

**BEFORE THE FLORIDA PUBLIC SERVICE
COMMISSION**

DOCKET NO. 040029-EG

**DEMAND-SIDE MANAGEMENT PLAN OF
FLORIDA POWER & LIGHT COMPANY**

PLAN DOCUMENT APPENDIX A

NOVEMBER 30, 2004

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OVERVIEW

Methodology Used to Test Program Cost-Effectiveness for this Docket

For this docket, FPL combined the measures from its DSM portfolio that were used to develop FPL's DSM Goals into DSM programs. Since these measures had already proven to be cost-effective individually, FPL expected that the resulting programs would be cost-effective.

This expectation of program cost-effectiveness has been verified using the Commission's approved cost-effectiveness methodology. A detailed description of the process used is presented below:

Step 1: The measures that passed FPL's cost-effectiveness analyses in the DSM Goals Docket were first combined, as appropriate, into residential and commercial/industrial programs.

Step 2: For residential programs, FPL used weighted average kW and kWh savings per-participant values to conduct its cost-effectiveness analyses. These weighted average values were based on both on the various measures included in the program and on the annual sign-ups projected for each measure.

For commercial/industrial (C/I) programs, FPL used 1 Summer kW as a "participant". FPL has used this convention in numerous DSM program filings in the past and has chosen to use it again in this filing. This is because of the various ways in which the

achievable potential values for C/I measures were developed and the difficulty in combining these different types of achievable potential values. For instance, achievable potential values for lighting were analyzed on a per-fixture basis, and some air conditioning measures were analyzed on a per-ton basis. In addition, several of the C/I program include multiple measures with widely divergent savings per installation. Since it would be difficult to combine such divergent achievable values for a C/I program consisting of different measures, a common basis for “participant” is needed.

Therefore, FPL chose to use 1 Summer kW as a common measure for "a participant" for its C/I programs. Total "participants" for each year were the total Summer demand savings divided by 1 kW. The per participant Winter kW and annual kWh savings were developed by computing the ratio of total Winter kW or annual kWh savings of a program to the program's total Summer kW savings and applying that ratio to 1 kW.

Step 3: For cost-effectiveness evaluation purposes, the annual sign-ups for each program were developed for the period 2005 through 2009. The resulting kw and kwh savings from these signups were compared to the net costs of a 2010 combined cycle unit of comparable size. FPL utilized this same approach of using a 2010 combined cycle as the “avoided unit” for the cost-effectiveness analyses of individual DSM measures in its DSM Goals work. The use of a single unit; i.e., a 2010 combined cycle unit, was developed from examination of the Supply Only Resource Plan developed during the DSM Goals work. The 2010 “avoided unit” allows cost-effectiveness calculations that are

representative of the impact DSM will have over the entire 2005 – 2014 time period while focusing on the initial 5-year DSM signup period of the new Goals.

Step 4: The cost-effectiveness of each program was then determined by a cost-effectiveness analysis based on the Commission's approved cost-effectiveness methodology versus the 2010 combined cycle capacity. In these analyses, FPL's programs passed both the RIM and Participant Tests in each case.

The combined cycle cost and performance assumptions used in these analyses are the same as those used for the cost-effectiveness screening analysis of individual measures, and the EGEAS cost-effectiveness analysis of the DSM portfolio, in the DSM Goals Docket work. The same fuel cost and the same escalation rates used in the DSM Goals Docket work were also used for all analyses in this proceeding.

The results of these cost-effectiveness analyses of each residential and each C/I DSM program are presented in the table below. Results for the Rate Impact Measure test, the Participant test, and the Total Resource Cost test are provided. For each test, the net present value (NPV) benefits, costs, and benefit-to-cost ratio are given.

SUMMARY OF COST-EFFECTIVENESS ANALYSIS RESULTS

Residential	Rate Impact Measure			Participant Test			Total Resource Cost		
Program	NPV Total Benefits	NPV Total Costs	B/C Ratio	NPV Total Benefits	NPV Total Costs	B/C Ratio	NPV Total Benefits	NPV Total Costs	B/C Ratio
Building Envelope	\$53,668	\$51,684	1.04	\$72,452	\$30,264	2.39	\$53,668	\$34,004	1.58
Duct System Testing & Repair	\$26,439	\$25,928	1.02	\$33,656	\$11,417	2.95	\$26,439	\$14,985	1.76
Air Conditioning	\$279,430	\$272,989	1.02	\$392,527	\$268,011	1.46	\$279,430	\$276,175	1.01
Load Management	\$47,795	\$36,416	1.31	\$20,457	\$0	Infinite	\$47,795	\$16,384	2.92
New Construction	\$51,830	\$49,023	1.06	\$52,981	\$30,234	1.75	\$51,830	\$46,938	1.10
Low Income Weatherization	\$769	\$730	1.05	\$977	\$558	1.75	\$769	\$660	1.16

C/I	Rate Impact Measure			Participant Test			Total Resource Cost		
Program	NPV Total Benefits	NPV Total Costs	B/C Ratio	NPV Total Benefits	NPV Total Costs	B/C Ratio	NPV Total Benefits	NPV Total Costs	B/C Ratio
Heating, Vent & Air Conditioning	\$48,001	\$45,371	1.06	\$45,570	\$31,713	1.44	\$48,001	\$34,741	1.38
Efficient Lighting	\$29,293	\$29,059	1.01	\$35,744	\$8,653	4.13	\$29,293	\$9,153	3.20
Building Envelope	\$17,833	\$16,785	1.06	\$18,652	\$12,544	1.49	\$17,833	\$14,010	1.27
Business Custom Incentive	\$3,556	\$3,416	1.04	\$4,048	\$1,856	2.18	\$3,556	\$1,877	1.89
Business On Call	\$17,028	\$11,193	1.52	\$7,601	\$0	Infinite	\$17,028	\$3,597	4.73
C/I Demand Reduction	\$21,363	\$17,027	1.25	\$15,737	0	Infinite	\$21,363	\$1,338	15.97

RESIDENTIAL BUILDING ENVELOPE

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Building Envelope

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.29 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.39 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	741.54 kWh
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	0.00 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

02 SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)

*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

* INPUT DATA -- PART 1 CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Building Envelope

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	818	2,140	0	2,957	372	0	5,322	18	5,340	
2006	913	2,393	0	3,306	1,164	0	5,957	85	6,042	
2007	951	2,454	0	3,404	2,000	0	6,204	193	6,397	
2008	993	2,519	0	3,512	2,900	0	6,485	329	6,815	
2009	1,041	2,588	0	3,629	3,826	0	6,802	496	7,298	
2010	0	0	0	0	4,301	0	0	597	597	
2011	0	0	0	0	4,312	0	0	614	614	
2012	0	0	0	0	4,363	0	0	632	632	
2013	0	0	0	0	4,408	0	0	650	650	
2014	0	0	0	0	4,408	0	0	668	668	
2015	0	0	0	0	4,436	0	0	688	688	
2016	0	0	0	0	4,448	0	0	707	707	
2017	0	0	0	0	4,487	0	0	728	728	
2018	0	0	0	0	4,567	0	0	750	750	
2019	0	0	0	0	4,611	0	0	774	774	
2020	0	0	0	0	4,656	0	0	800	800	
2021	0	0	0	0	4,701	0	0	827	827	
2022	0	0	0	0	4,747	0	0	855	855	
2023	0	0	0	0	4,793	0	0	885	885	
2024	0	0	0	0	4,839	0	0	915	915	
2025	0	0	0	0	4,886	0	0	947	947	
2026	0	0	0	0	4,933	0	0	980	980	
2027	0	0	0	0	4,981	0	0	1,015	1,015	
2028	0	0	0	0	5,030	0	0	1,051	1,051	
2029	0	0	0	0	5,078	0	0	1,089	1,089	

NOM	4,715	12,092	0	16,808	103,248	0	30,770	17,294	0	48,064
NPV	3,740	9,611	0	13,351	38,333	0	24,402	5,862	0	30,264

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: Residential Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	BEG-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2010	20,797	636	0	1,258	832	0	0	812	0	3,539	3,539	3,539	20,306
2011	19,984	612	0	1,209	535	399	82	812	267	3,915	3,628	7,167	20,915
2012	18,905	579	0	1,144	536	383	84	812	225	3,762	3,229	10,396	21,543
2013	17,868	547	0	1,081	534	366	87	812	187	3,614	2,874	13,270	22,189
2014	16,869	516	0	1,021	532	349	89	812	151	3,471	2,558	15,828	22,855
2015	15,906	487	0	962	528	333	92	812	118	3,332	2,275	18,103	23,540
2016	14,975	458	0	906	523	316	95	812	88	3,198	2,023	20,127	24,246
2017	14,075	431	0	852	517	299	97	812	60	3,068	1,799	21,925	24,974
2018	13,203	404	0	799	489	283	100	812	55	2,942	1,598	23,523	25,723
2019	12,336	377	0	746	456	266	103	812	55	2,817	1,417	24,940	26,495
2020	11,469	351	0	694	423	250	106	812	55	2,691	1,255	26,195	27,290
2021	10,601	324	0	641	390	233	110	812	55	2,566	1,108	27,303	28,108
2022	9,734	298	0	589	357	216	113	812	55	2,440	977	28,280	28,952
2023	8,867	271	0	536	324	200	116	812	55	2,315	858	29,138	29,820
2024	7,999	245	0	484	291	183	120	812	55	2,190	752	29,891	30,715
2025	7,132	218	0	431	258	166	123	812	55	2,065	657	30,548	31,636
2026	6,265	192	0	379	225	150	127	812	55	1,940	572	31,120	32,585
2027	5,397	165	0	327	192	133	131	812	55	1,815	496	31,616	33,563
2028	4,530	139	0	274	159	116	135	812	55	1,691	428	32,044	34,570
2029	3,663	112	0	222	126	100	139	812	55	1,566	367	32,412	35,607
2030	2,796	86	0	169	265	83	143	812	(116)	1,442	313	32,725	36,675
2031	2,099	64	0	127	409	67	147	812	(287)	1,339	270	32,995	37,775
2032	1,574	48	0	95	389	50	152	812	(287)	1,259	235	33,230	38,908
2033	1,050	32	0	63	370	33	156	812	(287)	1,180	204	33,434	40,076
2034	525	16	0	32	350	17	161	812	(287)	1,100	176	33,610	41,278

IN SERVICE COST (\$000)	20,306
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE

C/S	55%	11.00
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K-FACTOR = CPWFC / IN-SVC COST = 1.65516

07

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	746	746	812	812	745	745	0	1,684	0	0	0	0	(491)
2011	7.22%	1,436	2,182	812	1,624	745	1,490	267	1,684	0	0	0	267	(224)
2012	6.68%	1,328	3,511	812	2,437	745	2,235	225	1,684	0	0	0	225	1
2013	6.18%	1,230	4,740	812	3,249	745	2,980	187	1,684	0	0	0	187	188
2014	5.71%	1,137	5,877	812	4,061	745	3,724	151	1,684	0	0	0	151	339
2015	5.29%	1,051	6,928	812	4,873	745	4,469	118	1,684	0	0	0	118	457
2016	4.89%	972	7,901	812	5,686	745	5,214	88	1,684	0	0	0	88	545
2017	4.52%	900	8,800	812	6,498	745	5,959	60	1,684	0	0	0	60	605
2018	4.46%	888	9,688	812	7,310	745	6,704	55	1,684	0	0	0	55	660
2019	4.46%	888	10,576	812	8,122	745	7,449	55	1,684	0	0	0	55	715
2020	4.46%	888	11,463	812	8,935	745	8,194	55	1,684	0	0	0	55	770
2021	4.46%	888	12,351	812	9,747	745	8,939	55	1,684	0	0	0	55	825
2022	4.46%	888	13,238	812	10,559	745	9,683	55	1,684	0	0	0	55	880
2023	4.46%	888	14,126	812	11,371	745	10,428	55	1,684	0	0	0	55	935
2024	4.46%	888	15,014	812	12,184	745	11,173	55	1,684	0	0	0	55	990
2025	4.46%	888	15,901	812	12,996	745	11,918	55	1,684	0	0	0	55	1,045
2026	4.46%	888	16,789	812	13,808	745	12,663	55	1,684	0	0	0	55	1,101
2027	4.46%	888	17,676	812	14,620	745	13,408	55	1,684	0	0	0	55	1,156
2028	4.46%	888	18,564	812	15,433	745	14,153	55	1,684	0	0	0	55	1,211
2029	4.46%	888	19,452	812	16,245	745	14,898	55	1,684	0	0	0	55	1,266
2030	2.23%	444	19,896	812	17,057	745	15,642	(116)	1,684	0	0	0	(116)	1,150
2031	0.00%	0	19,896	812	17,869	745	16,387	(287)	1,684	0	0	0	(287)	862
2032	0.00%	0	19,896	812	18,682	745	17,132	(287)	1,684	0	0	0	(287)	575
2033	0.00%	0	19,896	812	19,494	745	17,877	(287)	1,684	0	0	0	(287)	288
2034	0.00%	0	19,896	812	20,306	745	18,622	(287)	1,684	0	0	0	(287)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(491)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,684
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

11

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_RBQ
 PROGRAM NAME: Residential Building Envelope

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	PLANT IN SERVICE NET \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2010	3.75%	746	0	20,306	812	(491)	20,797	19,984	20,391
2011	7.22%	1,436	267	19,494	1,624	(224)	19,984	18,905	19,445
2012	6.68%	1,328	225	18,682	2,437	1	18,905	17,868	18,387
2013	6.18%	1,230	187	17,869	3,249	188	17,868	16,869	17,369
2014	5.71%	1,137	151	17,057	4,061	339	16,869	15,906	16,387
2015	5.29%	1,051	118	16,245	4,873	457	15,906	14,975	15,440
2016	4.89%	972	88	15,433	5,686	545	14,975	14,075	14,525
2017	4.52%	900	60	14,620	6,498	605	14,075	13,203	13,639
2018	4.46%	888	55	13,808	7,310	660	13,203	12,336	12,769
2019	4.46%	888	55	12,996	8,122	715	12,336	11,469	11,902
2020	4.46%	888	55	12,184	8,935	770	11,469	10,601	11,035
2021	4.46%	888	55	11,371	9,747	825	10,601	9,734	10,168
2022	4.46%	888	55	10,559	10,559	880	9,734	8,867	9,300
2023	4.46%	888	55	9,747	11,371	935	8,867	7,999	8,433
2024	4.46%	888	55	8,935	12,184	990	7,999	7,132	7,566
2025	4.46%	888	55	8,122	12,996	1,045	7,132	6,265	6,698
2026	4.46%	888	55	7,310	13,808	1,101	6,265	5,397	5,831
2027	4.46%	888	55	6,498	14,620	1,156	5,397	4,530	4,964
2028	4.46%	888	55	5,686	15,433	1,211	4,530	3,663	4,096
2029	4.46%	888	55	4,873	16,245	1,266	3,663	2,796	3,229
2030	2.23%	444	(116)	4,061	17,057	1,150	2,796	2,099	2,447
2031	0.00%	0	(287)	3,249	17,869	862	2,099	1,574	1,837
2032	0.00%	0	(287)	2,437	18,682	575	1,574	1,050	1,312
2033	0.00%	0	(287)	1,624	19,494	288	1,050	525	787
2034	0.00%	0	(287)	812	20,306	0	525	0	262

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

(8) YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	-4	41.19	1.26	1.26	3.23	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	-3	165.15	5.07	6.33	12.99	16.22	11.20	14.00	(2.36)	(2.96)	172.08	257.69
2008	-2	345.08	10.65	16.98	27.29	43.51	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	-1	521.64	16.20	33.18	41.51	85.02	35.05	72.37	(7.27)	(15.11)	165.28	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	17,544	17,544	17,544
EQUITY AFUDC	1,684		
DEBT AFUDC	1,078	1,078	
CPI			2,351
TOTAL	20,306	18,622	19,895

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Residential Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.04	4.61	0.00	1.00	1.00
2005	15,642	15,642	3.88	4.64	4.24	0.00	1.00	1.00
2006	32,174	32,174	3.77	4.58	4.13	0.00	1.00	1.00
2007	48,804	48,804	3.71	4.45	4.06	0.00	1.00	1.00
2008	65,551	65,551	3.66	4.52	4.02	0.00	1.00	1.00
2009	82,436	82,436	3.79	4.70	4.15	0.00	1.00	1.00
2010	82,436	82,436	3.90	4.66	4.22	5.14	1.00	1.00
2011	82,436	82,436	4.17	4.91	4.52	5.31	1.00	1.00
2012	82,436	82,436	4.18	5.01	4.50	4.92	1.00	1.00
2013	82,436	82,436	4.31	5.21	4.66	4.83	1.00	1.00
2014	82,436	82,436	4.39	5.32	4.74	4.91	1.00	1.00
2015	82,436	82,436	4.55	5.55	4.92	4.98	1.00	1.00
2016	82,436	82,436	4.69	5.73	5.06	5.27	1.00	1.00
2017	82,436	82,436	4.77	5.80	5.14	6.18	1.00	1.00
2018	82,436	82,436	4.92	5.98	5.30	6.59	1.00	1.00
2019	82,436	82,436	5.06	6.13	5.43	5.84	1.00	1.00
2020	82,436	82,436	5.16	6.29	5.55	5.71	1.00	1.00
2021	82,436	82,436	5.26	6.41	5.64	5.71	1.00	1.00
2022	82,436	82,436	5.50	6.70	5.90	6.49	1.00	1.00
2023	82,436	82,436	5.57	6.63	5.94	7.93	1.00	1.00
2024	82,436	82,436	5.66	6.72	6.03	8.04	1.00	1.00
2025	82,436	82,436	5.76	6.81	6.13	8.15	1.00	1.00
2026	82,436	82,436	5.87	6.90	6.22	8.26	1.00	1.00
2027	82,436	82,436	5.97	6.99	6.32	8.37	1.00	1.00
2028	82,436	82,436	6.07	7.08	6.41	8.49	1.00	1.00
2029	82,436	82,436	6.18	7.17	6.51	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Building Envelope

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	3,539	1,154	28	4,902	6,818	2,805
2011	3,915	1,205	48	8,412	11,717	1,863
2012	3,762	1,259	50	8,673	10,990	2,754
2013	3,614	1,316	51	8,876	10,809	3,048
2014	3,471	1,376	52	9,166	10,970	3,095
2015	3,332	1,440	53	9,398	10,871	3,353
2016	3,198	1,505	55	9,978	11,618	3,118
2017	3,068	1,571	55	9,978	13,191	1,481
2018	2,942	1,639	56	10,181	13,940	878
2019	2,817	1,712	58	10,559	12,373	2,771
2020	2,691	1,789	59	10,791	11,903	3,426
2021	2,566	1,871	59	10,878	11,661	3,712
2022	2,440	1,955	62	11,690	13,407	2,741
2023	2,315	2,039	58	11,023	14,921	514
2024	2,190	2,127	59	11,139	14,788	727
2025	2,065	2,221	60	11,256	14,656	946
2026	1,940	2,321	60	11,374	14,525	1,171
2027	1,815	2,427	61	11,494	14,395	1,403
2028	1,691	2,538	62	11,615	14,267	1,639
2029	1,566	2,653	63	11,737	14,139	1,880

NOM	54,937	36,117	1,107	203,121	251,958	43,325
NPV	20,504	10,913	354	64,194	80,007	15,958

10
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AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Building Envelope

(1) YEAR	(2) AVOIDED TRANSMISSION CAP COST \$(000)	(3) AVOIDED TRANSMISSION O&M COST \$(000)	(4) TOTAL AVOIDED TRANSMISSION COST \$(000)	(5) AVOIDED DISTRIBUTION CAP COST \$(000)	(6) AVOIDED DISTRIBUTION O&M COST \$(000)	(7) TOTAL AVOIDED DISTRIBUTION COST \$(000)	(8) PROGRAM FUEL SAVINGS \$(000)	(8a)* PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	297	0
2006	101	17	117	20	7	28	905	0
2007	205	35	241	42	15	57	1,478	0
2008	308	56	363	62	24	86	2,152	0
2009	408	78	486	83	34	116	2,897	0
2010	507	103	610	103	44	147	3,146	0
2011	488	107	595	99	46	145	3,291	0
2012	469	112	581	95	48	143	3,386	0
2013	451	117	568	91	50	142	3,538	0
2014	434	122	556	88	53	140	3,614	0
2015	416	128	545	84	55	139	3,784	0
2016	400	134	533	81	57	138	3,916	0
2017	383	140	523	78	60	138	3,946	0
2018	366	146	512	74	63	137	4,069	0
2019	350	152	502	71	65	136	4,169	0
2020	333	159	492	68	68	136	4,290	0
2021	317	166	483	64	71	136	4,370	0
2022	300	174	474	61	75	136	4,571	0
2023	284	181	465	57	78	135	4,468	0
2024	267	189	456	54	81	135	4,518	0
2025	251	197	448	51	85	136	4,568	0
2026	234	206	441	48	89	136	4,618	0
2027	219	216	435	44	93	137	4,669	0
2028	205	226	431	42	97	138	4,720	0
2029	193	236	429	39	101	140	4,772	0
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NOM.	7,891	3,397	11,288	1,599	1,458	3,057	90,152	0
NPV	1,345	1,107	4,452	678	475	1,153	37,105	0

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	818	5,340	0	6,158	0	0	297	0	297	(5,860)	(5,430)
2006	0	913	6,042	0	6,955	0	145	905	0	1,050	(5,905)	(10,499)
2007	0	951	6,397	0	7,348	0	297	1,478	0	1,776	(5,572)	(14,930)
2008	0	993	6,815	0	7,808	0	450	2,152	0	2,602	(5,206)	(18,767)
2009	0	1,041	7,298	0	8,338	0	602	2,897	0	3,500	(4,839)	(22,071)
2010	0	0	597	0	597	2,805	757	3,146	0	6,708	6,111	(18,205)
2011	0	0	614	0	614	1,863	740	3,291	0	5,894	5,280	(15,110)
2012	0	0	632	0	632	2,754	724	3,386	0	6,864	6,232	(11,725)
2013	0	0	650	0	650	3,048	710	3,538	0	7,296	6,646	(8,381)
2014	0	0	668	0	668	3,095	696	3,614	0	7,405	6,737	(5,240)
2015	0	0	688	0	688	3,353	684	3,784	0	7,821	7,134	(2,159)
2016	0	0	707	0	707	3,118	672	3,916	0	7,706	6,998	642
2017	0	0	728	0	728	1,481	660	3,946	0	6,087	5,359	2,629
2018	0	0	750	0	750	878	649	4,069	0	5,595	4,846	4,294
2019	0	0	774	0	774	2,771	638	4,169	0	7,578	6,804	6,460
2020	0	0	800	0	800	3,426	628	4,290	0	8,344	7,545	8,685
2021	0	0	827	0	827	3,712	619	4,370	0	8,701	7,874	10,837
2022	0	0	855	0	855	2,741	610	4,571	0	7,921	7,066	12,626
2023	0	0	885	0	885	514	600	4,468	0	5,582	4,698	13,728
2024	0	0	915	0	915	727	592	4,518	0	5,837	4,921	14,797
2025	0	0	947	0	947	946	584	4,568	0	6,097	5,150	15,835
2026	0	0	980	0	980	1,171	577	4,618	0	6,367	5,386	16,840
2027	0	0	1,015	0	1,015	1,403	572	4,669	0	6,644	5,628	17,813
2028	0	0	1,051	0	1,051	1,639	569	4,720	0	6,928	5,877	18,754
2029	0	0	1,089	0	1,089	1,880	569	4,772	0	7,221	6,132	19,664

NOM	0	4,715	48,064	0	52,779	43,325	14,345	90,152	0	147,822	95,044
NPV	0	3,740	30,264	0	34,004	15,958	5,605	32,105	0	53,668	19,664

Discount Rate:

7.93 %

Benefit/Cost Ratio (Col(11) / Col(6)) :

1.58

2.1

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	610	0	2,140	0	2,749	5,322	18	0	5,340	(2,591)	(2,400)
2006	1,908	0	2,393	0	4,300	5,957	85	0	6,042	(1,741)	(3,895)
2007	3,279	0	2,454	0	5,733	6,204	193	0	6,397	(664)	(4,423)
2008	4,754	0	2,519	0	7,273	6,485	329	0	6,815	458	(4,086)
2009	6,273	0	2,588	0	8,860	6,802	496	0	7,298	1,563	(3,018)
2010	7,050	0	0	0	7,050	0	597	0	597	6,453	1,064
2011	7,069	0	0	0	7,069	0	614	0	614	6,455	4,848
2012	7,152	0	0	0	7,152	0	632	0	632	6,521	8,389
2013	7,227	0	0	0	7,227	0	650	0	650	6,577	11,698
2014	7,227	0	0	0	7,227	0	668	0	668	6,558	14,756
2015	7,273	0	0	0	7,273	0	688	0	688	6,585	17,600
2016	7,291	0	0	0	7,291	0	707	0	707	6,584	20,236
2017	7,356	0	0	0	7,356	0	728	0	728	6,629	22,693
2018	7,486	0	0	0	7,486	0	750	0	750	6,736	25,008
2019	7,559	0	0	0	7,559	0	774	0	774	6,785	27,168
2020	7,632	0	0	0	7,632	0	800	0	800	6,833	29,183
2021	7,706	0	0	0	7,706	0	827	0	827	6,879	31,063
2022	7,781	0	0	0	7,781	0	855	0	855	6,926	32,816
2023	7,857	0	0	0	7,857	0	885	0	885	6,972	34,452
2024	7,933	0	0	0	7,933	0	915	0	915	7,017	35,977
2025	8,010	0	0	0	8,010	0	947	0	947	7,063	37,399
2026	8,088	0	0	0	8,088	0	980	0	980	7,107	38,725
2027	8,166	0	0	0	8,166	0	1,015	0	1,015	7,151	39,962
2028	8,245	0	0	0	8,245	0	1,051	0	1,051	7,194	41,114
2029	8,325	0	0	0	8,325	0	1,089	0	1,089	7,236	42,188

NOM	169,258	0	12,092	0	181,351	30,770	17,294	0	48,064	133,287
NPV	62,841	0	9,611	0	72,452	24,402	5,862	0	30,264	42,188

In Service of Gen Unit:
Discount Rate :
Benefit/Cost Ratio (Col(6) / Col(10))

2010

RATE IMPACT TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	818	2,140	372	0	3,329	297	0	0	0	297	(3,032)	(2,809)
2006	0	913	2,393	1,164	0	4,470	905	145	0	0	1,050	(3,419)	(5,744)
2007	0	951	2,454	2,000	0	5,405	1,478	297	0	0	1,776	(3,629)	(8,631)
2008	0	993	2,519	2,900	0	6,412	2,152	450	0	0	2,602	(3,810)	(11,439)
2009	0	1,041	2,588	3,826	0	7,455	2,897	602	0	0	3,500	(3,955)	(14,139)
2010	0	0	0	4,301	0	4,301	5,951	757	0	0	6,708	2,407	(12,617)
2011	0	0	0	4,312	0	4,312	5,154	740	0	0	5,894	1,582	(11,689)
2012	0	0	0	4,363	0	4,363	6,139	724	0	0	6,864	2,501	(10,331)
2013	0	0	0	4,408	0	4,408	6,586	710	0	0	7,296	2,888	(8,878)
2014	0	0	0	4,408	0	4,408	6,709	696	0	0	7,405	2,997	(7,481)
2015	0	0	0	4,436	0	4,436	7,137	684	0	0	7,821	3,385	(6,019)
2016	0	0	0	4,448	0	4,448	7,034	672	0	0	7,706	3,258	(4,715)
2017	0	0	0	4,487	0	4,487	5,427	660	0	0	6,087	1,600	(4,122)
2018	0	0	0	4,567	0	4,567	4,946	649	0	0	5,595	1,029	(3,768)
2019	0	0	0	4,611	0	4,611	6,940	638	0	0	7,578	2,967	(2,824)
2020	0	0	0	4,656	0	4,656	7,716	628	0	0	8,344	3,689	(1,736)
2021	0	0	0	4,701	0	4,701	8,082	619	0	0	8,701	4,000	(643)
2022	0	0	0	4,747	0	4,747	7,312	610	0	0	7,921	3,175	161
2023	0	0	0	4,793	0	4,793	4,982	600	0	0	5,582	790	346
2024	0	0	0	4,839	0	4,839	5,245	592	0	0	5,837	998	563
2025	0	0	0	4,886	0	4,886	5,513	584	0	0	6,097	1,211	807
2026	0	0	0	4,933	0	4,933	5,790	577	0	0	6,367	1,433	1,075
2027	0	0	0	4,981	0	4,981	6,072	572	0	0	6,644	1,662	1,362
2028	0	0	0	5,030	0	5,030	6,359	569	0	0	6,928	1,899	1,666
2029	0	0	0	5,078	0	5,078	6,652	569	0	0	7,221	2,143	1,984
NetM	0	4,715	12,092	103,248	0	120,055	133,477	14,345	0	0	147,822	27,767	
NPV	0	3,740	9,611	38,333	0	51,684	48,064	5,605	0	0	53,668	1,984	

Discount Rate

Benefit/Cost Ratio (Col(12) / Col(7)) :

7.93 %
 1.04

61

RESIDENTIAL DUCT SYSTEM TESTING & REPAIR

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.15 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.20 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	333.11 kWh
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	0.00 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

* INPUT DATA - PART I CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Duct System Testing and Repair

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	824	1,131	0	1,955	188	0	2,637	0	2,637	
2006	859	1,155	0	2,014	568	0	2,748	0	2,748	
2007	895	1,178	0	2,073	947	0	2,864	0	2,864	
2008	934	1,199	0	2,134	1,352	0	2,989	0	2,989	
2009	976	1,220	0	2,197	1,763	0	3,124	0	3,124	
2010	0	0	0	0	1,972	0	0	0	0	
2011	0	0	0	0	1,977	0	0	0	0	
2012	0	0	0	0	2,000	0	0	0	0	
2013	0	0	0	0	2,021	0	0	0	0	
2014	0	0	0	0	2,021	0	0	0	0	
2015	0	0	0	0	2,034	0	0	0	0	
2016	0	0	0	0	2,039	0	0	0	0	
2017	0	0	0	0	2,057	0	0	0	0	
2018	0	0	0	0	2,094	0	0	0	0	
2019	0	0	0	0	2,114	0	0	0	0	
2020	0	0	0	0	2,134	0	0	0	0	
2021	0	0	0	0	2,155	0	0	0	0	
2022	0	0	0	0	2,176	0	0	0	0	
2023	0	0	0	0	2,197	0	0	0	0	
2024	0	0	0	0	2,219	0	0	0	0	
2025	0	0	0	0	2,240	0	0	0	0	
2026	0	0	0	0	2,262	0	0	0	0	
2027	0	0	0	0	2,284	0	0	0	0	
2028	0	0	0	0	2,306	0	0	0	0	
2029	0	0	0	0	2,328	0	0	0	0	
NOM	4,489	5,884	0	10,373	47,449	0	14,363	0	14,363	
NPV	3,568	4,694	0	8,262	17,667	0	11,417	0	11,417	

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GEN K-FACTOR
 PROGRAM METHOD SELECTED REV_REQ
 PROGRAM NAME: Duct System Testing and Repair

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BEG-YEAR	DEBT	PREFERRED	COMMON	INCOME	PROPERTY	PROPERTY	DEPREC.	DEFERRED	TOTAL	PRESENT	CUMULATIVE	REPLACEMENT
RATE BASE	\$(000)	STOCK	EQUITY	TAXES	TAX	INSURANCE	\$(000)	TAXES	FIXED	WORTH	PW FIXED	COST BASIS
\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	CHARGES	CHARGES	CHARGES	FOR
YEAR									\$(000)	\$(000)	\$(000)	PROPERTY INSURANCE
												\$(000)
2010	10,929	334	0	661	437	0	427	0	1,860	1,860	1,860	10,671
2011	10,502	321	0	635	281	210	43	427	2,058	1,906	3,766	10,991
2012	9,935	304	0	601	281	201	44	427	1,977	1,697	5,463	11,321
2013	9,390	287	0	568	281	192	45	427	1,899	1,510	6,974	11,661
2014	8,865	271	0	536	280	184	47	427	1,824	1,344	8,318	12,010
2015	8,359	256	0	506	278	175	48	427	1,751	1,196	9,514	12,371
2016	7,870	241	0	476	275	166	50	427	1,681	1,063	10,577	12,742
2017	7,397	226	0	447	272	157	51	427	1,612	945	11,522	13,124
2018	6,938	212	0	420	257	149	53	427	1,546	840	12,362	13,518
2019	6,483	198	0	392	240	140	54	427	1,480	745	13,106	13,923
2020	6,027	184	0	365	222	131	56	427	1,414	659	13,766	14,341
2021	5,571	170	0	337	205	122	58	427	1,348	582	14,348	14,771
2022	5,115	157	0	309	188	114	59	427	1,282	513	14,861	15,214
2023	4,660	143	0	282	170	105	61	427	1,217	451	15,313	15,671
2024	4,204	129	0	254	153	96	63	427	1,151	395	15,708	16,141
2025	3,748	115	0	227	136	87	65	427	1,085	345	16,053	16,625
2026	3,292	101	0	199	118	79	67	427	1,020	301	16,354	17,124
2027	2,836	87	0	172	101	70	69	427	954	261	16,615	17,638
2028	2,381	73	0	144	84	61	71	427	888	225	16,840	18,167
2029	1,925	59	0	116	66	52	73	427	823	193	17,033	18,712
2030	1,469	45	0	89	139	44	75	427	(61)	758	165	17,197
2031	1,103	34	0	67	215	35	77	427	(151)	704	142	17,339
2032	827	25	0	50	205	26	80	427	(151)	662	123	17,463
2033	552	17	0	33	194	17	82	427	(151)	620	107	17,570
2034	276	8	0	17	184	9	85	427	(151)	578	93	17,662

IN SERVICE COST (\$000)	10,671
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	45%	6.80%
P/S	0%	0.00%
C/S	55%	11.00%

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_RBQ
 PROGRAM NAME: Duct System Testing and Repair

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX
2010	3.75%	392	392	427	427	391	391	0	885	0	0	0	0	(258)
2011	7.22%	755	1,147	427	854	391	783	140	885	0	0	0	140	(118)
2012	6.68%	698	1,845	427	1,281	391	1,174	118	885	0	0	0	118	1
2013	6.18%	646	2,491	427	1,707	391	1,566	98	885	0	0	0	98	99
2014	5.71%	597	3,088	427	2,134	391	1,957	79	885	0	0	0	79	178
2015	5.29%	553	3,641	427	2,561	391	2,349	62	885	0	0	0	62	240
2016	4.89%	511	4,152	427	2,988	391	2,740	46	885	0	0	0	46	287
2017	4.52%	473	4,625	427	3,415	391	3,132	31	885	0	0	0	31	318
2018	4.46%	467	5,091	427	3,842	391	3,523	29	885	0	0	0	29	347
2019	4.46%	466	5,558	427	4,268	391	3,914	29	885	0	0	0	29	376
2020	4.46%	467	6,024	427	4,695	391	4,306	29	885	0	0	0	29	405
2021	4.46%	466	6,491	427	5,122	391	4,697	29	885	0	0	0	29	434
2022	4.46%	467	6,957	427	5,549	391	5,089	29	885	0	0	0	29	463
2023	4.46%	466	7,423	427	5,976	391	5,480	29	885	0	0	0	29	492
2024	4.46%	467	7,890	427	6,403	391	5,872	29	885	0	0	0	29	520
2025	4.46%	466	8,356	427	6,830	391	6,263	29	885	0	0	0	29	549
2026	4.46%	467	8,823	427	7,256	391	6,655	29	885	0	0	0	29	578
2027	4.46%	466	9,289	427	7,683	391	7,046	29	885	0	0	0	29	607
2028	4.46%	467	9,756	427	8,110	391	7,437	29	885	0	0	0	29	636
2029	4.46%	466	10,222	427	8,537	391	7,829	29	885	0	0	0	29	665
2030	2.23%	233	10,455	427	8,964	391	8,220	(61)	885	0	0	0	(61)	604
2031	0.00%	0	10,455	427	9,391	391	8,612	(151)	885	0	0	0	(151)	453
2032	0.00%	0	10,455	427	9,817	391	9,003	(151)	885	0	0	0	(151)	302
2033	0.00%	0	10,455	427	10,244	391	9,395	(151)	885	0	0	0	(151)	151
2034	0.00%	0	10,455	427	10,671	391	9,786	(151)	885	0	0	0	(151)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(258)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	885
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Duct System Testing and Repair

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	END OF YEAR NET PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2010	3.75%	392	0	10,671	427	(258)	10,929	10,502	10,716
2011	7.22%	755	140	10,244	854	(118)	10,502	9,935	10,219
2012	6.68%	698	118	9,817	1,281	1	9,935	9,390	9,663
2013	6.18%	646	98	9,391	1,707	99	9,390	8,865	9,127
2014	5.71%	597	79	8,964	2,134	178	8,865	8,359	8,612
2015	5.29%	553	62	8,537	2,561	240	8,359	7,870	8,114
2016	4.89%	511	46	8,110	2,988	287	7,870	7,397	7,633
2017	4.52%	473	31	7,683	3,415	318	7,397	6,938	7,168
2018	4.46%	467	29	7,256	3,842	347	6,938	6,483	6,711
2019	4.46%	466	29	6,830	4,268	376	6,483	6,027	6,255
2020	4.46%	467	29	6,403	4,695	405	6,027	5,571	5,799
2021	4.46%	466	29	5,976	5,122	434	5,571	5,115	5,343
2022	4.46%	467	29	5,549	5,549	463	5,115	4,660	4,887
2023	4.46%	466	29	5,122	5,976	492	4,660	4,204	4,432
2024	4.46%	467	29	4,695	6,403	520	4,204	3,748	3,976
2025	4.46%	466	29	4,268	6,830	549	3,748	3,292	3,520
2026	4.46%	467	29	3,842	7,256	578	3,292	2,836	3,064
2027	4.46%	466	29	3,415	7,683	607	2,836	2,381	2,609
2028	4.46%	467	29	2,988	8,110	636	2,381	1,925	2,153
2029	4.46%	466	29	2,561	8,537	665	1,925	1,469	1,697
2030	2.23%	233	(61)	2,134	8,964	604	1,469	1,103	1,286
2031	0.00%	0	(151)	1,707	9,391	453	1,103	827	965
2032	0.00%	0	(151)	1,281	9,817	302	827	552	689
2033	0.00%	0	(151)	854	10,244	151	552	276	414
2034	0.00%	0	(151)	427	10,671	0	276	0	138

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	41.19	1.26	1.26	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	165.15	5.07	6.33	12.99	11.20	14.00	(2.36)	(2.96)	172.08	257.69
2008	345.08	10.65	16.98	27.29	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	521.64	16.20	33.18	41.51	35.05	72.37	(7.27)	(15.11)	165.28	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	9,220	9,220	9,220
EQUITY AFUDC	885		
DEBT AFUDC	567	567	
CPI			1,235
TOTAL	10,671	9,786	10,455

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Duct System Testing and Repair

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.12	4.54	0.00	1.00	1.00
2005	16,176	16,176	3.88	4.68	4.18	0.00	1.00	1.00
2006	32,694	32,694	3.77	4.65	4.07	0.00	1.00	1.00
2007	49,535	49,535	3.71	4.50	3.99	0.00	1.00	1.00
2008	66,685	66,685	3.66	4.58	3.95	0.00	1.00	1.00
2009	84,134	84,134	3.79	4.75	4.08	0.00	1.00	1.00
2010	84,134	84,134	3.90	4.71	4.16	5.14	1.00	1.00
2011	84,134	84,134	4.17	4.97	4.45	5.31	1.00	1.00
2012	84,134	84,134	4.18	5.08	4.43	4.92	1.00	1.00
2013	84,134	84,134	4.31	5.30	4.58	4.83	1.00	1.00
2014	84,134	84,134	4.39	5.41	4.67	4.91	1.00	1.00
2015	84,134	84,134	4.55	5.67	4.84	4.98	1.00	1.00
2016	84,134	84,134	4.69	5.84	4.98	5.27	1.00	1.00
2017	84,134	84,134	4.77	5.93	5.06	6.18	1.00	1.00
2018	84,134	84,134	4.92	6.13	5.22	6.59	1.00	1.00
2019	84,134	84,134	5.06	6.28	5.34	5.84	1.00	1.00
2020	84,134	84,134	5.16	6.47	5.46	5.71	1.00	1.00
2021	84,134	84,134	5.26	6.60	5.56	5.71	1.00	1.00
2022	84,134	84,134	5.50	6.89	5.80	6.49	1.00	1.00
2023	84,134	84,134	5.57	6.81	5.86	7.93	1.00	1.00
2024	84,134	84,134	5.66	6.88	5.95	8.04	1.00	1.00
2025	84,134	84,134	5.76	6.95	6.04	8.15	1.00	1.00
2026	84,134	84,134	5.87	7.03	6.14	8.26	1.00	1.00
2027	84,134	84,134	5.97	7.10	6.23	8.37	1.00	1.00
2028	84,134	84,134	6.07	7.17	6.33	8.49	1.00	1.00
2029	84,134	84,134	6.18	7.24	6.43	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

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AVOIDED GENERATING BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Duct System Testing and Repair

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	1,860	606	15	2,576	3,583	1,474
2011	2,058	633	25	4,421	6,158	979
2012	1,977	662	26	4,558	5,775	1,447
2013	1,899	692	27	4,665	5,680	1,602
2014	1,824	723	28	4,817	5,765	1,627
2015	1,751	757	28	4,939	5,713	1,762
2016	1,681	791	29	5,244	6,105	1,639
2017	1,612	825	29	5,244	6,932	778
2018	1,546	861	29	5,351	7,326	461
2019	1,480	900	30	5,549	6,502	1,456
2020	1,414	940	31	5,671	6,255	1,801
2021	1,348	983	31	5,716	6,128	1,951
2022	1,282	1,028	33	6,143	7,046	1,440
2023	1,217	1,071	31	5,793	7,841	270
2024	1,151	1,118	31	5,854	7,771	382
2025	1,085	1,167	31	5,915	7,702	497
2026	1,020	1,220	32	5,977	7,633	616
2027	954	1,275	32	6,040	7,565	737
2028	888	1,334	33	6,104	7,497	861
2029	823	1,394	33	6,168	7,430	988

NOM	28,870	18,980	582	106,743	132,408	22,768
NPV	10,775	5,735	186	33,735	42,045	8,386

AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME : Duct System Testing and Repair

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	140	0
2006	54	9	62	11	4	15	424	0
2007	107	18	126	22	8	30	686	0
2008	161	29	190	33	13	45	999	0
2009	214	41	255	43	18	61	1,347	0
2010	267	54	321	54	23	77	1,465	0
2011	257	56	313	52	24	76	1,536	0
2012	247	59	306	50	25	75	1,585	0
2013	237	62	299	48	26	74	1,661	0
2014	228	64	292	46	28	74	1,700	0
2015	219	67	286	44	29	73	1,789	0
2016	210	70	280	43	30	73	1,846	0
2017	201	73	275	41	32	72	1,868	0
2018	193	77	269	39	33	72	1,934	0
2019	184	80	264	37	34	72	1,981	0
2020	175	84	259	36	36	71	2,048	0
2021	167	87	254	34	38	71	2,089	0
2022	158	91	249	32	39	71	2,180	0
2023	149	95	244	30	41	71	2,133	0
2024	140	99	240	28	43	71	2,148	0
2025	132	104	236	27	45	71	2,162	0
2026	123	108	232	25	47	72	2,177	0
2027	115	113	229	23	49	72	2,192	0
2028	108	119	227	22	51	73	2,206	0
2029	101	124	225	21	53	74	2,221	0
NOM.	4,146	1,785	5,931	840	766	1,606	42,518	0
NPV	1,757	582	2,339	356	250	606	15,108	0

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Duct System Testing and Repair

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	824	2,637	0	3,461	0	0	140	0	140	(3,321)	(3,077)
2006	0	859	2,748	0	3,607	0	77	424	0	501	(3,106)	(5,744)
2007	0	895	2,864	0	3,759	0	156	686	0	841	(2,918)	(8,065)
2008	0	934	2,989	0	3,924	0	235	999	0	1,233	(2,690)	(10,047)
2009	0	976	3,124	0	4,101	0	316	1,347	0	1,663	(2,438)	(11,712)
2010	0	0	0	0	0	1,474	398	1,465	0	3,337	3,337	(9,601)
2011	0	0	0	0	0	979	389	1,536	0	2,904	2,904	(7,899)
2012	0	0	0	0	0	1,447	381	1,585	0	3,413	3,413	(6,045)
2013	0	0	0	0	0	1,602	373	1,661	0	3,636	3,636	(4,216)
2014	0	0	0	0	0	1,627	366	1,700	0	3,693	3,693	(2,494)
2015	0	0	0	0	0	1,762	359	1,789	0	3,911	3,911	(805)
2016	0	0	0	0	0	1,639	353	1,846	0	3,838	3,838	731
2017	0	0	0	0	0	778	347	1,868	0	2,994	2,994	1,841
2018	0	0	0	0	0	461	341	1,934	0	2,736	2,736	2,781
2019	0	0	0	0	0	1,456	336	1,981	0	3,773	3,773	3,982
2020	0	0	0	0	0	1,801	330	2,048	0	4,179	4,179	5,215
2021	0	0	0	0	0	1,951	325	2,089	0	4,365	4,365	6,408
2022	0	0	0	0	0	1,440	320	2,180	0	3,941	3,941	7,406
2023	0	0	0	0	0	270	316	2,133	0	2,719	2,719	8,043
2024	0	0	0	0	0	382	311	2,148	0	2,841	2,841	8,661
2025	0	0	0	0	0	497	307	2,162	0	2,966	2,966	9,258
2026	0	0	0	0	0	616	303	2,177	0	3,096	3,096	9,836
2027	0	0	0	0	0	737	301	2,192	0	3,229	3,229	10,394
2028	0	0	0	0	0	861	299	2,206	0	3,367	3,367	10,933
2029	0	0	0	0	0	988	299	2,221	0	3,508	3,508	11,454

NOM	0	4,489	14,363	0	18,852	22,768	7,538	42,518	0	72,824	53,972
NPV	0	3,568	11,417	0	14,985	8,386	2,944	15,108	0	26,439	11,454

Discount Rate: 7.93 %
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.76

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PARTICIPANT COSTS AND BENEFITS
 PROGRAM METHOD SELECTED: REV REQ
 PROGRAM NAME: Duct System Testing and Repair

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	309	0	1,131	0	1,440	2,637	0	0	2,637	(1,197)	(1,109)
2006	931	0	1,155	0	2,087	2,748	0	0	2,748	(662)	(1,677)
2007	1,553	0	1,178	0	2,731	2,864	0	0	2,864	(133)	(1,783)
2008	2,216	0	1,199	0	3,416	2,989	0	0	2,989	426	(1,469)
2009	2,890	0	1,220	0	4,110	3,124	0	0	3,124	986	(796)
2010	3,232	0	0	0	3,232	0	0	0	0	3,232	1,249
2011	3,241	0	0	0	3,241	0	0	0	0	3,241	3,148
2012	3,279	0	0	0	3,279	0	0	0	0	3,279	4,929
2013	3,313	0	0	0	3,313	0	0	0	0	3,313	6,596
2014	3,313	0	0	0	3,313	0	0	0	0	3,313	8,141
2015	3,334	0	0	0	3,334	0	0	0	0	3,334	9,581
2016	3,343	0	0	0	3,343	0	0	0	0	3,343	10,919
2017	3,373	0	0	0	3,373	0	0	0	0	3,373	12,170
2018	3,432	0	0	0	3,432	0	0	0	0	3,432	13,349
2019	3,466	0	0	0	3,466	0	0	0	0	3,466	14,452
2020	3,499	0	0	0	3,499	0	0	0	0	3,499	15,484
2021	3,533	0	0	0	3,533	0	0	0	0	3,533	16,450
2022	3,567	0	0	0	3,567	0	0	0	0	3,567	17,353
2023	3,602	0	0	0	3,602	0	0	0	0	3,602	18,198
2024	3,637	0	0	0	3,637	0	0	0	0	3,637	18,988
2025	3,672	0	0	0	3,672	0	0	0	0	3,672	19,728
2026	3,708	0	0	0	3,708	0	0	0	0	3,708	20,420
2027	3,744	0	0	0	3,744	0	0	0	0	3,744	21,067
2028	3,780	0	0	0	3,780	0	0	0	0	3,780	21,672
2029	3,817	0	0	0	3,817	0	0	0	0	3,817	22,239

NOM	77,785	0	5,884	0	83,669	14,363	0	0	14,363	69,306
NPV	28,962	0	4,694	0	33,656	11,417	0	0	11,417	22,239

In Service of Gen Unit:

Discount Rate :

2010

7.93 %

Benefit/Cost Ratio (Col(6) / Col(10))

1.95



RATE IMPACT TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Duct System Testing and Repair

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	824	1,131	188	0	2,144	140	0	0	0	140	(2,004)	(1,857)
2006	0	859	1,155	568	0	2,582	424	77	0	0	501	(2,081)	(3,643)
2007	0	895	1,178	947	0	3,020	686	156	0	0	841	(2,179)	(5,376)
2008	0	934	1,199	1,352	0	3,486	999	235	0	0	1,233	(2,252)	(7,036)
2009	0	976	1,220	1,763	0	3,959	1,347	316	0	0	1,663	(2,297)	(8,604)
2010	0	0	0	1,972	0	1,972	2,939	398	0	0	3,337	1,365	(7,741)
2011	0	0	0	1,977	0	1,977	2,515	389	0	0	2,904	927	(7,197)
2012	0	0	0	2,000	0	2,000	3,032	381	0	0	3,413	1,413	(6,430)
2013	0	0	0	2,021	0	2,021	3,263	373	0	0	3,636	1,615	(5,617)
2014	0	0	0	2,021	0	2,021	3,327	366	0	0	3,693	1,672	(4,838)
2015	0	0	0	2,034	0	2,034	3,551	359	0	0	3,911	1,877	(4,027)
2016	0	0	0	2,039	0	2,039	3,485	353	0	0	3,838	1,799	(3,308)
2017	0	0	0	2,057	0	2,057	2,647	347	0	0	2,994	936	(2,960)
2018	0	0	0	2,094	0	2,094	2,395	341	0	0	2,736	643	(2,740)
2019	0	0	0	2,114	0	2,114	3,438	336	0	0	3,773	1,659	(2,211)
2020	0	0	0	2,134	0	2,134	3,849	330	0	0	4,179	2,045	(1,608)
2021	0	0	0	2,155	0	2,155	4,040	325	0	0	4,365	2,210	(1,004)
2022	0	0	0	2,176	0	2,176	3,620	320	0	0	3,941	1,765	(558)
2023	0	0	0	2,197	0	2,197	2,403	316	0	0	2,719	522	(435)
2024	0	0	0	2,219	0	2,219	2,530	311	0	0	2,841	623	(300)
2025	0	0	0	2,240	0	2,240	2,659	307	0	0	2,966	726	(154)
2026	0	0	0	2,262	0	2,262	2,793	303	0	0	3,096	834	2
2027	0	0	0	2,284	0	2,284	2,929	301	0	0	3,229	946	165
2028	0	0	0	2,306	0	2,306	3,067	299	0	0	3,367	1,061	335
2029	0	0	0	2,328	0	2,328	3,209	299	0	0	3,508	1,180	510

NOM	0	4,489	5,884	47,449	0	57,822	65,286	7,538	0	0	72,824	15,002
NPV	0	3,568	4,694	17,667	0	25,928	23,494	2,944	0	0	26,439	510

Discount Rate

7.93 %

Benefit/Cost Ratio (Col(12) / Col(7)) :

1.02

60
70

RESIDENTIAL AIR CONDITIONING

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.45 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.61 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	1,150.87 kWh
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	0.00 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

* INPUT DATA -- PART I CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Air Conditioning

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	1,552	14,711	0	16,263	2,626	0	51,685	0	51,685	
2006	1,181	10,854	0	12,035	7,185	0	38,688	0	38,688	
2007	1,264	11,352	0	12,616	11,051	0	41,326	0	41,326	
2008	1,367	11,967	0	13,334	15,321	0	44,607	0	44,607	
2009	1,476	12,557	0	14,033	19,796	0	48,035	0	48,035	
2010	0	0	0	0	22,107	0	0	0	0	
2011	0	0	0	0	22,165	0	0	0	0	
2012	0	0	0	0	22,427	0	0	0	0	
2013	0	0	0	0	22,659	0	0	0	0	
2014	0	0	0	0	22,659	0	0	0	0	
2015	0	0	0	0	22,805	0	0	0	0	
2016	0	0	0	0	22,863	0	0	0	0	
2017	0	0	0	0	23,067	0	0	0	0	
2018	0	0	0	0	23,474	0	0	0	0	
2019	0	0	0	0	23,702	0	0	0	0	
2020	2,349	14,711	0	17,059	23,932	0	78,227	0	78,227	
2021	1,810	10,854	0	12,664	24,164	0	59,319	0	59,319	
2022	1,961	11,352	0	13,313	24,398	0	64,119	0	64,119	
2023	2,141	11,967	0	14,108	24,635	0	69,858	0	69,858	
2024	2,328	12,557	0	14,885	24,874	0	75,769	0	75,769	
2025	0	0	0	0	25,116	0	0	0	0	
2026	0	0	0	0	25,359	0	0	0	0	
2027	0	0	0	0	25,605	0	0	0	0	
2028	0	0	0	0	25,854	0	0	0	0	
2029	0	0	0	0	26,105	0	0	0	0	
<hr/>										
NOM	17,428	122,882	0	140,311	533,949	0	571,633	0	571,633	
NPV	8,164	65,085	0	73,249	199,740	0	268,011	0	268,011	

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS



CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: Residential Air Conditioning

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BEG-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2010	105,859	3,239	0	6,404	4,235	0	4,134	2	18,015	18,015	18,015	103,359
2011	101,722	3,113	0	6,154	2,723	2,032	4,134	1,357	19,929	18,464	36,480	106,460
2012	96,230	2,945	0	5,822	2,726	1,947	4,134	1,146	19,148	16,437	52,917	109,654
2013	90,950	2,783	0	5,502	2,719	1,863	4,134	952	18,394	14,630	67,547	112,943
2014	85,864	2,627	0	5,195	2,709	1,778	4,134	769	17,666	13,019	80,566	116,332
2015	80,961	2,477	0	4,898	2,689	1,693	4,134	602	16,962	11,582	92,148	119,822
2016	76,224	2,332	0	4,612	2,665	1,609	4,134	447	16,280	10,299	102,447	123,416
2017	71,643	2,192	0	4,334	2,633	1,524	4,134	304	15,618	9,155	111,601	127,119
2018	67,205	2,056	0	4,066	2,488	1,439	4,134	280	14,976	8,133	119,734	130,932
2019	62,790	1,921	0	3,799	2,321	1,355	4,134	280	14,336	7,214	126,948	134,860
2020	58,376	1,786	0	3,532	2,153	1,270	4,134	280	13,697	6,386	133,334	138,906
2021	53,961	1,651	0	3,265	1,985	1,185	4,134	280	13,059	5,641	138,975	143,073
2022	49,546	1,516	0	2,998	1,817	1,101	4,134	280	12,421	4,971	143,946	147,366
2023	45,132	1,381	0	2,730	1,650	1,016	4,134	280	11,784	4,370	148,316	151,787
2024	40,717	1,246	0	2,463	1,482	931	4,134	280	11,147	3,830	152,145	156,340
2025	36,302	1,111	0	2,196	1,315	847	4,134	280	10,511	3,346	155,491	161,030
2026	31,888	976	0	1,929	1,146	762	4,134	280	9,875	2,913	158,404	165,861
2027	27,473	841	0	1,662	979	677	4,134	280	9,240	2,525	160,929	170,837
2028	23,059	706	0	1,395	811	593	4,134	280	8,605	2,179	163,107	175,962
2029	18,644	570	0	1,128	644	508	4,134	280	7,971	1,870	164,977	181,241
2030	14,229	435	0	861	477	423	4,134	(591)	7,338	1,595	166,572	186,678
2031	10,686	327	0	647	308	339	4,134	(1,463)	6,818	1,373	167,945	192,279
2032	8,014	245	0	485	1,982	254	4,134	(1,463)	6,411	1,196	169,141	198,047
2033	5,342	163	0	323	1,881	169	4,134	(1,463)	6,004	1,038	170,179	203,989
2034	2,671	82	0	162	1,779	85	4,134	(1,463)	5,599	897	171,076	210,108

IN SERVICE COST (\$000)	103,359
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

SOURCE	WEIGHT	COST	
DEBT	45%	6.80	%
P/S	0%	0.00	%
C/S	55%	11.00	%

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	3,797	3,797	4,134	4,134	3,791	3,791	2	8,572	0	0	0	2	(2,497)
2011	7.22%	7,310	11,108	4,134	8,269	3,791	7,583	1,357	8,572	0	0	0	1,357	(1,140)
2012	6.68%	6,762	17,870	4,134	12,403	3,791	11,374	1,146	8,572	0	0	0	1,146	6
2013	6.18%	6,258	24,128	4,134	16,537	3,791	15,166	952	8,572	0	0	0	952	958
2014	5.71%	5,785	29,913	4,134	20,672	3,791	18,957	769	8,572	0	0	0	769	1,727
2015	5.29%	5,352	35,265	4,134	24,806	3,791	22,749	602	8,572	0	0	0	602	2,329
2016	4.89%	4,950	40,215	4,134	28,941	3,791	26,540	447	8,572	0	0	0	447	2,776
2017	4.52%	4,579	44,794	4,134	33,075	3,791	30,332	304	8,572	0	0	0	304	3,079
2018	4.46%	4,519	49,313	4,134	37,209	3,791	34,123	280	8,572	0	0	0	280	3,360
2019	4.46%	4,518	53,830	4,134	41,344	3,791	37,915	280	8,572	0	0	0	280	3,640
2020	4.46%	4,519	58,349	4,134	45,478	3,791	41,706	280	8,572	0	0	0	280	3,920
2021	4.46%	4,518	62,866	4,134	49,612	3,791	45,498	280	8,572	0	0	0	280	4,200
2022	4.46%	4,519	67,385	4,134	53,747	3,791	49,289	280	8,572	0	0	0	280	4,481
2023	4.46%	4,518	71,902	4,134	57,881	3,791	53,081	280	8,572	0	0	0	280	4,761
2024	4.46%	4,519	76,421	4,134	62,016	3,791	56,872	280	8,572	0	0	0	280	5,041
2025	4.46%	4,518	80,938	4,134	66,150	3,791	60,664	280	8,572	0	0	0	280	5,321
2026	4.46%	4,519	85,457	4,134	70,284	3,791	64,455	280	8,572	0	0	0	280	5,602
2027	4.46%	4,518	89,974	4,134	74,419	3,791	68,247	280	8,572	0	0	0	280	5,882
2028	4.46%	4,519	94,493	4,134	78,553	3,791	72,038	280	8,572	0	0	0	280	6,162
2029	4.46%	4,518	99,010	4,134	82,687	3,791	75,830	280	8,572	0	0	0	280	6,443
2030	2.23%	2,259	101,270	4,134	86,822	3,791	79,621	(591)	8,572	0	0	0	(591)	5,851
2031	0.00%	0	101,270	4,134	90,956	3,791	83,413	(1,463)	8,572	0	0	0	(1,463)	4,389
2032	0.00%	0	101,270	4,134	95,091	3,791	87,204	(1,463)	8,572	0	0	0	(1,463)	2,926
2033	0.00%	0	101,270	4,134	99,225	3,791	90,996	(1,463)	8,572	0	0	0	(1,463)	1,464
2034	0.00%	0	101,270	4,134	103,359	3,791	94,787	(1,463)	8,572	0	0	0	(1,463)	1

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(2,499)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	8,572
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Air Conditioning

(1)	(2)	(3)	(4)	(5) END OF YEAR NET	(5a)*	(5b)*	(6) BEGINNING YEAR RATE BASE	(7) ENDING OF YEAR RATE BASE	(8) MID-YEAR RATE BASE
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	YEAR RATE BASE \$(000)	YEAR RATE BASE \$(000)	YEAR RATE BASE \$(000)
2010	3.75%	3,797	2	103,359	4,134	(2,497)	105,859	101,722	103,790
2011	7.22%	7,310	1,357	99,225	8,269	(1,140)	101,722	96,230	98,976
2012	6.68%	6,762	1,146	95,091	12,403	6	96,230	90,950	93,590
2013	6.18%	6,258	952	90,956	16,537	958	90,950	85,864	88,407
2014	5.71%	5,785	769	86,822	20,672	1,727	85,864	80,961	83,412
2015	5.29%	5,352	602	82,687	24,806	2,329	80,961	76,224	78,593
2016	4.89%	4,950	447	78,553	28,941	2,776	76,224	71,643	73,934
2017	4.52%	4,579	304	74,419	33,075	3,079	71,643	67,205	69,424
2018	4.46%	4,519	280	70,284	37,209	3,360	67,205	62,790	64,997
2019	4.46%	4,518	280	66,150	41,344	3,640	62,790	58,376	60,583
2020	4.46%	4,519	280	62,016	45,478	3,920	58,376	53,961	56,168
2021	4.46%	4,518	280	57,881	49,612	4,200	53,961	49,546	51,754
2022	4.46%	4,519	280	53,747	53,747	4,481	49,546	45,132	47,339
2023	4.46%	4,518	280	49,612	57,881	4,761	45,132	40,717	42,924
2024	4.46%	4,519	280	45,478	62,016	5,041	40,717	36,302	38,510
2025	4.46%	4,518	280	41,344	66,150	5,321	36,302	31,888	34,095
2026	4.46%	4,519	280	37,209	70,284	5,602	31,888	27,473	29,680
2027	4.46%	4,518	280	33,075	74,419	5,882	27,473	23,059	25,266
2028	4.46%	4,519	280	28,941	78,553	6,162	23,059	18,644	20,851
2029	4.46%	4,518	280	24,806	82,687	6,443	18,644	14,229	16,437
2030	2.23%	2,259	(591)	20,672	86,822	5,851	14,229	10,686	12,458
2031	0.00%	0	(1,463)	16,537	90,956	4,389	10,686	8,014	9,350
2032	0.00%	0	(1,463)	12,403	95,091	2,926	8,014	5,342	6,678
2033	0.00%	0	(1,463)	8,269	99,225	1,464	5,342	2,671	4,007
2034	0.00%	0	(1,463)	4,134	103,359	1	2,671	1	1,335

* Column not specified in workbook



(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

(11) YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
												100.00%
2004	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	-4	41.19	1.26	1.26	3.23	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	-3	165.15	5.07	6.33	12.99	16.22	11.20	14.00	(2.36)	(2.96)	172.08	257.69
2008	-2	345.08	10.65	16.98	27.29	43.51	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	-1	521.64	16.20	33.18	41.51	85.02	35.05	72.37	(7.27)	(15.11)	165.28	625.03
			33.18		85.02		72.37		(15.11)		625.03	

IN SERVICE YEAR
LANT COSTS 483.29
FUDC RATE 7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	89,300	89,300	89,300
EQUITY AFUDC	8,572		
DEBT AFUDC	5,488	5,488	
CPI			11,967
TOTAL	103,359	94,787	101,267

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Residential Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.12	4.54	0.00	1.00	1.00
2005	58,975	58,975	3.88	4.68	4.18	0.00	1.00	1.00
2006	107,592	107,592	3.77	4.65	4.07	0.00	1.00	1.00
2007	159,134	159,134	3.71	4.50	3.99	0.00	1.00	1.00
2008	214,265	214,265	3.66	4.58	3.95	0.00	1.00	1.00
2009	273,032	273,032	3.79	4.75	4.08	0.00	1.00	1.00
2010	273,032	273,032	3.90	4.71	4.16	5.14	1.00	1.00
2011	273,032	273,032	4.17	4.97	4.45	5.31	1.00	1.00
2012	273,032	273,032	4.18	5.08	4.43	4.92	1.00	1.00
2013	273,032	273,032	4.31	5.30	4.58	4.83	1.00	1.00
2014	273,032	273,032	4.39	5.41	4.67	4.91	1.00	1.00
2015	273,032	273,032	4.55	5.67	4.84	4.98	1.00	1.00
2016	273,032	273,032	4.69	5.84	4.98	5.27	1.00	1.00
2017	273,032	273,032	4.77	5.93	5.06	6.18	1.00	1.00
2018	273,032	273,032	4.92	6.13	5.22	6.59	1.00	1.00
2019	273,032	273,032	5.06	6.28	5.34	5.84	1.00	1.00
2020	273,032	273,032	5.16	6.47	5.46	5.71	1.00	1.00
2021	273,032	273,032	5.26	6.60	5.56	5.71	1.00	1.00
2022	273,032	273,032	5.50	6.89	5.80	6.49	1.00	1.00
2023	273,032	273,032	5.57	6.81	5.86	7.93	1.00	1.00
2024	273,032	273,032	5.66	6.88	5.95	8.04	1.00	1.00
2025	273,032	273,032	5.76	6.95	6.04	8.15	1.00	1.00
2026	273,032	273,032	5.87	7.03	6.14	8.26	1.00	1.00
2027	273,032	273,032	5.97	7.10	6.23	8.37	1.00	1.00
2028	273,032	273,032	6.07	7.17	6.33	8.49	1.00	1.00
2029	273,032	273,032	6.18	7.24	6.43	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

03

AVOIDED GENERATING BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Air Conditioning

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	18,015	5,872	141	24,953	34,703	14,278
2011	19,929	6,133	242	42,818	59,641	9,481
2012	19,148	6,408	252	44,147	55,938	14,016
2013	18,394	6,700	260	45,180	55,019	15,514
2014	17,666	7,004	267	46,657	55,838	15,755
2015	16,962	7,331	268	47,838	55,332	17,067
2016	16,280	7,660	278	50,791	59,137	15,873
2017	15,618	7,994	278	50,791	67,142	7,539
2018	14,976	8,340	283	51,824	70,956	4,468
2019	14,336	8,713	293	53,744	62,980	14,106
2020	13,697	9,105	298	54,925	60,585	17,440
2021	13,059	9,522	301	55,368	59,355	18,896
2022	12,421	9,954	316	59,502	68,243	13,949
2023	11,784	10,378	297	56,106	75,950	2,615
2024	11,147	10,829	301	56,697	75,272	3,702
2025	10,511	11,304	304	57,294	74,599	4,814
2026	9,875	11,817	308	57,897	73,933	5,963
2027	9,240	12,354	312	58,506	73,273	7,139
2028	8,605	12,916	316	59,122	72,619	8,341
2029	7,971	13,504	320	59,744	71,971	9,569

NOM	279,635	183,840	5,635	1,033,903	1,282,487	220,527
NPV	104,369	55,548	1,800	326,751	407,239	81,229



AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME : Residential Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	1,760	0
2006	584	96	680	118	41	159	4,995	0
2007	1,052	182	1,233	213	78	291	7,684	0
2008	1,536	279	1,816	311	120	431	11,084	0
2009	2,046	392	2,438	415	168	583	15,038	0
2010	2,581	522	3,103	523	224	747	16,423	0
2011	2,484	545	3,029	503	234	737	17,219	0
2012	2,388	570	2,958	484	245	729	17,775	0
2013	2,296	596	2,891	465	256	721	18,625	0
2014	2,206	623	2,829	447	267	714	19,060	0
2015	2,119	652	2,771	429	280	709	20,062	0
2016	2,033	681	2,714	412	292	704	20,696	0
2017	1,949	711	2,659	395	305	700	20,948	0
2018	1,864	742	2,606	378	318	696	21,684	0
2019	1,780	775	2,555	361	333	693	22,214	0
2020	1,696	810	2,506	344	348	691	22,964	0
2021	1,612	847	2,459	327	363	690	23,420	0
2022	1,528	885	2,413	310	380	690	24,445	0
2023	1,443	923	2,366	292	396	689	23,917	0
2024	1,359	963	2,322	275	413	689	24,081	0
2025	1,275	1,005	2,280	258	432	690	24,245	0
2026	1,193	1,051	2,244	242	451	693	24,409	0
2027	1,116	1,098	2,214	226	472	698	24,573	0
2028	1,045	1,148	2,193	212	493	705	24,737	0
2029	981	1,201	2,181	199	515	714	24,901	0

NOM	40,166	17,295	57,461	8,139	7,425	15,564	476,960	0
NPV	17,042	5,639	22,681	3,453	2,421	5,874	169,647	0

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,552	51,685	0	53,237	0	0	1,760	0	1,760	(51,476)	(47,694)
2006	0	1,181	38,688	0	39,869	0	839	4,995	0	5,834	(34,035)	(76,912)
2007	0	1,264	41,326	0	42,589	0	1,524	7,684	0	9,209	(33,381)	(103,462)
2008	0	1,367	44,607	0	45,974	0	2,247	11,084	0	13,331	(32,643)	(127,518)
2009	0	1,476	48,035	0	49,511	0	3,021	15,038	0	18,059	(31,452)	(148,993)
2010	0	0	0	0	0	14,278	3,850	16,423	0	34,551	34,551	(127,135)
2011	0	0	0	0	0	9,481	3,767	17,219	0	30,467	30,467	(109,277)
2012	0	0	0	0	0	14,016	3,686	17,775	0	35,477	35,477	(90,010)
2013	0	0	0	0	0	15,514	3,612	18,625	0	37,752	37,752	(71,015)
2014	0	0	0	0	0	15,755	3,543	19,060	0	38,359	38,359	(53,131)
2015	0	0	0	0	0	17,067	3,480	20,062	0	40,609	40,609	(35,590)
2016	0	0	0	0	0	15,873	3,419	20,696	0	39,988	39,988	(19,586)
2017	0	0	0	0	0	7,539	3,359	20,948	0	31,847	31,847	(7,777)
2018	0	0	0	0	0	4,468	3,302	21,684	0	29,454	29,454	2,342
2019	0	0	0	0	0	14,106	3,248	22,214	0	39,569	39,569	14,938
2020	0	2,349	78,227	0	80,575	17,440	3,197	22,964	0	43,602	(36,974)	4,033
2021	0	1,810	59,319	0	61,129	18,896	3,149	23,420	0	45,464	(15,665)	(248)
2022	0	1,961	64,119	0	66,080	13,949	3,102	24,445	0	41,497	(24,583)	(6,472)
2023	0	2,141	69,858	0	72,000	2,615	3,055	23,917	0	29,588	(42,412)	(16,421)
2024	0	2,328	75,769	0	78,097	3,702	3,011	24,081	0	30,794	(47,303)	(26,702)
2025	0	0	0	0	0	4,814	2,970	24,245	0	32,029	32,029	(20,252)
2026	0	0	0	0	0	5,963	2,936	24,409	0	33,308	33,308	(14,038)
2027	0	0	0	0	0	7,139	2,912	24,573	0	34,624	34,624	(8,052)
2028	0	0	0	0	0	8,341	2,898	24,737	0	35,976	35,976	(2,290)
2029	0	0	0	0	0	9,569	2,895	24,901	0	37,366	37,366	3,256

NOM	589,062
NPV	

Discount Rate: 7.93 %
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.01

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PARTICIPANT COSTS AND BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	4,306	0	14,711	0	19,016	51,685	0	0	51,685	(32,668)	(30,268)
2006	11,779	0	10,854	0	22,633	38,688	0	0	38,688	(16,055)	(44,051)
2007	18,117	0	11,352	0	29,469	41,326	0	0	41,326	(11,857)	(53,481)
2008	25,117	0	11,967	0	37,083	44,607	0	0	44,607	(7,523)	(59,025)
2009	32,452	0	12,557	0	45,010	48,035	0	0	48,035	(3,026)	(61,091)
2010	36,241	0	0	0	36,241	0	0	0	0	36,241	(38,165)
2011	36,336	0	0	0	36,336	0	0	0	0	36,336	(16,866)
2012	36,765	0	0	0	36,765	0	0	0	0	36,765	3,100
2013	37,147	0	0	0	37,147	0	0	0	0	37,147	21,791
2014	37,147	0	0	0	37,147	0	0	0	0	37,147	39,109
2015	37,385	0	0	0	37,385	0	0	0	0	37,385	55,258
2016	37,480	0	0	0	37,480	0	0	0	0	37,480	70,258
2017	37,814	0	0	0	37,814	0	0	0	0	37,814	84,280
2018	38,482	0	0	0	38,482	0	0	0	0	38,482	97,501
2019	38,855	0	0	0	38,855	0	0	0	0	38,855	109,869
2020	39,232	0	14,711	0	53,943	78,227	0	0	78,227	(24,284)	102,707
2021	39,613	0	10,854	0	50,467	59,319	0	0	59,319	(8,852)	100,288
2022	39,997	0	11,352	0	51,350	64,119	0	0	64,119	(12,769)	97,055
2023	40,385	0	11,967	0	52,352	69,858	0	0	69,858	(17,506)	92,948
2024	40,777	0	12,557	0	53,335	75,769	0	0	75,769	(22,435)	88,072
2025	41,173	0	0	0	41,173	0	0	0	0	41,173	96,364
2026	41,573	0	0	0	41,573	0	0	0	0	41,573	104,120
2027	41,976	0	0	0	41,976	0	0	0	0	41,976	111,377
2028	42,383	0	0	0	42,383	0	0	0	0	42,383	118,166
2029	42,795	0	0	0	42,795	0	0	0	0	42,795	124,516

NOM	875,326	0	122,882	0	998,208	571,633	0	0	571,633	426,575
NPV	327,442	0	65,085	0	392,527	268,011	0	0	268,011	124,516

In Service of Gen Unit: 2010
 Discount Rate : 7.93 %
 Benefit/Cost Ratio (Col(6) / Col(10)) 1.46

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RATE IMPACT TEST
 PROGRAM METHOD SELECTED: REV. REQ
 PROGRAM NAME: Residential Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,552	14,711	2,626	0	18,889	1,760	0	0	0	1,760	(17,129)	(15,870)
2006	0	1,181	10,854	7,185	0	19,220	4,995	839	0	0	5,834	(13,386)	(27,361)
2007	0	1,264	11,352	11,051	0	23,667	7,684	1,524	0	0	9,209	(14,459)	(38,862)
2008	0	1,367	11,967	15,321	0	28,655	11,084	2,247	0	0	13,331	(15,324)	(50,154)
2009	0	1,476	12,557	19,796	0	33,829	15,038	3,021	0	0	18,059	(15,770)	(60,922)
2010	0	0	0	22,107	0	22,107	30,701	3,850	0	0	34,551	12,444	(53,050)
2011	0	0	0	22,165	0	22,165	26,700	3,767	0	0	30,467	8,302	(48,184)
2012	0	0	0	22,427	0	22,427	31,791	3,686	0	0	35,477	13,051	(41,096)
2013	0	0	0	22,659	0	22,659	34,139	3,612	0	0	37,752	15,092	(33,502)
2014	0	0	0	22,659	0	22,659	34,816	3,543	0	0	38,359	15,699	(26,183)
2015	0	0	0	22,805	0	22,805	37,129	3,480	0	0	40,609	17,804	(18,492)
2016	0	0	0	22,863	0	22,863	36,569	3,419	0	0	39,988	17,125	(11,638)
2017	0	0	0	23,067	0	23,067	28,487	3,359	0	0	31,847	8,780	(8,383)
2018	0	0	0	23,474	0	23,474	26,152	3,302	0	0	29,454	5,980	(6,328)
2019	0	0	0	23,702	0	23,702	36,320	3,248	0	0	39,569	15,867	(1,277)
2020	0	2,349	14,711	23,932	0	40,991	40,405	3,197	0	0	43,602	2,611	(507)
2021	0	1,810	10,854	24,164	0	36,828	42,316	3,149	0	0	45,464	8,636	1,853
2022	0	1,961	11,352	24,398	0	37,712	38,395	3,102	0	0	41,497	3,786	2,811
2023	0	2,141	11,967	24,635	0	38,743	26,533	3,055	0	0	29,588	(9,155)	663
2024	0	2,328	12,557	24,874	0	39,760	27,783	3,011	0	0	30,794	(8,965)	(1,285)
2025	0	0	0	25,116	0	25,116	29,058	2,970	0	0	32,029	6,913	107
2026	0	0	0	25,359	0	25,359	30,372	2,936	0	0	33,308	7,949	1,590
2027	0	0	0	25,605	0	25,605	31,712	2,912	0	0	34,624	9,018	3,149
2028	0	0	0	25,854	0	25,854	33,077	2,898	0	0	35,976	10,122	4,770
2029	0	0	0	26,105	0	26,105	34,470	2,895	0	0	37,366	11,261	6,442

NOM.	0	17,428	122,882	533,949	0	674,259	697,487	73,025	0	0	770,512	96,253
NPV	0	8,164	65,085	199,740	0	272,989	250,875	28,555	0	0	279,430	6,442

Discount Rate 7.93 %
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.02

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RESIDENTIAL LOAD MANAGEMENT

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Load Management (On Call)

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.02 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.37 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	50.71 kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	28.29 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* (8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
* (9) SUPPLY COSTS ESCALATION RATES	*** %**
* (10) UTILITY DISCOUNT RATE	7.93 %
* (11) UTILITY AFUDC RATE	7.84 %
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	13.83 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)

*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

**** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK.

* INPUT DATA -- PART 1 CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Load Management (On Call)

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	575	119	0	694	2	0	0	0	0	
2006	1,316	430	0	1,746	4	0	0	0	0	
2007	2,160	860	0	3,019	71	0	0	0	0	
2008	3,199	1,395	0	4,594	44	0	0	0	0	
2009	4,265	2,018	0	6,284	63	0	0	0	0	
2010	3,264	2,345	0	5,608	74	0	0	0	0	
2011	2,656	2,345	0	5,001	74	0	0	0	0	
2012	1,994	2,345	0	4,339	75	0	0	0	0	
2013	1,264	2,345	0	3,608	76	0	0	0	0	
2014	518	2,345	0	2,862	76	0	0	0	0	
2015	447	2,345	0	2,791	76	0	0	0	0	
2016	460	2,345	0	2,804	76	0	0	0	0	
2017	473	2,345	0	2,817	77	0	0	0	0	
2018	487	2,345	0	2,832	78	0	0	0	0	
2019	502	2,345	0	2,847	79	0	0	0	0	
2020	519	2,345	0	2,863	80	0	0	0	0	
2021	536	2,345	0	2,880	81	0	0	0	0	
2022	554	2,345	0	2,898	81	0	0	0	0	
2023	573	2,345	0	2,917	82	0	0	0	0	
2024	592	2,345	0	2,937	83	0	0	0	0	
2025	613	2,345	0	2,957	84	0	0	0	0	
2026	634	2,345	0	2,979	85	0	0	0	0	
2027	657	2,345	0	3,001	86	0	0	0	0	
2028	680	2,345	0	3,024	86	0	0	0	0	
2029	704	2,345	0	3,049	87	0	0	0	0	
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NOM	29,642	51,712	0	81,354	1,781	0	0	0	0	0
NPV	16,384	19,368	0	35,752	664	0	0	0	0	0

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

PROGRAM METHOD SELECTED REV. REQ
 PROGRAM NAME: Residential Load Management (On Cam)

YEAR	REG-YEAR RATE BASE (\$'000)	DEBT (\$'000)	PREFERRED STOCK (\$'000)	COMMON EQUITY (\$'000)	INCOME TAXES (\$'000)	PROPERTY TAX (\$'000)	PROPERTY INSURANCE (\$'000)	DEPRECIATION (\$'000)	DEFERRED TAXES (\$'000)	TOTAL FIXED CHARGES (\$'000)	PRESENT WORTH (\$'000)	CUMULATIVE PW FIXED CHARGES (\$'000)	REPLACEMENT COST BASIS (\$'000)	FOR PROPERTY INSURANCE (\$'000)
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
2010	45,807	1,402	0	2,771	1,833	0	1,789	1	7,796	7,796	7,796	44,726	44,726	
2011	44,017	1,347	0	2,663	1,178	879	1,789	587	8,624	7,990	15,786	47,450	46,068	
2012	41,641	1,274	0	2,519	1,180	843	1,789	496	8,286	7,113	22,898	47,450	46,068	
2013	39,536	1,204	0	2,381	1,177	191	1,789	412	7,644	6,331	29,229	48,873	48,873	
2014	37,155	1,137	0	2,248	1,172	196	1,789	333	7,045	5,634	34,863	50,339	50,339	
2015	35,033	1,072	0	2,120	1,164	202	1,789	260	7,340	5,012	39,874	51,849	51,849	
2016	32,984	1,009	0	1,996	1,153	696	1,789	193	7,045	4,457	44,331	53,405	53,405	
2017	31,002	949	0	1,876	1,140	660	1,789	121	6,758	3,961	48,292	55,007	55,007	
2018	29,081	890	0	1,759	1,077	623	1,789	221	6,480	3,519	51,812	56,657	56,657	
2019	27,171	831	0	1,644	1,004	588	1,789	228	6,204	3,122	54,933	58,357	58,357	
2020	25,260	773	0	1,528	932	550	1,789	234	5,927	2,763	57,696	60,108	60,108	
2021	23,350	715	0	1,413	859	513	1,789	241	5,651	2,441	60,137	61,911	61,911	
2022	21,440	656	0	1,297	786	476	1,789	249	5,375	2,151	62,288	63,768	63,768	
2023	19,529	598	0	1,182	714	440	1,789	256	5,099	1,891	64,179	65,681	65,681	
2024	17,619	539	0	1,066	641	403	1,789	264	4,824	1,637	65,837	67,652	67,652	
2025	15,709	481	0	950	569	368	1,789	272	4,548	1,448	67,284	69,681	69,681	
2026	13,799	422	0	835	496	330	1,789	280	4,273	1,260	68,545	71,772	71,772	
2027	11,888	364	0	719	424	293	1,789	288	3,998	1,093	69,637	73,925	73,925	
2028	9,978	305	0	604	351	256	1,789	297	3,724	943	70,580	76,143	76,143	
2029	8,068	247	0	488	279	220	1,789	306	3,449	809	71,389	78,427	78,427	
2030	6,157	188	0	373	202	183	1,789	315	3,175	690	72,079	80,780	80,780	
2031	4,624	141	0	280	147	147	1,789	324	2,950	594	72,673	83,203	83,203	
2032	3,468	106	0	210	858	110	1,789	334	2,774	518	73,191	85,699	85,699	
2033	2,312	71	0	140	814	73	1,789	344	2,598	449	73,640	88,270	88,270	
2034	1,156	35	0	70	770	37	1,789	355	2,423	388	74,028	90,918	90,918	

IN SERVICE COST (\$'000)	44,726
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.57%
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	45%	6.80
P/S	0%	0.00
C/S	55%	11.00

K-FACTOR = CPWFC / IN-SVC COST =

1.65516

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Load Management (On Cal

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	1,643	1,643	1,789	1,789	1,641	1,641	1	3,709	0	0	0	1	(1,081)
2011	7.22%	3,163	4,807	1,789	3,578	1,641	3,281	587	3,709	0	0	0	587	(493)
2012	6.68%	2,926	7,733	1,789	5,367	1,641	4,922	496	3,709	0	0	0	496	3
2013	6.18%	2,708	10,441	1,789	7,156	1,641	6,563	412	3,709	0	0	0	412	414
2014	5.71%	2,503	12,944	1,789	8,945	1,641	8,203	333	3,709	0	0	0	333	747
2015	5.29%	2,316	15,260	1,789	10,734	1,641	9,844	260	3,709	0	0	0	260	1,008
2016	4.89%	2,142	17,402	1,789	12,523	1,641	11,485	193	3,709	0	0	0	193	1,201
2017	4.52%	1,982	19,383	1,789	14,312	1,641	13,125	131	3,709	0	0	0	131	1,333
2018	4.46%	1,955	21,339	1,789	16,101	1,641	14,766	121	3,709	0	0	0	121	1,454
2019	4.46%	1,955	23,294	1,789	17,890	1,641	16,407	121	3,709	0	0	0	121	1,575
2020	4.46%	1,955	25,249	1,789	19,679	1,641	18,047	121	3,709	0	0	0	121	1,696
2021	4.46%	1,955	27,204	1,789	21,468	1,641	19,688	121	3,709	0	0	0	121	1,818
2022	4.46%	1,955	29,159	1,789	23,257	1,641	21,329	121	3,709	0	0	0	121	1,939
2023	4.46%	1,955	31,114	1,789	25,046	1,641	22,969	121	3,709	0	0	0	121	2,060
2024	4.46%	1,955	33,069	1,789	26,835	1,641	24,610	121	3,709	0	0	0	121	2,182
2025	4.46%	1,955	35,024	1,789	28,625	1,641	26,251	121	3,709	0	0	0	121	2,303
2026	4.46%	1,955	36,979	1,789	30,414	1,641	27,891	121	3,709	0	0	0	121	2,424
2027	4.46%	1,955	38,934	1,789	32,203	1,641	29,532	121	3,709	0	0	0	121	2,545
2028	4.46%	1,955	40,889	1,789	33,992	1,641	31,173	121	3,709	0	0	0	121	2,667
2029	4.46%	1,955	42,844	1,789	35,781	1,641	32,813	121	3,709	0	0	0	121	2,788
2030	2.23%	978	43,822	1,789	37,570	1,641	34,454	(256)	3,709	0	0	0	(256)	2,532
2031	0.00%	0	43,822	1,789	39,359	1,641	36,095	(633)	3,709	0	0	0	(633)	1,899
2032	0.00%	0	43,822	1,789	41,148	1,641	37,735	(633)	3,709	0	0	0	(633)	1,266
2033	0.00%	0	43,822	1,789	42,937	1,641	39,376	(633)	3,709	0	0	0	(633)	633
2034	0.00%	0	43,822	1,789	44,726	1,641	41,017	(633)	3,709	0	0	0	(633)	1

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,082)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,709
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Load Management (On Call)

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	END OF YEAR NET PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2010	3.75%	1,643	1	44,726	1,789	(1,081)	45,807	44,017	44,912
2011	7.22%	3,163	587	42,937	3,578	(493)	44,017	41,641	42,829
2012	6.68%	2,926	496	41,148	5,367	3	41,641	39,356	40,498
2013	6.18%	2,708	412	39,359	7,156	414	39,356	37,155	38,256
2014	5.71%	2,503	333	37,570	8,945	747	37,155	35,033	36,094
2015	5.29%	2,316	260	35,781	10,734	1,008	35,033	32,984	34,009
2016	4.89%	2,142	193	33,992	12,523	1,201	32,984	31,002	31,993
2017	4.52%	1,982	131	32,203	14,312	1,333	31,002	29,081	30,041
2018	4.46%	1,955	121	30,414	16,101	1,454	29,081	27,171	28,126
2019	4.46%	1,955	121	28,625	17,890	1,575	27,171	25,260	26,215
2020	4.46%	1,955	121	26,835	19,679	1,696	25,260	23,350	24,305
2021	4.46%	1,955	121	25,046	21,468	1,818	23,350	21,440	22,395
2022	4.46%	1,955	121	23,257	23,257	1,939	21,440	19,529	20,485
2023	4.46%	1,955	121	21,468	25,046	2,060	19,529	17,619	18,574
2024	4.46%	1,955	121	19,679	26,835	2,182	17,619	15,709	16,664
2025	4.46%	1,955	121	17,890	28,625	2,303	15,709	13,799	14,754
2026	4.46%	1,955	121	16,101	30,414	2,424	13,799	11,888	12,843
2027	4.46%	1,955	121	14,312	32,203	2,545	11,888	9,978	10,933
2028	4.46%	1,955	121	12,523	33,992	2,667	9,978	8,068	9,023
2029	4.46%	1,955	121	10,734	35,781	2,788	8,068	6,157	7,112
2030	2.23%	978	(256)	8,945	37,570	2,532	6,157	4,624	5,391
2031	0.00%	0	(633)	7,156	39,359	1,899	4,624	3,468	4,046
2032	0.00%	0	(633)	5,367	41,148	1,266	3,468	2,312	2,890
2033	0.00%	0	(633)	3,578	42,937	633	2,312	1,156	1,734
2034	0.00%	0	(633)	1,789	44,726	1	1,156	-1	578

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	41.19	1.26	1.26	3.23	3.23	2.80	2.80	(0.59)	85.60	85.60
2007	165.15	5.07	6.33	12.99	16.22	11.20	14.00	(2.36)	172.08	257.69
2008	345.08	10.65	16.98	27.29	43.51	23.31	37.32	(4.89)	202.07	459.75
2009	521.64	16.20	33.18	41.51	85.02	35.05	72.37	(7.27)	165.28	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	38,642	38,642	38,642
EQUITY AFUDC	3,709		
DEBT AFUDC	2,375	2,375	
CPI			5,178
TOTAL	44,726	41,017	43,820

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Residential Load Management (On Call)

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kWh EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.79	4.24	0.00	1.00	3.00
2005	5,300	5,300	3.88	5.30	3.88	0.00	1.00	0.67
2006	13,800	13,800	3.77	5.43	3.77	0.00	1.00	0.33
2007	24,400	24,400	3.71	5.27	3.73	0.00	1.00	2.67
2008	37,600	37,600	3.66	5.26	3.66	0.00	1.00	1.00
2009	52,100	52,100	3.79	5.43	3.79	0.00	1.00	1.00
2010	52,100	52,100	3.90	5.19	3.90	5.14	1.00	1.00
2011	52,100	52,100	4.17	5.70	4.17	5.31	1.00	1.00
2012	52,100	52,100	4.18	5.40	4.18	4.92	1.00	1.00
2013	52,100	52,100	4.31	5.85	4.31	4.83	1.00	1.00
2014	52,100	52,100	4.39	6.08	4.39	4.91	1.00	1.00
2015	52,100	52,100	4.55	6.65	4.55	4.98	1.00	1.00
2016	52,100	52,100	4.69	6.73	4.69	5.27	1.00	1.00
2017	52,100	52,100	4.77	6.40	4.77	6.18	1.00	1.00
2018	52,100	52,100	4.92	6.74	4.92	6.59	1.00	1.00
2019	52,100	52,100	5.06	7.11	5.06	5.84	1.00	1.00
2020	52,100	52,100	5.16	7.39	5.16	5.71	1.00	1.00
2021	52,100	52,100	5.26	7.85	5.26	5.71	1.00	1.00
2022	52,100	52,100	5.50	8.37	5.50	6.49	1.00	1.00
2023	52,100	52,100	5.57	8.06	5.57	7.93	1.00	1.00
2024	52,100	52,100	5.66	8.87	5.66	8.04	1.00	1.00
2025	52,100	52,100	5.76	9.76	5.76	8.15	1.00	1.00
2026	52,100	52,100	5.87	10.75	5.87	8.26	1.00	1.00
2027	52,100	52,100	5.97	11.83	5.97	8.37	1.00	1.00
2028	52,100	52,100	6.07	13.02	6.07	8.49	1.00	1.00
2029	52,100	52,100	6.18	14.33	6.18	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: Residential Load Management (On Call)

YEAR	(2) AVOIDED CAPACITY COST \$(000)	(3) AVOIDED FIXED O&M GEN UNIT \$(000)	(4) AVOIDED VARIABLE O&M GEN UNIT \$(000)	(5) AVOIDED FUEL COST GEN UNIT \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	7,796	2,541	61	10,797	15,017	6,179
2011	8,624	2,654	105	18,528	25,808	4,103
2012	8,286	2,775	109	19,103	24,206	6,065
2013	7,960	2,899	112	19,550	23,808	6,713
2014	7,644	3,031	115	20,189	24,162	6,838
2015	7,340	3,172	116	20,701	23,943	7,385
2016	7,045	3,315	120	21,978	25,590	6,868
2017	6,758	3,459	120	21,978	29,054	3,262
2018	6,480	3,609	123	22,426	30,704	1,933
2019	6,204	3,770	127	23,256	27,253	6,104
2020	5,927	3,940	129	23,767	26,217	7,547
2021	5,651	4,120	130	23,959	25,684	8,177
2022	5,375	4,307	137	25,748	29,550	6,036
2023	5,099	4,491	129	24,278	32,865	1,132
2024	4,824	4,686	130	24,534	32,572	1,602
2025	4,548	4,892	132	24,792	32,281	2,083
2026	4,273	5,113	133	25,053	31,993	2,580
2027	3,998	5,346	135	25,317	31,707	3,089
2028	3,724	5,589	137	25,583	31,424	3,609
2029	3,449	5,843	138	25,853	31,143	4,141

NPV	45,163	24,037	779	141,392	176,221	35,149
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AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME : Residential Load Management (On Call)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	6	2
2006	119	20	139	14	8	23	10	4
2007	308	53	361	37	23	60	162	58
2008	541	97	638	66	42	107	99	35
2009	829	156	985	101	67	168	147	52
2010	1,140	226	1,366	139	97	236	159	62
2011	1,098	236	1,334	133	101	235	176	66
2012	1,056	247	1,302	128	106	234	163	67
2013	1,015	258	1,272	123	111	234	181	69
2014	975	269	1,245	119	116	234	189	70
2015	937	282	1,219	114	121	235	211	72
2016	900	295	1,194	109	127	236	212	75
2017	863	308	1,170	105	132	237	196	76
2018	826	321	1,147	100	138	238	209	78
2019	789	335	1,125	96	144	240	223	81
2020	753	350	1,103	92	150	242	233	82
2021	716	366	1,083	87	157	244	251	84
2022	680	383	1,063	83	164	247	270	88
2023	643	399	1,042	78	171	250	255	89
2024	606	417	1,023	74	179	253	289	90
2025	570	435	1,005	69	187	256	326	92
2026	534	455	988	65	195	260	366	93
2027	499	475	974	61	204	265	411	95
2028	466	497	963	57	213	270	461	97
2029	437	520	956	53	223	276	516	98
NOM	17,299	7,399	24,698	2,103	3,176	5,279	5,722	1,774
NPV	7,148	2,374	9,522	869	1,019	1,888	1,863	628

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

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TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Load Management (On Call)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GBN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	575	0	0	575	0	0	3	0	3	(572)	(530)
2006	0	1,316	0	0	1,316	0	161	7	0	168	(1,148)	(1,515)
2007	0	2,160	0	0	2,160	0	421	104	0	525	(1,634)	(2,815)
2008	0	3,199	0	0	3,199	0	746	64	0	810	(2,390)	(4,576)
2009	0	4,265	0	0	4,265	0	1,153	95	0	1,248	(3,017)	(6,636)
2010	0	3,264	0	0	3,264	6,179	1,602	97	0	7,877	4,613	(3,718)
2011	0	2,656	0	0	2,656	4,103	1,569	110	0	5,781	3,125	(1,886)
2012	0	1,994	0	0	1,994	6,065	1,536	97	0	7,698	5,704	1,211
2013	0	1,264	0	0	1,264	6,713	1,506	112	0	8,332	7,068	4,768
2014	0	518	0	0	518	6,818	1,479	119	0	8,416	7,898	8,450
2015	0	447	0	0	447	7,385	1,454	139	0	8,978	8,531	12,135
2016	0	460	0	0	460	6,868	1,430	138	0	8,436	7,976	15,328
2017	0	473	0	0	473	3,262	1,407	120	0	4,790	4,317	16,928
2018	0	487	0	0	487	1,933	1,385	130	0	3,449	2,962	17,946
2019	0	502	0	0	502	6,104	1,365	142	0	7,611	7,108	20,209
2020	0	519	0	0	519	7,547	1,345	151	0	9,043	8,524	22,723
2021	0	536	0	0	536	8,177	1,327	168	0	9,671	9,135	25,219
2022	0	554	0	0	554	6,036	1,310	182	0	7,528	6,974	26,985
2023	0	573	0	0	573	1,132	1,292	166	0	2,590	2,017	27,458
2024	0	592	0	0	592	1,602	1,276	198	0	3,076	2,484	27,998
2025	0	613	0	0	613	2,083	1,261	234	0	3,578	2,965	28,595
2026	0	634	0	0	634	2,580	1,248	273	0	4,102	3,467	29,242
2027	0	657	0	0	657	3,089	1,239	316	0	4,644	3,988	29,931
2028	0	680	0	0	680	3,609	1,233	364	0	5,207	4,527	30,656
2029	0	704	0	0	704	4,141	1,232	418	0	5,791	5,087	31,411

NOM	0	29,642	0	0	29,642	95,427	29,977	3,948	0	129,352	99,710
NPV	0	16,384	0	0	16,384	35,149	11,410	1,236	0	47,795	31,411

Discount Rate: 7.93 %
 Benefit/Cost Ratio (Col(11) / Col(6)) : 2.32

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Load Management (On Call)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	4	0	119	0	123	0	0	0	0	123	114
2006	7	0	430	0	437	0	0	0	0	437	489
2007	117	0	860	0	976	0	0	0	0	976	1,266
2008	71	0	1,395	0	1,466	0	0	0	0	1,466	2,346
2009	104	0	2,018	0	2,122	0	0	0	0	2,122	3,795
2010	121	0	2,345	0	2,466	0	0	0	0	2,466	5,355
2011	121	0	2,345	0	2,466	0	0	0	0	2,466	6,801
2012	123	0	2,345	0	2,467	0	0	0	0	2,467	8,141
2013	124	0	2,345	0	2,469	0	0	0	0	2,469	9,383
2014	124	0	2,345	0	2,469	0	0	0	0	2,469	10,533
2015	125	0	2,345	0	2,469	0	0	0	0	2,469	11,600
2016	125	0	2,345	0	2,470	0	0	0	0	2,470	12,589
2017	126	0	2,345	0	2,471	0	0	0	0	2,471	13,505
2018	129	0	2,345	0	2,473	0	0	0	0	2,473	14,354
2019	130	0	2,345	0	2,474	0	0	0	0	2,474	15,142
2020	131	0	2,345	0	2,476	0	0	0	0	2,476	15,872
2021	132	0	2,345	0	2,477	0	0	0	0	2,477	16,549
2022	134	0	2,345	0	2,478	0	0	0	0	2,478	17,176
2023	135	0	2,345	0	2,479	0	0	0	0	2,479	17,758
2024	136	0	2,345	0	2,481	0	0	0	0	2,481	18,297
2025	138	0	2,345	0	2,482	0	0	0	0	2,482	18,797
2026	139	0	2,345	0	2,483	0	0	0	0	2,483	19,260
2027	140	0	2,345	0	2,485	0	0	0	0	2,485	19,690
2028	142	0	2,345	0	2,486	0	0	0	0	2,486	20,088
2029	143	0	2,345	0	2,487	0	0	0	0	2,487	20,457

NOM	2,920	0	51,712	0	54,632	0	0	0	0	54,632
NPV	1,089	0	19,368	0	20,457	0	0	0	0	20,457

In Service of Gen Unit:

Discount Rate :

2010
7.93 %

Benefit/Cost Ratio (Col(6) / Col(10))

Infinite

07
1

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Load Management (On Call)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	575	119	2	0	697	3	0	0	0	3	(693)	(642)
2006	0	1,316	430	4	0	1,751	7	161	0	0	168	(1,582)	(2,001)
2007	0	2,160	860	71	0	3,090	104	421	0	0	525	(2,565)	(4,041)
2008	0	3,199	1,395	44	0	4,638	64	746	0	0	810	(3,828)	(6,862)
2009	0	4,265	2,018	63	0	6,347	95	1,153	0	0	1,248	(5,099)	(10,344)
2010	0	3,264	2,345	74	0	5,682	6,275	1,602	0	0	7,877	2,195	(8,955)
2011	0	2,656	2,345	74	0	5,075	4,213	1,569	0	0	5,781	707	(8,541)
2012	0	1,994	2,345	75	0	4,414	6,162	1,536	0	0	7,698	3,284	(6,757)
2013	0	1,264	2,345	76	0	3,684	6,825	1,506	0	0	8,332	4,648	(4,418)
2014	0	518	2,345	76	0	2,938	6,937	1,479	0	0	8,416	5,478	(1,865)
2015	0	447	2,345	76	0	2,868	7,524	1,454	0	0	8,978	6,111	775
2016	0	460	2,345	76	0	2,881	7,006	1,430	0	0	8,436	5,556	2,998
2017	0	473	2,345	77	0	2,895	3,383	1,407	0	0	4,790	1,895	3,701
2018	0	487	2,345	78	0	2,910	2,064	1,385	0	0	3,449	539	3,886
2019	0	502	2,345	79	0	2,926	6,246	1,365	0	0	7,611	4,685	5,378
2020	0	519	2,345	80	0	2,943	7,698	1,345	0	0	9,043	6,100	7,177
2021	0	536	2,345	81	0	2,961	8,344	1,327	0	0	9,671	6,710	9,010
2022	0	554	2,345	81	0	2,980	6,218	1,310	0	0	7,528	4,548	10,162
2023	0	573	2,345	82	0	3,000	1,298	1,292	0	0	2,590	(409)	10,066
2024	0	592	2,345	83	0	3,020	1,800	1,276	0	0	3,076	56	10,078
2025	0	613	2,345	84	0	3,041	2,317	1,261	0	0	3,578	536	10,186
2026	0	634	2,345	85	0	3,064	2,853	1,248	0	0	4,102	1,038	10,380
2027	0	657	2,345	86	0	3,087	3,406	1,239	0	0	4,644	1,558	10,649
2028	0	680	2,345	86	0	3,111	3,974	1,233	0	0	5,207	2,096	10,985
2029	0	704	2,345	87	0	3,136	4,558	1,232	0	0	5,791	2,655	11,379

NOM.	0	29,642	51,712	1,781	0	83,135	99,375	29,977	0	0	129,352	46,217
NPV	0	16,384	19,368	664	0	36,416	36,385	11,410	0	0	47,795	11,379

Discount Rate
Benefit/Cost Ratio (Col(12) / Col(7)) :

7.93 %
1.31

RESIDENTIAL NEW CONSTRUCTION

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.80 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.07 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	1,577.18 kWh
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	0.00 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

*INPUT DATA -- PART I CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAMNAME: New Construction (BuildSmartR)

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(0)
2004	0	0	0	0	0	0	0	0	0	
2005	1,555	0	0	1,555	210	0	2,815	0	2,815	
2006	2,223	0	0	2,223	714	0	4,023	0	4,023	
2007	2,953	0	0	2,953	1,378	0	5,345	0	5,345	
2008	3,632	0	0	3,632	2,233	0	6,574	0	6,574	
2009	4,105	0	0	4,105	3,212	0	7,430	0	7,430	
2010	0	0	0	0	3,729	0	0	0	0	
2011	0	0	0	0	3,739	0	0	0	0	
2012	0	0	0	0	3,783	0	0	0	0	
2013	0	0	0	0	3,822	0	0	0	0	
2014	0	0	0	0	3,822	0	0	0	0	
2015	0	0	0	0	3,847	0	0	0	0	
2016	0	0	0	0	3,857	0	0	0	0	
2017	0	0	0	0	3,891	0	0	0	0	
2018	0	0	0	0	3,960	0	0	0	0	
2019	0	0	0	0	3,998	0	0	0	0	
2020	2,354	0	0	2,354	4,037	0	4,260	0	4,260	
2021	3,408	0	0	3,408	4,076	0	6,169	0	6,169	
2022	4,582	0	0	4,582	4,116	0	8,293	0	8,293	
2023	5,688	0	0	5,688	4,156	0	10,295	0	10,295	
2024	6,475	0	0	6,475	4,196	0	11,719	0	11,719	
2025	0	0	0	0	4,237	0	0	0	0	
2026	0	0	0	0	4,278	0	0	0	0	
2027	0	0	0	0	4,319	0	0	0	0	
2028	0	0	0	0	4,361	0	0	0	0	
2029	0	0	0	0	4,404	0	0	0	0	

NOM	36,974	0	0	36,974	88,377	0	66,922	0	0	66,922
NPV	16,704	0	0	16,704	32,319	0	30,234	0	0	30,234

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GEN K-FACTOR
 PROGRAM METHOD SELECTED REV_REQ
 PROGRAM NAME: New Construction (BuildSmart(R))

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
BEG-YEAR	RATE BASE	DEBT	PREFERRED	COMMON	INCOME	PROPERTY	PROPERTY	DEFERRED	TOTAL	PRESENT	CUMULATIVE	REPLACEMENT	
YEAR	\$(000)	\$(000)	STOCK	EQUITY	TAXES	TAX	INSURANCE	TAXES	FIXED	WORTH	PW FIXED	COST BASIS	
			\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	CHARGES	FIXED	CHARGES	FOR	
									\$(000)	CHARGES	\$(000)	PROPERTY INSURANCE	
										\$(000)		\$(000)	
2010	23,065	706	0	1,395	923	0	0	901	1	3,925	3,925	3,925	22,521
2011	22,164	678	0	1,341	593	443	90	901	296	4,342	4,023	7,948	23,196
2012	20,967	642	0	1,269	594	424	93	901	250	4,172	3,581	11,530	23,892
2013	19,817	606	0	1,199	593	406	96	901	207	4,008	3,188	14,718	24,609
2014	18,709	572	0	1,132	590	387	99	901	168	3,849	2,837	17,554	25,347
2015	17,640	540	0	1,067	586	369	102	901	131	3,696	2,523	20,078	26,107
2016	16,608	508	0	1,005	581	351	105	901	97	3,547	2,244	22,322	26,891
2017	15,610	478	0	944	574	332	108	901	66	3,403	1,995	24,316	27,697
2018	14,643	448	0	886	542	314	111	901	61	3,263	1,772	26,088	28,528
2019	13,681	419	0	828	506	295	115	901	61	3,124	1,572	27,660	29,384
2020	12,719	389	0	770	469	277	118	901	61	2,984	1,391	29,052	30,266
2021	11,757	360	0	711	433	258	122	901	61	2,845	1,229	30,281	31,174
2022	10,795	330	0	653	396	240	125	901	61	2,706	1,083	31,364	32,109
2023	9,834	301	0	595	360	221	129	901	61	2,568	952	32,316	33,072
2024	8,872	271	0	537	323	203	133	901	61	2,429	834	33,150	34,064
2025	7,910	242	0	479	286	184	137	901	61	2,290	729	33,879	35,086
2026	6,948	213	0	420	250	166	141	901	61	2,152	635	34,514	36,139
2027	5,986	183	0	362	213	148	145	901	61	2,013	550	35,064	37,223
2028	5,024	154	0	304	177	129	150	901	61	1,875	475	35,539	38,340
2029	4,062	124	0	246	140	111	154	901	61	1,737	407	35,946	39,490
2030	3,100	95	0	188	293	92	159	901	(129)	1,599	348	36,294	40,675
2031	2,328	71	0	141	454	74	163	901	(319)	1,485	299	36,593	41,895
2032	1,746	53	0	106	432	55	168	901	(319)	1,397	261	36,854	43,152
2033	1,164	36	0	70	410	37	173	901	(319)	1,308	226	37,080	44,446
2034	582	18	0	35	388	18	179	901	(319)	1,220	195	37,275	45,780

IN SERVICE COST (\$000)	22,521
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	%
DEBT	45%	6.80	%
P/S	0%	0.00	%
C/S	55%	11.00	%

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: New Construction (BuildSmartR)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPR \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	827	827	901	901	826	826	1	1,868	0	0	0	1	(544)
2011	7.22%	1,593	2,420	901	1,802	826	1,652	296	1,868	0	0	0	296	(248)
2012	6.68%	1,473	3,894	901	2,702	826	2,478	250	1,868	0	0	0	250	1
2013	6.18%	1,364	5,257	901	3,603	826	3,304	207	1,868	0	0	0	207	209
2014	5.71%	1,261	6,518	901	4,504	826	4,131	168	1,868	0	0	0	168	376
2015	5.29%	1,166	7,684	901	5,405	826	4,957	131	1,868	0	0	0	131	507
2016	4.89%	1,079	8,762	901	6,306	826	5,783	97	1,868	0	0	0	97	605
2017	4.52%	998	9,760	901	7,207	826	6,609	66	1,868	0	0	0	66	671
2018	4.46%	985	10,745	901	8,107	826	7,435	61	1,868	0	0	0	61	732
2019	4.46%	984	11,729	901	9,008	826	8,261	61	1,868	0	0	0	61	793
2020	4.46%	985	12,713	901	9,909	826	9,087	61	1,868	0	0	0	61	854
2021	4.46%	984	13,698	901	10,810	826	9,913	61	1,868	0	0	0	61	915
2022	4.46%	985	14,682	901	11,711	826	10,739	61	1,868	0	0	0	61	976
2023	4.46%	984	15,667	901	12,612	826	11,566	61	1,868	0	0	0	61	1,037
2024	4.46%	985	16,651	901	13,512	826	12,392	61	1,868	0	0	0	61	1,098
2025	4.46%	984	17,635	901	14,413	826	13,218	61	1,868	0	0	0	61	1,159
2026	4.46%	985	18,620	901	15,314	826	14,044	61	1,868	0	0	0	61	1,221
2027	4.46%	984	19,604	901	16,215	826	14,870	61	1,868	0	0	0	61	1,282
2028	4.46%	985	20,589	901	17,116	826	15,696	61	1,868	0	0	0	61	1,343
2029	4.46%	984	21,573	901	18,016	826	16,522	61	1,868	0	0	0	61	1,404
2030	2.23%	492	22,065	901	18,917	826	17,348	(129)	1,868	0	0	0	(129)	1,275
2031	0.00%	0	22,065	901	19,818	826	18,174	(319)	1,868	0	0	0	(319)	956
2032	0.00%	0	22,065	901	20,719	826	19,001	(319)	1,868	0	0	0	(319)	638
2033	0.00%	0	22,065	901	21,620	826	19,827	(319)	1,868	0	0	0	(319)	319
2034	0.00%	0	22,065	901	22,521	826	20,653	(319)	1,868	0	0	0	(319)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(545)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,868
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_RBQ
 PROGRAM NAME: New Construction (BuildSmartR)

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2010	3.75%	827	1	22,521	901	(544)	23,065	22,164	22,614
2011	7.22%	1,593	296	21,620	1,802	(248)	22,164	20,967	21,566
2012	6.68%	1,473	250	20,719	2,702	1	20,967	19,817	20,392
2013	6.18%	1,364	207	19,818	3,603	209	19,817	18,709	19,263
2014	5.71%	1,261	168	18,917	4,504	376	18,709	17,640	18,174
2015	5.29%	1,166	131	18,016	5,405	507	17,640	16,608	17,124
2016	4.89%	1,079	97	17,116	6,306	605	16,608	15,610	16,109
2017	4.52%	998	66	16,215	7,207	671	15,610	14,643	15,127
2018	4.46%	985	61	15,314	8,107	732	14,643	13,681	14,162
2019	4.46%	984	61	14,413	9,008	793	13,681	12,719	13,200
2020	4.46%	985	61	13,512	9,909	854	12,719	11,757	12,238
2021	4.46%	984	61	12,612	10,810	915	11,757	10,795	11,276
2022	4.46%	985	61	11,711	11,711	976	10,795	9,834	10,314
2023	4.46%	984	61	10,810	12,612	1,037	9,834	8,872	9,353
2024	4.46%	985	61	9,909	13,512	1,098	8,872	7,910	8,391
2025	4.46%	984	61	9,008	14,413	1,159	7,910	6,948	7,429
2026	4.46%	985	61	8,107	15,314	1,221	6,948	5,986	6,467
2027	4.46%	984	61	7,207	16,215	1,282	5,986	5,024	5,505
2028	4.46%	985	61	6,306	17,116	1,343	5,024	4,062	4,543
2029	4.46%	984	61	5,405	18,016	1,404	4,062	3,100	3,581
2030	2.23%	492	(129)	4,504	18,917	1,275	3,100	2,328	2,714
2031	0.00%	0	(319)	3,603	19,818	956	2,328	1,746	2,037
2032	0.00%	0	(319)	2,702	20,719	638	1,746	1,164	1,455
2033	0.00%	0	(319)	1,802	21,620	319	1,164	582	873
2034	0.00%	0	(319)	901	22,521	0	582	0	291

* Column not specified in workbook

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(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	41.19	1.26	1.26	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	165.15	5.07	6.33	12.99	11.20	14.00	(2.36)	(2.96)	172.08	257.69
2008	345.08	10.65	16.98	27.29	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	521.64	16.20	33.18	41.51	35.05	72.37	(7.27)	(15.11)	165.28	625.03

33.18 85.02 72.37 (15.11) 625.03

LANT COSTS 485.29
FUDC RATE 7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	19,457	19,457	19,457
EQUITY AFUDC	1,868		
DEBT AFUDC	1,196	1,196	
CPI			2,607
TOTAL	22,521	20,653	22,065

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD ~~SELECTED~~: REV_REQ
 PROGRAM NAME: New Construction (BuildSmartR)

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CkWh)	AVOIDED MARGINAL FUEL COST (CkWh)	INCREASED MARGINAL FUEL COST (CkWh)	REPLACEMENT FUEL COST (CkWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.16	4.52	0.00	1.00	1.00
2005	3,816	3,816	3.88	4.69	4.15	0.00	1.00	1.00
2006	9,159	9,159	3.77	4.68	4.04	0.00	1.00	1.00
2007	16,104	16,104	3.71	4.52	3.96	0.00	1.00	1.00
2008	24,439	24,439	3.66	4.61	3.92	0.00	1.00	1.00
2009	33,609	33,609	3.79	4.77	4.05	0.00	1.00	1.00
2010	33,609	33,609	3.90	4.72	4.14	5.14	1.00	1.00
2011	33,609	33,609	4.17	4.99	4.42	5.31	1.00	1.00
2012	33,609	33,609	4.18	5.11	4.41	4.92	1.00	1.00
2013	33,609	33,609	4.31	5.31	4.56	4.83	1.00	1.00
2014	33,609	33,609	4.39	5.43	4.64	4.91	1.00	1.00
2015	33,609	33,609	4.55	5.71	4.81	4.98	1.00	1.00
2016	33,609	33,609	4.69	5.86	4.94	5.27	1.00	1.00
2017	33,609	33,609	4.77	5.97	5.03	6.18	1.00	1.00
2018	33,609	33,609	4.92	6.19	5.18	6.59	1.00	1.00
2019	33,609	33,609	5.06	6.35	5.31	5.84	1.00	1.00
2020	33,609	33,609	5.16	6.54	5.43	5.71	1.00	1.00
2021	33,609	33,609	5.26	6.67	5.52	5.71	1.00	1.00
2022	33,609	33,609	5.50	6.98	5.77	6.49	1.00	1.00
2023	33,609	33,609	5.57	6.90	5.83	7.93	1.00	1.00
2024	33,609	33,609	5.66	6.97	5.92	8.04	1.00	1.00
2025	33,609	33,609	5.76	7.05	6.01	8.15	1.00	1.00
2026	33,609	33,609	5.87	7.12	6.10	8.26	1.00	1.00
2027	33,609	33,609	5.97	7.20	6.20	8.37	1.00	1.00
2028	33,609	33,609	6.07	7.27	6.29	8.49	1.00	1.00
2029	33,609	33,609	6.18	7.35	6.39	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: New Construction (BuildSmartR)

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	3,925	1,279	31	5,437	7,561	3,111
2011	4,342	1,336	53	9,329	12,995	2,066
2012	4,172	1,396	55	9,619	12,188	3,054
2013	4,008	1,460	57	9,844	11,988	3,380
2014	3,849	1,526	58	10,166	12,166	3,433
2015	3,696	1,597	58	10,423	12,056	3,719
2016	3,547	1,669	61	11,067	12,885	3,458
2017	3,403	1,742	61	11,067	14,629	1,643
2018	3,263	1,817	62	11,292	15,460	973
2019	3,124	1,898	64	11,710	13,722	3,074
2020	2,984	1,984	65	11,967	13,201	3,800
2021	2,845	2,075	66	12,064	12,933	4,117
2022	2,706	2,169	69	12,965	12,869	3,039
2023	2,568	2,261	65	12,225	16,548	570
2024	2,429	2,360	66	12,353	16,401	807
2025	2,290	2,463	66	12,483	16,254	1,049
2026	2,152	2,575	67	12,615	16,109	1,299
2027	2,013	2,692	68	12,748	15,965	1,555
2028	1,875	2,814	69	12,882	15,823	1,817
2029	1,737	2,942	70	13,017	15,681	2,085

NOM	60,929	40,036	1,228	225,273	279,436	48,050
NPV	22,741	12,103	392	71,194	88,732	17,699

AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME : New Construction (BuildSmartR)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)**
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	157	0
2006	67	11	78	14	5	18	538	0
2007	159	27	187	32	12	44	1,003	0
2008	278	50	328	56	21	78	1,666	0
2009	420	79	499	85	34	119	2,473	0
2010	573	114	687	116	49	165	2,782	0
2011	552	119	671	112	51	163	2,924	0
2012	531	124	655	108	53	161	3,023	0
2013	510	130	640	103	56	159	3,157	0
2014	490	136	626	99	58	158	3,232	0
2015	471	142	613	95	61	156	3,420	0
2016	452	148	601	92	64	155	3,506	0
2017	434	155	588	88	66	154	3,574	0
2018	415	162	577	84	69	153	3,713	0
2019	397	169	565	80	72	153	3,802	0
2020	378	176	555	77	76	152	3,931	0
2021	360	184	544	73	79	152	4,012	0
2022	341	193	534	69	83	152	4,200	0
2023	323	201	524	65	86	152	4,108	0
2024	305	210	514	62	90	152	4,138	0
2025	286	219	505	58	94	152	4,169	0
2026	268	229	497	54	98	153	4,200	0
2027	250	239	490	51	103	154	4,231	0
2028	234	250	484	47	107	155	4,261	0
2029	219	262	481	44	112	157	4,292	0

NOM.	8,714	3,729	12,443	1,766	1,601	3,367	80,510	0
NPV	3,609	1,198	4,807	731	514	1,246	28,079	0

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.



TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: New Construction (BuildSmartR)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,555	2,815	0	4,370	0	0	157	0	157	(4,213)	(3,903)
2006	0	2,223	4,023	0	6,246	0	96	538	0	634	(5,612)	(8,721)
2007	0	2,953	5,345	0	8,298	0	231	1,003	0	1,234	(7,064)	(14,340)
2008	0	3,632	6,574	0	10,206	0	406	1,666	0	2,072	(8,134)	(20,334)
2009	0	4,105	7,430	0	11,534	0	618	2,473	0	3,091	(8,444)	(26,099)
2010	0	0	0	0	0	3,111	852	2,782	0	6,745	6,745	(21,832)
2011	0	0	0	0	0	2,066	833	2,924	0	5,823	5,823	(18,419)
2012	0	0	0	0	0	3,054	815	3,023	0	6,893	6,893	(14,675)
2013	0	0	0	0	0	3,380	799	3,157	0	7,336	7,336	(10,984)
2014	0	0	0	0	0	3,433	783	3,232	0	7,448	7,448	(7,512)
2015	0	0	0	0	0	3,719	769	3,420	0	7,908	7,908	(4,096)
2016	0	0	0	0	0	3,458	756	3,506	0	7,720	7,720	(1,006)
2017	0	0	0	0	0	1,643	743	3,574	0	5,959	5,959	1,204
2018	0	0	0	0	0	973	730	3,713	0	5,417	5,417	3,065
2019	0	0	0	0	0	3,074	718	3,802	0	7,594	7,594	5,482
2020	0	2,354	4,260	0	6,613	3,800	707	3,931	0	8,438	1,825	6,020
2021	0	3,408	6,169	0	9,577	4,117	696	4,012	0	8,826	(751)	5,815
2022	0	4,582	8,293	0	12,874	3,039	686	4,200	0	7,925	(4,949)	4,562
2023	0	5,688	10,295	0	15,983	570	676	4,108	0	5,353	(10,630)	2,068
2024	0	6,475	11,719	0	18,194	807	666	4,138	0	5,611	(12,583)	(667)
2025	0	0	0	0	0	1,049	657	4,169	0	5,875	5,875	516
2026	0	0	0	0	0	1,299	649	4,200	0	6,148	6,148	1,663
2027	0	0	0	0	0	1,555	643	4,231	0	6,429	6,429	2,775
2028	0	0	0	0	0	1,817	639	4,261	0	6,718	6,718	3,851
2029	0	0	0	0	0	2,085	638	4,292	0	7,015	7,015	4,892

NOM	0	36,974	66,922	0	103,896	48,050	15,810	80,510	0	144,369	40,473
NPV	0	16,704	30,234	0	46,938	17,699	6,053	28,079	0	51,830	4,892

Discount Rate: 7.93 %
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.10

PARTICIPANT COSTS AND BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: New Construction (BuildSmartR)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	345	0	0	0	345	2,815	0	0	2,815	(2,470)	(2,288)
2006	1,171	0	0	0	1,171	4,023	0	0	4,023	(2,853)	(4,737)
2007	2,259	0	0	0	2,259	5,345	0	0	5,345	(3,085)	(7,191)
2008	3,660	0	0	0	3,660	6,574	0	0	6,574	(2,913)	(9,338)
2009	5,266	0	0	0	5,266	7,430	0	0	7,430	(2,164)	(10,816)
2010	6,113	0	0	0	6,113	0	0	0	0	6,113	(6,948)
2011	6,130	0	0	0	6,130	0	0	0	0	6,130	(3,355)
2012	6,202	0	0	0	6,202	0	0	0	0	6,202	13
2013	6,266	0	0	0	6,266	0	0	0	0	6,266	3,166
2014	6,266	0	0	0	6,266	0	0	0	0	6,266	6,087
2015	6,307	0	0	0	6,307	0	0	0	0	6,307	8,811
2016	6,323	0	0	0	6,323	0	0	0	0	6,323	11,342
2017	6,379	0	0	0	6,379	0	0	0	0	6,379	13,707
2018	6,492	0	0	0	6,492	0	0	0	0	6,492	15,937
2019	6,555	0	0	0	6,555	0	0	0	0	6,555	18,024
2020	6,618	0	0	0	6,618	4,260	0	0	4,260	2,358	18,719
2021	6,682	0	0	0	6,682	6,169	0	0	6,169	513	18,860
2022	6,747	0	0	0	6,747	8,293	0	0	8,293	(1,546)	18,468
2023	6,813	0	0	0	6,813	10,295	0	0	10,295	(3,483)	17,651
2024	6,879	0	0	0	6,879	11,719	0	0	11,719	(4,840)	16,599
2025	6,946	0	0	0	6,946	0	0	0	0	6,946	17,998
2026	7,013	0	0	0	7,013	0	0	0	0	7,013	19,307
2027	7,081	0	0	0	7,081	0	0	0	0	7,081	20,531
2028	7,150	0	0	0	7,150	0	0	0	0	7,150	21,676
2029	7,219	0	0	0	7,219	0	0	0	0	7,219	22,747

NOM	144,881	-	-	-	144,881	66,922	-	-	66,922	77,958
NPV	52,981	0	0	0	52,981	30,234	0	0	30,234	22,747

In Service of Gen Unit:
 Discount Rate : 2010 7.93 %
 Benefit/Cost Ratio (Col(6) / Col(10)) 1.75

01

RAJE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: New Construction (BuildSmartR)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,555	0	210	0	1,765	157	0	0	0	157	(1,609)	(1,490)
2006	0	2,223	0	714	0	2,937	538	96	0	0	634	(2,303)	(3,467)
2007	0	2,953	0	1,378	0	4,331	1,003	231	0	0	1,234	(3,098)	(5,931)
2008	0	3,632	0	2,233	0	5,865	1,666	406	0	0	2,072	(3,793)	(8,726)
2009	0	4,105	0	3,212	0	7,317	2,473	618	0	0	3,091	(4,226)	(11,612)
2010	0	0	0	3,729	0	3,729	5,893	852	0	0	6,745	3,016	(9,704)
2011	0	0	0	3,739	0	3,739	4,990	833	0	0	5,823	2,084	(8,482)
2012	0	0	0	3,783	0	3,783	6,077	815	0	0	6,893	3,110	(6,793)
2013	0	0	0	3,822	0	3,822	6,537	799	0	0	7,336	3,513	(5,026)
2014	0	0	0	3,822	0	3,822	6,665	783	0	0	7,448	3,626	(3,335)
2015	0	0	0	3,847	0	3,847	7,139	769	0	0	7,908	4,061	(1,581)
2016	0	0	0	3,857	0	3,857	6,965	756	0	0	7,720	3,864	(35)
2017	0	0	0	3,891	0	3,891	5,217	743	0	0	5,959	2,068	732
2018	0	0	0	3,960	0	3,960	4,686	730	0	0	5,417	1,457	1,233
2019	0	0	0	3,998	0	3,998	6,875	718	0	0	7,594	3,595	2,377
2020	0	2,354	0	4,037	0	6,391	7,731	707	0	0	8,438	2,048	2,981
2021	0	3,408	0	4,076	0	7,484	8,129	696	0	0	8,826	1,341	3,348
2022	0	4,582	0	4,116	0	8,697	7,239	686	0	0	7,925	(772)	3,152
2023	0	5,688	0	4,156	0	9,844	4,677	676	0	0	5,353	(4,491)	2,059
2024	0	6,475	0	4,196	0	10,671	4,945	666	0	0	5,611	(5,060)	999
2025	0	0	0	4,237	0	4,237	5,218	657	0	0	5,875	1,638	1,329
2026	0	0	0	4,278	0	4,278	5,499	649	0	0	6,148	1,870	1,678
2027	0	0	0	4,319	0	4,319	5,786	643	0	0	6,429	2,110	2,042
2028	0	0	0	4,361	0	4,361	6,079	639	0	0	6,718	2,357	2,420
2029	0	0	0	4,404	0	4,404	6,377	638	0	0	7,015	2,612	2,808

NOM.	0	36,974	0	88,377	0	125,351	128,560	15,810	0	0	144,369	19,019
NPV	0	16,704	0	32,319	0	49,023	45,778	6,053	0	0	51,830	2,808

Discount Rate 7.93 %
Benefit/Cost Ratio (Col(12) / Col(7)) : 1.06

RESIDENTIAL LOW INCOME WEATHERIZATION

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Low Income Weatherization

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.14 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.19 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	361.89 kWh
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.00
(7) CUSTOMER kWh INCREASE AT METER	0.00 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D.....	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES.....	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE.....	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

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* INPUT DATA -- PART I CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Low Income Weatherization

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	11	10	0	21	5	0	55	0	55	
2006	12	10	0	22	17	0	59	0	59	
2007	13	11	0	24	28	0	64	0	64	
2008	14	11	0	25	41	0	69	0	69	
2009	15	12	0	27	54	0	74	0	74	
2010	0	0	0	0	61	0	0	0	0	
2011	0	0	0	0	61	0	0	0	0	
2012	7	8	0	14	62	0	45	0	45	
2013	7	8	0	15	63	0	49	0	49	
2014	8	8	0	16	63	0	53	0	53	
2015	8	9	0	17	63	0	57	0	57	
2016	9	9	0	18	63	0	61	0	61	
2017	0	0	0	0	64	0	0	0	0	
2018	0	0	0	0	65	0	0	0	0	
2019	8	8	0	16	66	0	55	0	55	
2020	17	10	0	27	66	0	87	0	87	
2021	19	11	0	29	67	0	94	0	94	
2022	20	11	0	31	68	0	102	0	102	
2023	22	12	0	34	68	0	111	0	111	
2024	12	3	0	14	69	0	37	0	37	
2025	0	0	0	0	70	0	0	0	0	
2026	10	8	0	18	70	0	70	0	70	
2027	11	8	0	19	71	0	76	0	76	
2028	12	8	0	21	72	0	83	0	83	
2029	13	9	0	22	72	0	90	0	90	

NOM	248	183	0	431	1,469	0	1,390	0	0	1,390
NPV	102	82	0	185	545	0	558	0	0	558

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

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CALCULATION OF GEN K-FACTOR
 PROGRAM METHOD SELECTED REV_REQ
 PROGRAM NAME: Residential Low Income Weatherization

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
BEG-YEAR	RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2010	294	9	0	18	12	0	0	11	0	50	50	50	287
2011	283	9	0	17	8	6	1	11	4	55	51	101	296
2012	268	8	0	16	8	5	1	11	3	53	46	147	305
2013	253	8	0	15	8	5	1	11	3	51	41	188	314
2014	239	7	0	14	8	5	1	11	2	49	36	224	324
2015	225	7	0	14	7	5	1	11	2	47	32	256	333
2016	212	6	0	13	7	4	1	11	1	45	29	285	343
2017	199	6	0	12	7	4	1	11	1	43	25	310	354
2018	187	6	0	11	7	4	1	11	1	42	23	333	364
2019	175	5	0	11	6	4	1	11	1	40	20	353	375
2020	162	5	0	10	6	4	2	11	1	38	18	371	386
2021	150	5	0	9	6	3	2	11	1	36	16	386	398
2022	138	4	0	8	5	3	2	11	1	35	14	400	410
2023	126	4	0	8	5	3	2	11	1	33	12	412	422
2024	113	3	0	7	4	3	2	11	1	31	11	423	435
2025	101	3	0	6	4	2	2	11	1	29	9	432	448
2026	89	3	0	5	3	2	2	11	1	27	8	441	461
2027	76	2	0	5	3	2	2	11	1	26	7	448	475
2028	64	2	0	4	2	2	2	11	1	24	6	454	489
2029	52	2	0	3	2	1	2	11	1	22	5	459	504
2030	40	1	0	2	4	1	2	11	(2)	20	4	463	519
2031	30	1	0	2	6	1	2	11	(4)	19	4	467	535
2032	22	1	0	1	6	1	2	11	(4)	18	3	470	551
2033	15	0	0	1	5	0	2	11	(4)	17	3	473	567
2034	7	0	0	0	5	0	2	11	(4)	16	2	476	584

IN SERVICE COST (\$000)	287
IN SERVICE YEAR	
BOOK LIFE (YRS)	
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	
DEBT	45%	6.80	%
P/S	0%	0.00	%
C/S	55%	11.00	%

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Low Income Weatherization

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	11	11	11	11	11	11	0	24	0	0	0	0	(7)
2011	7.22%	20	31	11	23	11	21	4	24	0	0	0	4	(3)
2012	6.68%	19	50	11	34	11	32	3	24	0	0	0	3	0
2013	6.18%	17	67	11	46	11	42	3	24	0	0	0	3	3
2014	5.71%	16	83	11	57	11	53	2	24	0	0	0	2	5
2015	5.29%	15	98	11	69	11	63	2	24	0	0	0	2	6
2016	4.89%	14	112	11	80	11	74	1	24	0	0	0	1	8
2017	4.52%	13	125	11	92	11	84	1	24	0	0	0	1	9
2018	4.46%	13	137	11	103	11	95	1	24	0	0	0	1	9
2019	4.46%	13	150	11	115	11	105	1	24	0	0	0	1	10
2020	4.46%	13	162	11	126	11	116	1	24	0	0	0	1	11
2021	4.46%	13	175	11	138	11	127	1	24	0	0	0	1	12
2022	4.46%	13	187	11	149	11	137	1	24	0	0	0	1	12
2023	4.46%	13	200	11	161	11	148	1	24	0	0	0	1	13
2024	4.46%	13	213	11	172	11	158	1	24	0	0	0	1	14
2025	4.46%	13	225	11	184	11	169	1	24	0	0	0	1	15
2026	4.46%	13	238	11	195	11	179	1	24	0	0	0	1	16
2027	4.46%	13	250	11	207	11	190	1	24	0	0	0	1	16
2028	4.46%	13	263	11	218	11	200	1	24	0	0	0	1	17
2029	4.46%	13	275	11	230	11	211	1	24	0	0	0	1	18
2030	2.23%	6	282	11	241	11	221	(2)	24	0	0	0	(2)	16
2031	0.00%	0	282	11	253	11	232	(4)	24	0	0	0	(4)	12
2032	0.00%	0	282	11	264	11	243	(4)	24	0	0	0	(4)	8
2033	0.00%	0	282	11	276	11	253	(4)	24	0	0	0	(4)	4
2034	0.00%	0	282	11	287	11	264	(4)	24	0	0	0	(4)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(7)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	24
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Low Income Weatherization

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE	(5a)* ACCUMULATED DEPRECIATION	(5b)* ACCUMULATED DEF TAXES	(6) BEGINNING YEAR RATE BASE	(7) ENDING OF YEAR RATE BASE	(8) MID-YEAR RATE BASE
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	3.75%	11	0	287	11	(7)	294	283	289
2011	7.22%	20	4	276	23	(3)	283	268	275
2012	6.68%	19	3	264	34	0	268	253	260
2013	6.18%	17	3	253	46	3	253	239	246
2014	5.71%	16	2	241	57	5	239	225	232
2015	5.29%	15	2	230	69	6	225	212	219
2016	4.89%	14	1	218	80	8	212	199	206
2017	4.52%	13	1	207	92	9	199	187	193
2018	4.46%	13	1	195	103	9	187	175	181
2019	4.46%	13	1	184	115	10	175	162	168
2020	4.46%	13	1	172	126	11	162	150	156
2021	4.46%	13	1	161	138	12	150	138	144
2022	4.46%	13	1	149	149	12	138	126	132
2023	4.46%	13	1	138	161	13	126	113	119
2024	4.46%	13	1	126	172	14	113	101	107
2025	4.46%	13	1	115	184	15	101	89	95
2026	4.46%	13	1	103	195	16	89	76	83
2027	4.46%	13	1	92	207	16	76	64	70
2028	4.46%	13	1	80	218	17	64	52	58
2029	4.46%	13	1	69	230	18	52	40	46
2030	2.23%	6	(2)	57	241	16	40	30	35
2031	0.00%	0	(4)	46	253	12	30	22	26
2032	0.00%	0	(4)	34	264	8	22	15	19
2033	0.00%	0	(4)	23	276	4	15	7	11
2034	0.00%	0	(4)	11	287	0	7	0	4

* Column not specified in workbook

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(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00%

(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	41.19	1.26	1.26	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	165.15	5.07	6.33	12.99	11.20	14.00	(2.36)	(2.96)	172.08	257.69
2008	345.08	10.65	16.98	27.29	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	521.64	16.20	33.18	41.51	35.05	72.37	(7.27)	(15.11)	165.28	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	248	248	248
EQUITY AFUDC	24		
DEBT AFUDC	15	15	
CPI			33
TOTAL	287	264	282

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Residential Low Income Weatherization

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.10	4.56	0.00	1.00	1.00
2005	435	435	3.88	4.67	4.19	0.00	1.00	1.00
2006	892	892	3.77	4.63	4.08	0.00	1.00	1.00
2007	1,371	1,371	3.71	4.49	4.00	0.00	1.00	1.00
2008	1,875	1,875	3.66	4.57	3.97	0.00	1.00	1.00
2009	2,403	2,403	3.79	4.74	4.10	0.00	1.00	1.00
2010	2,403	2,403	3.90	4.70	4.17	5.14	1.00	1.00
2011	2,403	2,403	4.17	4.96	4.46	5.31	1.00	1.00
2012	2,403	2,403	4.18	5.07	4.45	4.92	1.00	1.00
2013	2,403	2,403	4.31	5.29	4.60	4.83	1.00	1.00
2014	2,403	2,403	4.39	5.39	4.69	4.91	1.00	1.00
2015	2,403	2,403	4.55	5.64	4.86	4.98	1.00	1.00
2016	2,403	2,403	4.69	5.82	4.99	5.27	1.00	1.00
2017	2,403	2,403	4.77	5.90	5.08	6.18	1.00	1.00
2018	2,403	2,403	4.92	6.10	5.23	6.59	1.00	1.00
2019	2,403	2,403	5.06	6.25	5.36	5.84	1.00	1.00
2020	2,403	2,403	5.16	6.43	5.48	5.71	1.00	1.00
2021	2,403	2,403	5.26	6.55	5.57	5.71	1.00	1.00
2022	2,403	2,403	5.50	6.85	5.82	6.49	1.00	1.00
2023	2,403	2,403	5.57	6.77	5.88	7.93	1.00	1.00
2024	2,403	2,403	5.66	6.84	5.97	8.04	1.00	1.00
2025	2,403	2,403	5.76	6.92	6.06	8.15	1.00	1.00
2026	2,403	2,403	5.87	6.99	6.15	8.26	1.00	1.00
2027	2,403	2,403	5.97	7.07	6.25	8.37	1.00	1.00
2028	2,403	2,403	6.07	7.15	6.35	8.49	1.00	1.00
2029	2,403	2,403	6.18	7.22	6.44	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

0.14

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Low Income Weatherization

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(0)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	50	16	0	69	97	40
2011	55	17	1	119	166	26
2012	53	18	1	123	156	39
2013	51	19	1	126	153	43
2014	49	19	1	130	155	44
2015	47	20	1	133	154	47
2016	45	21	1	141	164	44
2017	43	22	1	141	187	21
2018	42	23	1	144	197	12
2019	40	24	1	149	175	39
2020	38	25	1	153	168	49
2021	36	26	1	154	165	53
2022	35	28	1	165	190	39
2023	33	29	1	156	211	7
2024	31	30	1	158	209	10
2025	29	31	1	159	207	13
2026	27	33	1	161	206	17
2027	26	34	1	163	204	20
2028	24	36	1	164	202	23
2029	22	38	1	166	200	27
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NOM	778	511	16	2,875	3,567	613
NPV	290	154	5	909	1,133	226

AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Low Income Weatherization

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)**
YEAR	AVOIDED TRANSMISSION CAP COST. \$(000)	AVOIDED TRANSMISSION O&M COST. \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	4	0
2006	1	0	2	0	0	0	12	0
2007	3	0	3	1	0	1	20	0
2008	4	1	5	1	0	1	30	0
2009	6	1	7	1	0	2	41	0
2010	7	1	9	1	1	2	45	0
2011	7	2	8	1	1	2	47	0
2012	7	2	8	1	1	2	49	0
2013	6	2	8	1	1	2	51	0
2014	6	2	8	1	1	2	52	0
2015	6	2	8	1	1	2	55	0
2016	6	2	8	1	1	2	57	0
2017	5	2	7	1	1	2	58	0
2018	5	2	7	1	1	2	60	0
2019	5	2	7	1	1	2	61	0
2020	5	2	7	1	1	2	63	0
2021	5	2	7	1	1	2	64	0
2022	4	2	7	1	1	2	67	0
2023	4	3	7	1	1	2	66	0
2024	4	3	6	1	1	2	66	0
2025	4	3	6	1	1	2	67	0
2026	3	3	6	1	1	2	67	0
2027	3	3	6	1	1	2	68	0
2028	3	3	6	1	1	2	68	0
2029	3	3	6	1	1	2	69	0

NOM.								
NPV								

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Low Income Weatherisation

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	11	55	0	66	0	0	4	0	4	(62)	(58)
2006	0	12	59	0	71	0	2	12	0	14	(57)	(107)
2007	0	13	64	0	76	0	4	20	0	24	(52)	(148)
2008	0	14	69	0	82	0	6	30	0	36	(46)	(182)
2009	0	15	74	0	89	0	8	41	0	50	(39)	(208)
2010	0	0	0	0	0	40	11	45	0	96	96	(148)
2011	0	0	0	0	0	26	11	47	0	84	84	(98)
2012	0	7	45	0	52	39	10	49	0	98	47	(73)
2013	0	7	49	0	56	43	10	51	0	105	49	(49)
2014	0	8	53	0	60	44	10	52	0	106	46	(27)
2015	0	8	57	0	65	47	10	55	0	112	47	(7)
2016	0	9	61	0	70	44	10	57	0	111	40	9
2017	0	0	0	0	0	21	9	58	0	88	88	42
2018	0	0	0	0	0	12	9	60	0	81	81	70
2019	0	8	55	0	63	39	9	61	0	109	46	85
2020	0	17	87	0	104	49	9	63	0	120	17	89
2021	0	19	94	0	113	53	9	64	0	126	13	93
2022	0	20	102	0	122	39	9	67	0	115	(8)	91
2023	0	22	111	0	133	7	9	66	0	81	(52)	79
2024	0	12	37	0	49	10	8	66	0	85	36	87
2025	0	0	0	0	0	13	8	67	0	88	88	104
2026	0	10	70	0	80	17	8	67	0	92	12	107
2027	0	11	76	0	87	20	8	68	0	96	8	108
2028	0	12	83	0	95	23	8	68	0	99	5	109
2029	0	13	90	0	103	27	8	69	0	103	0	109

NOM	0	248	1,390	0	1,638	613	203	1,309	0	2,125	487
NPV	0	102	558	0	660	226	79	464	0	769	109

Discount Rate: 7.93 %
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.16

PARTICIPANT COSTS AND BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Low Income Weatherization

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	9	0	10	0	19	55	0	0	55	(37)	(34)
2006	27	0	10	0	38	59	0	0	59	(22)	(52)
2007	46	0	11	0	57	64	0	0	64	(6)	(58)
2008	67	0	11	0	79	69	0	0	69	10	(50)
2009	89	0	12	0	101	74	0	0	74	27	(32)
2010	100	0	0	0	100	0	0	0	0	100	32
2011	101	0	0	0	101	0	0	0	0	101	91
2012	102	0	8	0	109	45	0	0	45	64	126
2013	103	0	8	0	111	49	0	0	49	62	157
2014	103	0	8	0	111	53	0	0	53	59	184
2015	103	0	9	0	112	57	0	0	57	56	208
2016	104	0	9	0	113	61	0	0	61	52	229
2017	105	0	0	0	105	0	0	0	0	105	268
2018	107	0	0	0	107	0	0	0	0	107	304
2019	108	0	8	0	115	55	0	0	55	60	323
2020	109	0	10	0	119	87	0	0	87	32	333
2021	110	0	11	0	120	94	0	0	94	26	340
2022	111	0	11	0	122	102	0	0	102	20	345
2023	112	0	12	0	124	111	0	0	111	13	348
2024	113	0	3	0	116	37	0	0	37	78	365
2025	114	0	0	0	114	0	0	0	0	114	388
2026	115	0	8	0	123	70	0	0	70	53	398
2027	116	0	8	0	124	76	0	0	76	48	406
2028	117	0	8	0	126	83	0	0	83	43	413
2029	118	0	9	0	127	90	0	0	90	37	418

NOM	2,408	0	183	0	2,591	1,390	0	0	1,390	1,201
NPV	894	0	82	0	977	558	0	0	558	418

In Service of Gen Unit:
 Discount Rate :

2010
 7.93 %

Benefit/Cost Ratio (Col(6) / Col(10))

1.75



RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Low Income Weatherization

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	11	10	5	0	26	4	0	0	0	4	(22)	(21)
2006	0	12	10	17	0	39	12	2	0	0	14	(24)	(42)
2007	0	13	11	28	0	52	20	4	0	0	24	(27)	(63)
2008	0	14	11	41	0	66	30	6	0	0	36	(30)	(85)
2009	0	15	12	54	0	81	41	8	0	0	50	(31)	(107)
2010	0	0	0	61	0	61	85	11	0	0	96	35	(85)
2011	0	0	0	61	0	61	74	11	0	0	84	23	(71)
2012	0	7	8	62	0	76	88	10	0	0	98	22	(59)
2013	0	7	8	63	0	78	95	10	0	0	105	27	(46)
2014	0	8	8	63	0	79	96	10	0	0	106	27	(33)
2015	0	8	9	63	0	80	103	10	0	0	112	32	(19)
2016	0	9	9	63	0	82	101	10	0	0	111	29	(8)
2017	0	0	0	64	0	64	79	9	0	0	88	24	1
2018	0	0	0	65	0	65	72	9	0	0	81	16	7
2019	0	8	8	66	0	81	100	9	0	0	109	28	16
2020	0	17	10	66	0	94	111	9	0	0	120	27	24
2021	0	19	11	67	0	96	117	9	0	0	126	29	32
2022	0	20	11	68	0	99	106	9	0	0	115	16	36
2023	0	22	12	68	0	102	73	9	0	0	81	(21)	31
2024	0	12	3	69	0	83	76	8	0	0	85	2	31
2025	0	0	0	70	0	70	80	8	0	0	88	19	35
2026	0	10	8	70	0	88	84	8	0	0	92	4	36
2027	0	11	8	71	0	90	87	8	0	0	96	6	36
2028	0	12	8	72	0	92	91	8	0	0	99	7	38
2029	0	13	9	72	0	94	95	8	0	0	103	9	39

NOM.	0	248	183	1,469	0	1,900	1,922	203	0	0	2,125	225
NPV	0	102	82	545	0	730	690	79	0	0	769	39

Discount Rate

7.93 %

Benefit/Cost Ratio (Col(12) / Col(7)) :

1.05

**COMMERCIAL/INDUSTRIAL HEATING,
VENTILATING & AIR CONDITIONING**

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Heating, Ventilating and Air Conditioning

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.90 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.21 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	1,867.78 kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	1460.49 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
^ (8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
^ (9) SUPPLY COSTS ESCALATION RATES	*** %**
^ (10) UTILITY DISCOUNT RATE	7.93 %
^ (11) UTILITY AFUDC RATE	7.84 %
^ (12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
^ (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
^ (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)

*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

**** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK.

* INPUT DATA -- PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Heating, Ventilating and Air Conditioning

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	523	2,583	0	3,106	99	278	4,904	25	4,929	
2006	530	2,571	0	3,101	298	792	4,976	77	5,052	
2007	544	2,595	0	3,139	487	1,286	5,089	130	5,220	
2008	547	2,535	0	3,082	690	1,798	5,256	185	5,441	
2009	555	2,494	0	3,049	914	2,299	5,487	240	5,728	
2010	0	0	0	0	1,044	2,422	0	272	272	
2011	0	0	0	0	1,058	2,323	0	280	280	
2012	0	0	0	0	1,072	2,320	0	288	288	
2013	0	0	0	0	1,086	2,283	0	296	296	
2014	0	0	0	0	1,089	2,259	0	305	305	
2015	1	2	0	4	1,100	2,225	33	314	347	
2016	1	2	0	4	1,106	2,185	38	323	360	
2017	2	3	0	4	1,119	2,171	43	332	374	
2018	2	3	0	5	1,137	2,198	48	342	390	
2019	2	3	0	5	1,130	2,246	54	353	407	
2020	43	49	0	93	1,122	2,294	776	365	1,141	
2021	42	47	0	89	1,114	2,344	759	377	1,136	
2022	38	41	0	80	1,104	2,395	690	390	1,080	
2023	45	46	0	91	1,094	2,447	805	403	1,208	
2024	51	50	0	101	1,083	2,500	915	417	1,332	
2025	887	2,533	0	3,421	1,072	2,554	7,872	432	8,304	
2026	914	2,524	0	3,437	1,059	2,609	8,144	447	8,591	
2027	956	2,554	0	3,510	1,046	2,666	8,554	463	9,017	
2028	965	2,489	0	3,453	1,031	2,724	8,824	479	9,304	
2029	981	2,444	0	3,425	1,016	2,784	9,207	496	9,703	
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NOM	7,630	25,569	0	33,199	24,169	54,403	72,473	8,031	0	80,504
NPV	3,028	12,484	0	15,512	9,185	20,675	28,924	2,790	0	31,713

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GEN K-FACTOR
 PROGRAM METHOD SELECTED REV_REQ
 PROGRAM NAME: Commercial/Industrial Heating, Ventilating and Air Conditioning

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
BEG-YEAR	RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2010	31,420	961	0	1,901	1,237	0	0	1,227	1	5,347	5,347	5,347	30,678
2011	30,192	924	0	1,827	808	603	123	1,227	403	5,915	5,480	10,828	31,598
2012	28,562	874	0	1,728	809	578	127	1,227	340	5,683	4,879	15,706	32,546
2013	26,995	826	0	1,633	807	553	131	1,227	282	5,460	4,342	20,049	33,523
2014	25,485	780	0	1,542	804	528	135	1,227	228	5,243	3,864	23,913	34,528
2015	24,030	735	0	1,454	798	503	139	1,227	179	5,034	3,437	27,350	35,564
2016	22,624	692	0	1,369	791	477	143	1,227	133	4,832	3,057	30,407	36,631
2017	21,264	651	0	1,286	782	452	147	1,227	90	4,636	2,717	33,124	37,730
2018	19,947	610	0	1,207	739	427	152	1,227	83	4,445	2,414	35,538	38,862
2019	18,637	570	0	1,128	689	402	156	1,227	83	4,255	2,141	37,679	40,028
2020	17,326	530	0	1,048	639	377	161	1,227	83	4,066	1,895	39,575	41,228
2021	16,016	490	0	969	589	352	166	1,227	83	3,876	1,674	41,249	42,465
2022	14,706	450	0	890	539	327	171	1,227	83	3,687	1,475	42,724	43,739
2023	13,395	410	0	810	490	302	176	1,227	83	3,498	1,297	44,021	45,051
2024	12,085	370	0	731	440	276	181	1,227	83	3,309	1,137	45,158	46,403
2025	10,775	330	0	652	390	251	186	1,227	83	3,120	993	46,151	47,795
2026	9,465	290	0	573	340	226	192	1,227	83	2,931	864	47,015	49,229
2027	8,154	250	0	493	291	201	198	1,227	83	2,742	749	47,765	50,706
2028	6,844	209	0	414	241	176	204	1,227	83	2,554	647	48,412	52,227
2029	5,534	169	0	335	191	151	210	1,227	83	2,366	555	48,967	53,794
2030	4,223	129	0	256	140	126	216	1,227	(175)	2,178	473	49,440	55,408
2031	3,172	97	0	192	619	101	223	1,227	(434)	2,024	408	49,847	57,070
2032	2,379	73	0	144	588	75	229	1,227	(434)	1,903	355	50,202	58,782
2033	1,586	49	0	96	558	50	236	1,227	(434)	1,782	308	50,511	60,545
2034	793	24	0	48	528	25	243	1,227	(434)	1,662	266	50,777	62,362

IN SERVICE COST (\$000)	30,678
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

SOURCE	WEIGHT	COST
DEBT	45%	6.80
P/S	0%	0.00
C/S	55%	11.00

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Heating, Ventila

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	1,127	1,127	1,227	1,227	1,125	1,125	1	2,544	0	0	0	1	(741)
2011	7.22%	2,170	3,297	1,227	2,454	1,125	2,251	403	2,544	0	0	0	403	(398)
2012	6.68%	2,007	5,304	1,227	3,681	1,125	3,376	340	2,544	0	0	0	340	2
2013	6.18%	1,858	7,161	1,227	4,908	1,125	4,501	282	2,544	0	0	0	282	284
2014	5.71%	1,717	8,878	1,227	6,136	1,125	5,627	228	2,544	0	0	0	228	513
2015	5.29%	1,588	10,467	1,227	7,363	1,125	6,752	179	2,544	0	0	0	179	691
2016	4.89%	1,469	11,936	1,227	8,590	1,125	7,877	133	2,544	0	0	0	133	824
2017	4.52%	1,359	13,295	1,227	9,817	1,125	9,003	90	2,544	0	0	0	90	914
2018	4.46%	1,341	14,636	1,227	11,044	1,125	10,128	83	2,544	0	0	0	83	997
2019	4.46%	1,341	15,977	1,227	12,271	1,125	11,253	83	2,544	0	0	0	83	1,080
2020	4.46%	1,341	17,318	1,227	13,498	1,125	12,379	83	2,544	0	0	0	83	1,164
2021	4.46%	1,341	18,659	1,227	14,725	1,125	13,504	83	2,544	0	0	0	83	1,247
2022	4.46%	1,341	20,000	1,227	15,952	1,125	14,629	83	2,544	0	0	0	83	1,330
2023	4.46%	1,341	21,341	1,227	17,180	1,125	15,755	83	2,544	0	0	0	83	1,413
2024	4.46%	1,341	22,682	1,227	18,407	1,125	16,880	83	2,544	0	0	0	83	1,496
2025	4.46%	1,341	24,023	1,227	19,634	1,125	18,006	83	2,544	0	0	0	83	1,579
2026	4.46%	1,341	25,364	1,227	20,861	1,125	19,131	83	2,544	0	0	0	83	1,663
2027	4.46%	1,341	26,705	1,227	22,088	1,125	20,256	83	2,544	0	0	0	83	1,746
2028	4.46%	1,341	28,046	1,227	23,315	1,125	21,382	83	2,544	0	0	0	83	1,829
2029	4.46%	1,341	29,387	1,227	24,542	1,125	22,507	83	2,544	0	0	0	83	1,912
2030	2.23%	671	30,058	1,227	25,769	1,125	23,632	(175)	2,544	0	0	0	(175)	1,737
2031	0.00%	0	30,058	1,227	26,997	1,125	24,758	(434)	2,544	0	0	0	(434)	1,303
2032	0.00%	0	30,058	1,227	28,224	1,125	25,883	(434)	2,544	0	0	0	(434)	869
2033	0.00%	0	30,058	1,227	29,451	1,125	27,008	(434)	2,544	0	0	0	(434)	434
2034	0.00%	0	30,058	1,227	30,678	1,125	28,134	(434)	2,544	0	0	0	(434)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(742)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	2,544
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Heating, Ventilating and Air Conditioning

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	NET PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2010	3.75%	1,127	1	30,678	1,227	(741)	31,420	30,192	30,806
2011	7.22%	2,170	403	29,451	2,454	(338)	30,192	28,562	29,377
2012	6.68%	2,007	340	28,224	3,681	2	28,562	26,995	27,778
2013	6.18%	1,858	282	26,997	4,908	284	26,995	25,485	26,240
2014	5.71%	1,717	228	25,769	6,136	513	25,485	24,030	24,757
2015	5.29%	1,588	179	24,542	7,363	691	24,030	22,624	23,327
2016	4.89%	1,469	133	23,315	8,590	824	22,624	21,264	21,944
2017	4.52%	1,359	90	22,088	9,817	914	21,264	19,947	20,606
2018	4.46%	1,341	83	20,861	11,044	997	19,947	18,637	19,292
2019	4.46%	1,341	83	19,634	12,271	1,080	18,637	17,326	17,981
2020	4.46%	1,341	83	18,407	13,498	1,164	17,326	16,016	16,671
2021	4.46%	1,341	83	17,180	14,725	1,247	16,016	14,706	15,361
2022	4.46%	1,341	83	15,952	15,952	1,330	14,706	13,395	14,051
2023	4.46%	1,341	83	14,725	17,180	1,413	13,395	12,085	12,740
2024	4.46%	1,341	83	13,498	18,407	1,496	12,085	10,775	11,430
2025	4.46%	1,341	83	12,271	19,634	1,579	10,775	9,465	10,120
2026	4.46%	1,341	83	11,044	20,861	1,663	9,465	8,154	8,809
2027	4.46%	1,341	83	9,817	22,088	1,746	8,154	6,844	7,499
2028	4.46%	1,341	83	8,590	23,315	1,829	6,844	5,534	6,189
2029	4.46%	1,341	83	7,363	24,542	1,912	5,534	4,223	4,879
2030	2.23%	671	(175)	6,136	25,769	1,737	4,223	3,172	3,698
2031	0.00%	0	(434)	4,908	26,997	1,303	3,172	2,379	2,775
2032	0.00%	0	(434)	3,681	28,224	869	2,379	1,586	1,982
2033	0.00%	0	(434)	2,454	29,451	434	1,586	793	1,189
2034	0.00%	0	(434)	1,227	30,678	0	793	0	396

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

(8)	(8a)*	(8b)*	(9)	(9a)*	(9b)*	(9c)*	(9d)*	(9e)*	(10)	(11)
CUMULATIVE SPENDING WITH AFUDC (\$/kW)	DEBT AFUDC (\$/kW)	DEBT AFUDC (\$/kW)	YEARLY TOTAL AFUDC (\$/kW)	CUMULATIVE TOTAL AFUDC (\$/kW)	CONSTRUCTION PERIOD INTEREST (\$/kW)	CUMULATIVE CPI (\$/kW)	DEFERRED TAXES (\$/kW)	CUMULATIVE DEFERRED TAXES (\$/kW)	INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	41.19	1.26	3.23	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	165.15	5.07	6.33	12.99	11.20	14.00	(2.36)	(2.96)	172.08	257.69
2008	345.08	10.65	16.98	27.29	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	521.64	16.20	33.18	41.51	35.05	72.37	(7.27)	(15.11)	165.28	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	26,505	26,505	26,505
EQUITY AFUDC	2,544		
DEBT AFUDC	1,629	1,629	
CPI			3,552
TOTAL	30,678	28,134	30,057

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Commercial/Industrial Heating, Ventilating and Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.17	4.50	0.00	1.00	1.00
2005	8,177	8,177	3.88	4.69	4.13	0.00	1.00	1.00
2006	16,296	16,296	3.77	4.69	4.03	0.00	1.00	1.00
2007	24,442	24,442	3.71	4.53	3.95	0.00	1.00	1.00
2008	32,478	32,478	3.66	4.62	3.91	0.00	1.00	1.00
2009	40,461	40,461	3.79	4.78	4.03	0.00	1.00	1.00
2010	40,461	40,461	3.90	4.73	4.13	5.14	1.00	1.00
2011	40,461	40,461	4.17	5.00	4.40	5.31	1.00	1.00
2012	40,461	40,461	4.18	5.12	4.39	4.92	1.00	1.00
2013	40,461	40,461	4.31	5.32	4.54	4.83	1.00	1.00
2014	40,461	40,461	4.39	5.44	4.63	4.91	1.00	1.00
2015	40,461	40,461	4.55	5.73	4.79	4.98	1.00	1.00
2016	40,461	40,461	4.69	5.88	4.93	5.27	1.00	1.00
2017	40,461	40,461	4.77	6.00	5.01	6.18	1.00	1.00
2018	40,461	40,461	4.92	6.22	5.17	6.59	1.00	1.00
2019	40,461	40,461	5.06	6.38	5.30	5.84	1.00	1.00
2020	40,461	40,461	5.16	6.58	5.41	5.71	1.00	1.00
2021	40,461	40,461	5.26	6.71	5.50	5.71	1.00	1.00
2022	40,461	40,461	5.50	7.02	5.75	6.49	1.00	1.00
2023	40,461	40,461	5.57	6.94	5.81	7.93	1.00	1.00
2024	40,461	40,461	5.66	7.02	5.90	8.04	1.00	1.00
2025	40,461	40,461	5.76	7.11	5.99	8.15	1.00	1.00
2026	40,461	40,461	5.87	7.19	6.09	8.26	1.00	1.00
2027	40,461	40,461	5.97	7.28	6.18	8.37	1.00	1.00
2028	40,461	40,461	6.07	7.37	6.28	8.49	1.00	1.00
2029	40,461	40,461	6.18	7.46	6.38	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Heating, Ventilating and Air Conditioning

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	5,347	1,743	42	7,406	10,300	4,238
2011	5,915	1,820	72	12,709	17,702	2,814
2012	5,683	1,902	75	13,103	16,603	4,160
2013	5,460	1,989	77	13,410	16,330	4,605
2014	5,243	2,079	79	13,848	16,573	4,676
2015	5,034	2,176	80	14,199	16,423	5,066
2016	4,832	2,274	83	15,075	17,552	4,711
2017	4,636	2,373	82	15,075	19,928	2,238
2018	4,445	2,475	84	15,382	21,060	1,326
2019	4,255	2,586	87	15,952	18,693	4,187
2020	4,066	2,703	88	16,302	17,982	5,176
2021	3,876	2,826	89	16,434	17,617	5,608
2022	3,687	2,954	94	17,661	20,255	4,140
2023	3,498	3,080	88	16,653	22,542	776
2024	3,309	3,214	89	16,828	22,341	1,099
2025	3,120	3,355	90	17,005	22,142	1,429
2026	2,931	3,507	91	17,184	21,944	1,770
2027	2,742	3,667	93	17,365	21,748	2,119
2028	2,554	3,834	94	17,548	21,554	2,476
2029	2,366	4,008	95	17,733	21,361	2,840
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NOM	82,998	54,565	1,673	306,871	380,652	65,454
NPV	30,978	16,487	534	96,982	120,872	24,109

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME : Commercial/Industrial Heating, Ventilating and Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	380	240
2006	162	27	189	33	11	44	1,147	697
2007	320	55	375	65	24	88	1,831	1,143
2008	474	86	560	96	37	133	2,634	1,577
2009	621	119	741	126	51	177	3,491	2,089
2010	765	155	920	155	67	221	3,792	2,388
2011	736	162	898	149	69	219	4,000	2,551
2012	707	169	877	143	73	216	4,120	2,559
2013	680	177	857	138	76	214	4,283	2,641
2014	654	185	838	132	79	212	4,393	2,690
2015	628	193	821	127	83	210	4,640	2,786
2016	602	202	804	122	87	209	4,763	2,868
2017	577	211	788	117	91	208	4,856	2,923
2018	552	220	772	112	94	206	5,045	3,013
2019	527	230	757	107	99	206	5,176	3,096
2020	502	240	743	102	103	205	5,350	3,161
2021	477	251	729	97	108	205	5,454	3,220
2022	452	263	715	92	113	204	5,711	3,364
2023	427	274	701	87	118	204	5,609	3,407
2024	402	286	688	82	123	204	5,668	3,467
2025	377	298	676	76	128	205	5,728	3,528
2026	353	312	665	72	134	205	5,789	3,590
2027	330	326	656	67	140	207	5,851	3,654
2028	309	341	650	63	146	209	5,912	3,718
2029	290	356	647	59	153	212	5,975	3,784

NOM.	11,927	5,138	17,065	2,417	2,206	4,623	111,599	68,152
NPV	5,069	1,677	6,746	1,027	720	1,747	39,535	24,138

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Heating, Ventilation and Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	523	4,929	0	5,452	0	0	140	0	140	(5,313)	(4,922)
2006	0	530	5,052	0	5,583	0	233	449	0	683	(4,900)	(9,129)
2007	0	544	5,220	0	5,763	0	463	689	0	1,152	(4,611)	(12,796)
2008	0	547	5,441	0	5,988	0	692	1,057	0	1,749	(4,239)	(15,920)
2009	0	555	5,728	0	6,283	0	918	1,402	0	2,320	(3,963)	(18,626)
2010	0	0	272	0	272	4,238	1,141	1,405	0	6,784	6,511	(14,507)
2011	0	0	280	0	280	2,814	1,116	1,449	0	5,379	5,099	(11,518)
2012	0	0	288	0	288	4,160	1,093	1,561	0	6,814	6,526	(7,974)
2013	0	0	296	0	296	4,605	1,071	1,643	0	7,318	7,022	(4,440)
2014	0	0	305	0	305	4,676	1,050	1,703	0	7,429	7,125	(1,119)
2015	0	1	347	0	348	5,066	1,031	1,854	0	7,951	7,603	2,165
2016	0	1	360	0	362	4,711	1,013	1,896	0	7,620	7,258	5,070
2017	0	2	374	0	376	2,238	996	1,933	0	5,167	4,791	6,847
2018	0	2	390	0	392	1,326	979	2,033	0	4,338	3,946	8,202
2019	0	2	407	0	409	4,187	963	2,080	0	7,230	6,821	10,374
2020	0	43	1,141	0	1,184	5,176	948	2,189	0	8,313	7,128	12,476
2021	0	42	1,136	0	1,179	5,608	933	2,234	0	8,776	7,597	14,552
2022	0	38	1,080	0	1,119	4,140	920	2,347	0	7,407	6,288	16,144
2023	0	45	1,208	0	1,253	776	905	2,201	0	3,883	2,630	16,761
2024	0	51	1,332	0	1,383	1,099	892	2,201	0	4,192	2,809	17,372
2025	0	887	8,304	0	9,191	1,429	880	2,200	0	4,509	(4,681)	16,429
2026	0	914	8,591	0	9,504	1,770	870	2,199	0	4,839	(4,666)	15,559
2027	0	956	9,017	0	9,973	2,119	863	2,197	0	5,179	(4,794)	14,730
2028	0	965	9,304	0	10,269	2,476	859	2,194	0	5,529	(4,740)	13,971
2029	0	981	9,703	0	10,684	2,840	858	2,191	0	5,890	(4,794)	13,259

NOM	0	7,630	80,504	0	88,135	65,454	21,688	43,447	0	130,590	42,455	
NPV	0	3,028	31,713	0	34,741	24,109	8,494	15,398	0	48,001	13,259	

Discount Rate:

7.93 %

Benefit/Cost Ratio (Col(11) / Col(6)) :

1.38

00

PARTICIPANT COSTS AND BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Heating, Vent/ating and Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	413	0	2,583	0	2,996	4,904	25	0	4,929	(1,933)	(1,791)
2006	1,195	0	2,571	0	3,765	4,976	77	0	5,052	(1,287)	(2,896)
2007	1,945	0	2,595	0	4,540	5,089	130	0	5,220	(679)	(3,436)
2008	2,730	0	2,535	0	5,265	5,256	185	0	5,441	(176)	(3,566)
2009	3,533	0	2,494	0	6,027	5,487	240	0	5,728	300	(3,361)
2010	3,833	0	0	0	3,833	0	272	0	272	3,561	(1,109)
2011	3,752	0	0	0	3,752	0	280	0	280	3,472	927
2012	3,768	0	0	0	3,768	0	288	0	288	3,480	2,817
2013	3,751	0	0	0	3,751	0	296	0	296	3,455	4,555
2014	3,731	0	0	0	3,731	0	305	0	305	3,426	6,152
2015	3,712	0	2	0	3,714	33	314	0	347	3,367	7,607
2016	3,680	0	2	0	3,682	38	323	0	360	3,322	8,936
2017	3,683	0	3	0	3,686	43	332	0	374	3,312	10,164
2018	3,735	0	3	0	3,738	48	342	0	390	3,348	11,315
2019	3,773	0	3	0	3,776	54	353	0	407	3,370	12,387
2020	3,811	0	49	0	3,860	776	365	0	1,141	2,719	13,189
2021	3,849	0	47	0	3,896	759	377	0	1,136	2,759	13,943
2022	3,887	0	41	0	3,928	690	390	0	1,080	2,848	14,664
2023	3,925	0	46	0	3,971	805	403	0	1,208	2,763	15,312
2024	3,963	0	50	0	4,014	915	417	0	1,332	2,681	15,895
2025	4,002	0	2,533	0	6,535	7,872	432	0	8,304	(1,768)	15,539
2026	4,040	0	2,524	0	6,564	8,144	447	0	8,591	(2,027)	15,161
2027	4,079	0	2,554	0	6,633	8,554	463	0	9,017	(2,383)	14,749
2028	4,118	0	2,489	0	6,606	8,824	479	0	9,304	(2,697)	14,317
2029	4,156	0	2,444	0	6,600	9,207	496	0	9,703	(3,103)	13,856

NOM	87,064	0	25,569	0	112,633	72,473	8,031	0	80,504	32,129
NPV	33,086	0	12,484	0	45,570	28,924	2,790	0	31,713	13,856

In Service of Gen Unit:

Discount Rate :

Benefit/Cost Ratio (Col(6) / Col(10))

2010

7.93

%

1.44

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Heating, Ventilating and Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	523	2,583	378	0	3,484	140	0	0	0	140	(3,344)	(3,099)
2006	0	530	2,571	1,090	0	4,191	449	233	0	0	683	(3,508)	(6,110)
2007	0	544	2,595	1,774	0	4,913	689	463	0	0	1,152	(5,761)	(9,102)
2008	0	547	2,535	2,488	0	5,570	1,057	692	0	0	1,749	(3,820)	(11,917)
2009	0	555	2,494	3,212	0	6,262	1,402	918	0	0	2,320	(3,942)	(14,608)
2010	0	0	0	3,466	0	3,466	5,643	1,141	0	0	6,784	3,317	(12,510)
2011	0	0	0	3,381	0	3,381	4,263	1,116	0	0	5,379	1,999	(11,338)
2012	0	0	0	3,391	0	3,391	5,722	1,093	0	0	6,814	3,423	(9,480)
2013	0	0	0	3,369	0	3,369	6,248	1,071	0	0	7,318	3,949	(7,493)
2014	0	0	0	3,348	0	3,348	6,379	1,050	0	0	7,429	4,081	(5,590)
2015	0	1	2	3,325	0	3,329	6,920	1,031	0	0	7,951	4,623	(3,593)
2016	0	1	2	3,291	0	3,295	6,607	1,013	0	0	7,620	4,325	(1,862)
2017	0	2	3	3,290	0	3,295	4,171	996	0	0	5,167	1,872	(1,168)
2018	0	2	3	3,336	0	3,340	3,359	979	0	0	4,338	997	(826)
2019	0	2	3	3,376	0	3,381	6,267	963	0	0	7,230	3,849	400
2020	0	43	49	3,416	0	3,509	7,365	948	0	0	8,313	4,803	1,816
2021	0	42	47	3,457	0	3,547	7,843	933	0	0	8,776	5,229	3,245
2022	0	38	41	3,499	0	3,578	6,487	920	0	0	7,407	3,828	4,214
2023	0	45	46	3,541	0	3,632	2,978	905	0	0	3,883	251	4,273
2024	0	51	50	3,583	0	3,684	3,300	892	0	0	4,192	508	4,384
2025	0	887	2,533	3,625	0	7,046	3,629	880	0	0	4,509	(2,537)	3,873
2026	0	914	2,524	3,668	0	7,106	3,969	870	0	0	4,839	(2,267)	3,450
2027	0	956	2,554	3,712	0	7,222	4,316	863	0	0	5,179	(2,043)	3,097
2028	0	965	2,489	3,755	0	7,209	4,670	859	0	0	5,529	(1,680)	2,828
2029	0	981	2,444	3,800	0	7,224	5,032	858	0	0	5,890	(1,334)	2,630
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NOM.	0	7,630	25,569	78,572	0	111,772	108,901	21,688	0	0	130,590	18,818	
NPV	0	3,028	12,484	29,859	0	45,371	39,507	8,494	0	0	48,001	2,630	

Discount Rate

7.93 %

Benefit/Cost Ratio (Col(12) / Col(7)) :

1.06

23

COMMERCIAL/INDUSTRIAL EFFICIENT LIGHTING

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Efficient Lighting

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.95 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.28 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	5,380.92 kWh
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	0.00 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
* (8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
* (9) SUPPLY COSTS ESCALATION RATES	*** %**
* (10) UTILITY DISCOUNT RATE	7.93 %
* (11) UTILITY AFUDC RATE	7.84 %
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

* INPUT DATA -- PART 1 CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Efficient Lighting

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	327	483	0	810	538	252	5,660	0	5,660	
2006	171	248	0	419	1,376	613	2,959	0	2,959	
2007	22	32	0	54	1,689	738	385	0	385	
2008	23	31	0	54	1,786	768	392	0	392	
2009	23	31	0	54	1,876	794	400	0	400	
2010	0	0	0	0	1,961	768	0	0	0	
2011	0	0	0	0	2,003	737	0	0	0	
2012	0	0	0	0	2,041	735	0	0	0	
2013	0	0	0	0	2,083	724	0	0	0	
2014	0	0	0	0	2,092	716	0	0	0	
2015	0	0	0	0	2,125	706	0	0	0	
2016	0	0	0	0	2,146	693	0	0	0	
2017	0	0	0	0	2,181	688	0	0	0	
2018	0	0	0	0	2,229	697	0	0	0	
2019	0	0	0	0	2,262	706	0	0	0	
2020	0	0	0	0	2,295	714	0	0	0	
2021	0	0	0	0	2,329	723	0	0	0	
2022	0	0	0	0	2,364	732	0	0	0	
2023	0	0	0	0	2,399	741	0	0	0	
2024	0	0	0	0	2,435	751	0	0	0	
2025	0	0	0	0	2,471	760	0	0	0	
2026	0	0	0	0	2,508	769	0	0	0	
2027	0	0	0	0	2,545	779	0	0	0	
2028	0	0	0	0	2,583	789	0	0	0	
2029	0	0	0	0	2,621	798	0	0	0	

NOM	566	825	0	1,391	52,939	17,892	9,797	0	0	9,797
NPV	500	730	0	1,230	20,451	7,378	8,653	0	0	8,653

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

001

CALCULATION OF GEN K-FACTOR
 PROGRAM METHOD SELECTED REV_REQ
 PROGRAM NAME: Commercial/Industrial Efficient Lighting

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BEG-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2010	6,687	205	0	405	268	0	261	0	1,138	1,138	1,138	6,529
2011	6,426	197	0	389	172	128	261	86	1,259	1,166	2,304	6,725
2012	6,079	186	0	368	172	123	261	72	1,210	1,038	3,343	6,927
2013	5,745	176	0	348	172	118	261	60	1,162	924	4,267	7,135
2014	5,424	166	0	328	171	112	261	49	1,116	822	5,089	7,349
2015	5,114	156	0	309	170	107	261	38	1,071	732	5,821	7,569
2016	4,815	147	0	291	168	102	261	28	1,028	651	6,472	7,796
2017	4,526	138	0	274	166	96	261	19	987	578	7,050	8,030
2018	4,245	130	0	257	157	91	261	18	946	514	7,564	8,271
2019	3,966	121	0	240	147	86	261	18	906	456	8,019	8,519
2020	3,688	113	0	223	136	80	261	18	865	403	8,423	8,775
2021	3,409	104	0	206	125	75	261	18	825	356	8,779	9,038
2022	3,130	96	0	189	115	70	261	18	785	314	9,093	9,309
2023	2,851	87	0	172	104	64	261	18	744	276	9,369	9,588
2024	2,572	79	0	156	94	59	261	18	704	242	9,611	9,876
2025	2,293	70	0	139	83	53	261	18	664	211	9,822	10,172
2026	2,014	62	0	122	72	48	261	18	624	184	10,006	10,478
2027	1,735	53	0	105	62	43	261	18	584	160	10,166	10,792
2028	1,457	45	0	88	51	37	261	18	544	138	10,304	11,116
2029	1,178	36	0	71	41	32	261	18	504	118	10,422	11,449
2030	899	28	0	54	85	27	261	(37)	464	101	10,522	11,793
2031	675	21	0	41	132	21	261	(92)	431	87	10,609	12,146
2032	506	15	0	31	125	16	261	(92)	405	76	10,685	12,511
2033	337	10	0	20	119	11	261	(92)	379	66	10,750	12,886
2034	169	5	0	10	112	5	261	(92)	354	57	10,807	13,273

IN SERVICE COST (\$000)	6,529
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	%
DEBT	45%	6.80	%
P/S	0%	0.00	%
C/S	55%	11.00	%

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Efficient Light

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPR DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	240	240	261	261	240	240	0	541	0	0	0	0	(158)
2011	7.22%	462	702	261	522	240	479	86	541	0	0	0	86	(72)
2012	6.68%	427	1,129	261	784	240	719	72	541	0	0	0	72	0
2013	6.18%	395	1,524	261	1,045	240	958	60	541	0	0	0	60	60
2014	5.71%	365	1,890	261	1,306	240	1,198	49	541	0	0	0	49	109
2015	5.29%	338	2,228	261	1,567	240	1,437	38	541	0	0	0	38	147
2016	4.89%	313	2,540	261	1,828	240	1,677	28	541	0	0	0	28	175
2017	4.52%	289	2,830	261	2,089	240	1,916	19	541	0	0	0	19	195
2018	4.46%	285	3,115	261	2,351	240	2,156	18	541	0	0	0	18	212
2019	4.46%	285	3,400	261	2,612	240	2,395	18	541	0	0	0	18	230
2020	4.46%	285	3,686	261	2,873	240	2,635	18	541	0	0	0	18	248
2021	4.46%	285	3,971	261	3,134	240	2,874	18	541	0	0	0	18	265
2022	4.46%	285	4,257	261	3,395	240	3,114	18	541	0	0	0	18	283
2023	4.46%	285	4,542	261	3,656	240	3,353	18	541	0	0	0	18	301
2024	4.46%	285	4,828	261	3,918	240	3,593	18	541	0	0	0	18	318
2025	4.46%	285	5,113	261	4,179	240	3,832	18	541	0	0	0	18	336
2026	4.46%	285	5,398	261	4,440	240	4,072	18	541	0	0	0	18	354
2027	4.46%	285	5,684	261	4,701	240	4,311	18	541	0	0	0	18	372
2028	4.46%	285	5,969	261	4,962	240	4,551	18	541	0	0	0	18	389
2029	4.46%	285	6,255	261	5,223	240	4,790	18	541	0	0	0	18	407
2030	2.23%	143	6,397	261	5,485	240	5,030	(37)	541	0	0	0	(37)	370
2031	0.00%	0	6,397	261	5,746	240	5,269	(92)	541	0	0	0	(92)	277
2032	0.00%	0	6,397	261	6,007	240	5,509	(92)	541	0	0	0	(92)	185
2033	0.00%	0	6,397	261	6,268	240	5,748	(92)	541	0	0	0	(92)	92
2034	0.00%	0	6,397	261	6,529	240	5,988	(92)	541	0	0	0	(92)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(158)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	541
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

100

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Efficient Lighting

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE	(5a)* ACCUMULATED DEPRECIATION	(5b)* ACCUMULATED DEF TAXES	(6) BEGINNING YEAR RATE BASE	(7) ENDING OF YEAR RATE BASE	(8) MID-YEAR RATE BASE
YEAR	TAX DEPRECIATION - SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	3.75%	240	0	6,529	261	(158)	6,687	6,426	6,556
2011	7.22%	462	86	6,268	522	(72)	6,426	6,079	6,252
2012	6.68%	427	72	6,007	784	0	6,079	5,745	5,912
2013	6.18%	395	60	5,746	1,045	60	5,745	5,424	5,585
2014	5.71%	365	49	5,485	1,306	109	5,424	5,114	5,269
2015	5.29%	338	38	5,223	1,567	147	5,114	4,815	4,965
2016	4.89%	313	28	4,962	1,828	175	4,815	4,526	4,670
2017	4.52%	289	19	4,701	2,089	195	4,526	4,245	4,386
2018	4.46%	285	18	4,440	2,351	212	4,245	3,966	4,106
2019	4.46%	285	18	4,179	2,612	230	3,966	3,688	3,827
2020	4.46%	285	18	3,918	2,873	248	3,688	3,409	3,548
2021	4.46%	285	18	3,656	3,134	265	3,409	3,130	3,269
2022	4.46%	285	18	3,395	3,395	283	3,130	2,851	2,990
2023	4.46%	285	18	3,134	3,656	301	2,851	2,572	2,712
2024	4.46%	285	18	2,873	3,918	318	2,572	2,293	2,433
2025	4.46%	285	18	2,612	4,179	336	2,293	2,014	2,154
2026	4.46%	285	18	2,351	4,440	354	2,014	1,735	1,875
2027	4.46%	285	18	2,089	4,701	372	1,735	1,457	1,596
2028	4.46%	285	18	1,828	4,962	389	1,457	1,178	1,317
2029	4.46%	285	18	1,567	5,223	407	1,178	899	1,038
2030	2.23%	143	(37)	1,306	5,485	370	899	675	787
2031	0.00%	0	(92)	1,045	5,746	277	675	506	591
2032	0.00%	0	(92)	784	6,007	185	506	337	422
2033	0.00%	0	(92)	522	6,268	92	337	169	253
2034	0.00%	0	(92)	261	6,529	0	169	0	84

* Column not specified in workbook

100

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	41.19	1.26	1.26	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	165.15	5.07	6.33	12.99	11.20	14.00	(2.36)	(2.96)	172.08	257.69
2008	345.08	10.65	16.98	27.29	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	521.64	16.20	33.18	41.51	35.05	72.37	(7.27)	(15.11)	165.28	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR
PLANT COSTS 485.29
FUDC RATE 7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	5,641	5,641	5,641
EQUITY AFUDC	541		
DEBT AFUDC	347	347	
CPI			756
TOTAL	6,529	5,988	6,397

* Column not specified in workbook

INPUT DATA – PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Commercial/Industrial Efficient Lighting

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	4.75	4.87	0.00	1.00	1.00
2005	4,789	4,789	3.88	4.38	4.50	0.00	1.00	1.00
2006	7,242	7,242	3.77	4.27	4.41	0.00	1.00	1.00
2007	7,554	7,554	3.71	4.20	4.33	0.00	1.00	1.00
2008	7,865	7,865	3.66	4.19	4.35	0.00	1.00	1.00
2009	8,173	8,173	3.79	4.32	4.50	0.00	1.00	1.00
2010	8,173	8,173	3.90	4.36	4.50	5.14	1.00	1.00
2011	8,173	8,173	4.17	4.65	4.76	5.31	1.00	1.00
2012	8,173	8,173	4.18	4.64	4.80	4.92	1.00	1.00
2013	8,173	8,173	4.31	4.81	4.97	4.83	1.00	1.00
2014	8,173	8,173	4.39	4.89	5.07	4.91	1.00	1.00
2015	8,173	8,173	4.55	5.09	5.28	4.98	1.00	1.00
2016	8,173	8,173	4.69	5.23	5.43	5.27	1.00	1.00
2017	8,173	8,173	4.77	5.32	5.52	6.18	1.00	1.00
2018	8,173	8,173	4.92	5.48	5.69	6.59	1.00	1.00
2019	8,173	8,173	5.06	5.63	5.84	5.84	1.00	1.00
2020	8,173	8,173	5.16	5.76	5.98	5.71	1.00	1.00
2021	8,173	8,173	5.26	5.85	6.09	5.71	1.00	1.00
2022	8,173	8,173	5.50	6.12	6.36	6.49	1.00	1.00
2023	8,173	8,173	5.57	6.14	6.35	7.93	1.00	1.00
2024	8,173	8,173	5.66	6.23	6.44	8.04	1.00	1.00
2025	8,173	8,173	5.76	6.32	6.53	8.15	1.00	1.00
2026	8,173	8,173	5.87	6.41	6.62	8.26	1.00	1.00
2027	8,173	8,173	5.97	6.50	6.71	8.37	1.00	1.00
2028	8,173	8,173	6.07	6.60	6.81	8.49	1.00	1.00
2029	8,173	8,173	6.18	6.69	6.90	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Efficient Lighting

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	1,138	371	9	1,576	2,192	902
2011	1,259	387	15	2,705	3,768	599
2012	1,210	405	16	2,789	3,534	885
2013	1,162	423	16	2,854	3,476	980
2014	1,116	442	17	2,947	3,527	995
2015	1,071	463	17	3,022	3,495	1,078
2016	1,028	484	18	3,208	3,736	1,003
2017	987	505	18	3,208	4,241	476
2018	946	527	18	3,274	4,482	282
2019	906	550	18	3,395	3,978	891
2020	865	575	19	3,470	3,827	1,102
2021	825	602	19	3,498	3,749	1,194
2022	785	629	20	3,759	4,311	881
2023	744	656	19	3,544	4,798	165
2024	704	684	19	3,582	4,755	234
2025	664	714	19	3,619	4,712	304
2026	624	746	19	3,657	4,670	377
2027	584	780	20	3,696	4,629	451
2028	544	816	20	3,735	4,587	527
2029	504	853	20	3,774	4,546	604

NOM	17,665	11,613	356	65,312	81,015	13,931
NPV	6,593	3,509	114	20,641	25,725	5,131

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AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME : Commercial/Industrial Efficient Lighting

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	587	0
2006	100	16	117	20	7	27	1,442	0
2007	149	26	174	30	11	41	1,743	0
2008	150	28	178	30	12	42	1,813	0
2009	151	30	181	31	13	44	1,947	0
2010	152	33	185	31	14	45	1,986	0
2011	146	34	180	30	15	44	2,117	0
2012	140	36	176	28	15	44	2,112	0
2013	135	38	172	27	16	43	2,190	0
2014	130	39	169	26	17	43	2,229	0
2015	124	41	165	25	18	43	2,324	0
2016	119	43	162	24	18	43	2,386	0
2017	114	45	159	23	19	42	2,426	0
2018	109	47	155	22	20	42	2,498	0
2019	103	49	152	21	21	42	2,563	0
2020	98	51	149	20	22	42	2,623	0
2021	93	53	146	19	23	42	2,665	0
2022	88	56	144	18	24	42	2,786	0
2023	82	58	141	17	25	42	2,790	0
2024	77	61	138	16	26	42	2,827	0
2025	72	63	135	15	27	42	2,865	0
2026	67	66	133	14	28	42	2,903	0
2027	63	69	132	13	30	43	2,942	0
2028	59	73	132	12	31	43	2,982	0
2029	56	76	132	11	33	44	3,022	0

NOM.	58,770
NPV	22,181

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Efficient Lighting

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	327	5,660	0	5,987	0	0	587	0	587	(5,400)	(5,003)
2006	0	171	2,959	0	3,130	0	144	1,442	0	1,585	(1,545)	(6,329)
2007	0	22	385	0	408	0	216	1,743	0	1,958	1,551	(5,096)
2008	0	23	392	0	415	0	220	1,813	0	2,033	1,618	(3,903)
2009	0	23	400	0	423	0	225	1,947	0	2,172	1,749	(2,709)
2010	0	0	0	0	0	902	230	1,986	0	3,118	3,118	(737)
2011	0	0	0	0	0	599	225	2,117	0	2,941	2,941	987
2012	0	0	0	0	0	885	220	2,112	0	3,218	3,218	2,735
2013	0	0	0	0	0	980	216	2,190	0	3,386	3,386	4,439
2014	0	0	0	0	0	995	212	2,229	0	3,437	3,437	6,041
2015	0	0	0	0	0	1,078	208	2,324	0	3,610	3,610	7,601
2016	0	0	0	0	0	1,003	205	2,386	0	3,593	3,593	9,039
2017	0	0	0	0	0	476	201	2,426	0	3,103	3,103	10,189
2018	0	0	0	0	0	282	197	2,498	0	2,978	2,978	11,212
2019	0	0	0	0	0	891	194	2,563	0	3,649	3,649	12,374
2020	0	0	0	0	0	1,102	191	2,623	0	3,916	3,916	13,529
2021	0	0	0	0	0	1,194	188	2,665	0	4,047	4,047	14,635
2022	0	0	0	0	0	881	185	2,786	0	3,852	3,852	15,610
2023	0	0	0	0	0	165	182	2,790	0	3,137	3,137	16,346
2024	0	0	0	0	0	234	180	2,827	0	3,241	3,241	17,050
2025	0	0	0	0	0	304	177	2,865	0	3,346	3,346	17,724
2026	0	0	0	0	0	377	175	2,903	0	3,456	3,456	18,369
2027	0	0	0	0	0	451	175	2,942	0	3,568	3,568	18,986
2028	0	0	0	0	0	527	175	2,982	0	3,684	3,684	19,576
2029	0	0	0	0	0	604	176	3,022	0	3,802	3,802	20,140

NOM	0	566	9,797	0	10,362	13,931	4,718	58,770	0	77,418	67,056
NPV	0	500	8,653	0	9,153	5,131	1,980	22,181	0	29,293	20,140

Discount Rate: 7.93 %
 Benefit/Cost Ratio (Col(11) / Col(6)) : 3.20

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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Efficient Lighting

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	979	0	483	0	1,462	5,660	0	0	5,660	(4,198)	(3,889)
2006	2,473	0	248	0	2,720	2,959	0	0	2,959	(239)	(4,094)
2007	3,021	0	32	0	3,052	385	0	0	3,437	2,667	(1,973)
2008	3,182	0	31	0	3,213	392	0	0	3,605	2,821	106
2009	3,329	0	31	0	3,360	400	0	0	3,760	2,960	2,127
2010	3,418	0	0	0	3,418	0	0	0	3,418	3,418	4,289
2011	3,443	0	0	0	3,443	0	0	0	3,443	3,443	6,307
2012	3,494	0	0	0	3,494	0	0	0	3,494	3,494	8,205
2013	3,539	0	0	0	3,539	0	0	0	3,539	3,539	9,986
2014	3,544	0	0	0	3,544	0	0	0	3,544	3,544	11,638
2015	3,577	0	0	0	3,577	0	0	0	3,577	3,577	13,183
2016	3,593	0	0	0	3,593	0	0	0	3,593	3,593	14,621
2017	3,636	0	0	0	3,636	0	0	0	3,636	3,636	15,969
2018	3,709	0	0	0	3,709	0	0	0	3,709	3,709	17,243
2019	3,762	0	0	0	3,762	0	0	0	3,762	3,762	18,441
2020	3,816	0	0	0	3,816	0	0	0	3,816	3,816	19,566
2021	3,871	0	0	0	3,871	0	0	0	3,871	3,871	20,624
2022	3,927	0	0	0	3,927	0	0	0	3,927	3,927	21,619
2023	3,983	0	0	0	3,983	0	0	0	3,983	3,983	22,553
2024	4,041	0	0	0	4,041	0	0	0	4,041	4,041	23,431
2025	4,099	0	0	0	4,099	0	0	0	4,099	4,099	24,257
2026	4,158	0	0	0	4,158	0	0	0	4,158	4,158	25,033
2027	4,218	0	0	0	4,218	0	0	0	4,218	4,218	25,762
2028	4,279	0	0	0	4,279	0	0	0	4,279	4,279	26,447
2029	4,340	0	0	0	4,340	0	0	0	4,340	4,340	27,091

NOM	89,431	0	825	0	90,256	9,797	0	0	9,797	80,459
NPV	35,014	0	730	0	35,744	8,653	0	0	8,653	27,091

In Service of Gen Unit:
Discount Rate : 2010 7.93 %
Benefit/Cost Ratio (Col(6) / Col(10)) 4.13

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RATE IMPACT TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Efficient Lighting

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	327	483	790	0	1,600	587	0	0	0	587	(1,013)	(939)
2006	0	171	248	1,989	0	2,408	1,442	144	0	0	1,585	(822)	(1,645)
2007	0	22	32	2,427	0	2,481	1,743	216	0	0	1,958	(523)	(2,061)
2008	0	23	31	2,554	0	2,608	1,813	220	0	0	2,033	(575)	(2,485)
2009	0	23	31	2,670	0	2,724	1,947	225	0	0	2,172	(552)	(2,461)
2010	0	0	0	2,729	0	2,729	2,888	230	0	0	3,118	389	(2,615)
2011	0	0	0	2,739	0	2,739	2,716	225	0	0	2,941	202	(2,497)
2012	0	0	0	2,777	0	2,777	2,998	220	0	0	3,218	441	(2,257)
2013	0	0	0	2,807	0	2,807	3,170	216	0	0	3,386	579	(1,966)
2014	0	0	0	2,809	0	2,809	3,225	212	0	0	3,437	628	(1,673)
2015	0	0	0	2,830	0	2,830	3,402	208	0	0	3,610	780	(1,336)
2016	0	0	0	2,839	0	2,839	3,389	205	0	0	3,593	754	(1,034)
2017	0	0	0	2,869	0	2,869	2,902	201	0	0	3,103	234	(948)
2018	0	0	0	2,926	0	2,926	2,780	197	0	0	2,978	52	(930)
2019	0	0	0	2,967	0	2,967	3,455	194	0	0	3,649	681	(713)
2020	0	0	0	3,010	0	3,010	3,725	191	0	0	3,916	906	(446)
2021	0	0	0	3,053	0	3,053	3,859	188	0	0	4,047	994	(174)
2022	0	0	0	3,096	0	3,096	3,667	185	0	0	3,852	756	17
2023	0	0	0	3,141	0	3,141	2,955	182	0	0	3,137	(3)	17
2024	0	0	0	3,185	0	3,185	3,061	180	0	0	3,241	55	29
2025	0	0	0	3,231	0	3,231	3,169	177	0	0	3,346	116	52
2026	0	0	0	3,277	0	3,277	3,280	175	0	0	3,456	179	85
2027	0	0	0	3,324	0	3,324	3,393	175	0	0	3,568	244	127
2028	0	0	0	3,371	0	3,371	3,509	175	0	0	3,684	312	177
2029	0	0	0	3,420	0	3,420	3,626	176	0	0	3,802	382	234

NOM.	0	566	825	70,831	0	72,222	72,700	4,718	0	0	77,418	5,196
NPV	0	500	730	27,829	0	29,059	27,313	1,980	0	0	29,293	234

Discount Rate 7.93 %
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.01

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COMMERCIAL/INDUSTRIAL BUILDING ENVELOPE

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Building Envelope

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.88 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.18 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	2,102.52 kWh
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	0.00 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

*INPUT DATA -- PART 1 CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Building Envelope

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	272	390	0	662	112	62	2,219	0	2,219	
2006	236	337	0	573	322	168	2,037	0	2,037	
2007	239	334	0	574	511	262	2,067	0	2,067	
2008	243	332	0	575	709	359	2,103	0	2,103	
2009	248	329	0	577	906	453	2,144	0	2,144	
2010	0	0	0	0	1,020	475	0	0	0	
2011	0	0	0	0	1,036	455	0	0	0	
2012	0	0	0	0	1,053	454	0	0	0	
2013	0	0	0	0	1,071	447	0	0	0	
2014	0	0	0	0	1,075	442	0	0	0	
2015	0	0	0	0	1,088	436	0	0	0	
2016	0	0	0	0	1,097	428	0	0	0	
2017	0	0	0	0	1,112	425	0	0	0	
2018	0	0	0	0	1,134	431	0	0	0	
2019	0	0	0	0	1,149	436	0	0	0	
2020	301	296	0	597	1,163	441	2,788	0	2,788	
2021	310	294	0	603	1,178	447	2,863	0	2,863	
2022	318	292	0	610	1,193	452	2,942	0	2,942	
2023	327	290	0	617	1,208	458	3,022	0	3,022	
2024	336	288	0	624	1,224	464	3,106	0	3,106	
2025	130	94	0	224	1,239	469	676	0	676	
2026	62	43	0	105	1,255	475	308	0	308	
2027	63	43	0	106	1,271	481	315	0	315	
2028	65	42	0	107	1,287	487	322	0	322	
2029	66	41	0	108	1,304	493	329	0	329	
<hr/>										
NCM	3,217	3,443	0	6,660	25,718	10,402	27,240	0	0	27,240
NPV	1,466	1,804	0	3,270	9,488	4,026	12,544	0	0	12,544

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

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CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: Commercial/Industrial Building Envelope

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BEG-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2010	7,180	220	0	434	287	0	280	0	1,222	1,222	1,222	7,011
2011	6,900	211	0	417	185	138	280	92	1,352	1,252	2,474	7,221
2012	6,527	200	0	395	185	132	280	78	1,299	1,115	3,589	7,438
2013	6,169	189	0	373	184	126	280	65	1,248	992	4,582	7,661
2014	5,824	178	0	352	184	121	280	52	1,198	883	5,465	7,891
2015	5,491	168	0	332	182	115	280	41	1,150	786	6,250	8,127
2016	5,170	158	0	313	181	109	280	30	1,104	699	6,949	8,371
2017	4,859	149	0	294	179	103	280	21	1,059	621	7,570	8,622
2018	4,558	139	0	276	169	98	280	19	1,016	552	8,121	8,881
2019	4,259	130	0	258	157	92	280	19	972	489	8,611	9,147
2020	3,959	121	0	240	146	86	280	19	929	433	9,044	9,422
2021	3,660	112	0	221	135	80	280	19	886	383	9,426	9,704
2022	3,361	103	0	203	123	75	280	19	843	337	9,764	9,995
2023	3,061	94	0	185	112	69	280	19	799	296	10,060	10,295
2024	2,762	85	0	167	101	63	280	19	756	260	10,320	10,604
2025	2,462	75	0	149	89	57	280	19	713	227	10,547	10,922
2026	2,163	66	0	131	78	52	280	19	670	198	10,744	11,250
2027	1,863	57	0	113	66	46	280	19	627	171	10,915	11,588
2028	1,564	48	0	95	55	40	280	19	584	148	11,063	11,935
2029	1,265	39	0	77	44	34	280	19	541	127	11,190	12,293
2030	965	30	0	58	31	29	280	(40)	498	108	11,298	12,662
2031	725	22	0	44	141	23	280	(99)	462	93	11,391	13,042
2032	544	17	0	33	134	17	280	(99)	435	81	11,472	13,433
2033	362	11	0	22	128	11	280	(99)	407	70	11,543	13,836
2034	181	6	0	11	121	6	280	(99)	380	61	11,604	14,251

IN SERVICE COST (\$000)	7,011
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.57%
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	45%	6.90%
P/S	0%	0.00%
C/S	55%	11.00%

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Building Envelop

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	258	258	280	280	257	257	0	581	0	0	0	0	(169)
2011	7.22%	496	753	280	561	257	514	92	581	0	0	0	92	(77)
2012	6.68%	459	1,212	280	841	257	772	78	581	0	0	0	78	0
2013	6.18%	424	1,637	280	1,122	257	1,029	65	581	0	0	0	65	65
2014	5.71%	392	2,029	280	1,402	257	1,286	52	581	0	0	0	52	117
2015	5.29%	363	2,392	280	1,683	257	1,543	41	581	0	0	0	41	158
2016	4.89%	336	2,728	280	1,963	257	1,800	30	581	0	0	0	30	188
2017	4.52%	311	3,038	280	2,243	257	2,057	21	581	0	0	0	21	209
2018	4.46%	306	3,345	280	2,524	257	2,315	19	581	0	0	0	19	228
2019	4.46%	306	3,651	280	2,804	257	2,572	19	581	0	0	0	19	247
2020	4.46%	306	3,958	280	3,085	257	2,829	19	581	0	0	0	19	266
2021	4.46%	306	4,264	280	3,365	257	3,086	19	581	0	0	0	19	285
2022	4.46%	306	4,571	280	3,646	257	3,343	19	581	0	0	0	19	304
2023	4.46%	306	4,877	280	3,926	257	3,600	19	581	0	0	0	19	323
2024	4.46%	306	5,183	280	4,206	257	3,858	19	581	0	0	0	19	342
2025	4.46%	306	5,490	280	4,487	257	4,115	19	581	0	0	0	19	361
2026	4.46%	306	5,796	280	4,767	257	4,372	19	581	0	0	0	19	380
2027	4.46%	306	6,103	280	5,048	257	4,629	19	581	0	0	0	19	399
2028	4.46%	306	6,409	280	5,328	257	4,886	19	581	0	0	0	19	418
2029	4.46%	306	6,716	280	5,609	257	5,143	19	581	0	0	0	19	437
2030	2.23%	153	6,869	280	5,889	257	5,401	(40)	581	0	0	0	(40)	397
2031	0.00%	0	6,869	280	6,169	257	5,658	(99)	581	0	0	0	(99)	298
2032	0.00%	0	6,869	280	6,450	257	5,915	(99)	581	0	0	0	(99)	198
2033	0.00%	0	6,869	280	6,730	257	6,172	(99)	581	0	0	0	(99)	99
2034	0.00%	0	6,869	280	7,011	257	6,429	(99)	581	0	0	0	(99)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(170)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	581
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Building Envelope

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION \$(000)	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a)* ACCUMULATED DEPRECIATION \$(000)	(5b)* ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
2010	3.75%	258	0	7,011	280	(169)	7,180	6,900	7,040
2011	7.22%	496	92	6,730	561	(77)	6,900	6,527	6,713
2012	6.68%	459	78	6,450	841	0	6,527	6,169	6,348
2013	6.18%	424	65	6,169	1,122	65	6,169	5,824	5,996
2014	5.71%	392	52	5,889	1,402	117	5,824	5,491	5,658
2015	5.29%	363	41	5,609	1,683	158	5,491	5,170	5,331
2016	4.89%	336	30	5,328	1,963	188	5,170	4,859	5,015
2017	4.52%	311	21	5,048	2,243	209	4,859	4,558	4,709
2018	4.46%	306	19	4,767	2,524	228	4,558	4,259	4,409
2019	4.46%	306	19	4,487	2,804	247	4,259	3,959	4,109
2020	4.46%	306	19	4,206	3,085	266	3,959	3,660	3,810
2021	4.46%	306	19	3,926	3,365	285	3,660	3,361	3,510
2022	4.46%	306	19	3,646	3,646	304	3,361	3,061	3,211
2023	4.46%	306	19	3,365	3,926	323	3,061	2,762	2,911
2024	4.46%	306	19	3,085	4,206	342	2,762	2,462	2,612
2025	4.46%	306	19	2,804	4,487	361	2,462	2,163	2,313
2026	4.46%	306	19	2,524	4,767	380	2,163	1,863	2,013
2027	4.46%	306	19	2,243	5,048	399	1,863	1,564	1,714
2028	4.46%	306	19	1,963	5,328	418	1,564	1,265	1,414
2029	4.46%	306	19	1,683	5,609	437	1,265	965	1,115
2030	2.23%	153	(40)	1,402	5,889	397	965	725	845
2031	0.00%	0	(99)	1,122	6,169	298	725	544	634
2032	0.00%	0	(99)	841	6,450	198	544	362	453
2033	0.00%	0	(99)	561	6,730	99	362	181	272
2034	0.00%	0	(99)	280	7,011	0	181	0	91

* Column not specified in workbook

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(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	-4	41.19	1.26	1.26	3.23	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	-3	165.15	5.07	6.33	12.99	16.22	11.20	14.00	(2.36)	(2.56)	172.08	257.69
2008	-2	345.08	10.65	16.98	27.29	43.51	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	-1	521.64	16.20	33.18	41.51	85.02	35.05	72.37	(7.27)	(15.11)	165.28	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	6,057	6,057	6,057
EQUITY AFUDC	581		
DEBT AFUDC	372	372	
CPI			812
TOTAL	7,011	6,429	6,869

* Column not specified in workbook

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INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Commercial/Industrial Building Envelope

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	(5) AVOIDED MARGINAL FUEL COST (C/kWh)	(6)* INCREASED MARGINAL FUEL COST (C/kWh)	(7) REPLACEMENT FUEL COST (C/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.14	4.53	0.00	1.00	1.00
2005	2,146	2,146	3.88	4.69	4.16	0.00	1.00	1.00
2006	4,001	4,001	3.77	4.66	4.05	0.00	1.00	1.00
2007	5,842	5,842	3.71	4.51	3.98	0.00	1.00	1.00
2008	7,669	7,669	3.66	4.59	3.94	0.00	1.00	1.00
2009	9,483	9,483	3.79	4.76	4.06	0.00	1.00	1.00
2010	9,483	9,483	3.90	4.72	4.15	5.14	1.00	1.00
2011	9,483	9,483	4.17	4.98	4.43	5.31	1.00	1.00
2012	9,483	9,483	4.18	5.10	4.42	4.92	1.00	1.00
2013	9,483	9,483	4.31	5.31	4.57	4.83	1.00	1.00
2014	9,483	9,483	4.39	5.43	4.66	4.91	1.00	1.00
2015	9,483	9,483	4.55	5.69	4.82	4.98	1.00	1.00
2016	9,483	9,483	4.69	5.86	4.96	5.27	1.00	1.00
2017	9,483	9,483	4.77	5.96	5.05	6.18	1.00	1.00
2018	9,483	9,483	4.92	6.16	5.20	6.59	1.00	1.00
2019	9,483	9,483	5.06	6.31	5.33	5.84	1.00	1.00
2020	9,483	9,483	5.16	6.51	5.44	5.71	1.00	1.00
2021	9,483	9,483	5.26	6.64	5.54	5.71	1.00	1.00
2022	9,483	9,483	5.50	6.93	5.79	6.49	1.00	1.00
2023	9,483	9,483	5.57	6.86	5.84	7.93	1.00	1.00
2024	9,483	9,483	5.66	6.93	5.93	8.04	1.00	1.00
2025	9,483	9,483	5.76	7.00	6.03	8.15	1.00	1.00
2026	9,483	9,483	5.87	7.07	6.12	8.26	1.00	1.00
2027	9,483	9,483	5.97	7.14	6.21	8.37	1.00	1.00
2028	9,483	9,483	6.07	7.21	6.31	8.49	1.00	1.00
2029	9,483	9,483	6.18	7.28	6.41	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Building Envelope

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	1,222	398	10	1,692	2,354	968
2011	1,352	416	16	2,904	4,045	643
2012	1,299	435	17	2,994	3,794	951
2013	1,248	454	18	3,064	3,732	1,052
2014	1,198	475	18	3,165	3,787	1,069
2015	1,150	497	18	3,245	3,753	1,158
2016	1,104	520	19	3,445	4,011	1,077
2017	1,059	542	19	3,445	4,554	511
2018	1,016	566	19	3,515	4,813	303
2019	972	591	20	3,645	4,272	957
2020	929	618	20	3,725	4,109	1,183
2021	886	646	20	3,755	4,026	1,282
2022	843	675	21	4,036	4,629	946
2023	799	704	20	3,806	5,151	177
2024	756	735	20	3,846	5,105	251
2025	713	767	21	3,886	5,060	327
2026	670	801	21	3,927	5,015	404
2027	627	838	21	3,968	4,970	484
2028	584	876	21	4,010	4,926	566
2029	541	916	22	4,052	4,882	649

NOM	18,967	12,469	382	70,127	86,988	14,958
NPV	7,079	3,768	122	22,163	27,622	5,510

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AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME : Commercial/Industrial Buiding Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST. \$(000)	AVOIDED TRANSMISSION O&M COST. \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	112	0
2006	42	7	48	8	3	11	322	0
2007	76	13	90	15	6	21	496	0
2008	110	20	130	22	9	31	698	0
2009	143	27	170	29	12	41	919	0
2010	174	35	210	35	15	50	998	0
2011	168	37	205	34	16	50	1,049	0
2012	161	39	200	33	17	49	1,081	0
2013	155	40	195	31	17	49	1,127	0
2014	149	42	191	30	18	48	1,156	0
2015	143	44	187	29	19	48	1,213	0
2016	137	46	183	28	20	48	1,250	0
2017	131	48	180	27	21	47	1,271	0
2018	126	50	176	25	22	47	1,314	0
2019	120	53	173	24	23	47	1,346	0
2020	114	55	169	23	24	47	1,393	0
2021	109	57	166	22	25	47	1,420	0
2022	103	60	163	21	26	47	1,483	0
2023	97	63	160	20	27	47	1,457	0
2024	92	65	157	19	28	47	1,469	0
2025	86	68	154	17	29	47	1,481	0
2026	80	71	152	16	31	47	1,493	0
2027	75	75	150	15	32	47	1,505	0
2028	70	78	148	14	33	48	1,517	0
2029	66	81	147	13	35	48	1,529	0

NOM.	2,727	1,176	3,904	553	505	1,058	29,101	0
NPV	1,164	385	1,549	236	165	401	10,374	0

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	272	2,219	0	2,491	0	0	112	0	112	(2,379)	(2,204)
2006	0	236	2,037	0	2,273	0	60	322	0	381	(1,891)	(3,828)
2007	0	239	2,067	0	2,306	0	111	496	0	606	(1,700)	(5,180)
2008	0	243	2,103	0	2,346	0	161	698	0	859	(1,487)	(6,275)
2009	0	248	2,144	0	2,393	0	211	919	0	1,130	(1,262)	(7,137)
2010	0	0	0	0	0	968	260	998	0	2,227	2,227	(5,728)
2011	0	0	0	0	0	643	254	1,049	0	1,946	1,946	(4,588)
2012	0	0	0	0	0	951	249	1,081	0	2,280	2,280	(3,349)
2013	0	0	0	0	0	1,052	244	1,127	0	2,424	2,424	(2,130)
2014	0	0	0	0	0	1,069	239	1,156	0	2,464	2,464	(981)
2015	0	0	0	0	0	1,158	235	1,213	0	2,606	2,606	145
2016	0	0	0	0	0	1,077	231	1,250	0	2,558	2,558	1,169
2017	0	0	0	0	0	511	227	1,271	0	2,009	2,009	1,914
2018	0	0	0	0	0	303	223	1,314	0	1,840	1,840	2,546
2019	0	0	0	0	0	957	219	1,346	0	2,523	2,523	3,349
2020	0	301	2,788	0	3,089	1,183	216	1,393	0	2,792	(297)	3,261
2021	0	310	2,863	0	3,173	1,282	213	1,420	0	2,914	(259)	3,191
2022	0	318	2,942	0	3,260	946	210	1,483	0	2,639	(621)	3,034
2023	0	327	3,022	0	3,349	177	206	1,457	0	1,841	(1,508)	2,680
2024	0	336	3,106	0	3,442	251	203	1,469	0	1,924	(1,518)	2,350
2025	0	130	676	0	806	327	201	1,481	0	2,008	1,202	2,592
2026	0	62	308	0	370	404	198	1,493	0	2,096	1,726	2,914
2027	0	63	315	0	378	484	197	1,505	0	2,186	1,808	3,226
2028	0	65	322	0	386	566	196	1,517	0	2,279	1,892	3,530
2029	0	66	329	0	395	649	196	1,529	0	2,374	1,979	3,823

NOM	0	3,217	27,240	0	30,457	14,958	4,961	29,101	0	49,020	18,563
NPV	0	1,466	12,544	0	14,010	5,510	1,950	10,374	0	17,833	3,823

Discount Rate:

7.93 %

Benefit/Cost Ratio (Col(11) / Col(6)) :

1.27

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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	213	0	390	0	603	2,219	0	0	2,219	(1,616)	(1,497)
2006	603	0	337	0	940	2,037	0	0	2,037	(1,097)	(2,439)
2007	952	0	334	0	1,286	2,067	0	0	2,067	(780)	(3,059)
2008	1,317	0	332	0	1,649	2,103	0	0	2,103	(454)	(3,394)
2009	1,678	0	329	0	2,007	2,144	0	0	2,144	(137)	(3,488)
2010	1,853	0	0	0	1,853	0	0	0	0	1,853	(2,316)
2011	1,855	0	0	0	1,855	0	0	0	0	1,855	(1,228)
2012	1,878	0	0	0	1,878	0	0	0	0	1,878	(209)
2013	1,895	0	0	0	1,895	0	0	0	0	1,895	744
2014	1,895	0	0	0	1,895	0	0	0	0	1,895	1,628
2015	1,906	0	0	0	1,906	0	0	0	0	1,906	2,451
2016	1,910	0	0	0	1,910	0	0	0	0	1,910	3,216
2017	1,928	0	0	0	1,928	0	0	0	0	1,928	3,930
2018	1,964	0	0	0	1,964	0	0	0	0	1,964	4,605
2019	1,988	0	0	0	1,988	0	0	0	0	1,988	5,238
2020	2,014	0	296	0	2,309	2,788	0	0	2,788	(479)	5,097
2021	2,039	0	294	0	2,333	2,863	0	0	2,863	(531)	4,952
2022	2,065	0	292	0	2,357	2,942	0	0	2,942	(585)	4,804
2023	2,091	0	290	0	2,381	3,022	0	0	3,022	(642)	4,653
2024	2,117	0	288	0	2,405	3,106	0	0	3,106	(701)	4,501
2025	2,144	0	94	0	2,238	676	0	0	676	1,562	4,816
2026	2,171	0	43	0	2,214	308	0	0	308	1,907	5,171
2027	2,199	0	43	0	2,241	315	0	0	315	1,927	5,504
2028	2,227	0	42	0	2,269	322	0	0	322	1,947	5,816
2029	2,255	0	41	0	2,296	329	0	0	329	1,967	6,108

NOM	45,156	0	3,443		48,600	27,240			27,240	21,360
NPV	16,848	0	1,804		18,652	12,544			12,544	6,108

In Service of Gen Unit: 2010
 Discount Rate : 7.93 %
 Benefit/Cost Ratio (Col(6) / Col(10)) 1.49

RATE IMPACT TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Building Envelope

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	272	390	174	0	836	112	0	0	0	112	(723)	(670)
2006	0	236	337	490	0	1,063	322	60	0	0	381	(682)	(1,255)
2007	0	239	334	773	0	1,346	496	111	0	0	606	(740)	(1,844)
2008	0	243	332	1,068	0	1,643	698	161	0	0	859	(784)	(2,422)
2009	0	248	329	1,359	0	1,937	919	211	0	0	1,130	(807)	(2,972)
2010	0	0	0	1,495	0	1,495	1,967	260	0	0	2,227	732	(2,509)
2011	0	0	0	1,491	0	1,491	1,692	254	0	0	1,946	456	(2,242)
2012	0	0	0	1,507	0	1,507	2,031	249	0	0	2,280	773	(1,822)
2013	0	0	0	1,518	0	1,518	2,180	244	0	0	2,424	906	(1,367)
2014	0	0	0	1,517	0	1,517	2,225	239	0	0	2,464	948	(925)
2015	0	0	0	1,524	0	1,524	2,371	235	0	0	2,606	1,082	(457)
2016	0	0	0	1,525	0	1,525	2,327	231	0	0	2,558	1,033	(44)
2017	0	0	0	1,537	0	1,537	1,782	227	0	0	2,009	472	131
2018	0	0	0	1,565	0	1,565	1,617	223	0	0	1,840	275	226
2019	0	0	0	1,585	0	1,585	2,303	219	0	0	2,523	938	524
2020	0	301	296	1,605	0	2,202	2,576	216	0	0	2,792	590	698
2021	0	310	294	1,625	0	2,228	2,701	213	0	0	2,914	686	886
2022	0	318	292	1,646	0	2,255	2,429	210	0	0	2,639	383	983
2023	0	327	290	1,666	0	2,283	1,635	206	0	0	1,841	(442)	879
2024	0	336	288	1,687	0	2,311	1,720	203	0	0	1,924	(387)	795
2025	0	130	94	1,709	0	1,933	1,807	201	0	0	2,008	75	810
2026	0	62	43	1,730	0	1,835	1,897	198	0	0	2,096	260	859
2027	0	63	43	1,752	0	1,858	1,989	197	0	0	2,186	328	915
2028	0	65	42	1,774	0	1,881	2,083	196	0	0	2,279	398	979
2029	0	66	41	1,797	0	1,904	2,178	196	0	0	2,374	470	1,049

NOM.	0	3,217		36,120	0	42,780	44,059				49,020		
NPV	0	1,466			0	16,785	15,884						

Discount Rate 7.93 %
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.06

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BUSINESS CUSTOM INCENTIVE

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Business Custom Incentive

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.00 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.35 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	5,197.69 kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	1755.50 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.63761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	23.05 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)

*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

**** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK.

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* INPUT DATA -- PART 1 CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Custom Incentive

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	4	106	0	109	18	14	318	0	318	
2006	4	106	0	109	56	39	325	0	325	
2007	4	106	0	109	93	64	332	0	332	
2008	4	106	0	110	133	90	340	0	340	
2009	4	106	0	110	172	115	349	0	349	
2010	0	0	0	0	197	121	0	0	0	
2011	0	0	0	0	201	117	0	0	0	
2012	0	0	0	0	205	116	0	0	0	
2013	0	0	0	0	210	115	0	0	0	
2014	0	0	0	0	211	113	0	0	0	
2015	0	0	0	0	214	112	0	0	0	
2016	0	0	0	0	217	110	0	0	0	
2017	0	0	0	0	220	109	0	0	0	
2018	0	0	0	0	225	110	0	0	0	
2019	0	0	0	0	229	112	0	0	0	
2020	0	0	0	0	233	113	0	0	0	
2021	0	0	0	0	237	114	0	0	0	
2022	0	0	0	0	241	116	0	0	0	
2023	0	0	0	0	245	117	0	0	0	
2024	0	0	0	0	249	119	0	0	0	
2025	6	106	0	112	253	120	570	0	570	
2026	7	106	0	112	258	122	590	0	590	
2027	7	106	0	113	262	123	611	0	611	
2028	7	106	0	113	266	125	633	0	633	
2029	7	106	0	113	271	126	655	0	655	
<hr/>										
NOM	53	1,058	0	1,111	5,120	2,653	4,724	0	0	4,724
NPV	21	515	0	536	1,858	1,022	1,856	0	0	1,856

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: Business Custom Incentive

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BEG-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2010	1,216	37	0	74	49	0	48	0	207	207	207	1,188
2011	1,169	36	0	71	31	23	5	48	16	229	419	1,223
2012	1,106	34	0	67	31	22	5	48	13	220	608	1,260
2013	1,045	32	0	63	31	21	5	48	11	211	776	1,298
2014	987	30	0	60	31	20	5	48	9	203	926	1,337
2015	930	28	0	56	31	19	5	48	7	195	1,059	1,377
2016	876	27	0	53	31	18	6	48	5	187	1,177	1,418
2017	823	25	0	50	30	18	6	48	3	179	1,282	1,461
2018	772	24	0	47	29	17	6	48	3	172	1,376	1,504
2019	721	22	0	44	27	16	6	48	3	165	1,459	1,549
2020	671	21	0	41	25	15	6	48	3	157	1,532	1,596
2021	620	19	0	38	23	14	6	48	3	150	1,597	1,644
2022	569	17	0	34	21	13	7	48	3	143	1,654	1,693
2023	519	16	0	31	19	12	7	48	3	135	1,704	1,744
2024	468	14	0	28	17	11	7	48	3	128	1,748	1,796
2025	417	13	0	25	15	10	7	48	3	121	1,787	1,850
2026	366	11	0	22	13	9	7	48	3	113	1,820	1,906
2027	316	10	0	19	11	8	8	48	3	106	1,849	1,963
2028	265	8	0	16	9	7	8	48	3	99	1,874	2,022
2029	214	7	0	13	7	6	8	48	3	92	1,896	2,082
2030	163	5	0	10	5	5	8	48	(7)	84	1,914	2,145
2031	123	4	0	7	24	4	9	48	(17)	78	1,930	2,209
2032	92	3	0	6	23	3	9	48	(17)	74	1,943	2,275
2033	61	2	0	4	22	2	9	48	(17)	69	1,955	2,344
2034	31	1	0	2	20	1	9	48	(17)	64	1,966	2,414

IN SERVICE COST (\$000)	1,188
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.03%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	45%	6.80 %
P/S	0%	0.00 %
C/S	55%	11.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Custom Incentive

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	44	44	48	48	44	44	0	98	0	0	0	0	(29)
2011	7.22%	84	128	48	95	44	87	16	98	0	0	0	16	(13)
2012	6.68%	78	205	48	143	44	131	13	98	0	0	0	13	0
2013	6.18%	72	277	48	190	44	174	11	98	0	0	0	11	11
2014	5.71%	66	344	48	238	44	218	9	98	0	0	0	9	20
2015	5.29%	61	405	48	285	44	261	7	98	0	0	0	7	27
2016	4.89%	57	462	48	333	44	305	5	98	0	0	0	5	32
2017	4.52%	53	515	48	380	44	349	3	98	0	0	0	3	35
2018	4.46%	52	567	48	428	44	392	3	98	0	0	0	3	39
2019	4.46%	52	618	48	475	44	436	3	98	0	0	0	3	42
2020	4.46%	52	670	48	523	44	479	3	98	0	0	0	3	45
2021	4.46%	52	722	48	570	44	523	3	98	0	0	0	3	48
2022	4.46%	52	774	48	618	44	566	3	98	0	0	0	3	51
2023	4.46%	52	826	48	665	44	610	3	98	0	0	0	3	55
2024	4.46%	52	878	48	713	44	653	3	98	0	0	0	3	58
2025	4.46%	52	930	48	760	44	697	3	98	0	0	0	3	61
2026	4.46%	52	982	48	808	44	741	3	98	0	0	0	3	64
2027	4.46%	52	1,034	48	855	44	784	3	98	0	0	0	3	68
2028	4.46%	52	1,086	48	903	44	828	3	98	0	0	0	3	71
2029	4.46%	52	1,138	48	950	44	871	3	98	0	0	0	3	74
2030	2.23%	26	1,164	48	998	44	915	(7)	98	0	0	0	(7)	67
2031	0.00%	0	1,164	48	1,045	44	958	(17)	98	0	0	0	(17)	50
2032	0.00%	0	1,164	48	1,093	44	1,002	(17)	98	0	0	0	(17)	34
2033	0.00%	0	1,164	48	1,140	44	1,049	(17)	98	0	0	0	(17)	17
2034	0.00%	0	1,164	48	1,188	44	1,089	(17)	98	0	0	0	(17)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(29)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	98
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Custom Incentive

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	END OF YEAR NET PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2010	3.75%	44	0	1,188	48	(29)	1,216	1,169	1,193
2011	7.22%	84	16	1,140	95	(13)	1,169	1,106	1,137
2012	6.68%	78	13	1,093	143	0	1,106	1,045	1,075
2013	6.18%	72	11	1,045	190	11	1,045	987	1,016
2014	5.71%	66	9	998	238	20	987	930	958
2015	5.29%	61	7	950	285	27	930	876	903
2016	4.89%	57	5	903	333	32	876	823	849
2017	4.52%	53	3	855	380	35	823	772	798
2018	4.46%	52	3	808	428	39	772	721	747
2019	4.46%	52	3	760	475	42	721	671	696
2020	4.46%	52	3	713	523	45	671	620	645
2021	4.46%	52	3	665	570	48	620	569	595
2022	4.46%	52	3	618	618	51	569	519	544
2023	4.46%	52	3	570	665	55	519	468	493
2024	4.46%	52	3	523	713	58	468	417	442
2025	4.46%	52	3	475	760	61	417	366	392
2026	4.46%	52	3	428	808	64	366	316	341
2027	4.46%	52	3	380	855	68	316	265	290
2028	4.46%	52	3	333	903	71	265	214	240
2029	4.46%	52	3	285	950	74	214	163	189
2030	2.23%	26	(7)	238	998	67	163	123	143
2031	0.00%	0	(17)	190	1,045	50	123	92	107
2032	0.00%	0	(17)	143	1,093	34	92	61	77
2033	0.00%	0	(17)	95	1,140	17	61	31	46
2034	0.00%	0	(17)	48	1,188	0	31	0	15

* Column not specified in workbook

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(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

(8) YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	-4	41.19	1.26	1.26	3.23	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	-3	165.15	5.07	6.33	12.99	16.22	11.20	14.00	(2.36)	(2.96)	172.08	297.69
2008	-2	345.08	10.65	16.98	27.29	43.51	23.31	37.32	(4.89)	(7.84)	282.07	499.75
2009	-1	521.64	16.20	33.18	41.51	85.02	35.05	72.37	(7.27)	(15.11)	165.38	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.64%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	1,026	1,026	1,026
EQUITY AFUDC	98		
DEBT AFUDC	63	63	
CPI			137
TOTAL	1,188	1,089	1,164

* Column not specified in workbook

INPUT DATA – PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Business Custom Incentive

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	4.76	4.86	0.00	1.00	1.00
2005	282	282	3.88	4.39	4.49	0.00	1.00	1.00
2006	564	564	3.77	4.29	4.40	0.00	1.00	1.00
2007	846	846	3.71	4.22	4.32	0.00	1.00	1.00
2008	1,128	1,128	3.66	4.20	4.34	0.00	1.00	1.00
2009	1,410	1,410	3.79	4.34	4.48	0.00	1.00	1.00
2010	1,410	1,410	3.90	4.37	4.49	5.14	1.00	1.00
2011	1,410	1,410	4.17	4.66	4.74	5.31	1.00	1.00
2012	1,410	1,410	4.18	4.65	4.78	4.92	1.00	1.00
2013	1,410	1,410	4.31	4.82	4.96	4.83	1.00	1.00
2014	1,410	1,410	4.39	4.91	5.05	4.91	1.00	1.00
2015	1,410	1,410	4.55	5.11	5.26	4.98	1.00	1.00
2016	1,410	1,410	4.69	5.25	5.41	5.27	1.00	1.00
2017	1,410	1,410	4.77	5.34	5.50	6.18	1.00	1.00
2018	1,410	1,410	4.92	5.50	5.67	6.59	1.00	1.00
2019	1,410	1,410	5.06	5.64	5.83	5.84	1.00	1.00
2020	1,410	1,410	5.16	5.78	5.96	5.71	1.00	1.00
2021	1,410	1,410	5.26	5.87	6.06	5.71	1.00	1.00
2022	1,410	1,410	5.50	6.14	6.34	6.49	1.00	1.00
2023	1,410	1,410	5.57	6.16	6.33	7.93	1.00	1.00
2024	1,410	1,410	5.66	6.25	6.42	8.04	1.00	1.00
2025	1,410	1,410	5.76	6.34	6.51	8.15	1.00	1.00
2026	1,410	1,410	5.87	6.43	6.60	8.26	1.00	1.00
2027	1,410	1,410	5.97	6.52	6.70	8.37	1.00	1.00
2028	1,410	1,410	6.07	6.61	6.79	8.49	1.00	1.00
2029	1,410	1,410	6.18	6.70	6.89	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

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AVOIDED GENERATING BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business Custom Incentive

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	207	67	2	287	399	164
2011	229	70	3	492	685	109
2012	220	74	3	507	643	161
2013	211	77	3	519	632	178
2014	203	80	3	536	642	181
2015	195	84	3	550	636	196
2016	187	88	3	584	679	182
2017	179	92	3	584	771	87
2018	172	96	3	595	815	51
2019	165	100	3	617	724	162
2020	157	105	3	631	696	200
2021	150	109	3	636	682	217
2022	143	114	4	684	784	160
2023	135	119	3	645	873	30
2024	128	124	3	651	865	43
2025	121	130	3	658	857	55
2026	113	136	4	665	849	69
2027	106	142	4	672	842	82
2028	99	148	4	679	834	96
2029	92	155	4	686	827	110

NOM	3,213	2,112	65	11,879	14,735	2,534
NPV	1,199	638	21	3,754	4,679	933

AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME : Business Custom Incentive

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	33	10
2006	6	1	7	1	0	2	98	30
2007	12	2	14	2	1	3	161	50
2008	18	3	22	4	1	5	225	69
2009	24	5	29	5	2	7	299	91
2010	30	6	36	6	3	9	332	104
2011	29	6	35	6	3	8	354	111
2012	27	7	34	6	3	8	353	112
2013	26	7	33	5	3	8	366	115
2014	25	7	32	5	3	8	373	118
2015	24	7	32	5	3	8	389	122
2016	23	8	31	5	3	8	399	125
2017	22	8	31	5	4	8	406	128
2018	21	9	30	4	4	8	418	132
2019	20	9	29	4	4	8	429	135
2020	19	9	29	4	4	8	439	138
2021	18	10	28	4	4	8	446	141
2022	18	10	28	4	4	8	466	147
2023	17	11	27	3	5	8	467	149
2024	16	11	27	3	5	8	473	151
2025	15	12	26	3	5	8	479	154
2026	14	12	26	3	5	8	485	157
2027	13	13	25	3	5	8	492	160
2028	12	13	25	2	6	8	498	162
2029	11	14	25	2	6	8	505	165
NOM.	462	199	660	94	85	179	9,385	2,976
NPV	196	65	261	40	28	68	3,348	1,053

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Business Custom Incentive

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	4	318	0	322	0	0	23	0	23	(299)	(277)
2006	0	4	325	0	328	0	9	68	0	77	(251)	(492)
2007	0	4	332	0	336	0	18	111	0	129	(206)	(656)
2008	0	4	340	0	344	0	27	157	0	183	(161)	(775)
2009	0	4	349	0	353	0	35	208	0	243	(110)	(850)
2010	0	0	0	0	0	164	44	228	0	436	436	(574)
2011	0	0	0	0	0	109	43	242	0	395	395	(343)
2012	0	0	0	0	0	161	42	241	0	445	445	(101)
2013	0	0	0	0	0	178	41	251	0	471	471	136
2014	0	0	0	0	0	181	41	255	0	477	477	358
2015	0	0	0	0	0	196	40	267	0	503	503	575
2016	0	0	0	0	0	182	39	274	0	495	495	774
2017	0	0	0	0	0	87	39	278	0	403	403	923
2018	0	0	0	0	0	51	38	286	0	375	375	1,052
2019	0	0	0	0	0	162	37	294	0	493	493	1,209
2020	0	0	0	0	0	200	37	301	0	538	538	1,368
2021	0	0	0	0	0	217	36	305	0	559	559	1,520
2022	0	0	0	0	0	160	36	319	0	515	515	1,651
2023	0	0	0	0	0	30	35	318	0	383	383	1,741
2024	0	0	0	0	0	43	35	321	0	398	398	1,827
2025	0	6	570	0	577	55	34	325	0	414	(162)	1,795
2026	0	7	590	0	597	69	34	328	0	431	(166)	1,764
2027	0	7	611	0	618	82	33	332	0	448	(170)	1,734
2028	0	7	633	0	640	96	33	336	0	465	(175)	1,706
2029	0	7	655	0	663	110	33	340	0	483	(180)	1,679

NOM	0	53	4,724	0	4,777	2,534	839	6,410	0	9,783	5,006
NPV	0	21	1,856	0	1,877	933	329	2,294	0	3,556	1,679

Discount Rate: 7.93 %
Benefit/Cost Ratio (Col(11) / Col(6)) : 1.89

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Business Custom Incentive

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	39	0	106	0	144	318	0	0	318	(174)	(161)
2006	115	0	106	0	221	325	0	0	325	(103)	(250)
2007	190	0	106	0	296	332	0	0	332	(36)	(278)
2008	269	0	106	0	375	340	0	0	340	35	(252)
2009	348	0	106	0	454	349	0	0	349	105	(181)
2010	388	0	0	0	388	0	0	0	0	388	64
2011	389	0	0	0	389	0	0	0	0	389	292
2012	394	0	0	0	394	0	0	0	0	394	506
2013	398	0	0	0	398	0	0	0	0	398	706
2014	398	0	0	0	398	0	0	0	0	398	892
2015	401	0	0	0	401	0	0	0	0	401	1,065
2016	402	0	0	0	402	0	0	0	0	402	1,227
2017	407	0	0	0	407	0	0	0	0	407	1,377
2018	415	0	0	0	415	0	0	0	0	415	1,520
2019	421	0	0	0	421	0	0	0	0	421	1,654
2020	428	0	0	0	428	0	0	0	0	428	1,780
2021	435	0	0	0	435	0	0	0	0	435	1,899
2022	442	0	0	0	442	0	0	0	0	442	2,011
2023	449	0	0	0	449	0	0	0	0	449	2,116
2024	456	0	0	0	456	0	0	0	0	456	2,215
2025	463	0	106	0	568	570	0	0	570	(2)	2,215
2026	470	0	106	0	576	590	0	0	590	(14)	2,212
2027	477	0	106	0	583	611	0	0	611	(28)	2,207
2028	485	0	106	0	591	633	0	0	633	(42)	2,201
2029	493	0	106	0	598	655	0	0	655	(57)	2,192

NOM	9,572	0	1,058	0	10,629	4,724	0	0	4,724	5,906
NPV	3,533	0	515	0	4,048	1,856	0	0	1,856	2,192

In Service of Gen Unit: 2010
Discount Rate : 7.93 %
Benefit/Cost Ratio (Col(6) / Col(10)) 2.18

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Business Custom Incentive

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	4	106	32	0	141	23	0	0	0	23	(118)	(110)
2006	0	4	106	96	0	205	68	9	0	0	77	(128)	(220)
2007	0	4	106	158	0	267	111	18	0	0	129	(138)	(329)
2008	0	4	106	223	0	332	157	27	0	0	183	(149)	(439)
2009	0	4	106	288	0	397	208	35	0	0	243	(154)	(544)
2010	0	0	0	318	0	318	392	44	0	0	436	118	(470)
2011	0	0	0	318	0	318	351	43	0	0	395	77	(425)
2012	0	0	0	322	0	322	402	42	0	0	445	123	(358)
2013	0	0	0	325	0	325	429	41	0	0	471	146	(284)
2014	0	0	0	324	0	324	437	41	0	0	477	153	(213)
2015	0	0	0	326	0	326	463	40	0	0	503	177	(137)
2016	0	0	0	326	0	326	456	39	0	0	495	169	(69)
2017	0	0	0	329	0	329	365	39	0	0	403	74	(42)
2018	0	0	0	336	0	336	338	38	0	0	375	40	(28)
2019	0	0	0	341	0	341	456	37	0	0	493	152	21
2020	0	0	0	346	0	346	501	37	0	0	538	192	77
2021	0	0	0	351	0	351	522	36	0	0	559	207	134
2022	0	0	0	357	0	357	480	36	0	0	515	158	174
2023	0	0	0	362	0	362	348	35	0	0	383	20	179
2024	0	0	0	368	0	368	364	35	0	0	398	30	185
2025	0	6	106	374	0	486	380	34	0	0	414	(72)	171
2026	0	7	106	379	0	492	397	34	0	0	431	(61)	159
2027	0	7	106	385	0	498	414	33	0	0	448	(50)	151
2028	0	7	106	391	0	504	432	33	0	0	465	(39)	144
2029	0	7	106	397	0	510	449	33	0	0	483	(28)	140
NOM.	0	53	1,058	7,773	0	8,884	8,943	839	0	0	9,783	899	
NPV	0	21	515	2,880	0	3,416	3,227	329	0	0	3,556	140	

Discount Rate

7.93 %

Benefit/Cost Ratio (Col(12) / Col(7)) :

1.04

BUSINESS ON CALL

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.85 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.15 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	2.66 kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	1.45 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	84.37 \$/kW
(6) BASE YEAR DISTRIBUTION COST	13.83 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	2.47 \$/kW
(11) DISTRIBUTION FIXED O & M COST	1.43 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.76 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

• SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)
 *** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2
 **** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK.

* INPUT DATA -- PART I CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business On Call

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(000)
2004	0	0	0	0	0	0	0	0	0	
2005	138	88	0	226	0	0	0	0	0	
2006	268	264	0	532	0	0	0	0	0	
2007	393	440	0	833	2	0	0	0	0	
2008	515	616	0	1,131	1	0	0	0	0	
2009	635	792	0	1,427	1	0	0	0	0	
2010	541	880	0	1,421	1	0	0	0	0	
2011	451	880	0	1,331	1	0	0	0	0	
2012	368	880	0	1,248	1	0	0	0	0	
2013	292	880	0	1,172	1	0	0	0	0	
2014	221	880	0	1,101	2	0	0	0	0	
2015	219	880	0	1,099	2	0	0	0	0	
2016	225	880	0	1,105	2	0	0	0	0	
2017	232	880	0	1,112	2	0	0	0	0	
2018	239	880	0	1,119	2	0	0	0	0	
2019	247	880	0	1,126	2	0	0	0	0	
2020	255	880	0	1,135	2	0	0	0	0	
2021	263	880	0	1,143	2	0	0	0	0	
2022	272	880	0	1,152	2	0	0	0	0	
2023	282	880	0	1,162	2	0	0	0	0	
2024	291	880	0	1,171	2	0	0	0	0	
2025	301	880	0	1,181	2	0	0	0	0	
2026	312	880	0	1,192	2	0	0	0	0	
2027	323	880	0	1,203	2	0	0	0	0	
2028	335	880	0	1,215	2	0	0	0	0	
2029	347	880	0	1,226	2	0	0	0	0	

NOM	19,798	27,764
NPV	7,582	11,179

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GENK-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: Business On Call

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BEG-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2010	16,598	508	0	1,004	664	0	648	0	2,825	2,825	2,825	16,206
2011	15,949	488	0	965	427	319	65	213	3,125	2,895	5,720	16,692
2012	15,088	462	0	913	427	305	67	180	3,002	2,577	8,297	17,193
2013	14,260	436	0	863	426	292	69	149	2,884	2,294	10,591	17,709
2014	13,463	412	0	814	425	279	71	121	2,770	2,041	12,632	18,240
2015	12,694	388	0	768	422	266	73	94	2,659	1,816	14,448	18,787
2016	11,951	366	0	723	418	252	75	70	2,553	1,615	16,063	19,351
2017	11,233	344	0	680	413	239	78	48	2,449	1,435	17,498	19,931
2018	10,537	322	0	637	390	226	80	44	2,348	1,275	18,773	20,529
2019	9,845	301	0	596	364	212	82	44	2,248	1,131	19,904	21,145
2020	9,153	280	0	554	338	199	85	44	2,148	1,001	20,906	21,779
2021	8,461	259	0	512	311	186	87	44	2,048	884	21,790	22,433
2022	7,768	238	0	470	285	173	90	44	1,948	779	22,569	23,106
2023	7,076	217	0	428	259	159	93	44	1,848	685	23,255	23,799
2024	6,384	195	0	386	232	146	96	44	1,748	600	23,855	24,513
2025	5,692	174	0	344	206	133	98	44	1,648	525	24,380	25,248
2026	5,000	153	0	302	180	119	101	44	1,548	457	24,836	26,006
2027	4,308	132	0	261	154	106	104	44	1,449	396	25,232	26,786
2028	3,615	111	0	219	127	93	108	44	1,349	342	25,574	27,589
2029	2,923	89	0	177	101	80	111	44	1,250	293	25,867	28,417
2030	2,231	68	0	135	211	66	114	(93)	1,151	250	26,117	29,269
2031	1,675	51	0	101	327	53	118	(229)	1,069	215	26,332	30,148
2032	1,257	38	0	76	311	40	121	(229)	1,005	188	26,520	31,052
2033	838	26	0	51	295	27	125	(229)	941	163	26,683	31,984
2034	419	13	0	25	279	13	128	(229)	878	141	26,823	32,943

IN SERVICE COST (\$000)	16,206
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	
DEBT	45%	6.80	%
P/S	0%	0.00	%
C/S	55%	11.00	%

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business On Call

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	595	595	648	648	594	594	0	1,344	0	0	0	0	(392)
2011	7.22%	1,146	1,742	648	1,296	594	1,189	213	1,344	0	0	0	213	(179)
2012	6.68%	1,060	2,802	648	1,945	594	1,783	180	1,344	0	0	0	180	1
2013	6.18%	981	3,783	648	2,593	594	2,378	149	1,344	0	0	0	149	150
2014	5.71%	907	4,690	648	3,241	594	2,972	121	1,344	0	0	0	121	271
2015	5.29%	839	5,529	648	3,889	594	3,567	94	1,344	0	0	0	94	365
2016	4.89%	776	6,305	648	4,538	594	4,161	70	1,344	0	0	0	70	435
2017	4.52%	718	7,023	648	5,186	594	4,756	48	1,344	0	0	0	48	483
2018	4.46%	708	7,732	648	5,834	594	5,350	44	1,344	0	0	0	44	527
2019	4.46%	708	8,440	648	6,482	594	5,945	44	1,344	0	0	0	44	571
2020	4.46%	708	9,149	648	7,131	594	6,539	44	1,344	0	0	0	44	615
2021	4.46%	708	9,857	648	7,779	594	7,134	44	1,344	0	0	0	44	659
2022	4.46%	708	10,565	648	8,427	594	7,728	44	1,344	0	0	0	44	703
2023	4.46%	708	11,274	648	9,075	594	8,323	44	1,344	0	0	0	44	746
2024	4.46%	708	11,982	648	9,723	594	8,917	44	1,344	0	0	0	44	790
2025	4.46%	708	12,690	648	10,372	594	9,512	44	1,344	0	0	0	44	834
2026	4.46%	708	13,399	648	11,020	594	10,106	44	1,344	0	0	0	44	878
2027	4.46%	708	14,107	648	11,668	594	10,700	44	1,344	0	0	0	44	922
2028	4.46%	708	14,816	648	12,316	594	11,295	44	1,344	0	0	0	44	966
2029	4.46%	708	15,524	648	12,965	594	11,889	44	1,344	0	0	0	44	1,010
2030	2.23%	354	15,878	648	13,613	594	12,484	(93)	1,344	0	0	0	(93)	917
2031	0.00%	0	15,878	648	14,261	594	13,078	(229)	1,344	0	0	0	(229)	688
2032	0.00%	0	15,878	648	14,909	594	13,673	(229)	1,344	0	0	0	(229)	459
2033	0.00%	0	15,878	648	15,558	594	14,267	(229)	1,344	0	0	0	(229)	230
2034	0.00%	0	15,878	648	16,206	594	14,862	(229)	1,344	0	0	0	(229)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(392)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,344
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business On Call

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE	(5a)* ACCUMULATED DEPRECIATION	(5b)* ACCUMULATED DEF TAXES	(6) BEGINNING YEAR RATE BASE	(7) ENDING OF YEAR RATE BASE	(8) MID-YEAR RATE BASE
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	3.75%	595	0	16,206	648	(392)	16,598	15,949	16,273
2011	7.22%	1,146	213	15,558	1,296	(179)	15,949	15,088	15,519
2012	6.68%	1,060	180	14,909	1,945	1	15,088	14,260	14,674
2013	6.18%	981	149	14,261	2,593	150	14,260	13,463	13,861
2014	5.71%	907	121	13,613	3,241	271	13,463	12,694	13,078
2015	5.29%	839	94	12,965	3,889	365	12,694	11,951	12,323
2016	4.89%	776	70	12,316	4,538	485	11,951	11,233	11,592
2017	4.52%	718	48	11,668	5,186	483	11,233	10,537	10,885
2018	4.46%	708	44	11,020	5,834	527	10,537	9,845	10,191
2019	4.46%	708	44	10,372	6,482	571	9,845	9,153	9,499
2020	4.46%	708	44	9,723	7,131	615	9,153	8,461	8,807
2021	4.46%	708	44	9,075	7,779	659	8,461	7,768	8,114
2022	4.46%	708	44	8,427	8,427	703	7,768	7,076	7,422
2023	4.46%	708	44	7,779	9,075	746	7,076	6,384	6,730
2024	4.46%	708	44	7,131	9,723	790	6,384	5,692	6,038
2025	4.46%	708	44	6,482	10,372	834	5,692	5,000	5,346
2026	4.46%	708	44	5,834	11,020	878	5,000	4,308	4,654
2027	4.46%	708	44	5,186	11,668	922	4,308	3,615	3,961
2028	4.46%	708	44	4,538	12,316	966	3,615	2,923	3,269
2029	4.46%	708	44	3,889	12,965	1,010	2,923	2,231	2,577
2030	2.23%	354	(93)	3,241	13,613	917	2,231	1,675	1,953
2031	0.00%	0	(229)	2,593	14,261	688	1,675	1,257	1,466
2032	0.00%	0	(229)	1,945	14,909	459	1,257	838	1,047
2033	0.00%	0	(229)	1,296	15,558	230	838	419	628
2034	0.00%	0	(229)	648	16,206	0	419	0	209

* Column not specified in workbook

(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	-4	41.19	1.26	1.26	3.23	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	-3	165.15	5.07	6.33	12.99	16.22	11.20	14.00	(2.56)	(2.56)	172.08	257.69
2008	-2	345.08	10.65	16.98	27.29	43.51	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	-1	521.64	16.20	33.18	41.51	85.02	35.05	72.37	(7.27)	(15.11)	165.28	625.03

33.18

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	14,001	14,001	14,001
EQUITY AFUDC	1,344		
DEBT AFUDC	860	860	
CPI			1,876
TOTAL	16,206	14,862	15,878

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM/METHOD SELECTED : REV_REQ
 PROGRAM NAME: Business On Call

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.85	4.22	0.00	1.00	3.00
2005	4,524	4,524	3.88	5.30	3.88	0.00	1.00	1.00
2006	9,048	9,048	3.77	5.43	3.77	0.00	1.00	0.28
2007	13,572	13,572	3.71	5.66	3.71	0.00	1.00	3.00
2008	18,096	18,096	3.66	5.26	3.66	0.00	1.00	1.00
2009	22,620	22,620	3.79	5.43	3.79	0.00	1.00	1.00
2010	22,620	22,620	3.90	5.19	3.90	5.14	1.00	1.00
2011	22,620	22,620	4.17	5.70	4.17	5.31	1.00	0.28
2012	22,620	22,620	4.18	5.40	4.18	4.92	1.00	1.00
2013	22,620	22,620	4.31	5.85	4.31	4.83	1.00	1.00
2014	22,620	22,620	4.39	6.08	4.39	4.91	1.00	1.00
2015	22,620	22,620	4.55	6.65	4.55	4.98	1.00	1.00
2016	22,620	22,620	4.69	6.73	4.69	5.27	1.00	1.00
2017	22,620	22,620	4.77	6.40	4.77	6.18	1.00	1.00
2018	22,620	22,620	4.92	6.74	4.92	6.59	1.00	1.00
2019	22,620	22,620	5.06	7.11	5.06	5.84	1.00	1.00
2020	22,620	22,620	5.16	7.39	5.16	5.71	1.00	1.00
2021	22,620	22,620	5.26	7.85	5.26	5.71	1.00	1.00
2022	22,620	22,620	5.50	8.37	5.50	6.49	1.00	1.00
2023	22,620	22,620	5.57	8.06	5.57	7.93	1.00	1.00
2024	22,620	22,620	5.66	8.87	5.66	8.04	1.00	1.00
2025	22,620	22,620	5.76	9.76	5.76	8.15	1.00	1.00
2026	22,620	22,620	5.87	10.75	5.87	8.26	1.00	1.00
2027	22,620	22,620	5.97	11.83	5.97	8.37	1.00	1.00
2028	22,620	22,620	6.07	13.02	6.07	8.49	1.00	1.00
2029	22,620	22,620	6.18	14.33	6.18	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Business On Call

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	2,825	921	22	3,912	5,441	2,239
2011	3,125	962	38	6,713	9,351	1,486
2012	3,002	1,005	40	6,922	8,771	2,198
2013	2,884	1,050	41	7,084	8,627	2,433
2014	2,770	1,098	42	7,315	8,755	2,470
2015	2,659	1,149	42	7,501	8,676	2,676
2016	2,553	1,201	44	7,964	9,272	2,489
2017	2,449	1,253	44	7,964	10,527	1,182
2018	2,348	1,308	44	8,126	11,125	701
2019	2,248	1,366	46	8,427	9,875	2,212
2020	2,148	1,428	47	8,612	9,499	2,735
2021	2,048	1,493	47	8,681	9,306	2,963
2022	1,948	1,561	50	9,329	10,700	2,187
2023	1,848	1,627	47	8,797	11,908	410
2024	1,748	1,698	47	8,890	11,802	580
2025	1,648	1,772	48	8,983	11,697	755
2026	1,548	1,853	48	9,078	11,592	935
2027	1,449	1,937	49	9,173	11,489	1,119
2028	1,349	2,025	50	9,270	11,386	1,308
2029	1,250	2,117	50	9,367	11,284	1,500

NOM	43,844	28,824	884	162,107	201,083	34,577
NPV	16,364	8,709	282	51,232	63,851	12,736

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07

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_RBQ
PROGRAM NAME : Business On Call

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0
2006	85	14	99	10	6	16	0	0
2007	168	29	197	20	12	33	6	2
2008	249	45	294	30	19	50	2	1
2009	327	63	390	40	27	67	3	1
2010	404	82	486	49	35	84	3	1
2011	389	86	474	47	37	84	1	0
2012	374	89	463	45	38	84	4	1
2013	359	93	453	44	40	84	4	2
2014	345	98	443	42	42	84	4	2
2015	332	102	434	40	44	84	4	2
2016	318	107	425	39	46	85	4	2
2017	305	111	417	37	48	85	4	2
2018	292	116	408	35	50	85	4	2
2019	279	121	400	34	52	86	5	2
2020	266	127	392	32	54	87	5	2
2021	252	133	385	31	57	88	5	2
2022	239	139	378	29	60	89	6	2
2023	226	145	371	27	62	90	5	2
2024	213	151	364	26	65	91	6	2
2025	200	158	357	24	68	92	7	2
2026	187	165	351	23	71	93	7	2
2027	175	172	347	21	74	95	8	2
2028	163	180	344	20	77	97	9	2
2029	153	188	342	19	81	99	10	2
NOM.	6,300	2,713	9,013	766	1,165	1,931	120	39
NPV	2,676	885	3,561	325	380	705	40	14

* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

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TOTAL RESOURCE COST TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business On Call

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	138	0	0	138	0	0	0	0	0	(138)	(128)
2006	0	268	0	0	268	0	115	0	0	115	(153)	(259)
2007	0	393	0	0	393	0	229	4	0	233	(160)	(386)
2008	0	515	0	0	515	0	343	2	0	345	(171)	(512)
2009	0	635	0	0	635	0	457	2	0	459	(176)	(632)
2010	0	541	0	0	541	2,239	570	2	0	2,811	2,270	804
2011	0	451	0	0	451	1,486	558	1	0	2,046	1,595	1,739
2012	0	368	0	0	368	2,198	547	2	0	2,747	2,379	3,031
2013	0	292	0	0	292	2,433	537	2	0	2,972	2,680	4,379
2014	0	221	0	0	221	2,470	527	2	0	3,000	2,778	5,674
2015	0	219	0	0	219	2,676	518	3	0	3,197	2,978	6,961
2016	0	225	0	0	225	2,489	510	3	0	3,001	2,776	8,072
2017	0	232	0	0	232	1,182	501	3	0	1,686	1,454	8,611
2018	0	239	0	0	239	701	494	3	0	1,197	958	8,940
2019	0	247	0	0	247	2,212	486	3	0	2,701	2,454	9,721
2020	0	255	0	0	255	2,735	479	3	0	3,217	2,962	10,595
2021	0	263	0	0	263	2,963	473	3	0	3,439	3,176	11,463
2022	0	272	0	0	272	2,187	467	4	0	2,657	2,385	12,066
2023	0	282	0	0	282	410	460	3	0	874	592	12,205
2024	0	291	0	0	291	580	454	4	0	1,039	747	12,368
2025	0	301	0	0	301	755	449	5	0	1,209	907	12,550
2026	0	312	0	0	312	935	445	5	0	1,385	1,073	12,751
2027	0	323	0	0	323	1,119	442	6	0	1,567	1,244	12,966
2028	0	335	0	0	335	1,308	441	7	0	1,756	1,421	13,193
2029	0	347	0	0	347	1,500	441	8	0	1,950	1,603	13,431

NOM	0	7,965	0	0	7,965	34,577	10,944	80	0	45,601	37,635
NPV	0	3,597	0	0	3,597	12,736	4,266	26	0	17,028	13,431

Discount Rate: 7.93 %
 Benefit/Cost Ratio (Col(11) / Col(6)) : 4.73

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PARTICIPANT COSTS AND BENEFITS
 PROGRAM METHOD ~~SELECTED~~ REV_REQ
 PROGRAM NAME: Business On Call

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	88	0	88	0	0	0	0	88	82
2006	0	0	264	0	264	0	0	0	0	264	308
2007	3	0	440	0	443	0	0	0	0	443	661
2008	1	0	616	0	617	0	0	0	0	617	1,116
2009	2	0	792	0	794	0	0	0	0	794	1,657
2010	2	0	880	0	882	0	0	0	0	882	2,215
2011	1	0	880	0	881	0	0	0	0	881	2,732
2012	2	0	880	0	882	0	0	0	0	882	3,211
2013	2	0	880	0	882	0	0	0	0	882	3,655
2014	2	0	880	0	882	0	0	0	0	882	4,066
2015	2	0	880	0	882	0	0	0	0	882	4,447
2016	2	0	880	0	882	0	0	0	0	882	4,800
2017	2	0	880	0	882	0	0	0	0	882	5,127
2018	2	0	880	0	882	0	0	0	0	882	5,430
2019	2	0	880	0	882	0	0	0	0	882	5,711
2020	2	0	880	0	882	0	0	0	0	882	5,971
2021	2	0	880	0	882	0	0	0	0	882	6,212
2022	2	0	880	0	882	0	0	0	0	882	6,435
2023	2	0	880	0	882	0	0	0	0	882	6,642
2024	2	0	880	0	882	0	0	0	0	882	6,834
2025	2	0	880	0	882	0	0	0	0	882	7,012
2026	2	0	880	0	882	0	0	0	0	882	7,176
2027	2	0	880	0	882	0	0	0	0	882	7,329
2028	2	0	880	0	882	0	0	0	0	882	7,470
2029	2	0	880	0	882	0	0	0	0	882	7,601

NOM	49	0	19,798	0	19,847	0	0	0	0	19,847
NPV	19	0	7,582	0	7,601	0	0	0	0	7,601

In Service of Gen Unit:

Discount Rate :

2010
7.93 %

Benefit/Cost Ratio (Col(6) / Col(10))

Infinite

RATE IMPACT TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Business On Call

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	138	88	0	0	226	0	0	0	0	0	(226)	(209)
2006	0	268	264	0	0	532	0	115	0	0	115	(417)	(567)
2007	0	393	440	2	0	835	4	229	0	0	233	(602)	(1,046)
2008	0	515	616	1	0	1,132	2	343	0	0	345	(787)	(1,626)
2009	0	635	792	1	0	1,428	2	457	0	0	459	(969)	(2,288)
2010	0	541	880	1	0	1,423	2,241	570	0	0	2,811	1,388	(1,410)
2011	0	451	880	1	0	1,332	1,487	558	0	0	2,046	714	(991)
2012	0	368	880	1	0	1,250	2,200	547	0	0	2,747	1,497	(178)
2013	0	292	880	1	0	1,173	2,435	537	0	0	2,972	1,798	727
2014	0	221	880	2	0	1,103	2,473	527	0	0	3,000	1,897	1,611
2015	0	219	880	2	0	1,101	2,679	518	0	0	3,197	2,096	2,517
2016	0	225	880	2	0	1,107	2,492	510	0	0	3,001	1,894	3,275
2017	0	232	880	2	0	1,113	1,185	501	0	0	1,686	573	3,487
2018	0	239	880	2	0	1,120	703	494	0	0	1,197	76	3,513
2019	0	247	880	2	0	1,128	2,215	486	0	0	2,701	1,573	4,014
2020	0	255	880	2	0	1,136	2,738	479	0	0	3,217	2,081	4,628
2021	0	263	880	2	0	1,145	2,966	473	0	0	3,439	2,294	5,255
2022	0	272	880	2	0	1,154	2,191	467	0	0	2,657	1,504	5,635
2023	0	282	880	2	0	1,163	413	460	0	0	874	(290)	5,567
2024	0	291	880	2	0	1,173	584	454	0	0	1,039	(134)	5,538
2025	0	301	880	2	0	1,183	759	449	0	0	1,209	25	5,543
2026	0	312	880	2	0	1,194	940	445	0	0	1,385	191	5,579
2027	0	323	880	2	0	1,205	1,126	442	0	0	1,567	363	5,642
2028	0	335	880	2	0	1,216	1,315	441	0	0	1,756	539	5,728
2029	0	347	880	2	0	1,228	1,508	441	0	0	1,950	721	5,835

NOM	0	7,963	19,798	36	0	27,800	34,657	10,944	0	0	45,601	17,801
NPV	0	3,597	7,582	14	0	11,193	12,762	4,266	0	0	17,028	5,835

Discount Rate

Benefit/Cost Ratio (Col(12) / Col(7)) :

7.93 %
 1.32

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COMMERCIAL/INDUSTRIAL DEMAND REDUCTION

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Demand Reduction

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.00 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.35 kW
(3) kW LINE LOSS PERCENTAGE	9.53 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	24.22 kWh *****
(5) kWh LINE LOSS PERCENTAGE	7.43 %
(6) GROUP LINE LOSS MULTIPLIER	1.00
(7) CUSTOMER kWh INCREASE AT METER	8.97 kWh *****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.65516
(5) K FACTOR FOR T & D	1.65761

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	*** \$/CUST
(3) UTILITY COST ESCALATION RATE	*** %**
(4) CUSTOMER EQUIPMENT COST	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	*** %**
(6) CUSTOMER O & M COST	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE	*** %**
(8) INCREASED SUPPLY COSTS	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES	*** %**
(10) UTILITY DISCOUNT RATE	7.93 %
(11) UTILITY AFUDC RATE	7.84 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2004
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2010
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2007-2010
(4) BASE YEAR AVOIDED GENERATING COST	485.29 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/kW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	27.78 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.24 %**
(10) TRANSMISSION FIXED O & M COST	0.00 \$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/kW
(12) T&D FIXED O&M ESCALATION RATE	4.24 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.88 %**
(15) GENERATOR CAPACITY FACTOR	47% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.70 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	3.14 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE	*** %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

** VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)

*** PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

***** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK.

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* INPUT DATA -- PART 1 CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Demand Reduction

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES \$(000)	(2) UTILITY INCENTIVES \$(000)	(3) OTHER UTILITY COSTS \$(000)	(4) TOTAL UTILITY PROGRAM COSTS \$(000)	(5) ENERGY CHARGE REVENUE LOSSES \$(000)	(6) DEMAND CHARGE REVENUE LOSSES \$(000)	(7) PARTICIPANT EQUIPMENT COSTS \$(000)	(8) PARTICIPANT O&M COSTS \$(000)	(9) OTHER PARTICIPANT COSTS \$(000)	(10) TOTAL PARTICIPANT COSTS \$(0)
2004	0	0	0	0	0	0	0	0	0	
2005	22	180	0	203	1	0	0	0	0	
2006	46	541	0	587	1	0	0	0	0	
2007	70	902	0	973	21	0	0	0	0	
2008	96	1,263	0	1,359	10	0	0	0	0	
2009	123	1,624	0	1,747	13	0	0	0	0	
2010	126	1,805	0	1,931	15	0	0	0	0	
2011	130	1,805	0	1,935	4	0	0	0	0	
2012	134	1,805	0	1,939	15	0	0	0	0	
2013	138	1,805	0	1,943	16	0	0	0	0	
2014	142	1,805	0	1,947	16	0	0	0	0	
2015	146	1,805	0	1,951	16	0	0	0	0	
2016	150	1,805	0	1,955	16	0	0	0	0	
2017	154	1,805	0	1,959	16	0	0	0	0	
2018	159	1,805	0	1,964	17	0	0	0	0	
2019	164	1,805	0	1,969	17	0	0	0	0	
2020	169	1,805	0	1,974	17	0	0	0	0	
2021	175	1,805	0	1,980	17	0	0	0	0	
2022	181	1,805	0	1,986	17	0	0	0	0	
2023	187	1,805	0	1,992	17	0	0	0	0	
2024	194	1,805	0	1,999	17	0	0	0	0	
2025	201	1,805	0	2,006	17	0	0	0	0	
2026	208	1,805	0	2,013	17	0	0	0	0	
2027	215	1,805	0	2,020	17	0	0	0	0	
2028	223	1,805	0	2,028	17	0	0	0	0	
2029	231	1,805	0	2,036	17	0	0	0	0	
<hr/>										
NOM	3,784	40,610	0	44,394	362	0	0	0	0	0
NPV	1,338	15,553	0	16,891	136	0	0	0	0	0

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK
 ** NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RIM TESTS

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_RBQ
PROGRAM NAME: Commercial/Industrial Demand Reduction

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
BEG-YEAR	RATE BASE	DEBT	PREFERRED STOCK	COMMON EQUITY	INCOME TAXES	PROPERTY TAX	PROPERTY INSURANCE	DEPREC.	DEFERRED TAXES	TOTAL FIXED CHARGES	PRESENT WORTH FIXED CHARGES	CUMULATIVE PW FIXED CHARGES	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	27,335	836	0	1,654	1,094	0	0	1,068	1	4,652	4,652	4,652	26,689
2011	26,267	804	0	1,589	703	525	107	1,068	351	5,146	4,768	9,420	27,490
2012	24,849	760	0	1,503	704	503	110	1,068	296	4,944	4,244	13,664	28,315
2013	23,485	719	0	1,421	702	481	114	1,068	246	4,750	3,778	17,442	29,164
2014	22,172	678	0	1,341	699	459	117	1,068	199	4,562	3,362	20,804	30,039
2015	20,906	640	0	1,265	694	437	121	1,068	155	4,380	2,991	23,794	30,940
2016	19,683	602	0	1,191	688	415	124	1,068	115	4,204	2,659	26,454	31,869
2017	18,500	566	0	1,119	680	394	128	1,068	78	4,033	2,364	28,818	32,825
2018	17,354	531	0	1,050	643	372	132	1,068	72	3,867	2,100	30,918	33,809
2019	16,214	496	0	981	599	350	136	1,068	72	3,702	1,863	32,780	34,824
2020	15,074	461	0	912	556	328	140	1,068	72	3,537	1,649	34,429	35,868
2021	13,934	426	0	843	513	306	144	1,068	72	3,372	1,457	35,886	36,944
2022	12,794	391	0	774	469	284	148	1,068	72	3,207	1,284	37,170	38,053
2023	11,654	357	0	705	426	262	153	1,068	72	3,043	1,128	38,298	39,194
2024	10,514	322	0	636	383	241	157	1,068	72	2,878	989	39,287	40,370
2025	9,374	287	0	567	339	219	162	1,068	72	2,714	864	40,151	41,581
2026	8,234	252	0	498	296	197	167	1,068	72	2,550	752	40,903	42,829
2027	7,094	217	0	429	253	175	172	1,068	72	2,386	652	41,555	44,114
2028	5,954	182	0	360	209	153	177	1,068	72	2,222	563	42,118	45,437
2029	4,814	147	0	291	166	131	183	1,068	72	2,058	483	42,600	46,800
2030	3,674	112	0	222	123	109	188	1,068	(153)	1,895	412	43,012	48,204
2031	2,534	77	0	153	79	87	194	1,068	(378)	1,760	355	43,367	49,650
2032	1,394	42	0	84	40	66	199	1,068	(378)	1,655	309	43,676	51,140
2033	274	7	0	15	11	44	205	1,068	(378)	1,550	268	43,944	52,674
2034	60	1	0	3	2	22	212	1,068	(378)	1,446	232	44,175	54,254

IN SERVICE COST (\$000)	26,689
IN SERVICE YEAR	2010
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.9%
PROPERTY TAX	2.05%
PROPERTY INSURANCE	0.39%

SOURCE	WRIGHT	COST	%
DEBT	45%	6.80	%
P/S	0%	0.00	%
C/S	55%	11.00	%

K-FACTOR = CPWFC / IN-SVC COST = 1.65516

Feb
2010

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Demand Reduct

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2010	3.75%	981	981	1,068	1,068	979	979	1	2,213	0	0	0	1	(645)
2011	7.22%	1,888	2,868	1,068	2,135	979	1,958	351	2,213	0	0	0	351	(294)
2012	6.68%	1,746	4,614	1,068	3,203	979	2,937	296	2,213	0	0	0	296	2
2013	6.18%	1,616	6,230	1,068	4,270	979	3,916	246	2,213	0	0	0	246	247
2014	5.71%	1,494	7,724	1,068	5,338	979	4,895	199	2,213	0	0	0	199	446
2015	5.29%	1,382	9,106	1,068	6,405	979	5,874	155	2,213	0	0	0	155	601
2016	4.89%	1,278	10,384	1,068	7,473	979	6,853	115	2,213	0	0	0	115	717
2017	4.52%	1,182	11,567	1,068	8,541	979	7,832	78	2,213	0	0	0	78	795
2018	4.46%	1,167	12,734	1,068	9,608	979	8,811	72	2,213	0	0	0	72	868
2019	4.46%	1,167	13,900	1,068	10,676	979	9,790	72	2,213	0	0	0	72	940
2020	4.46%	1,167	15,067	1,068	11,743	979	10,769	72	2,213	0	0	0	72	1,012
2021	4.46%	1,167	16,233	1,068	12,811	979	11,748	72	2,213	0	0	0	72	1,085
2022	4.46%	1,167	17,400	1,068	13,878	979	12,727	72	2,213	0	0	0	72	1,157
2023	4.46%	1,167	18,567	1,068	14,946	979	13,707	72	2,213	0	0	0	72	1,229
2024	4.46%	1,167	19,733	1,068	16,014	979	14,686	72	2,213	0	0	0	72	1,302
2025	4.46%	1,167	20,900	1,068	17,081	979	15,665	72	2,213	0	0	0	72	1,374
2026	4.46%	1,167	22,067	1,068	18,149	979	16,644	72	2,213	0	0	0	72	1,447
2027	4.46%	1,167	23,233	1,068	19,216	979	17,623	72	2,213	0	0	0	72	1,519
2028	4.46%	1,167	24,400	1,068	20,284	979	18,602	72	2,213	0	0	0	72	1,591
2029	4.46%	1,167	25,566	1,068	21,352	979	19,581	72	2,213	0	0	0	72	1,664
2030	2.23%	583	26,150	1,068	22,419	979	20,560	(153)	2,213	0	0	0	(153)	1,511
2031	0.00%	0	26,150	1,068	23,487	979	21,539	(378)	2,213	0	0	0	(378)	1,133
2032	0.00%	0	26,150	1,068	24,554	979	22,518	(378)	2,213	0	0	0	(378)	756
2033	0.00%	0	26,150	1,068	25,622	979	23,497	(378)	2,213	0	0	0	(378)	378
2034	0.00%	0	26,150	1,068	26,689	979	24,476	(378)	2,213	0	0	0	(378)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(645)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	2,213
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Commercial/Industrial Demand Reduction

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	END OF YEAR NET PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2010	3.75%	981	1	26,689	1,068	(645)	27,335	26,267	26,801
2011	7.22%	1,888	351	25,622	2,135	(294)	26,267	24,849	25,558
2012	6.68%	1,746	296	24,554	3,203	2	24,849	23,485	24,167
2013	6.18%	1,616	246	23,487	4,270	247	23,485	22,172	22,828
2014	5.71%	1,494	199	22,419	5,338	446	22,172	20,906	21,539
2015	5.29%	1,382	155	21,352	6,405	601	20,906	19,683	20,294
2016	4.89%	1,278	115	20,284	7,473	717	19,683	18,500	19,091
2017	4.52%	1,182	78	19,216	8,541	795	18,500	17,354	17,927
2018	4.46%	1,167	72	18,149	9,608	868	17,354	16,214	16,784
2019	4.46%	1,167	72	17,081	10,676	940	16,214	15,074	15,644
2020	4.46%	1,167	72	16,014	11,743	1,012	15,074	13,934	14,504
2021	4.46%	1,167	72	14,946	12,811	1,085	13,934	12,794	13,364
2022	4.46%	1,167	72	13,878	13,878	1,157	12,794	11,654	12,224
2023	4.46%	1,167	72	12,811	14,946	1,229	11,654	10,514	11,084
2024	4.46%	1,167	72	11,743	16,014	1,302	10,514	9,374	9,944
2025	4.46%	1,167	72	10,676	17,081	1,374	9,374	8,234	8,804
2026	4.46%	1,167	72	9,608	18,149	1,447	8,234	7,094	7,664
2027	4.46%	1,167	72	8,541	19,216	1,519	7,094	5,954	6,524
2028	4.46%	1,167	72	7,473	20,284	1,591	5,954	4,814	5,384
2029	4.46%	1,167	72	6,405	21,352	1,664	4,814	3,674	4,244
2030	2.23%	583	(153)	5,338	22,419	1,511	3,674	2,759	3,217
2031	0.00%	0	(378)	4,270	23,487	1,133	2,759	2,069	2,414
2032	0.00%	0	(378)	3,203	24,554	756	2,069	1,380	1,724
2033	0.00%	0	(378)	2,135	25,622	378	1,380	690	1,035
2034	0.00%	0	(378)	1,068	26,689	0	690	0	345

* Column not specified in workbook

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(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2004	-6	0.00%	1.000	0.00%	0.00	0.00
2005	-5	3.00%	1.030	0.00%	0.00	0.00
2006	-4	3.00%	1.061	16.00%	82.38	41.19
2007	-3	3.00%	1.093	30.00%	159.09	161.92
2008	-2	3.00%	1.126	32.00%	174.78	328.85
2009	-1	3.00%	1.159	22.00%	123.77	478.13

100.00% 540.01

(8) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2004	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	-4	41.19	1.26	1.26	3.23	2.80	2.80	(0.59)	(0.59)	85.60	85.60
2007	-3	165.15	5.07	6.33	12.99	11.20	14.00	(2.36)	(2.96)	172.08	257.69
2008	-2	345.08	10.65	16.98	27.29	23.31	37.32	(4.89)	(7.84)	202.07	459.75
2009	-1	521.64	16.20	33.18	41.51	35.05	72.37	(7.27)	(15.11)	165.28	625.03

85.02

72.37

(15.11)

625.03

IN SERVICE YEAR	2010
PLANT COSTS	485.29
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	23,059	23,059	23,059
EQUITY AFUDC	2,213		
DEBT AFUDC	1,417	1,417	
CPI			3,090
TOTAL	26,689	24,476	26,149

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_REQ
 PROGRAM NAME: Commercial/Industrial Demand Reduction

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	(5) AVOIDED MARGINAL FUEL COST (C/kWh)	(6)* INCREASED MARGINAL FUEL COST (C/kWh)	(7) REPLACEMENT FUEL COST (C/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
2004	0	0	4.22	5.85	4.22	0.00	1.00	3.00
2005	6,333	6,333	3.88	5.30	3.88	0.00	1.00	1.00
2006	12,666	12,666	3.77	5.43	3.77	0.00	1.00	0.27
2007	18,999	18,999	3.71	5.66	3.71	0.00	1.00	3.00
2008	25,332	25,332	3.66	5.26	3.66	0.00	1.00	1.00
2009	31,665	31,665	3.79	5.43	3.79	0.00	1.00	1.00
2010	31,665	31,665	3.90	5.19	3.90	5.14	1.00	1.00
2011	31,665	31,665	4.17	5.70	4.17	5.31	1.00	0.27
2012	31,665	31,665	4.18	5.40	4.18	4.92	1.00	1.00
2013	31,665	31,665	4.31	5.85	4.31	4.83	1.00	1.00
2014	31,665	31,665	4.39	6.08	4.39	4.91	1.00	1.00
2015	31,665	31,665	4.55	6.65	4.55	4.98	1.00	1.00
2016	31,665	31,665	4.69	6.73	4.69	5.27	1.00	1.00
2017	31,665	31,665	4.77	6.40	4.77	6.18	1.00	1.00
2018	31,665	31,665	4.92	6.74	4.92	6.59	1.00	1.00
2019	31,665	31,665	5.06	7.11	5.06	5.84	1.00	1.00
2020	31,665	31,665	5.16	7.39	5.16	5.71	1.00	1.00
2021	31,665	31,665	5.26	7.85	5.26	5.71	1.00	1.00
2022	31,665	31,665	5.50	8.37	5.50	6.49	1.00	1.00
2023	31,665	31,665	5.57	8.06	5.57	7.93	1.00	1.00
2024	31,665	31,665	5.66	8.87	5.66	8.04	1.00	1.00
2025	31,665	31,665	5.76	9.76	5.76	8.15	1.00	1.00
2026	31,665	31,665	5.87	10.75	5.87	8.26	1.00	1.00
2027	31,665	31,665	5.97	11.83	5.97	8.37	1.00	1.00
2028	31,665	31,665	6.07	13.02	6.07	8.49	1.00	1.00
2029	31,665	31,665	6.18	14.33	6.18	8.60	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Demand Reduction

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	4,652	1,516	36	6,443	8,961	3,687
2011	5,146	1,584	62	11,056	15,401	2,448
2012	4,944	1,655	65	11,400	14,444	3,619
2013	4,750	1,730	67	11,666	14,207	4,006
2014	4,562	1,809	69	12,048	14,419	4,068
2015	4,380	1,893	69	12,353	14,288	4,407
2016	4,204	1,978	72	13,115	15,270	4,099
2017	4,033	2,064	72	13,115	17,337	1,947
2018	3,867	2,154	73	13,382	18,322	1,154
2019	3,702	2,250	76	13,878	16,263	3,643
2020	3,537	2,351	77	14,183	15,644	4,503
2021	3,372	2,459	78	14,297	15,327	4,879
2022	3,207	2,570	82	15,365	17,622	3,602
2023	3,043	2,680	77	14,488	19,612	675
2024	2,878	2,796	78	14,640	19,437	956
2025	2,714	2,919	79	14,794	19,263	1,243
2026	2,550	3,051	80	14,950	19,091	1,540
2027	2,386	3,190	81	15,107	18,921	1,843
2028	2,222	3,335	82	15,266	18,752	2,154
2029	2,058	3,487	83	15,427	18,584	2,471

NOM	72,207	47,471	1,455	266,974	331,163	56,944
NPV	26,950	14,344	465	84,374	105,157	20,975

AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED - REV. REQ
 PROGRAM NAME : Commercial/Industrial Demand Reduction

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)
YEAR	AVOIDED CAP COST TRANSMISSION \$ (000)	AVOIDED TRANSMISSION O&M COST \$ (000)	AVOIDED TRANSMISSION COST \$ (000)	AVOIDED DISTRIBUTION CAP COST \$ (000)	AVOIDED DISTRIBUTION O&M COST \$ (000)	AVOIDED DISTRIBUTION COST \$ (000)	PROGRAM FUEL SAVINGS \$ (000)	PROGRAM PAYBACK \$ (000)
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	4	1
2006	0	0	0	0	0	0	4	17
2007	0	0	0	0	0	0	73	8
2008	0	0	0	0	0	0	31	8
2009	0	0	0	0	0	0	41	10
2010	0	0	0	0	0	0	43	12
2011	0	0	0	0	0	0	13	3
2012	0	0	0	0	0	0	45	13
2013	0	0	0	0	0	0	49	13
2014	0	0	0	0	0	0	51	13
2015	0	0	0	0	0	0	57	14
2016	0	0	0	0	0	0	57	14
2017	0	0	0	0	0	0	53	15
2018	0	0	0	0	0	0	57	15
2019	0	0	0	0	0	0	60	16
2020	0	0	0	0	0	0	63	16
2021	0	0	0	0	0	0	67	16
2022	0	0	0	0	0	0	72	17
2023	0	0	0	0	0	0	69	17
2024	0	0	0	0	0	0	77	17
2025	0	0	0	0	0	0	86	18
2026	0	0	0	0	0	0	96	18
2027	0	0	0	0	0	0	107	18
2028	0	0	0	0	0	0	119	19
2029	0	0	0	0	0	0	132	19
NOM.	0	0	0	0	0	0	1,524	341
NPV	0	0	0	0	0	0	510	122

• THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Demand Reduction

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	22	0	0	22	0	0	3	0	3	(19)	(18)
2006	0	46	0	0	46	0	0	3	0	3	(43)	(55)
2007	0	70	0	0	70	0	0	56	0	56	(14)	(66)
2008	0	96	0	0	96	0	0	23	0	23	(72)	(119)
2009	0	123	0	0	123	0	0	31	0	31	(92)	(182)
2010	0	126	0	0	126	3,687	0	31	0	3,718	3,592	2,090
2011	0	130	0	0	130	2,448	0	9	0	2,458	2,328	3,455
2012	0	134	0	0	134	3,619	0	32	0	3,651	3,517	5,365
2013	0	138	0	0	138	4,006	0	36	0	4,042	3,904	7,329
2014	0	142	0	0	142	4,068	0	38	0	4,106	3,964	9,178
2015	0	146	0	0	146	4,407	0	43	0	4,450	4,304	11,037
2016	0	150	0	0	150	4,099	0	43	0	4,141	3,991	12,634
2017	0	154	0	0	154	1,947	0	39	0	1,986	1,831	13,313
2018	0	159	0	0	159	1,154	0	41	0	1,195	1,036	13,669
2019	0	164	0	0	164	3,643	0	45	0	3,687	3,523	14,791
2020	0	169	0	0	169	4,503	0	47	0	4,550	4,381	16,083
2021	0	175	0	0	175	4,879	0	51	0	4,930	4,755	17,382
2022	0	181	0	0	181	3,602	0	55	0	3,657	3,476	18,262
2023	0	187	0	0	187	675	0	51	0	727	539	18,389
2024	0	194	0	0	194	956	0	59	0	1,015	821	18,567
2025	0	201	0	0	201	1,243	0	68	0	1,311	1,110	18,791
2026	0	208	0	0	208	1,540	0	78	0	1,617	1,410	19,054
2027	0	215	0	0	215	1,843	0	88	0	1,932	1,716	19,351
2028	0	223	0	0	223	2,154	0	100	0	2,254	2,031	19,676
2029	0	231	0	0	231	2,471	0	113	0	2,584	2,353	20,025

NOM	0	3,784	0	0	3,784	56,944	0	1,183	0	58,128	54,344
NPV	0	1,338	0	0	1,338	20,975	0	388	0	21,363	20,025

Discount Rate: 7.93 %
Benefit/Cost Ratio (Col(11) / Col(6)) : 15.97

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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Demand Reduction

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O&M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0
2005	2	0	180	0	182	0	0	0	0	182	169
2006	2	0	541	0	543	0	0	0	0	543	635
2007	28	0	902	0	930	0	0	0	0	930	1,375
2008	13	0	1,263	0	1,277	0	0	0	0	1,277	2,316
2009	17	0	1,624	0	1,642	0	0	0	0	1,642	3,437
2010	20	0	1,805	0	1,825	0	0	0	0	1,825	4,591
2011	5	0	1,805	0	1,810	0	0	0	0	1,810	5,652
2012	21	0	1,805	0	1,825	0	0	0	0	1,825	6,643
2013	21	0	1,805	0	1,826	0	0	0	0	1,826	7,562
2014	21	0	1,805	0	1,826	0	0	0	0	1,826	8,413
2015	22	0	1,805	0	1,826	0	0	0	0	1,826	9,202
2016	22	0	1,805	0	1,827	0	0	0	0	1,827	9,933
2017	22	0	1,805	0	1,827	0	0	0	0	1,827	10,611
2018	23	0	1,805	0	1,828	0	0	0	0	1,828	11,239
2019	23	0	1,805	0	1,828	0	0	0	0	1,828	11,821
2020	23	0	1,805	0	1,828	0	0	0	0	1,828	12,360
2021	23	0	1,805	0	1,828	0	0	0	0	1,828	12,859
2022	23	0	1,805	0	1,828	0	0	0	0	1,828	13,322
2023	23	0	1,805	0	1,828	0	0	0	0	1,828	13,751
2024	23	0	1,805	0	1,828	0	0	0	0	1,828	14,148
2025	23	0	1,805	0	1,828	0	0	0	0	1,828	14,516
2026	23	0	1,805	0	1,828	0	0	0	0	1,828	14,857
2027	23	0	1,805	0	1,828	0	0	0	0	1,828	15,173
2028	23	0	1,805	0	1,828	0	0	0	0	1,828	15,466
2029	23	0	1,805	0	1,828	0	0	0	0	1,828	15,737

NOM	489	0	40,610	0	41,100	0	0	0	0	41,100
NPV	184	0	15,553	0	15,737	0	0	0	0	15,737

In Service of Gen Unit: 2010
 Discount Rate : 7.93 %
 Benefit/Cost Ratio (Col(6) / Col(10)) Infinite

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RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Commercial/Industrial Demand Reduction

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T&D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	22	180	1	0	204	3	0	0	0	3	(201)	(186)
2006	0	46	541	1	0	588	3	0	0	0	3	(585)	(689)
2007	0	70	902	21	0	993	56	0	0	0	56	(937)	(1,434)
2008	0	96	1,263	10	0	1,369	23	0	0	0	23	(1,346)	(2,426)
2009	0	123	1,624	13	0	1,760	31	0	0	0	31	(1,729)	(3,606)
2010	0	126	1,805	15	0	1,946	3,718	0	0	0	3,718	1,772	(2,485)
2011	0	130	1,805	4	0	1,939	2,458	0	0	0	2,458	519	(2,181)
2012	0	134	1,805	15	0	1,954	3,651	0	0	0	3,651	1,697	(1,259)
2013	0	138	1,805	16	0	1,958	4,042	0	0	0	4,042	2,084	(211)
2014	0	142	1,805	16	0	1,962	4,106	0	0	0	4,106	2,144	789
2015	0	146	1,805	16	0	1,967	4,450	0	0	0	4,450	2,483	1,861
2016	0	150	1,805	16	0	1,971	4,141	0	0	0	4,141	2,170	2,730
2017	0	154	1,805	16	0	1,976	1,986	0	0	0	1,986	10	2,734
2018	0	159	1,805	17	0	1,981	1,195	0	0	0	1,195	(785)	2,464
2019	0	164	1,805	17	0	1,986	3,687	0	0	0	3,687	1,701	3,005
2020	0	169	1,805	17	0	1,991	4,550	0	0	0	4,550	2,559	3,760
2021	0	175	1,805	17	0	1,997	4,930	0	0	0	4,930	2,933	4,562
2022	0	181	1,805	17	0	2,003	3,657	0	0	0	3,657	1,654	4,980
2023	0	187	1,805	17	0	2,009	727	0	0	0	727	(1,282)	4,680
2024	0	194	1,805	17	0	2,016	1,015	0	0	0	1,015	(1,000)	4,462
2025	0	201	1,805	17	0	2,023	1,311	0	0	0	1,311	(712)	4,319
2026	0	208	1,805	17	0	2,030	1,617	0	0	0	1,617	(412)	4,242
2027	0	215	1,805	17	0	2,037	1,932	0	0	0	1,932	(105)	4,224
2028	0	223	1,805	17	0	2,045	2,254	0	0	0	2,254	209	4,257
2029	0	231	1,805	17	0	2,053	2,584	0	0	0	2,584	531	4,336

NOM.	0	3,784	40,610	362	0	44,756	58,128	0	0	0	58,128	13,372
NPV	0	1,338	15,553	136	0	17,027	21,363	0	0	0	21,363	4,336

Discount Rate 7.93 %
Benefit/Cost Ratio (Col(12) / Col(7)) : 1.23

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