroneously affecting the run.
J14:J19	FB CRAC Lim/Year	The FB CRAC Lim/Year is the annual cap on the size of the FB CRAC amount that can be calculated in determining the FB CRAC surcharge percentage. These numbers were set in the 2002 Rate Case, and should not be changed unless you want to model an FB CRAC different from the one in the current rates.
J22:J27	FB CRAC 1st Month	The first month of a fiscal year in which an FB CRAC would take effect. Useful only when considering design or redesign of the FB CRAC. Since there is a design now - in the GRSPs - these figures should be set to 1 .
J31:J36	Ave. 1st Def./Def.	The average size of the first deferral in the period (per first deferral) gives an indication of how large a deferral might be before emergency actions are taken, like triggering the SN CRAC. The average deferral per deferral, on the other hand, includes deferrals that follow deferrals; these are likely to be large, since there will be no available reserves (only working capital) available after the first deferral. With the SN CRAC available as an emergency tool, actions would be taken that would reduce the size of the second deferral, so the Ave. Def. per Def. probably overstates the magnitude of the average deferral; Ave. 1st Def./Def. may be a better indication of that size.
J37	"	The total of the average size of 1st deferrals does not have any meaning.
J41:J46	SN CRAC Ave/Yr	The average amount of SN CRAC revenue per year is the expected value per year of SN CRAC revenue. It is the sum of SN CRAC amounts over all games for that year divided by the number of games. (See Note 2 below.)
J51:J56	FCCF Credit	The annual amount of FCCF credit earned. This is not used anymore; FCCF credits are calculated in RiskMod.
K8	PBL Strt. ANR	Starting level of PBL ANR (Accumulated Net Revenue): ANR is the variable on which the FB CRAC and SN CRAC trigger.
K11	Enable OnTheFly	If this is checked, a dialog box appears before the end of each run showing the TPP for the run and allowing the user to change the amount of PNRR (or any other assumed source of cash) that will be used in re-calculating TPP. Enter incremental amounts (changes up or down from the value shown in dialog box). Amount applied to each year is equal to the OnTheFly amount times the fraction in OnTheFlyShape (N22:N27). Simply a time-saver compared to doing a whole run, changing numbers in cells on a worksheet. Difficult to use for variable SN CRAC work, but can save time if modeling a fixed SN CRAC. At the end of a run, verify that the OnTheFly adjustments meet your criteria by putting fixed amounts into the appropriate cells (for example, for SN CRAC work, SN CRAC Planned (M25:M27); or for PNRR analyses, Other NR & Csh Adj (H22:H27)).
K14:K19	Div. Dist. Threshold	Threshold for the Dividend Distribution: If the ending ANR is above the Div. Dist. Threshold, the amount by which ANR exceeds the threshold is divided to eligible customers. These numbers were set in the 2002 Rate Case, and should not be changed unless you want to model a change in the Dividend Distribution Clause.
K22:K27	FB CRAC Thr. Type	Specifies whether the FB CRAC will be calculated partway through the year, or (essentially) at the beginning of the year - useful only when contrasting alternative FB CRAC designs. The actual design of the FB CRAC in the GRSPs calls for a calculation to be made in August as if the end-of-year data were known, which means the calculation is "essentially" as if made at the start of the year. These values should be set to 0 .
K31:K36	Ave. End. Reserves	Average (expected value) ending reserves for that year. These calculations are affected by New Def. Logic? (M8): with traditional logic, reserves cannot fall below the working capital level. Under the New Deferral Logic, reserves can fall below working capital and can go negative. This means that a non-deferral in the next year requires making up the "deferred" part of the payment AND making the scheduled payment for the next year.
K37	"	The total of the expected value of ending reserves has no meaning.
K38	"	The average of the expected value of ending reserves has no meaning.

Chapter 7 Documentation Final Study

K41:K46	SN CRAC Ann. Lim.	The number of times per year that the annual limit (cap) on SN CRAC amounts was reached. (See Note 2 below.)
K51:K56	FCCF Use %	The annual frequency of access to the FCCF. This is not used anymore; FCCF credits are calculated in RiskMod.
L11	SN CRAC Fixed?	["Fixed = predetermined."] If checked, the amounts in M25:M27, SN CRAC Planned, are collected no matter what. The parameters for a variable SN CRAC (25O27 -:SN CRAC Threshold, SN CRAC Lim/Year, SN CRAC Deadband, SN CRAC Slope) make no difference.
L14:L19	Div. Dist. Lim/Year	Dividend Distribution Limit per Year: annual cap on the amount of rebate to customers under the Div. Dist. Clause. Left over from design work on the DDC. Since the DDC established in the 2002 Rate Case does not include any annual cap on DDC amounts, these cells should contain very high values (e.g., 20,000 [million]) in order to keep them from having any erroneous impacts.
L22:L27	FB CRAC Slice Frc.	The Slice fraction for the FB CRAC calculations: the FB CRAC rate percentage is calculated as if Slice sales also contribute to raising the calculated amount of the FB CRAC. Since Slice sales are not subject to the FB CRAC, the FB CRAC will raise only a fraction of the calculated amount. Slice customers will contribute their share of risk protection through the Slice True-Up. The Slice fraction is equal to the forecast of revenues subject to the FB CRAC divided by the sum of those revenues and Slice revenues. The values shown are based on the most current forecast of Slice and Non-Slice FB CRACcable revenues. These values should be changed only when there are changes to the forecast of either Slice revenues or FB CRACcable revenues.
L31:L36	Ave. End. PBL ANR	The average (expected value) of PBL's accumulated net revenues (ANR). ANR is the metric on which the FB CRAC and SN CRAC can trigger.
L37	"	The total of the expected value of ending ANR has no meaning.
L38	"	The average of the expected value of ending ANR has no meaning.
L41:L46	SN CRAC Tot. Lim.	Number of times the total rate-period limit for SN CRAC revenue was reached. The current design of the SN CRAC does not have a "total limit", these values will all be zero.
L51:L56	4h10C Credit	The average annual amount of 4(h)(10)(C) credit earned, from a look-up table calculated exogenously. This is not used anymore; 4(h)(10)(C) credits are calculated in RiskMod.
M8	New Def. Logic?	Use the new deferral logic (checked) or the traditional logic (unchecked)? For the 2003 SN CRAC rate case, BPA is proposing a revised way to model deferrals. If ending reserves would be below the working capital amount, a deferral occurs (under new or traditional logic). Under the new logic, the deferral is noted, but reserves are allowed to fall below the working capital level. This means that a Treasury payment success next year will only happen if reserves improve enough to make up for the deferral just noted and to make the next year's payment. Under the traditional logic, if reserves would fall below working capital, the amount of the shortfall (reserves minus working capital) is deferred, and reserves are set at the level of working capital. If the amount of the deferral is equal to or less than the scheduled Federal amortization, the principle is rescheduled for repayment in the next rate period. Any portion of the deferral beyond the size of the scheduled Federal amortization is deferred only to the next year.
M11	CRAC Stats On?	Calculate statistics for the FB CRAC and SN CRAC? If checked, the ToolKit will calculate the standard deviation, maximum and minimum values for the FB CRAC and SN CRAC percentages. These calculations will slow down the ToolKit, so if you are iterating a lot, you may want to leave this off until you have settled on the parameters for your run. The optional stats show up in cells P34:P36, R34:R36, P44:R46.
M14:M19	SN CRAC Threshold	Threshold for the SN CRAC. See worksheet "SN CRAC Dox". Values for ToolKit years 1 through 3 have no impact.
M22:M27	SN CRAC Planned	Planned amounts for SN CRAC collection. If SN CRAC Fixed (L11) is checked, these amounts of annual revenue will be assumed by the ToolKit to be collected. If SN CRAC Fixed (L11) is unchecked, then if either the SN CRAC Deadband value (O17:O19) or the SN CRAC Slope (P17:P19) value is non-negative, the Planned amount will affect the SN CRAC calculations (see worksheet "SN CRAC Dox"). If SN Fixed is off and the Deadband and Slope values are blank or zero, the Planned amount has no effect on the SN CRAC calculations. Only values for the last three years, ToolKit years 4 -6, fiscal years 2004 - 6, have any effect.
M31:M36	OnTheFly Adjustmt.	The On-The-Fly adjustment can be turned on in cell K11. It saves time if you are iterating to find out how much additional cash must be added to all years of the study in order to achieve a particular TPP result. For example, you could use it to dial in the right amount of PNRR to meet a TPP standard, or the amounts of a fixed SN CRAC. These cells report the final value of the additional cash per year chosen through use of On-The-Fly. See Enable On-The-Fly (K11).
M41:M46	FB CRAC Freqncy	The frequency of the FB CRAC triggering per year = FB CRAC Accesses (C41:C46) divided by No.of Iterations (C11). (See Note 1 below.)
M48	"	This is not the average of the FB CRAC frequencies; it is the three-year frequency (total number of accesses (C47) / total number of games (three times No. of Iterations (C11))).
M52:M53	LB C	Average annual LB CRAC rate increases already calculated for FY 2002 & 2003 (as a percentage of the May 2000 base rates).
M54:M56	LB C	Current forecast of LB CRAC rate increases for FY 2004 through 2006 (as a percentage of the May 2000 base rates).

Chapter 7 Documentation Final Study

N14:N19	SN CRAC Lim/Year	Limit per year is the annual cap on how much revenue the SN CRAC can generate. See worksheet "SN CRAC Dox". Setting the value for a year to zero turns off the SN CRAC for that year.
N22:N27	OnTheFlyShape	These cells contain shaping factors for use with the OnTheFly adjustment for faster iteration over PNRR or Fixed SN CRAC amounts when solving for, e.g., TPP values. See Enable OnTheFly (K11).
N31	BPA Strt Bal	This cell reports the expected value of the starting reserve balance, either a BPA figure if RunType = BPA, or a PBL-only figure. The ToolKit is currently set up to handle only deterministic starting reserve balances, not random starting balances, so it's not very informative at the moment.
N38	FCCF Strt Bal	The starting balance in the FCCF (Fish Cost Contingency Fund) is not relevant to current runs, since FCCF is modeled in RiskMod and is embedded in the RiskMod output file that the ToolKit reads in.
N41:N46 N48	SN CRAC Freqncy "	The frequency of the SN CRAC triggering per year = SN CRAC Accesses (H41:H46) divided by No. of Iterations (C11). (See Note 2 below.) This is not the average of the SN CRAC frequencies; it is the three-year frequency (total number of accesses (H47) / total number of games (three times No. of Iterations (C11))).
N53	FB C	The FB CRAC rate increase percentage for FY 2003 as calculated in August 2002 and applied to bills starting Oct 1, 2002, the start of FY 2003 (as a percentage of May 2000 base rates).
N54:N56	FB C	The expected value of the FB CRAC rate increase percentage for FYs 2004 through 2006 as calculated over 3000 games (as a percentage of May 2000 base rates).
O16:O19	SN CRAC Deadband	Parameters for a complex variable SN CRAC; see worksheet "SN CRAC Dox". Only values for the last three years, ToolKit years 4 -6, fiscal years 2004 - 6, have any effect.
O22:O27	SN CRAC Rev Basis	The revenue basis for the SN CRAC is the forecast of the total, unCRACced revenue for sales subject to the SN CRAC. This means without any LB CRAC, FB CRAC, or SN CRAC revenues. These numbers should not be changed except at the direction of the BPA Rates staff or if you are modeling an SN CRAC applying to a different set of rates than specified in the 2002 Rate Case GRSPs.
O32:O36	Total PBL Net Reven	These are the annual sums of 1) the PBL net revenue from RiskMod with FB CRAC revenue assumptions backed out (C53:C57); 2) the expected value of FB CRAC revenues (E44:E46); 3) the expected value of SN CRAC revenue (J44:J46); and 4) and user-added adjustments that affect both cash and net revenue (G25:H27).
O37	"	The four-year total of the expected values of annual PBL net revenue. To translate to a five-year total, add in the net revenue for 2002, negative \$390.5 million.
O38	"	The mean of the four-year total in O37.
O41:O46	Ave. FB + SN	The expected value of the sum of the FB CRAC revenue and the SN CRAC revenue = E41:E46 + J41:J46. (See Notes 1 & 2 below.)
O54:O56	SN C	The expected value of the SN CRAC rate increase percentage for FYs 2004 through 2006 as calculated over 3000 games (as a percentage of May 2000 base rates).
P16:P19	SN CRAC Slope	Parameters for a complex variable SN CRAC; see worksheet "SN CRAC Dox". Only values for the last three years, ToolKit years 4 -6, fiscal years 2004 - 6, have any effect.
P22:P27	FB CRAC Rev Basis	The revenue basis for the FB CRAC is the forecast of the total, unCRACced revenue for sales subject to the FB CRAC. This means without any LB CRAC, FB CRAC, or SN CRAC revenues. These numbers should not be changed except at the direction of the BPA Rates staff.
P34:P36	Max Tot Rate	The total rate (including LB CRAC, FB CRAC, SN CRAC) expressed as a percentage above the total (CRACced) rate for 2003: these values are the maximum values observed in the set of games (usually 3,000 games).
P38	Max Tot Rate - Ave.	This figure is the maximum of the (3000) 3-year averages; it is not the average of the three one-year maxima.
P41:P46	SN CRAC Std Dev.	The standard deviation of the SN CRAC (expressed as a percentage above May 2000 base rates). (See Note 2 below.)
P48	"	The average of the three standard deviations in P44:P46.
P54:P56	FB+LB+SN	The expected value of the sum of the three CRAC rate increase percentage for FYs 2004 through 2006 as calculated over 3000 games (as a percentage of May 2000 base rates).
Q34:Q36	E.V. Tot. Rate	The expected value of the total (CRACced) rate as a percentage above the total (CRACced) 2003 rate.
Q38	E.V. Tot Rate - Ave.	The expected value of the average three-year rate increase. (This figure is equal to the average of the three one-year expected values.)
Q41:Q46	FB CRAC Std Dev.	The standard deviation of the FB CRAC (expressed as a percentage above May 2000 base rates). (See Note 1 below.)
Q48	"	The average of the three standard deviations in Q44:Q46.
Q53:Q56	DDC	The expected value of the Dividend Distributions for FYs 2003 through 2006 as calculated over 3000 games (as a percentage of May 2000 base rates).

Chapter 7 Documentation Final Study

R34:R36	Min Tot Rate	The total rate (including LB CRAC, FB CRAC, SN CRAC) expressed as a percentage above the total (CRACced) rate for 2003: these values are the minimum values observed in the set of games (usually 3,000 games).
R38	Min Tot Rate - Ave	This figure is the minimum of the (3000) 3-year averages; it is not the average of the three one-year minima.
R41:R46	SN + FB Std Dev.	The standard deviation of the combined SN & FB CRACs (expressed as a percentage above May 2000 base rates). This is different from the sum of the two standard deviations. (See Notes 1 & 2 below.)
R48	"	The average of the three standard deviations in R44:R46.
R53:R56	Net	The sum of the total CRAC percentage (P53:P54) and the DDC percentage (Q53:Q54) (expressed as a percentage of the May 2000 base rates).

Notes

- 1 Since the FB CRAC triggered in August, 2002, for FY 2003, the FB CRAC stats for 2003 are hard-wired. The FB CRAC percentage is an input from PBL's rate staff, not a calculation made in the ToolKit. The stats for the FB CRAC in 2004 through 2006 are ToolKit calculations. (There was no FB CRAC in 2001, and it did not trigger for 2002.)
- 2 The SN CRAC cannot apply to 2001 through 2003, so there will be no values for these years.