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December 29, 1999

Blanca S. Bayó, Director  
Records and Reporting  
Florida Public Service Commission  
4075 Esplanade Way, Room 110  
Tallahassee, Florida 32399-0850

Charles A. Guyton  
850.222.3423

**ORIGINAL**  
**By Hand Delivery**

**Re: Approval of Demand Side Management Plan  
of Florida Power and Light Company  
Docket No. 991788-EG**

Dear Ms. Bayó:

Enclosed for filing on behalf of Florida Power & Light Company ("FPL") in Docket No. 991788-EG are the original and fifteen (15) copies of the Petition For Approval Of Modifications To Florida Power & Light Company's Demand Side Management Plan, the Demand Side Management Plan of Florida Power & Light Company Plan Document, and the Demand Side Management Plan of Florida Power & Light Company Plan Appendix A.

Attached as Appendices A and B to FPL's petition are the new and revised rate schedules necessary to implement the modifications to FPL's DSM Plan. These rate schedules are for the General Service Load Management Program, the Commercial Industrial Demand Reduction Rider, and the Commercial Industrial Demand Reduction Rider Customer Request for Approval and the Commercial Industrial Demand Reduction Rider Agreement, and the following tariff sheets are being filed:

- Thirty-Fourth Revised Sheet No. 8.010
- First Revised Sheet No. 8.109
- Original Sheet No. 8.680
- Original Sheet No. 8.681
- Original Sheet No. 8.682
- Original Sheet No. 8.683
- Original Sheet No. 8.684
- Original Sheet No. 8.685
- Thirty-Third Revised Sheet No. 9.010
- Original Sheet No. 9.494
- Original Sheet No. 9.495
- Original Sheet No. 9.496
- Original Sheet No. 9.497

Petition 15834-99  
Plan 15835-99  
Plan App A 15836-99  
Pet App A 15837-99  
Pet App B 15838-99

- FA \_\_\_\_\_
- PP \_\_\_\_\_
- AF \_\_\_\_\_
- MU \_\_\_\_\_
- TR \_\_\_\_\_
- AG \_\_\_\_\_
- EG \_\_\_\_\_
- AS \_\_\_\_\_
- PC \_\_\_\_\_
- FR \_\_\_\_\_
- EC \_\_\_\_\_
- VAW \_\_\_\_\_
- JTH \_\_\_\_\_

RECEIVED & FILED

FPSC-BUREAU OF RECORDS

22 copies of 15837 + 15838 to FAG

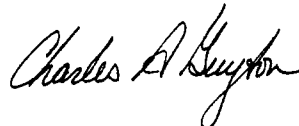
Blanca S. Bayó, Director  
Records and Reporting  
Florida Public Service Commission  
December 29, 1999 - Page Two

The changes to the General Service Load Management Program rate schedule will not change the typical bill, and the Commercial Industrial Demand Reduction Rider is a new rider. The estimated number of customers and the estimated gross decrease in annual revenues for these rates are shown in the Plan Document or on their respective cost-effectiveness analyses in the Plan Appendix A.

A description of the service offered under the rate schedules and the justification and supporting documentation for the changes to the General Service Load Management Program are in the Plan Document. The tariff sheets in final form are in Appendix A to the petition. The tariff sheets in legislative format are in Appendix B to the petition.

If you or your Staff have any questions regarding this transmittal, please contact me.

Very truly yours,



Charles A. Guyton

CAG  
encs.  
cc: All Parties of Record

TAL\_1998/33029-1



**FPL**

ORIGINAL

**BEFORE THE FLORIDA PUBLIC SERVICE  
COMMISSION**

**DOCKET NO. 991788-EG**

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

**PLAN APPENDIX A**

**DECEMBER 29, 1999**

DOCUMENT NUMBER-DATE  
15836 DEC 29 99  
FPSC-RECORDS/REPORTING

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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 shown 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". This convention was used because of the various ways in which the Achievable Potential values for C/I measures were developed. 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 programs include multiple measures with widely divergent savings per installation. Given these disparate ways of computing potential and the divergent measures comprising some programs, FPL felt that developing an average per participant measure of savings for each program was not meaningful.

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 kWh savings were developed by computing the ratio of total Winter kW or 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 divided into two groups: (1) 2001 through 2004 sign-ups, and (2) 2005 through 2007 sign-ups. The 2000 year sign-ups were not evaluated for cost-effectiveness due to the fact that there was insufficient time to obtain program approval for any changes (if any were needed) prior to 2000. Consequently, the programs and number of sign-ups projected for the year 2000 were "carryovers" from FPL's previous DSM Goals. The year 2008 and 2009 sign-ups were also not directly evaluated for cost-effectiveness. With the understanding that Goals for this time period will need to be re-evaluated by 2004, it was expedient to assume that continuing escalated costs for combined cycle units would allow programs that were cost-effective versus a 2008 combined cycle unit to remain cost-effective against similar but escalated cost combined cycle units after 2007. Both of these sign-up groups were then analyzed versus avoided unit capacity. The 2001 through 2004

program participants were compared against a 2005 combined cycle unit. The 2005 through 2007 program participants were compared against a 2008 combined cycle unit.

These avoided generating units were derived from the Supply Only Resource Plan identified during the DSM Goals Docket work.

Step 4: The cost-effectiveness of each program was then determined by two cost-effectiveness analyses based on the Commission's approved cost-effectiveness methodology. One analysis was performed for each of the two sign-up groups (2001 through 2004 sign-ups and 2005 through 2007 sign-ups), with each analysis using the appropriate avoided unit capacity, a 2005 and a 2008 combined cycle. In these analyses, FPL's programs passed both the RIM and Participant Tests in each case.

The avoided capacity cost assumptions used for the 2005 and 2008 combined cycle units 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.

Step 5: The costs and benefits of each of the two sign-up groups for each program were then combined in a spreadsheet to compute the overall benefit-to-cost ratios for the program. These spreadsheets are included for each program.

## SUMMARY OF DEMAND-SIDE MANAGEMENT PROGRAMS INCLUDED IN PROPOSED PLAN

	DSM Program	Rate Impact Measure			Participant Test			Total Resource Cost			Program Status *
		NPV Total Costs	NPV Total Benefits	B/C Ratio	NPV Total Costs	NPV Total Benefits	B/C Ratio	NPV Total Costs	NPV Total Benefits	B/C Ratio	
R E S I D E N T I A L	Building Envelope	\$ 49,401	\$ 51,383	1.04	\$ 21,982	\$ 71,246	3.24	\$ 23,605	\$ 51,383	2.18	Modified
	Duct System Testing & Repair	\$ 62,908	\$ 65,755	1.05	\$ 30,248	\$ 86,369	2.86	\$ 36,339	\$ 65,755	1.81	Modified
	Air Conditioning	\$247,109	\$262,973	1.06	\$137,228	\$374,537	2.73	\$143,536	\$262,973	1.83	Modified
	Load Management	\$ 31,862	\$ 40,043	1.26	\$ -	\$ 20,788	Infinite	\$ 11,563	\$ 40,043	3.46	Existing
	New Construction (BuildSmart)	\$ 24,710	\$ 29,895	1.21	\$ 23,954	\$ 28,736	1.20	\$ 30,331	\$ 29,895	0.99	Modified
	Conservation Service	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Modified
C O M M E R C I A L	Heating, Ventilating & Air Conditioning	\$ 65,405	\$ 70,716	1.08	\$ 39,387	\$ 64,223	1.63	\$ 46,268	\$ 70,716	1.53	Modified
	Efficient Lighting	\$ 48,187	\$ 51,005	1.06	\$ 24,354	\$ 57,022	2.34	\$ 25,805	\$ 51,005	1.98	Modified
	Building Envelope	\$ 24,759	\$ 26,625	1.08	\$ 19,767	\$ 26,033	1.32	\$ 21,619	\$ 26,625	1.23	Modified
	Business Custom Incentive	\$ 343	\$ 668	1.95	\$ 180	\$ 301	1.67	\$ 223	\$ 668	3.00	Existing
	Business On Call	\$ 12,925	\$ 16,551	1.28	\$ -	\$ 7,167	Infinite	\$ 6,080	\$ 16,551	2.72	Modified
	Commercial/Industrial Demand Reduction	\$ 15,047	\$ 16,931	1.13	\$ -	\$ 12,720	Infinite	\$ 2,327	\$ 16,931	7.28	New
	Business Energy Evaluation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Existing
	C/I Load Control **	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Existing
	Off Peak Battery Charging ***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Discontinued
Cogeneration & Small Power Production	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Existing	

\* New, Existing, Modified or Discontinued - Compared to existing Commission-approved DSM Programs

\*\* Beyond 2000 no new customers will be added to the Commercial/Industrial Load Control program, but the program will continue in effect for then existing participants.

\*\*\* Program being eliminated. Measures to included in Business Custom Incentive Program

000005



**RESIDENTIAL PROGRAMS COST EFFECTIVENESS RUNS**

000006

000007

**RESIDENTIAL BUILDING ENVELOPE**

NPV END 1998 (\$000)

<u>YEARS</u>	<u>RATE IMPACT TEST</u>			<u>PARTICIPANT TEST</u>			<u>TOTAL RESOURCE COST TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 51,383	\$ 49,401	1.04	\$ 71,246	\$ 21,982	3.24	\$ 51,383	\$ 23,605	2.18

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential Building Envelope: 2001 - 2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.36 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	0.47 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	855.5 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.81524
(5) K FACTOR FOR T & D.....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.17 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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

800000

\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential Building Envelope: 2001 - 2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	476	3,443	0	3,918	544	0	6,441	0	6,441	
2002	435	3,071	0	3,507	1,573	0	5,895	0	5,895	
2003	399	2,741	0	3,140	2,527	0	5,404	0	5,404	
2004	366	2,448	0	2,813	3,368	0	4,951	0	4,951	
2005	0	0	0	0	3,800	0	0	0	0	
2006	0	0	0	0	3,794	0	0	0	0	
2007	0	0	0	0	3,813	0	0	0	0	
2008	0	0	0	0	3,829	0	0	0	0	
2009	0	0	0	0	3,828	0	0	0	0	
2010	0	0	0	0	3,915	0	0	0	0	
2011	0	0	0	0	3,913	0	0	0	0	
2012	0	0	0	0	3,946	0	0	0	0	
2013	0	0	0	0	3,969	0	0	0	0	
2014	0	0	0	0	4,016	0	0	0	0	
2015	0	0	0	0	4,039	0	0	0	0	
2016	0	0	0	0	4,067	0	0	0	0	
2017	0	0	0	0	4,073	0	0	0	0	
2018	0	0	0	0	4,099	0	0	0	0	
2019	0	0	0	0	4,125	0	0	0	0	
2020	0	0	0	0	4,151	0	0	0	0	
2021	0	0	0	0	4,178	0	0	0	0	
2022	0	0	0	0	4,205	0	0	0	0	
2023	0	0	0	0	4,231	0	0	0	0	
2024	0	0	0	0	4,258	0	0	0	0	

600000

NOM	1,676	11,703	0	13,378	88,280	0	22,691	0	0	22,691
NPV	1,154	8,083	0	9,237	26,718	0	15,629	0	0	15,629

\* 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: 2001 - 2004 Installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2005	18,961	648	0	1,304	808	266	633	40	3,698	3,698	3,698
2006	18,165	621	0	1,249	527	266	633	286	3,582	3,287	6,986
2007	17,266	590	0	1,187	527	266	633	248	3,451	2,906	9,891
2008	16,403	581	0	1,128	525	266	633	213	3,325	2,569	12,460
2009	15,574	533	0	1,071	522	266	633	180	3,203	2,271	14,732
2010	14,777	505	0	1,016	518	266	633	149	3,087	2,009	16,740
2011	14,009	479	0	963	513	266	633	121	2,975	1,776	18,516
2012	13,269	454	0	912	507	266	633	95	2,867	1,571	20,087
2013	12,543	429	0	862	480	266	633	91	2,761	1,388	21,475
2014	11,820	404	0	813	449	266	633	91	2,655	1,225	22,700
2015	11,096	379	0	763	418	266	633	91	2,549	1,079	23,779
2016	10,373	355	0	713	387	266	633	91	2,444	949	24,728
2017	9,650	330	0	663	355	266	633	91	2,338	833	25,562
2018	8,926	305	0	614	324	266	633	91	2,232	730	26,292
2019	8,203	281	0	564	293	266	633	91	2,126	638	26,930
2020	7,480	256	0	514	262	266	633	91	2,021	557	27,487
2021	6,756	231	0	465	230	266	633	91	1,915	484	27,971
2022	6,033	206	0	415	199	266	633	91	1,809	420	28,390
2023	5,310	182	0	365	168	266	633	91	1,704	363	28,753
2024	4,586	157	0	315	137	266	633	91	1,598	312	29,065
2025	3,942	135	0	271	267	266	633	(68)	1,504	270	29,335
2026	3,456	118	0	238	405	266	633	(226)	1,433	236	29,570
2027	3,050	104	0	210	387	266	633	(226)	1,373	207	29,778
2028	2,643	90	0	182	369	266	633	(226)	1,314	182	29,960
2029	2,236	76	0	154	352	266	633	(226)	1,255	159	30,119
2030	1,830	63	0	128	334	266	633	(226)	1,195	139	30,258
2031	1,423	49	0	98	317	266	633	(226)	1,136	122	30,380
2032	1,016	35	0	70	299	266	633	(226)	1,076	106	30,486
2033	610	21	0	42	282	266	633	(226)	1,017	92	30,577
2034	203	7	0	14	264	266	633	(226)	957	79	30,656

010000

IN SERVICE COS (\$000)	18,979
IN SERVICE YEAR	2005
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI 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 DEFERRED \$(000)	ACCUMULATED BOOK DEPR FOR \$(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)
2005	3.75%	690	690	633	633	586	586	40	1,404	0	0	0	40	(278)
2006	7.22%	1,328	2,018	633	1,265	586	1,172	286	1,404	0	0	0	286	8
2007	6.68%	1,229	3,247	633	1,898	586	1,758	248	1,404	0	0	0	248	256
2008	6.18%	1,137	4,384	633	2,531	586	2,343	213	1,404	0	0	0	213	469
2009	5.71%	1,051	5,435	633	3,163	586	2,929	180	1,404	0	0	0	180	648
2010	5.29%	972	6,408	633	3,798	586	3,515	149	1,404	0	0	0	149	798
2011	4.89%	899	7,307	633	4,429	586	4,101	121	1,404	0	0	0	121	918
2012	4.52%	832	8,139	633	5,061	586	4,687	95	1,404	0	0	0	95	1,013
2013	4.46%	821	8,960	633	5,694	586	5,273	91	1,404	0	0	0	91	1,104
2014	4.46%	821	9,781	633	6,326	586	5,858	91	1,404	0	0	0	91	1,195
2015	4.46%	821	10,602	633	6,959	586	6,444	91	1,404	0	0	0	91	1,286
2016	4.46%	821	11,423	633	7,592	586	7,030	91	1,404	0	0	0	91	1,376
2017	4.46%	821	12,244	633	8,224	586	7,616	91	1,404	0	0	0	91	1,467
2018	4.46%	821	13,065	633	8,857	586	8,202	91	1,404	0	0	0	91	1,558
2019	4.46%	821	13,886	633	9,490	586	8,788	91	1,404	0	0	0	91	1,648
2020	4.46%	821	14,707	633	10,122	586	9,374	91	1,404	0	0	0	91	1,739
2021	4.46%	821	15,528	633	10,755	586	9,959	91	1,404	0	0	0	91	1,830
2022	4.46%	821	16,349	633	11,388	586	10,545	91	1,404	0	0	0	91	1,920
2023	4.46%	821	17,170	633	12,020	586	11,131	91	1,404	0	0	0	91	2,011
2024	4.46%	821	17,991	633	12,653	586	11,717	91	1,404	0	0	0	91	2,102
2025	2.23%	411	18,401	633	13,286	586	12,303	(68)	1,404	0	0	0	(68)	2,034
2026	0.00%	0	18,401	633	13,918	586	12,889	(226)	1,404	0	0	0	(226)	1,808
2027	0.00%	0	18,401	633	14,551	586	13,474	(226)	1,404	0	0	0	(226)	1,582
2028	0.00%	0	18,401	633	15,184	586	14,060	(226)	1,404	0	0	0	(226)	1,356
2029	0.00%	0	18,401	633	15,816	586	14,646	(226)	1,404	0	0	0	(226)	1,130
2030	0.00%	0	18,401	633	16,449	586	15,232	(226)	1,404	0	0	0	(226)	904
2031	0.00%	0	18,401	633	17,081	586	15,818	(226)	1,404	0	0	0	(226)	678
2032	0.00%	0	18,401	633	17,714	586	16,404	(226)	1,404	0	0	0	(226)	452
2033	0.00%	0	18,401	633	18,347	586	16,990	(226)	1,404	0	0	0	(226)	226
2034	0.00%	0	18,401	633	18,979	586	17,575	(226)	1,404	0	0	0	(226)	0

000011

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(318)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,404
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential Building Envelope: 2001 - 2004 Installations

(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)
2005	3.75%	690	40	18,347	833	(278)	19,298	18,625	18,961
2006	7.22%	1,328	286	17,714	1,265	8	18,625	17,706	18,165
2007	6.68%	1,229	248	17,081	1,898	256	17,706	16,825	17,266
2008	6.18%	1,137	213	16,449	2,531	469	16,825	15,980	16,403
2009	5.71%	1,051	180	15,816	3,163	648	15,980	15,168	15,574
2010	5.29%	972	149	15,184	3,796	798	15,168	14,386	14,777
2011	4.89%	899	121	14,551	4,429	918	14,386	13,632	14,009
2012	4.52%	832	95	13,918	5,061	1,013	13,832	12,905	13,269
2013	4.46%	821	91	13,286	5,694	1,104	12,905	12,181	12,543
2014	4.46%	821	91	12,653	6,328	1,195	12,181	11,458	11,820
2015	4.46%	821	91	12,020	6,959	1,286	11,458	10,735	11,096
2016	4.46%	821	91	11,388	7,592	1,376	10,735	10,011	10,373
2017	4.46%	821	91	10,755	8,224	1,467	10,011	9,288	9,650
2018	4.46%	821	91	10,122	8,857	1,558	9,288	8,565	8,926
2019	4.46%	821	91	9,490	9,490	1,648	8,565	7,841	8,203
2020	4.46%	821	91	8,857	10,122	1,739	7,841	7,118	7,480
2021	4.46%	821	91	8,224	10,755	1,830	7,118	6,395	6,756
2022	4.46%	821	91	7,592	11,388	1,920	6,395	5,671	6,033
2023	4.46%	821	91	6,959	12,020	2,011	5,671	4,948	5,310
2024	4.46%	821	91	6,328	12,653	2,102	4,948	4,225	4,586
2025	2.23%	411	(68)	5,694	13,286	2,034	4,225	3,660	3,942
2026	0.00%	0	(226)	5,061	13,918	1,808	3,660	3,253	3,456
2027	0.00%	0	(226)	4,429	14,551	1,582	3,253	2,846	3,050
2028	0.00%	0	(226)	3,796	15,184	1,356	2,846	2,440	2,643
2029	0.00%	0	(226)	3,163	15,816	1,130	2,440	2,033	2,236
2030	0.00%	0	(226)	2,531	16,449	904	2,033	1,626	1,830
2031	0.00%	0	(226)	1,898	17,081	678	1,626	1,220	1,423
2032	0.00%	0	(226)	1,265	17,714	452	1,220	813	1,016
2033	0.00%	0	(226)	633	18,347	226	813	406	610
2034	0.00%	0	(226)	0	18,979	0	406	0	203

000012

\* 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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.081	0.65%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00% 582.24

(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)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	34.44	52.57	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	16,877	16,877	16,877
EQUITY AFUDC	1,404		
DEBT AFUDC	698	698	
CPI			1,524
<b>TOTAL</b>	<b>18,979</b>	<b>17,575</b>	<b>18,401</b>

IN SERVICE YEAR 2005  
PLANT COSTS 519  
AFUDC RATE 10.30%

\* Column not specified in workbook

000013



INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Residential Building Envelope: 2001 - 2004 installations

(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
1998	0	0	2.00	2.27	2.08	0.00	1.00	1.00
1999	0	0	2.23	2.57	2.37	0.00	1.00	1.00
2000	0	0	2.45	2.86	2.61	0.00	1.00	1.00
2001	18,315	18,315	2.73	3.32	2.95	0.00	1.00	1.00
2002	34,653	34,653	2.81	3.11	2.84	0.00	1.00	1.00
2003	49,234	49,234	2.60	3.21	2.82	0.00	1.00	1.00
2004	62,255	62,255	2.78	3.46	3.03	0.00	1.00	1.00
2005	62,255	62,255	2.93	3.71	3.22	3.25	1.00	1.00
2006	62,255	62,255	3.01	3.82	3.31	3.34	1.00	1.00
2007	62,255	62,255	3.13	4.10	3.48	3.49	1.00	1.00
2008	62,255	62,255	3.07	3.99	3.39	3.45	1.00	1.00
2009	62,255	62,255	3.15	4.12	3.49	3.60	1.00	1.00
2010	62,255	62,255	3.14	4.21	3.48	3.57	1.00	1.00
2011	62,255	62,255	3.32	4.35	3.69	3.71	1.00	1.00
2012	62,255	62,255	3.38	4.50	3.76	3.77	1.00	1.00
2013	62,255	62,255	3.47	4.63	3.86	3.84	1.00	1.00
2014	62,255	62,255	3.55	4.74	3.94	3.92	1.00	1.00
2015	62,255	62,255	3.58	4.83	3.97	3.95	1.00	1.00
2016	62,255	62,255	3.62	4.91	4.00	4.00	1.00	1.00
2017	62,255	62,255	3.75	5.09	4.16	4.13	1.00	1.00
2018	62,255	62,255	3.93	5.37	4.37	4.35	1.00	1.00
2019	62,255	62,255	4.09	5.66	4.58	4.55	1.00	1.00
2020	62,255	62,255	4.23	5.87	4.75	4.79	1.00	1.00
2021	62,255	62,255	4.32	6.01	4.84	4.88	1.00	1.00
2022	62,255	62,255	4.41	6.17	4.95	4.97	1.00	1.00
2023	62,255	62,255	4.53	6.38	5.09	5.10	1.00	1.00
2024	62,255	62,255	4.64	6.55	5.22	5.23	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.

410000

AVOIDED GENERATING BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential Building Envelope: 2001 - 2004 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	3,698	1,327	186	5,004	7,502	2,714
2006	3,582	1,380	197	5,243	7,936	2,466
2007	3,451	1,435	205	5,401	8,411	2,082
2008	3,325	1,493	211	5,464	8,299	2,193
2009	3,203	1,552	214	5,471	8,556	1,885
2010	3,087	1,615	212	5,328	8,172	2,067
2011	2,975	1,679	218	5,403	8,500	1,774
2012	2,867	1,746	224	5,560	8,635	1,762
2013	2,761	1,816	228	5,730	8,709	1,827
2014	2,655	1,889	233	5,897	8,801	1,872
2015	2,549	1,964	239	6,002	8,857	1,898
2016	2,444	2,043	244	6,103	8,885	1,949
2017	2,338	2,125	252	6,289	9,215	1,789
2018	2,232	2,210	260	6,481	9,734	1,449
2019	2,126	2,298	270	6,710	10,287	1,117
2020	2,021	2,390	278	6,911	10,834	766
2021	1,915	2,486	286	7,063	11,032	718
2022	1,809	2,585	294	7,226	11,242	673
2023	1,704	2,688	303	8,158	11,518	1,335
2024	1,598	2,796	312	8,158	11,816	1,047

510000

NOM	52,339	39,517	4866	123,602	186,941	33,382
NPV	15,924	9,670	1239	31,661	48,109	10,366

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential Building Envelope: 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	289	0
2002	114	27	142	74	119	193	776	0
2003	215	54	268	140	233	373	1,292	0
2004	302	79	381	196	344	540	1,857	0
2005	377	104	481	245	453	698	2,241	0
2006	363	109	471	236	471	707	2,313	0
2007	349	113	462	227	490	717	2,510	0
2008	336	117	453	218	509	727	2,436	0
2009	323	122	445	210	530	740	2,524	0
2010	310	127	437	202	551	753	2,609	0
2011	298	132	431	194	573	767	2,672	0
2012	287	137	424	186	596	782	2,777	0
2013	275	143	418	179	620	798	2,862	0
2014	263	149	412	171	645	815	2,934	0
2015	251	155	406	163	670	834	2,993	0
2016	240	161	400	156	697	853	3,056	0
2017	228	167	395	148	725	873	3,170	0
2018	216	174	390	140	754	894	3,352	0
2019	204	181	385	133	784	917	3,547	0
2020	192	188	381	125	816	941	3,681	0
2021	181	196	376	117	848	966	3,778	0
2022	169	203	373	110	882	992	3,887	0
2023	159	212	371	103	917	1,021	4,008	0
2024	151	220	371	98	954	1,052	4,138	0

000016

NOM.	5,802	3,270	9,072	3,771	14,181	17,952	65,700	0
NPV	1,991	863	2,854	1,294	3,741	5,035	18,081	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: 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	476	6,441	0	6,917	0	0	289	0	289	(6,628)	(5,121)
2002	0	435	5,895	0	6,331	0	335	776	0	1,111	(5,220)	(8,823)
2003	0	399	5,404	0	5,803	0	641	1,292	0	1,933	(3,870)	(11,341)
2004	0	366	4,951	0	5,316	0	922	1,857	0	2,778	(2,538)	(12,856)
2005	0	0	0	0	0	2,714	1,179	2,241	0	6,133	6,133	(9,496)
2006	0	0	0	0	0	2,466	1,178	2,313	0	5,957	5,957	(6,501)
2007	0	0	0	0	0	2,082	1,178	2,510	0	5,770	5,770	(3,839)
2008	0	0	0	0	0	2,193	1,180	2,436	0	5,810	5,810	(1,380)
2009	0	0	0	0	0	1,885	1,184	2,524	0	5,593	5,593	793
2010	0	0	0	0	0	2,067	1,190	2,609	0	5,867	5,867	2,885
2011	0	0	0	0	0	1,774	1,197	2,672	0	5,644	5,644	4,731
2012	0	0	0	0	0	1,762	1,206	2,777	0	5,745	5,745	6,456
2013	0	0	0	0	0	1,827	1,216	2,862	0	5,905	5,905	8,082
2014	0	0	0	0	0	1,872	1,227	2,934	0	6,033	6,033	9,607
2015	0	0	0	0	0	1,898	1,239	2,993	0	6,131	6,131	11,029
2016	0	0	0	0	0	1,949	1,253	3,056	0	6,258	6,258	12,361
2017	0	0	0	0	0	1,789	1,268	3,170	0	6,227	6,227	13,577
2018	0	0	0	0	0	1,449	1,284	3,352	0	6,086	6,086	14,668
2019	0	0	0	0	0	1,117	1,302	3,547	0	5,966	5,966	15,649
2020	0	0	0	0	0	766	1,321	3,681	0	5,768	5,768	16,519
2021	0	0	0	0	0	718	1,342	3,778	0	5,838	5,838	17,328
2022	0	0	0	0	0	673	1,365	3,887	0	5,925	5,925	18,081
2023	0	0	0	0	0	1,335	1,392	4,008	0	6,735	6,735	18,866
2024	0	0	0	0	0	1,047	1,423	4,138	0	6,607	6,607	19,573
NOM	0	1,676	22,691	0	24,367	33,382	27,024	65,700	0	126,106	101,739	
NPV	0	1,154	15,829	0	16,783	10,386	7,889	18,081	0	38,357	19,573	

000017

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

8.88 %  
2.17

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential Building Envelope: 2001 - 2004 Installations**

810000

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	892	0	3,443	0	4,335	6,441	0	0	6,441	(2,106)	(1,627)
2002	2,579	0	3,071	0	5,650	5,895	0	0	5,895	(245)	(1,801)
2003	4,143	0	2,741	0	6,884	5,404	0	0	5,404	1,481	(838)
2004	5,522	0	2,448	0	7,970	4,951	0	0	4,951	3,019	965
2005	6,229	0	0	0	6,229	0	0	0	0	6,229	4,378
2006	6,220	0	0	0	6,220	0	0	0	0	6,220	7,505
2007	6,251	0	0	0	6,251	0	0	0	0	6,251	10,389
2008	6,277	0	0	0	6,277	0	0	0	0	6,277	13,047
2009	6,273	0	0	0	6,273	0	0	0	0	6,273	15,483
2010	6,418	0	0	0	6,418	0	0	0	0	6,418	17,771
2011	6,415	0	0	0	6,415	0	0	0	0	6,415	19,870
2012	6,468	0	0	0	6,468	0	0	0	0	6,468	21,811
2013	6,506	0	0	0	6,506	0	0	0	0	6,506	23,604
2014	6,583	0	0	0	6,583	0	0	0	0	6,583	25,268
2015	6,621	0	0	0	6,621	0	0	0	0	6,621	26,803
2016	6,668	0	0	0	6,668	0	0	0	0	6,668	28,223
2017	6,677	0	0	0	6,677	0	0	0	0	6,677	29,527
2018	6,719	0	0	0	6,719	0	0	0	0	6,719	30,731
2019	6,762	0	0	0	6,762	0	0	0	0	6,762	31,843
2020	6,805	0	0	0	6,805	0	0	0	0	6,805	32,870
2021	6,849	0	0	0	6,849	0	0	0	0	6,849	33,819
2022	6,893	0	0	0	6,893	0	0	0	0	6,893	34,695
2023	6,937	0	0	0	6,937	0	0	0	0	6,937	35,503
2024	6,980	0	0	0	6,980	0	0	0	0	6,980	36,250

NOM	144,689	0	11,703	0	156,392	22,691	0	0	22,691	133,700
NPV	43,797	0	8,083	0	51,880	15,629	0	0	15,629	36,250

In Service of Gen Unit: 2005  
 Discount Rate: 8.98 %  
 Benefit/Coast Ratio ( Col(6) / Col(10)) 3.32

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential Building Envelope: 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	476	3,443	544	0	4,463	289	0	0	0	289	(4,174)	(3,225)
2002	0	435	3,071	1,573	0	5,080	776	335	0	0	1,111	(3,969)	(6,039)
2003	0	399	2,741	2,527	0	5,668	1,292	641	0	0	1,933	(3,735)	(8,469)
2004	0	366	2,448	3,368	0	6,182	1,857	922	0	0	2,778	(3,403)	(10,501)
2005	0	0	0	3,800	0	3,800	4,954	1,179	0	0	6,133	2,333	(9,223)
2006	0	0	0	3,794	0	3,794	4,778	1,178	0	0	5,957	2,163	(8,136)
2007	0	0	0	3,813	0	3,813	4,591	1,178	0	0	5,770	1,956	(7,233)
2008	0	0	0	3,829	0	3,829	4,629	1,180	0	0	5,810	1,980	(6,395)
2009	0	0	0	3,826	0	3,826	4,408	1,184	0	0	5,593	1,767	(5,709)
2010	0	0	0	3,915	0	3,915	4,677	1,190	0	0	5,867	1,952	(5,013)
2011	0	0	0	3,913	0	3,913	4,446	1,197	0	0	5,644	1,731	(4,447)
2012	0	0	0	3,946	0	3,946	4,539	1,206	0	0	5,745	1,800	(3,906)
2013	0	0	0	3,969	0	3,969	4,689	1,216	0	0	5,905	1,936	(3,373)
2014	0	0	0	4,016	0	4,016	4,805	1,227	0	0	6,033	2,017	(2,863)
2015	0	0	0	4,039	0	4,039	4,891	1,239	0	0	6,131	2,092	(2,378)
2016	0	0	0	4,067	0	4,067	5,005	1,253	0	0	6,258	2,190	(1,912)
2017	0	0	0	4,073	0	4,073	4,959	1,268	0	0	6,227	2,154	(1,491)
2018	0	0	0	4,099	0	4,099	4,801	1,284	0	0	6,086	1,987	(1,135)
2019	0	0	0	4,125	0	4,125	4,664	1,302	0	0	5,966	1,841	(832)
2020	0	0	0	4,151	0	4,151	4,447	1,321	0	0	5,768	1,617	(588)
2021	0	0	0	4,178	0	4,178	4,496	1,342	0	0	5,838	1,680	(358)
2022	0	0	0	4,205	0	4,205	4,560	1,365	0	0	5,925	1,720	(140)
2023	0	0	0	4,231	0	4,231	5,343	1,392	0	0	6,735	2,503	152
2024	0	0	0	4,258	0	4,258	5,185	1,423	0	0	6,607	2,349	404

610000

NOM.	0	1,676	11,703	88,260	0	101,639	99,082	27,024	0	0	126,106	24,467
NPV	0	1,154	8,083	26,716	0	35,953	28,468	7,889	0	0	36,357	404

Discount Rate 8.96 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.01

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: RESIDENTIAL BUILDING ENVELOPE (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)	RSC-10A	RSC-10B
RATE CLASS: RS		
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 24.00	\$ 24.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 325.00	\$ 325.00
(6) CUSTOMER O&M COST	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 190.00	\$ 168.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

V. NON-FUEL ENERGY AND DEMAND CHARGES	RS
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

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INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential Building Envelope: 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.36 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	0.47 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	855.3 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.61528
(5) K FACTOR FOR T & D.....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2008
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.27 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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

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\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential Building Envelope: 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0
2005	335	2,186	0	2,522	355	0	4,543	0	0	4,543
2006	308	1,955	0	2,263	1,026	0	4,171	0	0	4,171
2007	283	1,748	0	2,031	1,634	0	3,831	0	0	3,831
2008	0	0	0	0	1,927	0	0	0	0	0
2009	0	0	0	0	1,926	0	0	0	0	0
2010	0	0	0	0	1,970	0	0	0	0	0
2011	0	0	0	0	1,969	0	0	0	0	0
2012	0	0	0	0	1,986	0	0	0	0	0
2013	0	0	0	0	1,997	0	0	0	0	0
2014	0	0	0	0	2,021	0	0	0	0	0
2015	0	0	0	0	2,033	0	0	0	0	0
2016	0	0	0	0	2,047	0	0	0	0	0
2017	0	0	0	0	2,050	0	0	0	0	0
2018	0	0	0	0	2,063	0	0	0	0	0
2019	0	0	0	0	2,076	0	0	0	0	0
2020	0	0	0	0	2,089	0	0	0	0	0
2021	0	0	0	0	2,103	0	0	0	0	0
2022	0	0	0	0	2,116	0	0	0	0	0
2023	0	0	0	0	2,129	0	0	0	0	0
2024	0	0	0	0	2,143	0	0	0	0	0
2025	0	0	0	0	2,157	0	0	0	0	0
2026	0	0	0	0	2,171	0	0	0	0	0
2027	0	0	0	0	2,185	0	0	0	0	0
NOM	926	5,889	0	6,815	44,171	0	12,544	0	0	12,544
NPV	469	2,987	0	3,456	9,991	0	6,353	0	0	6,353

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\* 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: 2005 - 2007 Installations**

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
MID-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	OTHER TAXES & INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)
2008	10,181	348	0	700	434	143	340	22	1,986	1,986
2009	9,753	334	0	671	283	143	340	154	1,923	3,751
2010	9,270	317	0	637	283	143	340	133	1,853	5,311
2011	8,807	301	0	605	282	143	340	114	1,785	8,690
2012	8,362	286	0	575	280	143	340	96	1,720	7,910
2013	7,934	271	0	545	278	143	340	80	1,657	8,988
2014	7,522	257	0	517	276	143	340	65	1,597	9,942
2015	7,124	244	0	490	272	143	340	51	1,539	10,785
2016	6,735	230	0	463	258	143	340	49	1,482	11,530
2017	6,346	217	0	436	241	143	340	49	1,425	12,188
2018	5,958	204	0	410	224	143	340	49	1,369	12,767
2019	5,569	190	0	383	208	143	340	49	1,312	13,277
2020	5,181	177	0	356	191	143	340	49	1,255	13,724
2021	4,793	164	0	330	174	143	340	49	1,198	14,117
2022	4,404	151	0	303	157	143	340	49	1,142	14,459
2023	4,016	137	0	276	141	143	340	49	1,085	14,758
2024	3,628	124	0	249	124	143	340	49	1,028	15,018
2025	3,239	111	0	223	107	143	340	49	971	15,243
2026	2,851	98	0	196	90	143	340	49	915	15,438
2027	2,463	84	0	169	73	143	340	49	858	15,608
2028	2,117	72	0	146	143	143	340	(36)	807	15,750
2029	1,856	63	0	128	217	143	340	(121)	769	15,877
2030	1,637	56	0	113	208	143	340	(121)	737	15,988
2031	1,419	49	0	98	198	143	340	(121)	705	16,086
2032	1,201	41	0	83	189	143	340	(121)	674	16,171
2033	982	34	0	68	180	143	340	(121)	642	16,246
2034	764	26	0	53	170	143	340	(121)	610	16,312
2035	546	19	0	38	161	143	340	(121)	578	16,368
2036	327	11	0	23	151	143	340	(121)	546	16,417
2037	109	4	0	7	142	143	340	(121)	514	16,460

000023

IN SERVICE COS (\$000)	10,190
IN SERVICE YEAR	2008
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential Building Envelope: 2

(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 DEPR FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	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)
2008	3.75%	370	370	340	340	315	315	22	754	0	0	0	22	(149)
2009	7.22%	713	1,084	340	679	315	629	154	754	0	0	0	154	4
2010	6.68%	660	1,743	340	1,019	315	944	133	754	0	0	0	133	137
2011	6.18%	611	2,354	340	1,359	315	1,258	114	754	0	0	0	114	252
2012	5.71%	564	2,918	340	1,698	315	1,573	96	754	0	0	0	96	348
2013	5.29%	522	3,440	340	2,038	315	1,887	80	754	0	0	0	80	428
2014	4.89%	483	3,923	340	2,378	315	2,202	65	754	0	0	0	65	493
2015	4.52%	447	4,370	340	2,717	315	2,516	51	754	0	0	0	51	544
2016	4.46%	441	4,811	340	3,057	315	2,831	49	754	0	0	0	49	593
2017	4.46%	441	5,251	340	3,397	315	3,145	49	754	0	0	0	49	641
2018	4.46%	441	5,692	340	3,736	315	3,460	49	754	0	0	0	49	690
2019	4.46%	441	6,133	340	4,076	315	3,774	49	754	0	0	0	49	739
2020	4.46%	441	6,574	340	4,416	315	4,089	49	754	0	0	0	49	788
2021	4.46%	441	7,015	340	4,755	315	4,403	49	754	0	0	0	49	836
2022	4.46%	441	7,455	340	5,095	315	4,718	49	754	0	0	0	49	885
2023	4.46%	441	7,896	340	5,435	315	5,032	49	754	0	0	0	49	934
2024	4.46%	441	8,337	340	5,774	315	5,347	49	754	0	0	0	49	982
2025	4.46%	441	8,778	340	6,114	315	5,661	49	754	0	0	0	49	1,031
2026	4.46%	441	9,218	340	6,454	315	5,976	49	754	0	0	0	49	1,080
2027	4.46%	441	9,659	340	6,793	315	6,290	49	754	0	0	0	49	1,128
2028	2.23%	220	9,879	340	7,133	315	6,605	(36)	754	0	0	0	(36)	1,092
2029	0.00%	0	9,879	340	7,473	315	6,920	(121)	754	0	0	0	(121)	971
2030	0.00%	0	9,879	340	7,812	315	7,234	(121)	754	0	0	0	(121)	849
2031	0.00%	0	9,879	340	8,152	315	7,549	(121)	754	0	0	0	(121)	728
2032	0.00%	0	9,879	340	8,492	315	7,863	(121)	754	0	0	0	(121)	607
2033	0.00%	0	9,879	340	8,831	315	8,178	(121)	754	0	0	0	(121)	485
2034	0.00%	0	9,879	340	9,171	315	8,492	(121)	754	0	0	0	(121)	364
2035	0.00%	0	9,879	340	9,511	315	8,807	(121)	754	0	0	0	(121)	243
2036	0.00%	0	9,879	340	9,851	315	9,121	(121)	754	0	0	0	(121)	121
2037	0.00%	0	9,879	340	10,190	315	9,436	(121)	754	0	0	0	(121)	0

000024

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(171)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	754
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential Building Envelope: 2005 - 2007 Installations

(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)	ACCUMULATE DEPRECIATION \$(000)	ACCUMULATE DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2008	3.75%	370	22	9,851	340	(149)	10,361	10,000	10,181
2009	7.22%	713	154	9,511	679	4	10,000	9,507	9,753
2010	6.68%	660	133	9,171	1,019	137	9,507	9,034	9,270
2011	6.18%	611	114	8,831	1,359	252	9,034	8,560	8,807
2012	5.71%	564	96	8,492	1,698	348	8,560	8,144	8,362
2013	5.29%	522	80	8,152	2,038	428	8,144	7,724	7,934
2014	4.89%	483	65	7,812	2,378	493	7,724	7,319	7,522
2015	4.52%	447	51	7,473	2,717	544	7,319	6,929	7,124
2016	4.46%	441	49	7,133	3,057	593	6,929	6,540	6,735
2017	4.46%	441	49	6,793	3,397	641	6,540	6,152	6,346
2018	4.46%	441	49	6,454	3,736	690	6,152	5,764	5,958
2019	4.46%	441	49	6,114	4,076	739	5,764	5,375	5,569
2020	4.46%	441	49	5,774	4,416	788	5,375	4,987	5,181
2021	4.46%	441	49	5,435	4,755	836	4,987	4,599	4,793
2022	4.46%	441	49	5,095	5,095	885	4,599	4,210	4,404
2023	4.46%	441	49	4,755	5,435	934	4,210	3,822	4,016
2024	4.46%	441	49	4,416	5,774	982	3,822	3,433	3,626
2025	4.46%	441	49	4,076	6,114	1,031	3,433	3,045	3,239
2026	4.46%	441	49	3,736	6,454	1,080	3,045	2,657	2,851
2027	4.46%	441	49	3,397	6,793	1,128	2,657	2,268	2,463
2028	2.23%	220	(36)	3,057	7,133	1,092	2,268	1,965	2,117
2029	0.00%	0	(121)	2,717	7,473	971	1,965	1,747	1,856
2030	0.00%	0	(121)	2,378	7,812	849	1,747	1,528	1,637
2031	0.00%	0	(121)	2,038	8,152	728	1,528	1,310	1,419
2032	0.00%	0	(121)	1,698	8,492	607	1,310	1,092	1,201
2033	0.00%	0	(121)	1,359	8,831	485	1,092	873	982
2034	0.00%	0	(121)	1,019	9,171	364	873	655	764
2035	0.00%	0	(121)	679	9,511	243	655	437	546
2036	0.00%	0	(121)	340	9,851	121	437	218	327
2037	0.00%	0	(121)	(0)	10,190	0	218	0	109

000025

\* 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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.80	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.10	0.07	0.07	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.49	0.29	0.36	(0.06)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	5.44	3.64	4.00	(0.77)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	26.50	15.37	19.37	(3.23)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	56.12	(7.65)	364.72	698.45
			25.72		77.43	56.12		(11.72)		698.45	

000026

IN SERVICE YEAR		BOOK BASIS		
		BOOK BASIS	FOR DEF TAX	TAX BASIS
2008	PLANT COSTS	519		
10.30%	AFUDC RATE			
	CONSTRUCTION CASH	9,060	9,060	9,060
	EQUITY AFUDC	754		
	DEBT AFUDC	375	375	
	CPI			819
	TOTAL	10,190	9,436	9,879

\* Column not specified in workbook

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Residential Building Envelope: 2005 - 2007 Installations

(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
1998	0	0	2.00	2.27	2.08	0.00	1.00	1.00
1999	0	0	2.23	2.57	2.37	0.00	1.00	1.00
2000	0	0	2.45	2.86	2.61	0.00	1.00	1.00
2001	0	0	2.73	3.32	2.95	0.00	1.00	1.00
2002	0	0	2.81	3.11	2.84	0.00	1.00	1.00
2003	0	0	2.60	3.21	2.82	0.00	1.00	1.00
2004	0	0	2.78	3.46	3.03	0.00	1.00	1.00
2005	11,633	11,633	2.84	3.60	3.10	0.00	1.00	1.00
2006	22,033	22,033	2.91	3.71	3.19	0.00	1.00	1.00
2007	31,335	31,335	3.02	3.94	3.33	0.00	1.00	1.00
2008	31,335	31,335	3.07	3.99	3.39	3.49	1.00	1.00
2009	31,335	31,335	3.14	4.12	3.48	3.69	1.00	1.00
2010	31,335	31,335	3.14	4.21	3.48	3.64	1.00	1.00
2011	31,335	31,335	3.31	4.35	3.69	3.75	1.00	1.00
2012	31,335	31,335	3.38	4.50	3.76	3.81	1.00	1.00
2013	31,335	31,335	3.47	4.63	3.86	3.86	1.00	1.00
2014	31,335	31,335	3.55	4.74	3.94	3.92	1.00	1.00
2015	31,335	31,335	3.58	4.82	3.97	3.94	1.00	1.00
2016	31,335	31,335	3.62	4.91	4.00	3.98	1.00	1.00
2017	31,335	31,335	3.75	5.09	4.15	4.12	1.00	1.00
2018	31,335	31,335	3.93	5.37	4.37	4.33	1.00	1.00
2019	31,335	31,335	4.09	5.66	4.58	4.54	1.00	1.00
2020	31,335	31,335	4.23	5.88	4.74	4.76	1.00	1.00
2021	31,335	31,335	4.34	6.04	4.86	4.88	1.00	1.00
2022	31,335	31,335	4.45	6.22	4.99	5.00	1.00	1.00
2023	31,335	31,335	4.56	6.41	5.12	5.13	1.00	1.00
2024	31,335	31,335	4.67	6.60	5.26	5.27	1.00	1.00
2025	31,335	31,335	4.80	6.82	5.41	5.42	1.00	1.00
2026	31,335	31,335	4.94	7.04	5.57	5.59	1.00	1.00
2027	31,335	31,335	5.07	7.04	5.57	5.59	1.00	1.00

000027

\* 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: 2005 - 2007 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	1,986	746	103	2,683	4,124	1,394
2009	1,823	776	102	2,622	4,192	1,231
2010	1,853	807	102	2,573	4,012	1,323
2011	1,785	839	108	2,676	4,246	1,162
2012	1,720	872	111	2,749	4,310	1,142
2013	1,657	907	115	2,890	4,404	1,168
2014	1,597	944	119	3,024	4,499	1,185
2015	1,539	981	122	3,078	4,524	1,197
2016	1,482	1,021	126	3,166	4,577	1,218
2017	1,425	1,061	130	3,251	4,734	1,133
2018	1,369	1,104	134	3,342	4,997	952
2019	1,312	1,148	138	3,445	5,257	787
2020	1,255	1,194	142	3,548	5,512	628
2021	1,198	1,242	147	3,642	5,845	583
2022	1,142	1,291	151	3,737	5,786	534
2023	1,085	1,343	155	3,828	5,938	474
2024	1,028	1,397	160	3,917	6,100	401
2025	971	1,453	164	4,009	6,280	318
2026	915	1,511	169	4,102	6,477	219
2027	858	1,571	174	4,196	6,477	322
NOM	28,102	22,206	2673	66,475	102,088	17,368
NPV	6,607	4,199	519	13,011	19,975	4,361

000028

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential Building Envelope: 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	203	0
2006	78	20	99	51	88	139	608	0
2007	147	40	187	96	173	269	1,032	0
2008	207	59	266	134	256	391	1,226	0
2009	199	61	261	129	267	396	1,270	0
2010	192	64	255	124	277	402	1,313	0
2011	184	67	251	120	288	408	1,345	0
2012	177	69	246	115	300	415	1,398	0
2013	170	72	242	111	312	423	1,440	0
2014	164	75	239	107	324	431	1,475	0
2015	158	78	235	102	337	440	1,506	0
2016	151	81	232	98	351	449	1,537	0
2017	145	84	229	94	365	459	1,595	0
2018	139	88	226	90	380	470	1,687	0
2019	132	91	223	86	395	481	1,785	0
2020	126	95	221	82	410	492	1,851	0
2021	120	98	218	78	427	505	1,911	0
2022	113	102	216	74	444	518	1,972	0
2023	107	106	213	70	462	531	2,035	0
2024	101	111	211	65	480	546	2,101	0
2025	94	115	209	61	499	561	2,172	0
2026	88	120	208	57	519	577	2,248	0
2027	83	125	208	54	540	594	2,225	0
NOM.	3,075	1,821	4,896	1,999	7,896	9,895	35,936	0
NPV	783	362	1,145	509	1,568	2,077	7,443	0

000029

\* 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: 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	335	4,543	0	4,878	0	0	203	0	203	(4,675)	(2,561)
2006	0	308	4,171	0	4,479	0	238	608	0	846	(3,633)	(4,388)
2007	0	283	3,831	0	4,114	0	456	1,032	0	1,488	(2,626)	(5,599)
2008	0	0	0	0	0	1,394	657	1,226	0	3,276	3,276	(4,212)
2009	0	0	0	0	0	1,231	657	1,270	0	3,158	3,158	(2,985)
2010	0	0	0	0	0	1,323	657	1,313	0	3,293	3,293	(1,812)
2011	0	0	0	0	0	1,162	659	1,345	0	3,165	3,165	(776)
2012	0	0	0	0	0	1,142	661	1,398	0	3,201	3,201	185
2013	0	0	0	0	0	1,166	665	1,440	0	3,271	3,271	1,086
2014	0	0	0	0	0	1,185	670	1,475	0	3,331	3,331	1,928
2015	0	0	0	0	0	1,197	675	1,506	0	3,378	3,378	2,711
2016	0	0	0	0	0	1,218	681	1,537	0	3,436	3,436	3,443
2017	0	0	0	0	0	1,133	688	1,595	0	3,416	3,416	4,110
2018	0	0	0	0	0	952	696	1,687	0	3,335	3,335	4,708
2019	0	0	0	0	0	787	704	1,785	0	3,275	3,275	5,246
2020	0	0	0	0	0	628	713	1,851	0	3,192	3,192	5,728
2021	0	0	0	0	0	583	723	1,911	0	3,217	3,217	6,173
2022	0	0	0	0	0	534	733	1,972	0	3,240	3,240	6,585
2023	0	0	0	0	0	474	745	2,035	0	3,253	3,253	6,965
2024	0	0	0	0	0	401	757	2,101	0	3,259	3,259	7,313
2025	0	0	0	0	0	318	770	2,172	0	3,260	3,260	7,633
2026	0	0	0	0	0	219	785	2,248	0	3,252	3,252	7,927
2027	0	0	0	0	0	322	802	2,225	0	3,348	3,348	8,203
NOM	0	926	12,544	0	13,471	17,368	14,791	35,936	0	68,095	54,624	
NPV	0	469	6,353	0	6,822	4,361	3,222	7,443	0	15,026	8,203	

000030

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 2.20

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential Building Envelope: 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	582	0	2,186	0	2,768	4,543	0	0	4,543	(1,774)	(972)
2006	1,662	0	1,955	0	3,636	4,171	0	0	4,171	(535)	(1,241)
2007	2,679	0	1,748	0	4,427	3,831	0	0	3,831	596	(966)
2008	3,159	0	0	0	3,159	0	0	0	0	3,159	372
2009	3,157	0	0	0	3,157	0	0	0	0	3,157	1,598
2010	3,230	0	0	0	3,230	0	0	0	0	3,230	2,749
2011	3,229	0	0	0	3,229	0	0	0	0	3,229	3,806
2012	3,255	0	0	0	3,255	0	0	0	0	3,255	4,783
2013	3,274	0	0	0	3,274	0	0	0	0	3,274	5,685
2014	3,313	0	0	0	3,313	0	0	0	0	3,313	6,522
2015	3,332	0	0	0	3,332	0	0	0	0	3,332	7,295
2016	3,356	0	0	0	3,356	0	0	0	0	3,356	8,009
2017	3,360	0	0	0	3,360	0	0	0	0	3,360	8,666
2018	3,381	0	0	0	3,381	0	0	0	0	3,381	9,272
2019	3,403	0	0	0	3,403	0	0	0	0	3,403	9,831
2020	3,425	0	0	0	3,425	0	0	0	0	3,425	10,348
2021	3,447	0	0	0	3,447	0	0	0	0	3,447	10,825
2022	3,469	0	0	0	3,469	0	0	0	0	3,469	11,266
2023	3,491	0	0	0	3,491	0	0	0	0	3,491	11,673
2024	3,513	0	0	0	3,513	0	0	0	0	3,513	12,049
2025	3,535	0	0	0	3,535	0	0	0	0	3,535	12,397
2026	3,558	0	0	0	3,558	0	0	0	0	3,558	12,717
2027	3,581	0	0	0	3,581	0	0	0	0	3,581	13,013
NOM	72,412	0	5,889	0	78,301	12,544	0	0	12,544	65,756	
NPV	16,379	0	2,987	0	19,366	6,353	0	0	6,353	13,013	

000031

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

2008  
 8.98 %  
3.06

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential Building Envelope: 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	0	0	0	
2005	0	335	2,186	355	0	2,877	203	0	0	203	(2,674)	(1,465)	
2006	0	308	1,955	1,026	0	3,288	608	238	0	845	(2,443)	(2,693)	
2007	0	283	1,748	1,634	0	3,665	1,032	456	0	1,488	(2,177)	(3,698)	
2008	0	0	0	1,927	0	1,927	2,820	657	0	3,276	1,349	(3,126)	
2009	0	0	0	1,926	0	1,926	2,501	657	0	3,158	1,233	(2,647)	
2010	0	0	0	1,970	0	1,970	2,636	657	0	3,293	1,323	(2,176)	
2011	0	0	0	1,969	0	1,969	2,506	659	0	3,165	1,196	(1,785)	
2012	0	0	0	1,986	0	1,986	2,540	661	0	3,201	1,215	(1,420)	
2013	0	0	0	1,997	0	1,997	2,606	665	0	3,271	1,273	(1,069)	
2014	0	0	0	2,021	0	2,021	2,661	670	0	3,331	1,309	(738)	
2015	0	0	0	2,033	0	2,033	2,703	675	0	3,378	1,346	(426)	
2016	0	0	0	2,047	0	2,047	2,755	681	0	3,436	1,389	(130)	
2017	0	0	0	2,050	0	2,050	2,728	688	0	3,416	1,367	137	
2018	0	0	0	2,063	0	2,063	2,639	696	0	3,335	1,272	365	
2019	0	0	0	2,076	0	2,076	2,571	704	0	3,275	1,199	562	
2020	0	0	0	2,089	0	2,089	2,479	713	0	3,192	1,103	728	
2021	0	0	0	2,103	0	2,103	2,494	723	0	3,217	1,114	883	
2022	0	0	0	2,116	0	2,116	2,506	733	0	3,240	1,124	1,025	
2023	0	0	0	2,129	0	2,129	2,509	745	0	3,253	1,124	1,157	
2024	0	0	0	2,143	0	2,143	2,502	757	0	3,259	1,117	1,276	
2025	0	0	0	2,157	0	2,157	2,490	770	0	3,260	1,103	1,384	
2026	0	0	0	2,171	0	2,171	2,468	785	0	3,252	1,082	1,482	
2027	0	0	0	2,185	0	2,185	2,546	802	0	3,348	1,163	1,578	
NOM.	0	926	5,889	44,171	0	50,987	53,304	14,791	0	68,095	17,108		
NPV	0	469	2,987	9,991	0	13,448	11,804	3,222	0	15,026	1,578		

000032

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.12

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: RESIDENTIAL BUILDING ENVELOPE (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)	RSC-10A	RSC-10B
RATE CLASS: RS		
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 24.00	\$ 24.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 325.00	\$ 325.00
(6) CUSTOMER O&M COST	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 190.00	\$ 168.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

V. NON-FUEL ENERGY AND DEMAND CHARGES	RS
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

000033

0000034

**RESIDENTIAL DUCT TEST AND REPAIR**

NPV END 1998 (\$000)

YEARS	<u>RATE IMPACT TEST</u>			<u>PARTICIPANT TEST</u>			<u>TOTAL RESOURCE COST TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 65,755	\$ 62,908	1.05	\$ 86,369	\$ 30,248	2.86	\$ 65,755	\$ 36,339	1.81

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential Duct Repair : 2001 - 2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.20 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	0.26 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	488.3 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.61524
(5) K FACTOR FOR T & D.....	1.46985

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 .....	*** \$/CUSTYR
(7) CUSTOMER O & M COST ESCALATION RATE .....	*** %**
(8) INCREASED SUPPLY COSTS .....	*** \$/CUSTYR
(9) SUPPLY COSTS ESCALATION RATES.....	*** %**
(10) UTILITY DISCOUNT RATE .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.17 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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

000035

\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential Duct Repair : 2001 - 2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	1,270	2,375	0	3,645	494	0	6,305	0	0	6,305
2002	1,329	2,424	0	3,752	1,492	0	6,600	0	0	6,600
2003	1,391	2,470	0	3,861	2,545	0	6,908	0	0	6,908
2004	1,453	2,515	0	3,968	3,607	0	7,217	0	0	7,217
2005	0	0	0	0	4,180	0	0	0	0	0
2006	0	0	0	0	4,174	0	0	0	0	0
2007	0	0	0	0	4,195	0	0	0	0	0
2008	0	0	0	0	4,213	0	0	0	0	0
2009	0	0	0	0	4,209	0	0	0	0	0
2010	0	0	0	0	4,307	0	0	0	0	0
2011	0	0	0	0	4,305	0	0	0	0	0
2012	0	0	0	0	4,341	0	0	0	0	0
2013	0	0	0	0	4,366	0	0	0	0	0
2014	0	0	0	0	4,418	0	0	0	0	0
2015	0	0	0	0	4,443	0	0	0	0	0
2016	0	0	0	0	4,475	0	0	0	0	0
2017	0	0	0	0	4,481	0	0	0	0	0
2018	0	0	0	0	4,509	0	0	0	0	0
2019	0	0	0	0	4,538	0	0	0	0	0
2020	0	0	0	0	4,567	0	0	0	0	0
2021	0	0	0	0	4,596	0	0	0	0	0
2022	0	0	0	0	4,626	0	0	0	0	0
2023	0	0	0	0	4,655	0	0	0	0	0
2024	0	0	0	0	4,684	0	0	0	0	0
NOM	5,443	9,784	0	15,227	96,419	0	27,030	0	0	27,030
NPV	3,696	6,663	0	10,359	28,928	0	18,356	0	0	18,356

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

000036

**CALCULATION OF GEN K-FACTOR  
PROGRAM METHOD SELECTED REV\_REQ  
PROGRAM NAME: Residential Duct Repair : 2001 - 2004 Installations**

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
YEAR	MID-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	OTHER TAXES & INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)
2005	20,186	690	0	1,388	860	283	673	43	3,937	3,937	3,937
2006	19,338	661	0	1,330	561	283	673	305	3,813	3,499	7,437
2007	18,380	629	0	1,264	561	283	673	264	3,673	3,093	10,530
2008	17,462	597	0	1,200	559	283	673	226	3,539	2,735	13,265
2009	16,579	567	0	1,140	556	283	673	191	3,410	2,418	15,683
2010	15,731	538	0	1,082	552	283	673	159	3,286	2,138	17,821
2011	14,914	510	0	1,025	546	283	673	129	3,167	1,891	19,712
2012	14,125	483	0	971	540	283	673	101	3,052	1,672	21,384
2013	13,353	457	0	918	511	283	673	97	2,939	1,478	22,862
2014	12,583	430	0	865	478	283	673	97	2,826	1,304	24,165
2015	11,813	404	0	812	445	283	673	97	2,714	1,149	25,314
2016	11,043	378	0	759	412	283	673	97	2,601	1,011	26,325
2017	10,273	351	0	706	378	283	673	97	2,489	887	27,212
2018	9,503	325	0	653	345	283	673	97	2,376	777	27,989
2019	8,733	299	0	600	312	283	673	97	2,264	680	28,669
2020	7,963	272	0	547	279	283	673	97	2,151	593	29,262
2021	7,193	246	0	494	245	283	673	97	2,039	515	29,777
2022	6,423	220	0	442	212	283	673	97	1,926	447	30,224
2023	5,653	193	0	389	179	283	673	97	1,814	386	30,610
2024	4,883	167	0	336	146	283	673	97	1,701	332	30,942
2025	4,197	144	0	289	284	283	673	(72)	1,601	287	31,229
2026	3,680	126	0	253	431	283	673	(241)	1,525	251	31,480
2027	3,247	111	0	223	412	283	673	(241)	1,462	221	31,700
2028	2,814	96	0	193	393	283	673	(241)	1,399	194	31,894
2029	2,381	81	0	164	375	283	673	(241)	1,336	170	32,064
2030	1,948	67	0	134	356	283	673	(241)	1,272	148	32,212
2031	1,515	52	0	104	337	283	673	(241)	1,209	129	32,342
2032	1,082	37	0	74	319	283	673	(241)	1,146	113	32,454
2033	649	22	0	45	300	283	673	(241)	1,083	98	32,552
2034	216	7	0	15	281	283	673	(241)	1,019	84	32,636

000037

IN SERVICE COS (\$000)	20,205
IN SERVICE YEAR	2005
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.57%
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61524



DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential Duct Repair : 2001 -

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX \$(000)	ACCUMULATED TAX \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPR 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)
2005	3.75%	735	735	673	673	624	624	43	1,495	0	0	0	43	(296)
2006	7.22%	1,414	2,149	673	1,347	624	1,247	305	1,495	0	0	0	305	9
2007	6.68%	1,308	3,457	673	2,020	624	1,871	264	1,495	0	0	0	264	273
2008	6.18%	1,211	4,667	673	2,694	624	2,495	226	1,495	0	0	0	226	499
2009	5.71%	1,119	5,786	673	3,367	624	3,118	191	1,495	0	0	0	191	690
2010	5.29%	1,035	6,822	673	4,041	624	3,742	159	1,495	0	0	0	159	849
2011	4.89%	958	7,779	673	4,714	624	4,366	129	1,495	0	0	0	129	978
2012	4.52%	886	8,665	673	5,388	624	4,989	101	1,495	0	0	0	101	1,079
2013	4.46%	874	9,539	673	6,061	624	5,613	97	1,495	0	0	0	97	1,176
2014	4.46%	874	10,413	673	6,735	624	6,237	97	1,495	0	0	0	97	1,272
2015	4.46%	874	11,287	673	7,408	624	6,860	97	1,495	0	0	0	97	1,369
2016	4.46%	874	12,161	673	8,082	624	7,484	97	1,495	0	0	0	97	1,465
2017	4.46%	874	13,035	673	8,755	624	8,108	97	1,495	0	0	0	97	1,562
2018	4.46%	874	13,909	673	9,429	624	8,731	97	1,495	0	0	0	97	1,658
2019	4.46%	874	14,783	673	10,102	624	9,355	97	1,495	0	0	0	97	1,755
2020	4.46%	874	15,657	673	10,776	624	9,979	97	1,495	0	0	0	97	1,851
2021	4.46%	874	16,531	673	11,449	624	10,602	97	1,495	0	0	0	97	1,948
2022	4.46%	874	17,405	673	12,123	624	11,226	97	1,495	0	0	0	97	2,044
2023	4.46%	874	18,279	673	12,796	624	11,850	97	1,495	0	0	0	97	2,141
2024	4.46%	874	19,152	673	13,470	624	12,474	97	1,495	0	0	0	97	2,237
2025	2.23%	437	19,589	673	14,143	624	13,097	(72)	1,495	0	0	0	(72)	2,165
2026	0.00%	0	19,589	673	14,817	624	13,721	(241)	1,495	0	0	0	(241)	1,925
2027	0.00%	0	19,589	673	15,490	624	14,345	(241)	1,495	0	0	0	(241)	1,684
2028	0.00%	0	19,589	673	16,164	624	14,968	(241)	1,495	0	0	0	(241)	1,444
2029	0.00%	0	19,589	673	16,837	624	15,592	(241)	1,495	0	0	0	(241)	1,203
2030	0.00%	0	19,589	673	17,511	624	16,216	(241)	1,495	0	0	0	(241)	963
2031	0.00%	0	19,589	673	18,184	624	16,839	(241)	1,495	0	0	0	(241)	722
2032	0.00%	0	19,589	673	18,858	624	17,463	(241)	1,495	0	0	0	(241)	481
2033	0.00%	0	19,589	673	19,531	624	18,087	(241)	1,495	0	0	0	(241)	241
2034	0.00%	0	19,589	673	20,205	624	18,710	(241)	1,495	0	0	0	(241)	0

000038

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(339)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,495
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential Duct Repair : 2001 - 2004 installations

(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)
2005	3.75%	735	43	19,531	673	(296)	20,544	19,828	20,186
2006	7.22%	1,414	305	18,858	1,347	9	19,828	18,849	19,338
2007	6.68%	1,308	264	18,184	2,020	273	18,849	17,912	18,360
2008	6.18%	1,211	226	17,511	2,694	499	17,912	17,012	17,462
2009	5.71%	1,119	191	16,837	3,367	890	17,012	16,147	16,579
2010	5.29%	1,035	159	16,164	4,041	849	16,147	15,315	15,731
2011	4.89%	958	129	15,490	4,714	978	15,315	14,513	14,914
2012	4.52%	886	101	14,817	5,388	1,079	14,513	13,738	14,125
2013	4.46%	874	97	14,143	6,061	1,176	13,738	12,968	13,353
2014	4.46%	874	97	13,470	6,735	1,272	12,968	12,198	12,583
2015	4.46%	874	97	12,796	7,408	1,369	12,198	11,428	11,813
2016	4.46%	874	97	12,123	8,082	1,465	11,428	10,658	11,043
2017	4.46%	874	97	11,449	8,755	1,562	10,658	9,888	10,273
2018	4.46%	874	97	10,776	9,429	1,658	9,888	9,118	9,503
2019	4.46%	874	97	10,102	10,102	1,755	9,118	8,348	8,733
2020	4.46%	874	97	9,429	10,776	1,851	8,348	7,578	7,963
2021	4.46%	874	97	8,755	11,449	1,948	7,578	6,808	7,193
2022	4.46%	874	97	8,082	12,123	2,044	6,808	6,038	6,423
2023	4.46%	874	97	7,408	12,796	2,141	6,038	5,268	5,653
2024	4.46%	874	97	6,735	13,470	2,237	5,268	4,498	4,883
2025	2.23%	437	(72)	6,061	14,143	2,165	4,498	3,896	4,197
2026	0.00%	0	(241)	5,388	14,817	1,925	3,896	3,463	3,680
2027	0.00%	0	(241)	4,714	15,490	1,684	3,463	3,030	3,247
2028	0.00%	0	(241)	4,041	16,164	1,444	3,030	2,597	2,814
2029	0.00%	0	(241)	3,367	16,837	1,203	2,597	2,164	2,381
2030	0.00%	0	(241)	2,694	17,511	963	2,164	1,731	1,948
2031	0.00%	0	(241)	2,020	18,184	722	1,731	1,299	1,515
2032	0.00%	0	(241)	1,347	18,858	481	1,299	866	1,082
2033	0.00%	0	(241)	673	19,531	241	866	433	649
2034	0.00%	0	(241)	(0)	20,205	0	433	0	216

000039

\* 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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.016	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.061	0.65%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00%      582.24

(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)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.46	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	5.09	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	24.80	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	72.53	34.44	52.57	(7.17)	(10.98)	342.23	654.77

24.09      72.53      52.57      (10.98)      654.77

040000

IN SERVICE YEAR      2005  
PLANT COSTS      519  
AFUDC RATE      10.30%

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	17,967	17,967	17,967
EQUITY AFUDC	1,495		
DEBT AFUDC	744	744	
CPI			1,622
<b>TOTAL</b>	<b>20,205</b>	<b>18,710</b>	<b>19,589</b>

\* Column not specified in workbook

INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Residential Duct Repair : 2001 - 2004 Installations

(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
1998	0	0	2.00	2.31	2.07	0.00	1.00	1.00
1999	0	0	2.23	2.82	2.35	0.00	1.00	1.00
2000	0	0	2.45	2.91	2.59	0.00	1.00	1.00
2001	29,133	29,133	2.73	3.39	2.92	0.00	1.00	1.00
2002	58,855	58,855	2.61	3.14	2.80	0.00	1.00	1.00
2003	89,145	89,145	2.60	3.25	2.78	0.00	1.00	1.00
2004	119,991	119,991	2.78	3.50	2.99	0.00	1.00	1.00
2005	119,991	119,991	2.93	3.77	3.17	3.25	1.00	1.00
2006	119,991	119,991	3.01	3.88	3.26	3.34	1.00	1.00
2007	119,991	119,991	3.13	4.18	3.41	3.49	1.00	1.00
2008	119,991	119,991	3.07	4.06	3.33	3.45	1.00	1.00
2009	119,991	119,991	3.15	4.19	3.42	3.60	1.00	1.00
2010	119,991	119,991	3.14	4.31	3.41	3.57	1.00	1.00
2011	119,991	119,991	3.32	4.46	3.61	3.71	1.00	1.00
2012	119,991	119,991	3.38	4.60	3.69	3.77	1.00	1.00
2013	119,991	119,991	3.47	4.74	3.79	3.84	1.00	1.00
2014	119,991	119,991	3.55	4.86	3.86	3.92	1.00	1.00
2015	119,991	119,991	3.58	4.94	3.90	3.95	1.00	1.00
2016	119,991	119,991	3.62	5.03	3.93	4.00	1.00	1.00
2017	119,991	119,991	3.75	5.22	4.07	4.13	1.00	1.00
2018	119,991	119,991	3.93	5.52	4.29	4.35	1.00	1.00
2019	119,991	119,991	4.09	5.83	4.48	4.55	1.00	1.00
2020	119,991	119,991	4.23	6.05	4.64	4.79	1.00	1.00
2021	119,991	119,991	4.32	6.21	4.74	4.88	1.00	1.00
2022	119,991	119,991	4.41	6.38	4.85	4.97	1.00	1.00
2023	119,991	119,991	4.53	6.58	4.98	5.10	1.00	1.00
2024	119,991	119,991	4.64	6.78	5.11	5.23	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.

140000

**AVOIDED GENERATING BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: Residential Duct Repair : 2001 - 2004 Installations**

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	3,937	1,413	198	5,327	7,987	2,889
2006	3,813	1,469	210	5,582	8,449	2,625
2007	3,673	1,528	219	5,750	8,954	2,216
2008	3,539	1,589	224	5,817	8,835	2,335
2009	3,410	1,653	228	5,824	9,109	2,006
2010	3,286	1,719	225	5,670	8,700	2,201
2011	3,167	1,788	232	5,752	9,049	1,889
2012	3,052	1,859	239	5,919	9,193	1,876
2013	2,939	1,933	243	6,100	9,271	1,945
2014	2,826	2,011	248	6,278	9,370	1,993
2015	2,714	2,091	255	6,390	9,429	2,020
2016	2,601	2,175	260	6,497	9,459	2,075
2017	2,489	2,262	268	6,695	9,810	1,904
2018	2,376	2,352	277	6,900	10,363	1,543
2019	2,264	2,446	288	7,143	10,951	1,189
2020	2,151	2,544	296	7,357	11,533	815
2021	2,039	2,646	305	7,519	11,744	764
2022	1,926	2,752	313	7,693	11,968	717
2023	1,814	2,862	322	8,685	12,261	1,421
2024	1,701	2,976	332	8,685	12,579	1,115

NOM	55,719	42,068	5180	131,583	199,013	35,538
NPV	16,953	10,295	1319	33,705	51,215	11,057

000042

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential Duct Repair : 2001 - 2004 Installations

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	AVOIDED TRANSMISSION TOTAL COST \$(000)	AVOIDED DISTRIBUTION CAP COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	AVOIDED DISTRIBUTION TOTAL COST \$(000)	PROGRAM FUEL SAVINGS \$(000)	PROGRAM OFF-PEAK PAYBACK \$(000)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	271	0
2002	100	24	124	65	104	169	747	0
2003	202	50	252	131	219	350	1,322	0
2004	303	79	383	197	344	541	2,026	0
2005	405	111	516	263	482	745	2,524	0
2006	390	116	506	253	501	755	2,601	0
2007	375	120	495	244	521	765	2,845	0
2008	361	125	486	234	542	777	2,749	0
2009	347	130	477	225	564	789	2,847	0
2010	334	135	469	217	587	803	2,965	0
2011	321	141	461	208	610	818	3,038	0
2012	308	146	454	200	634	835	3,154	0
2013	296	152	448	192	660	852	3,256	0
2014	283	158	441	184	686	870	3,335	0
2015	270	165	435	176	714	889	3,404	0
2016	258	171	429	168	742	910	3,473	0
2017	245	178	423	159	772	931	3,612	0
2018	233	185	418	151	803	954	3,833	0
2019	220	193	413	143	835	978	4,069	0
2020	208	200	408	135	868	1,003	4,227	0
2021	195	208	403	127	903	1,030	4,343	0
2022	183	217	399	119	939	1,058	4,474	0
2023	172	225	397	112	977	1,088	4,617	0
2024	162	234	396	105	1,016	1,121	4,771	0

000043

NOM.	6,170	3,465	9,635	4,010	15,023	19,033	74,504	0
NPV	2,094	907	3,001	1,361	3,935	5,296	20,267	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 Duct Repair : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,270	6,305	0	7,575	0	0	271	0	271	(7,304)	(5,644)
2002	0	1,329	6,600	0	7,929	0	294	747	0	1,041	(6,888)	(10,528)
2003	0	1,391	6,908	0	8,299	0	602	1,322	0	1,924	(6,374)	(14,675)
2004	0	1,453	7,217	0	8,671	0	924	2,026	0	2,950	(5,721)	(18,091)
2005	0	0	0	0	0	2,889	1,261	2,524	0	6,675	6,675	(14,434)
2006	0	0	0	0	0	2,625	1,260	2,601	0	6,487	6,487	(11,172)
2007	0	0	0	0	0	2,216	1,260	2,845	0	6,322	6,322	(8,256)
2008	0	0	0	0	0	2,335	1,262	2,749	0	6,346	6,346	(5,569)
2009	0	0	0	0	0	2,006	1,266	2,847	0	6,119	6,119	(3,192)
2010	0	0	0	0	0	2,201	1,272	2,965	0	6,438	6,438	(897)
2011	0	0	0	0	0	1,889	1,280	3,038	0	6,207	6,207	1,133
2012	0	0	0	0	0	1,876	1,289	3,154	0	6,320	6,320	3,030
2013	0	0	0	0	0	1,945	1,300	3,256	0	6,500	6,500	4,821
2014	0	0	0	0	0	1,993	1,311	3,335	0	6,639	6,639	6,499
2015	0	0	0	0	0	2,020	1,324	3,404	0	6,749	6,749	8,065
2016	0	0	0	0	0	2,075	1,339	3,473	0	6,886	6,886	9,530
2017	0	0	0	0	0	1,904	1,355	3,612	0	6,871	6,871	10,872
2018	0	0	0	0	0	1,543	1,372	3,833	0	6,748	6,748	12,082
2019	0	0	0	0	0	1,189	1,391	4,069	0	6,649	6,649	13,175
2020	0	0	0	0	0	815	1,411	4,227	0	6,453	6,453	14,149
2021	0	0	0	0	0	764	1,433	4,343	0	6,540	6,540	15,055
2022	0	0	0	0	0	717	1,457	4,474	0	6,648	6,648	15,900
2023	0	0	0	0	0	1,421	1,485	4,617	0	7,524	7,524	16,777
2024	0	0	0	0	0	1,115	1,518	4,771	0	7,404	7,404	17,569
NOM	0	5,443	27,030	0	32,473	35,538	28,668	74,504	0	138,710	106,237	
NPV	0	3,696	18,356	0	22,052	11,057	8,297	20,267	0	39,621	17,569	

440000

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.80

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential Duct Repair : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	810	0	2,375	0	3,186	6,305	0	0	6,305	(3,120)	(2,410)
2002	2,446	0	2,424	0	4,869	6,600	0	0	6,600	(1,731)	(3,638)
2003	4,173	0	2,470	0	6,642	6,908	0	0	6,908	(265)	(3,811)
2004	5,912	0	2,515	0	8,428	7,217	0	0	7,217	1,210	(3,088)
2005	6,853	0	0	0	6,853	0	0	0	0	6,853	667
2006	6,843	0	0	0	6,843	0	0	0	0	6,843	4,107
2007	6,877	0	0	0	6,877	0	0	0	0	6,877	7,280
2008	6,906	0	0	0	6,906	0	0	0	0	6,906	10,204
2009	6,901	0	0	0	6,901	0	0	0	0	6,901	12,884
2010	7,060	0	0	0	7,060	0	0	0	0	7,060	15,401
2011	7,058	0	0	0	7,058	0	0	0	0	7,058	17,710
2012	7,116	0	0	0	7,116	0	0	0	0	7,116	19,846
2013	7,158	0	0	0	7,158	0	0	0	0	7,158	21,818
2014	7,243	0	0	0	7,243	0	0	0	0	7,243	23,648
2015	7,284	0	0	0	7,284	0	0	0	0	7,284	25,338
2016	7,336	0	0	0	7,336	0	0	0	0	7,336	26,899
2017	7,345	0	0	0	7,345	0	0	0	0	7,345	28,334
2018	7,392	0	0	0	7,392	0	0	0	0	7,392	29,659
2019	7,439	0	0	0	7,439	0	0	0	0	7,439	30,882
2020	7,486	0	0	0	7,486	0	0	0	0	7,486	32,012
2021	7,535	0	0	0	7,535	0	0	0	0	7,535	33,055
2022	7,583	0	0	0	7,583	0	0	0	0	7,583	34,019
2023	7,631	0	0	0	7,631	0	0	0	0	7,631	34,909
2024	7,679	0	0	0	7,679	0	0	0	0	7,679	35,731

NOM	158,065	0	9,784	0	167,849	27,030	0	0	27,030	140,818
NPV	47,424	0	6,863	0	54,086	18,356	0	0	18,356	35,731

In Service of Gen Unit: 2005  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) 2.95

570000



**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential Duct Repair : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,270	2,375	494	0	4,139	271	0	0	0	271	(3,868)	(2,989)
2002	0	1,329	2,424	1,492	0	5,244	747	294	0	0	1,041	(4,204)	(5,969)
2003	0	1,391	2,470	2,545	0	6,406	1,322	602	0	0	1,924	(4,482)	(8,886)
2004	0	1,453	2,515	3,607	0	7,575	2,026	924	0	0	2,950	(4,625)	(11,647)
2005	0	0	0	4,180	0	4,180	5,414	1,261	0	0	6,675	2,494	(10,280)
2006	0	0	0	4,174	0	4,174	5,226	1,260	0	0	6,487	2,313	(9,117)
2007	0	0	0	4,195	0	4,195	5,061	1,260	0	0	6,322	2,126	(8,136)
2008	0	0	0	4,213	0	4,213	5,083	1,262	0	0	6,346	2,133	(7,233)
2009	0	0	0	4,209	0	4,209	4,853	1,266	0	0	6,119	1,910	(6,491)
2010	0	0	0	4,307	0	4,307	5,166	1,272	0	0	6,438	2,131	(5,732)
2011	0	0	0	4,305	0	4,305	4,927	1,280	0	0	6,207	1,902	(5,109)
2012	0	0	0	4,341	0	4,341	5,030	1,289	0	0	6,320	1,979	(4,515)
2013	0	0	0	4,366	0	4,366	5,200	1,300	0	0	6,500	2,134	(3,928)
2014	0	0	0	4,418	0	4,418	5,328	1,311	0	0	6,639	2,221	(3,366)
2015	0	0	0	4,443	0	4,443	5,425	1,324	0	0	6,749	2,306	(2,831)
2016	0	0	0	4,475	0	4,475	5,547	1,339	0	0	6,886	2,412	(2,318)
2017	0	0	0	4,481	0	4,481	5,516	1,355	0	0	6,871	2,390	(1,851)
2018	0	0	0	4,509	0	4,509	5,376	1,372	0	0	6,748	2,239	(1,450)
2019	0	0	0	4,538	0	4,538	5,258	1,391	0	0	6,649	2,111	(1,103)
2020	0	0	0	4,567	0	4,567	5,042	1,411	0	0	6,453	1,887	(818)
2021	0	0	0	4,596	0	4,596	5,107	1,433	0	0	6,540	1,944	(549)
2022	0	0	0	4,626	0	4,626	5,190	1,457	0	0	6,648	2,022	(292)
2023	0	0	0	4,655	0	4,655	6,039	1,485	0	0	7,524	2,869	43
2024	0	0	0	4,684	0	4,684	5,886	1,518	0	0	7,404	2,720	334

940000

NOM.	0	5,443	9,784	96,419	0	111,646	110,042	28,668	0	0	138,710	27,064
NPV	0	3,696	6,663	28,928	0	39,287	31,324	8,297	0	0	39,621	334

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.01

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: DUCT SYSTEM TESTING AND REPAIR (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)	RSC-5A	RSC-5B
RATE CLASS: RS		
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 40.27	\$ 40.27
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 200.00	\$ 200.00
(6) CUSTOMER O&M COST	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 81.54	\$ 81.54
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

V. NON-FUEL ENERGY AND DEMAND CHARGES	RS
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

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INPUT DATA -- PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential Duct Repair : 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.20 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	0.28 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	488.3 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.61528
(5) K FACTOR FOR T & D.....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2008
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN. TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.27 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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

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\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential Duct Repair : 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	1,519	2,560	0	4,078	547	0	7,543	0	7,543	
2006	1,587	2,604	0	4,191	1,647	0	7,881	0	7,881	
2007	1,657	2,648	0	4,305	2,782	0	8,231	0	8,231	
2008	0	0	0	0	3,363	0	0	0	0	
2009	0	0	0	0	3,361	0	0	0	0	
2010	0	0	0	0	3,439	0	0	0	0	
2011	0	0	0	0	3,437	0	0	0	0	
2012	0	0	0	0	3,466	0	0	0	0	
2013	0	0	0	0	3,486	0	0	0	0	
2014	0	0	0	0	3,527	0	0	0	0	
2015	0	0	0	0	3,547	0	0	0	0	
2016	0	0	0	0	3,572	0	0	0	0	
2017	0	0	0	0	3,577	0	0	0	0	
2018	0	0	0	0	3,600	0	0	0	0	
2019	0	0	0	0	3,623	0	0	0	0	
2020	0	0	0	0	3,646	0	0	0	0	
2021	0	0	0	0	3,669	0	0	0	0	
2022	0	0	0	0	3,693	0	0	0	0	
2023	0	0	0	0	3,716	0	0	0	0	
2024	0	0	0	0	3,740	0	0	0	0	
2025	0	0	0	0	3,764	0	0	0	0	
2026	0	0	0	0	3,788	0	0	0	0	
2027	0	0	0	0	3,813	0	0	0	0	
NOM	4,763	7,811	0	12,574	76,804	0	23,655	0	23,655	
NPV	2,395	3,933	0	6,328	17,293	0	11,892	0	11,892	

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\* 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 Duct Repair : 2005 - 2007 Installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2008	17,191	588	0	1,182	732	241	574	36	3,353	3,353	3,353
2009	16,470	563	0	1,132	478	241	574	260	3,248	2,980	6,334
2010	15,654	535	0	1,076	478	241	574	225	3,129	2,634	8,968
2011	14,872	509	0	1,022	476	241	574	193	3,014	2,329	11,297
2012	14,120	483	0	971	474	241	574	163	2,904	2,059	13,357
2013	13,398	458	0	921	470	241	574	135	2,799	1,821	15,178
2014	12,702	434	0	873	465	241	574	110	2,697	1,610	16,788
2015	12,030	411	0	827	460	241	574	86	2,599	1,424	18,212
2016	11,372	389	0	782	435	241	574	82	2,503	1,258	19,470
2017	10,716	367	0	737	407	241	574	82	2,407	1,111	20,581
2018	10,061	344	0	692	379	241	574	82	2,311	978	21,559
2019	9,405	322	0	647	351	241	574	82	2,215	861	22,420
2020	8,749	299	0	601	322	241	574	82	2,120	756	23,176
2021	8,093	277	0	556	294	241	574	82	2,024	662	23,838
2022	7,437	254	0	511	266	241	574	82	1,928	579	24,416
2023	6,782	232	0	466	237	241	574	82	1,832	505	24,921
2024	6,126	210	0	421	209	241	574	82	1,736	439	25,360
2025	5,470	187	0	376	181	241	574	82	1,640	381	25,740
2026	4,814	165	0	331	152	241	574	82	1,545	329	26,069
2027	4,158	142	0	286	124	241	574	82	1,449	283	26,352
2028	3,574	122	0	246	242	241	574	(61)	1,363	244	26,597
2029	3,134	107	0	215	367	241	574	(205)	1,299	214	26,810
2030	2,765	95	0	190	351	241	574	(205)	1,245	188	26,998
2031	2,396	82	0	165	335	241	574	(205)	1,191	165	27,163
2032	2,028	69	0	139	319	241	574	(205)	1,137	145	27,308
2033	1,659	57	0	114	303	241	574	(205)	1,084	126	27,434
2034	1,290	44	0	89	287	241	574	(205)	1,030	110	27,544
2035	922	32	0	63	271	241	574	(205)	976	96	27,640
2036	553	19	0	38	255	241	574	(205)	922	83	27,723
2037	184	6	0	13	239	241	574	(205)	868	72	27,795

000050

IN SERVICE COS (\$000)	17,208
IN SERVICE YEAR	2008
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential Duct Repair : 2005 -

(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)	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)
2008	3.75%	626	626	574	574	531	531	36	1,274	0	0	0	36	(252)
2009	7.22%	1,204	1,830	574	1,147	531	1,062	260	1,274	0	0	0	260	7
2010	6.68%	1,114	2,944	574	1,721	531	1,593	225	1,274	0	0	0	225	232
2011	6.18%	1,031	3,975	574	2,294	531	2,124	193	1,274	0	0	0	193	425
2012	5.71%	953	4,928	574	2,868	531	2,656	163	1,274	0	0	0	163	588
2013	5.29%	882	5,809	574	3,442	531	3,187	135	1,274	0	0	0	135	723
2014	4.89%	815	6,625	574	4,015	531	3,718	110	1,274	0	0	0	110	833
2015	4.52%	754	7,379	574	4,589	531	4,249	86	1,274	0	0	0	86	919
2016	4.46%	744	8,124	574	5,162	531	4,780	82	1,274	0	0	0	82	1,001
2017	4.48%	744	8,868	574	5,736	531	5,311	82	1,274	0	0	0	82	1,083
2018	4.46%	744	9,612	574	6,309	531	5,842	82	1,274	0	0	0	82	1,165
2019	4.46%	744	10,356	574	6,883	531	6,373	82	1,274	0	0	0	82	1,248
2020	4.46%	744	11,101	574	7,457	531	6,905	82	1,274	0	0	0	82	1,330
2021	4.46%	744	11,845	574	8,030	531	7,436	82	1,274	0	0	0	82	1,412
2022	4.46%	744	12,589	574	8,604	531	7,967	82	1,274	0	0	0	82	1,494
2023	4.46%	744	13,334	574	9,177	531	8,498	82	1,274	0	0	0	82	1,576
2024	4.46%	744	14,078	574	9,751	531	9,029	82	1,274	0	0	0	82	1,659
2025	4.46%	744	14,822	574	10,325	531	9,560	82	1,274	0	0	0	82	1,741
2026	4.46%	744	15,566	574	10,898	531	10,091	82	1,274	0	0	0	82	1,823
2027	4.46%	744	16,311	574	11,472	531	10,622	82	1,274	0	0	0	82	1,905
2028	2.23%	372	16,683	574	12,045	531	11,153	(61)	1,274	0	0	0	(61)	1,844
2029	0.00%	0	16,683	574	12,619	531	11,685	(205)	1,274	0	0	0	(205)	1,639
2030	0.00%	0	16,683	574	13,192	531	12,216	(205)	1,274	0	0	0	(205)	1,434
2031	0.00%	0	16,683	574	13,766	531	12,747	(205)	1,274	0	0	0	(205)	1,229
2032	0.00%	0	16,683	574	14,340	531	13,278	(205)	1,274	0	0	0	(205)	1,025
2033	0.00%	0	16,683	574	14,913	531	13,809	(205)	1,274	0	0	0	(205)	820
2034	0.00%	0	16,683	574	15,487	531	14,340	(205)	1,274	0	0	0	(205)	615
2035	0.00%	0	16,683	574	16,060	531	14,871	(205)	1,274	0	0	0	(205)	410
2036	0.00%	0	16,683	574	16,634	531	15,402	(205)	1,274	0	0	0	(205)	205
2037	0.00%	0	16,683	574	17,208	531	15,934	(205)	1,274	0	0	0	(205)	0

000051

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(289)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,274
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential Duct Repair : 2005 - 2007 Installations

(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)
2008	3.75%	626	36	16,634	574	(252)	17,496	16,886	17,191
2009	7.22%	1,204	260	16,060	1,147	7	16,886	16,053	16,470
2010	6.68%	1,114	225	15,487	1,721	232	16,053	15,255	15,654
2011	6.18%	1,031	193	14,913	2,294	425	15,255	14,488	14,872
2012	5.71%	953	163	14,340	2,868	588	14,488	13,752	14,120
2013	5.29%	882	135	13,766	3,442	723	13,752	13,043	13,398
2014	4.89%	815	110	13,192	4,015	833	13,043	12,360	12,702
2015	4.52%	754	86	12,619	4,589	919	12,360	11,700	12,030
2016	4.46%	744	82	12,045	5,162	1,001	11,700	11,044	11,372
2017	4.46%	744	82	11,472	5,736	1,083	11,044	10,389	10,716
2018	4.46%	744	82	10,898	6,309	1,165	10,389	9,733	10,061
2019	4.46%	744	82	10,325	6,883	1,248	9,733	9,077	9,405
2020	4.46%	744	82	9,751	7,457	1,330	9,077	8,421	8,749
2021	4.46%	744	82	9,177	8,030	1,412	8,421	7,765	8,093
2022	4.46%	744	82	8,604	8,604	1,494	7,765	7,109	7,437
2023	4.46%	744	82	8,030	9,177	1,576	7,109	6,454	6,782
2024	4.46%	744	82	7,457	9,751	1,659	6,454	5,798	6,126
2025	4.46%	744	82	6,883	10,325	1,741	5,798	5,142	5,470
2026	4.46%	744	82	6,309	10,898	1,823	5,142	4,486	4,814
2027	4.46%	744	82	5,736	11,472	1,905	4,486	3,830	4,158
2028	2.23%	372	(61)	5,162	12,045	1,844	3,830	3,318	3,574
2029	0.00%	0	(205)	4,589	12,619	1,639	3,318	2,949	3,134
2030	0.00%	0	(205)	4,015	13,192	1,434	2,949	2,581	2,765
2031	0.00%	0	(205)	3,442	13,766	1,229	2,581	2,212	2,396
2032	0.00%	0	(205)	2,868	14,340	1,025	2,212	1,843	2,028
2033	0.00%	0	(205)	2,294	14,913	820	1,843	1,475	1,659
2034	0.00%	0	(205)	1,721	15,487	615	1,475	1,106	1,290
2035	0.00%	0	(205)	1,147	16,060	410	1,106	737	922
2036	0.00%	0	(205)	574	16,634	205	737	369	553
2037	0.00%	0	(205)	0	17,208	0	369	0	184

000052

\* 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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.10	0.07	0.07	(0.01)	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.49	0.29	0.36	(0.06)	(0.08)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	5.44	3.64	4.00	(0.77)	(0.85)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	28.50	15.37	19.37	(3.23)	(4.08)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	56.12	(7.65)	(11.72)	364.72	698.45
		25.72		77.43		56.12		(11.72)		698.45		

000053

IN SERVICE YEAR 2008  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	15,300	15,300	15,300
EQUITY AFUDC	1,274		
DEBT AFUDC	634	634	
CPI			1,383
<b>TOTAL</b>	<b>17,208</b>	<b>15,934</b>	<b>16,682</b>

\* Column not specified in workbook



INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Residential Duct Repair : 2005 - 2007 Installations

(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 KW EFFECTIVENESS FACTOR
1998	0	0	2.00	2.31	2.07	0.00	1.00	1.00
1999	0	0	2.23	2.62	2.35	0.00	1.00	1.00
2000	0	0	2.45	2.91	2.59	0.00	1.00	1.00
2001	0	0	2.73	3.39	2.92	0.00	1.00	1.00
2002	0	0	2.61	3.14	2.80	0.00	1.00	1.00
2003	0	0	2.60	3.25	2.78	0.00	1.00	1.00
2004	0	0	2.78	3.50	2.99	0.00	1.00	1.00
2005	31,391	31,391	2.84	3.65	3.05	0.00	1.00	1.00
2006	63,325	63,325	2.91	3.77	3.14	0.00	1.00	1.00
2007	95,799	95,799	3.02	4.01	3.27	0.00	1.00	1.00
2008	95,799	95,799	3.07	4.06	3.33	3.49	1.00	1.00
2009	95,799	95,799	3.14	4.19	3.42	3.69	1.00	1.00
2010	95,799	95,799	3.14	4.31	3.41	3.64	1.00	1.00
2011	95,799	95,799	3.31	4.46	3.61	3.75	1.00	1.00
2012	95,799	95,799	3.38	4.60	3.68	3.81	1.00	1.00
2013	95,799	95,799	3.47	4.74	3.78	3.86	1.00	1.00
2014	95,799	95,799	3.55	4.86	3.86	3.92	1.00	1.00
2015	95,799	95,799	3.58	4.94	3.89	3.94	1.00	1.00
2016	95,799	95,799	3.62	5.03	3.93	3.98	1.00	1.00
2017	95,799	95,799	3.75	5.22	4.07	4.12	1.00	1.00
2018	95,799	95,799	3.93	5.52	4.29	4.33	1.00	1.00
2019	95,799	95,799	4.09	5.83	4.48	4.54	1.00	1.00
2020	95,799	95,799	4.23	6.05	4.64	4.76	1.00	1.00
2021	95,799	95,799	4.34	6.24	4.76	4.88	1.00	1.00
2022	95,799	95,799	4.45	6.43	4.88	5.00	1.00	1.00
2023	95,799	95,799	4.56	6.63	5.01	5.13	1.00	1.00
2024	95,799	95,799	4.67	6.84	5.14	5.27	1.00	1.00
2025	95,799	95,799	4.80	7.06	5.29	5.42	1.00	1.00
2026	95,799	95,799	4.94	7.31	5.45	5.59	1.00	1.00
2027	95,799	95,799	5.07	7.31	5.45	5.59	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.

000054

AVOIDED GENERATING BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential Duct Repair : 2005 - 2007 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	3,353	1,259	175	4,531	6,965	2,353
2009	3,248	1,310	173	4,427	7,078	2,080
2010	3,129	1,362	172	4,345	6,775	2,233
2011	3,014	1,416	182	4,518	7,169	1,962
2012	2,904	1,473	187	4,641	7,277	1,928
2013	2,799	1,532	194	4,880	7,436	1,969
2014	2,697	1,593	201	5,107	7,596	2,002
2015	2,599	1,657	207	5,198	7,639	2,022
2016	2,503	1,723	213	5,345	7,729	2,056
2017	2,407	1,792	219	5,489	7,994	1,913
2018	2,311	1,864	226	5,643	8,437	1,607
2019	2,215	1,939	234	5,817	8,877	1,328
2020	2,120	2,016	241	5,992	9,308	1,060
2021	2,024	2,097	248	6,149	9,533	985
2022	1,928	2,181	255	6,310	9,771	903
2023	1,832	2,268	262	6,465	10,027	800
2024	1,736	2,359	270	6,614	10,301	678
2025	1,640	2,453	277	6,769	10,604	536
2026	1,545	2,551	286	6,927	10,937	370
2027	1,449	2,653	294	7,085	10,937	543
NOM	47,454	37,497	4514	112,253	172,390	29,328
NPV	11,156	7,091	877	21,971	33,731	7,384

000055

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential Duct Repair : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	320	0
2006	117	30	147	76	131	207	998	0
2007	234	63	297	152	275	427	1,802	0
2008	351	100	451	228	433	661	2,194	0
2009	338	104	442	220	450	670	2,273	0
2010	325	108	433	211	468	679	2,368	0
2011	313	112	425	203	487	690	2,426	0
2012	301	117	417	195	506	702	2,519	0
2013	289	121	411	188	527	715	2,598	0
2014	278	126	404	181	548	729	2,662	0
2015	267	131	399	174	570	743	2,718	0
2016	257	137	393	167	593	759	2,772	0
2017	246	142	388	160	616	776	2,884	0
2018	235	148	383	153	641	794	3,061	0
2019	225	154	378	146	667	812	3,249	0
2020	214	160	374	139	693	832	3,374	0
2021	203	166	369	132	721	853	3,486	0
2022	192	173	365	125	750	875	3,601	0
2023	182	180	362	118	780	898	3,721	0
2024	171	187	358	111	811	922	3,847	0
2025	160	194	355	104	843	948	3,982	0
2026	150	202	352	98	877	975	4,129	0
2027	141	210	352	92	912	1,004	4,088	0
NOM.	5,189	3,067	8,256	3,372	13,299	16,671	65,070	0
NPV	1,314	607	1,921	854	2,631	3,485	13,365	0

000056

\* 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 Duct Repair : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,519	7,543	0	9,062	0	0	320	0	320	(8,743)	(4,790)
2006	0	1,587	7,881	0	9,468	0	354	998	0	1,352	(8,116)	(8,870)
2007	0	1,657	8,231	0	9,888	0	725	1,802	0	2,527	(7,361)	(12,266)
2008	0	0	0	0	0	2,353	1,112	2,194	0	5,659	5,659	(9,871)
2009	0	0	0	0	0	2,080	1,112	2,273	0	5,464	5,464	(7,748)
2010	0	0	0	0	0	2,233	1,112	2,368	0	5,713	5,713	(5,711)
2011	0	0	0	0	0	1,962	1,115	2,426	0	5,503	5,503	(3,911)
2012	0	0	0	0	0	1,928	1,119	2,519	0	5,566	5,566	(2,240)
2013	0	0	0	0	0	1,969	1,125	2,598	0	5,692	5,692	(672)
2014	0	0	0	0	0	2,002	1,133	2,662	0	5,797	5,797	793
2015	0	0	0	0	0	2,022	1,142	2,718	0	5,882	5,882	2,157
2016	0	0	0	0	0	2,056	1,153	2,772	0	5,981	5,981	3,430
2017	0	0	0	0	0	1,913	1,164	2,884	0	5,961	5,961	4,595
2018	0	0	0	0	0	1,607	1,177	3,061	0	5,845	5,845	5,642
2019	0	0	0	0	0	1,328	1,191	3,249	0	5,767	5,767	6,591
2020	0	0	0	0	0	1,060	1,206	3,374	0	5,640	5,640	7,442
2021	0	0	0	0	0	985	1,222	3,486	0	5,693	5,693	8,230
2022	0	0	0	0	0	903	1,240	3,601	0	5,744	5,744	8,960
2023	0	0	0	0	0	800	1,260	3,721	0	5,780	5,780	9,634
2024	0	0	0	0	0	678	1,280	3,847	0	5,805	5,805	10,256
2025	0	0	0	0	0	536	1,303	3,982	0	5,821	5,821	10,827
2026	0	0	0	0	0	370	1,327	4,129	0	5,826	5,826	11,352
2027	0	0	0	0	0	543	1,355	4,088	0	5,986	5,986	11,847
NOM	0	4,763	23,655	0	28,418	29,328	24,927	65,070	0	119,324	90,907	
NPV	0	2,395	11,892	0	14,287	7,364	5,405	13,365	0	26,134	11,847	

000057

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.83

**PARTICIPANT COSTS AND BENEFITS**  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME Residential Duct Repair : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	896	0	2,560	0	3,456	7,543	0	0	7,543	(4,087)	(2,239)
2006	2,701	0	2,604	0	5,304	7,881	0	0	7,881	(2,576)	(3,535)
2007	4,560	0	2,648	0	7,208	8,231	0	0	8,231	(1,023)	(4,006)
2008	5,514	0	0	0	5,514	0	0	0	0	5,514	(1,672)
2009	5,509	0	0	0	5,509	0	0	0	0	5,509	468
2010	5,637	0	0	0	5,637	0	0	0	0	5,637	2,478
2011	5,635	0	0	0	5,635	0	0	0	0	5,635	4,321
2012	5,681	0	0	0	5,681	0	0	0	0	5,681	6,026
2013	5,715	0	0	0	5,715	0	0	0	0	5,715	7,600
2014	5,782	0	0	0	5,782	0	0	0	0	5,782	9,062
2015	5,815	0	0	0	5,815	0	0	0	0	5,815	10,411
2016	5,857	0	0	0	5,857	0	0	0	0	5,857	11,657
2017	5,864	0	0	0	5,864	0	0	0	0	5,864	12,803
2018	5,901	0	0	0	5,901	0	0	0	0	5,901	13,860
2019	5,939	0	0	0	5,939	0	0	0	0	5,939	14,837
2020	5,977	0	0	0	5,977	0	0	0	0	5,977	15,739
2021	6,016	0	0	0	6,016	0	0	0	0	6,016	16,572
2022	6,054	0	0	0	6,054	0	0	0	0	6,054	17,342
2023	6,093	0	0	0	6,093	0	0	0	0	6,093	18,052
2024	6,131	0	0	0	6,131	0	0	0	0	6,131	18,708
2025	6,170	0	0	0	6,170	0	0	0	0	6,170	19,314
2026	6,210	0	0	0	6,210	0	0	0	0	6,210	19,874
2027	6,250	0	0	0	6,250	0	0	0	0	6,250	20,391
NOM	125,908	0	7,811	0	133,720	23,655	0	0	23,655	110,065	
NPV	28,350	0	3,933	0	32,283	11,892	0	0	11,892	20,391	

850058

In Service of Gen Unit: 2008  
Discount Rate : 8.98 %  
Benefit/Cost Ratio ( Col(6) / Col(10)) 2.71

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential Duct Repair : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,270	2,375	494	0	4,139	271	0	0	271	(3,868)	(2,989)	
2002	0	1,329	2,424	1,492	0	5,244	747	294	0	1,041	(4,204)	(5,969)	
2003	0	1,391	2,470	2,545	0	6,406	1,322	602	0	1,924	(4,482)	(8,886)	
2004	0	1,453	2,515	3,607	0	7,575	2,026	924	0	2,950	(4,625)	(11,647)	
2005	0	0	0	4,180	0	4,180	5,414	1,261	0	6,675	2,494	(10,280)	
2006	0	0	0	4,174	0	4,174	5,226	1,260	0	6,487	2,313	(9,117)	
2007	0	0	0	4,195	0	4,195	5,061	1,260	0	6,322	2,126	(8,136)	
2008	0	0	0	4,213	0	4,213	5,083	1,262	0	6,346	2,133	(7,233)	
2009	0	0	0	4,209	0	4,209	4,853	1,266	0	6,119	1,910	(6,491)	
2010	0	0	0	4,307	0	4,307	5,166	1,272	0	6,438	2,131	(5,732)	
2011	0	0	0	4,305	0	4,305	4,927	1,280	0	6,207	1,902	(5,109)	
2012	0	0	0	4,341	0	4,341	5,030	1,289	0	6,320	1,979	(4,515)	
2013	0	0	0	4,366	0	4,366	5,200	1,300	0	6,500	2,134	(3,928)	
2014	0	0	0	4,418	0	4,418	5,328	1,311	0	6,639	2,221	(3,366)	
2015	0	0	0	4,443	0	4,443	5,425	1,324	0	6,749	2,306	(2,831)	
2016	0	0	0	4,475	0	4,475	5,547	1,339	0	6,886	2,412	(2,318)	
2017	0	0	0	4,481	0	4,481	5,516	1,355	0	6,871	2,390	(1,851)	
2018	0	0	0	4,509	0	4,509	5,376	1,372	0	6,748	2,239	(1,450)	
2019	0	0	0	4,538	0	4,538	5,258	1,391	0	6,649	2,111	(1,103)	
2020	0	0	0	4,567	0	4,567	5,042	1,411	0	6,453	1,887	(818)	
2021	0	0	0	4,596	0	4,596	5,107	1,433	0	6,540	1,944	(549)	
2022	0	0	0	4,626	0	4,626	5,190	1,457	0	6,648	2,022	(292)	
2023	0	0	0	4,655	0	4,655	6,039	1,485	0	7,524	2,869	43	
2024	0	0	0	4,684	0	4,684	5,886	1,518	0	7,404	2,720	334	

NOM.	0	5,443	9,784	96,419	0	111,646	110,042	28,668	0	0	138,710	27,064
NPV	0	3,696	6,663	28,928	0	39,287	31,324	8,297	0	0	39,621	334

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.01

650059

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: DUCT SYSTEM TESTING AND REPAIR (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)	RSC-5A	RSC-5B
RATE CLASS: RS		
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 40.27	\$ 40.27
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 200.00	\$ 200.00
(6) CUSTOMER O&M COST	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 81.54	\$ 81.54
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%
V. NON-FUEL ENERGY AND DEMAND CHARGES		
	RS	
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.571	
(2) NON FUEL ESCALATION RATE	0.0%	
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	
(4) DEMAND CHARGE ESCALATION RATE	N/A	

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

090000

190000  
000061

**RESIDENTIAL AIR CONDITIONING**

NPV END 1998 (\$000)

<u>YEARS</u>	<u>RATE IMPACT TEST</u>			<u>PARTICIPANT TEST</u>			<u>TOTAL RESOURCE COST TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 262,973	\$ 247,109	1.06	\$ 374,537	\$ 137,228	2.73	\$ 262,973	\$ 143,536	1.83



INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential HVAC : 2001 - 2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.44 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	0.56 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1,354.7 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.61524
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.17 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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

000062

\* INPUT DATA – PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential HVAC : 2001 - 2004 installations

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)
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	881	5,293	0	6,174	2,130	0	19,171	0	0	19,171
2002	944	5,522	0	6,465	6,478	0	20,521	0	0	20,521
2003	1,006	5,733	0	6,739	11,162	0	21,883	0	0	21,883
2004	1,068	5,932	0	7,000	15,965	0	23,228	0	0	23,228
2005	0	0	0	0	18,578	0	0	0	0	0
2006	0	0	0	0	18,549	0	0	0	0	0
2007	0	0	0	0	18,643	0	0	0	0	0
2008	0	0	0	0	18,721	0	0	0	0	0
2009	0	0	0	0	18,706	0	0	0	0	0
2010	0	0	0	0	19,140	0	0	0	0	0
2011	0	0	0	0	19,132	0	0	0	0	0
2012	0	0	0	0	19,290	0	0	0	0	0
2013	0	0	0	0	19,403	0	0	0	0	0
2014	0	0	0	0	19,633	0	0	0	0	0
2015	0	0	0	0	19,745	0	0	0	0	0
2016	1,330	5,293	0	6,623	19,885	0	28,925	0	0	28,925
2017	1,428	5,522	0	6,950	19,912	0	31,053	0	0	31,053
2018	1,525	5,733	0	7,259	20,038	0	33,177	0	0	33,177
2019	1,624	5,932	0	7,555	20,166	0	35,319	0	0	35,319
2020	0	0	0	0	20,294	0	0	0	0	0
2021	0	0	0	0	20,425	0	0	0	0	0
2022	0	0	0	0	20,556	0	0	0	0	0
2023	0	0	0	0	20,687	0	0	0	0	0
2024	0	0	0	0	20,817	0	0	0	0	0

000063

NOM	9,806	44,959	0	54,765	428,056	0	213,277	0	0	213,277
NPV	3,745	19,485	0	23,230	128,265	0	81,448	0	0	81,448

\* 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 HVAC : 2001 - 2004 Installations

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2005	70,340	2,406	0	4,836	2,997	986	2,347	149	13,720	13,720	13,720
2006	67,388	2,305	0	4,633	1,956	986	2,347	1,063	13,289	12,194	25,914
2007	64,050	2,190	0	4,403	1,955	986	2,347	920	12,801	10,779	36,693
2008	60,848	2,081	0	4,183	1,947	986	2,347	789	12,333	9,530	46,223
2009	57,774	1,976	0	3,972	1,937	986	2,347	666	11,884	8,426	54,649
2010	54,817	1,875	0	3,769	1,923	986	2,347	553	11,452	7,451	62,101
2011	51,969	1,777	0	3,573	1,904	986	2,347	449	11,036	6,589	68,690
2012	49,222	1,683	0	3,384	1,882	986	2,347	352	10,634	5,826	74,516
2013	46,531	1,591	0	3,199	1,781	986	2,347	337	10,241	5,149	79,665
2014	43,847	1,500	0	3,014	1,666	986	2,347	336	9,849	4,544	84,208
2015	41,164	1,408	0	2,830	1,550	986	2,347	337	9,457	4,004	88,212
2016	38,481	1,316	0	2,646	1,434	986	2,347	336	9,065	3,521	91,733
2017	35,797	1,224	0	2,461	1,318	986	2,347	337	8,673	3,092	94,825
2018	33,114	1,132	0	2,277	1,202	986	2,347	336	8,280	2,709	97,534
2019	30,431	1,041	0	2,092	1,086	986	2,347	337	7,888	2,368	99,902
2020	27,747	949	0	1,908	971	986	2,347	336	7,496	2,065	101,967
2021	25,064	857	0	1,723	855	986	2,347	337	7,104	1,796	103,762
2022	22,381	765	0	1,539	739	986	2,347	336	6,712	1,557	105,319
2023	19,697	674	0	1,354	623	986	2,347	337	6,320	1,345	106,664
2024	17,014	582	0	1,170	507	986	2,347	336	5,928	1,158	107,822
2025	14,624	500	0	1,005	991	986	2,347	(251)	5,579	1,000	108,822
2026	12,822	439	0	882	1,501	986	2,347	(838)	5,315	874	109,696
2027	11,313	387	0	778	1,436	986	2,347	(838)	5,095	769	110,465
2028	9,805	335	0	674	1,371	986	2,347	(838)	4,874	675	111,140
2029	8,296	284	0	570	1,306	986	2,347	(838)	4,654	591	111,731
2030	6,788	232	0	467	1,240	986	2,347	(838)	4,433	517	112,248
2031	5,279	181	0	363	1,175	986	2,347	(838)	4,213	451	112,699
2032	3,771	129	0	259	1,110	986	2,347	(838)	3,993	392	113,091
2033	2,262	77	0	156	1,045	986	2,347	(838)	3,772	340	113,431
2034	753	26	0	52	980	986	2,347	(838)	3,552	294	113,725

490000

IN SERVICE COS (\$000)	70,407
IN SERVICE YEAR	2005
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential HVAC : 2001 - 2004

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX \$(000)	ACCUMULATED TAX \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	DEFERRED TAX FOR DEFERRED DEPRECIATION \$(000)	DEFERRED TAX FOR DEFERRED DEPRECIATION \$(000)	TAX DUE TO DEFERRED 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)
2005	3.75%	2,560	2,560	2,347	2,347	2,173	2,173	149	5,208	0	0	0	149	(1,032)
2006	7.22%	4,928	7,487	2,347	4,694	2,173	4,347	1,063	5,208	0	0	0	1,063	31
2007	6.68%	4,558	12,045	2,347	7,041	2,173	6,520	920	5,208	0	0	0	920	950
2008	6.18%	4,219	16,264	2,347	9,388	2,173	8,693	789	5,208	0	0	0	789	1,739
2009	5.71%	3,900	20,163	2,347	11,735	2,173	10,866	666	5,208	0	0	0	666	2,405
2010	5.29%	3,608	23,771	2,347	14,081	2,173	13,040	553	5,208	0	0	0	553	2,959
2011	4.89%	3,337	27,108	2,347	16,428	2,173	15,213	449	5,208	0	0	0	449	3,407
2012	4.52%	3,087	30,194	2,347	18,775	2,173	17,386	352	5,208	0	0	0	352	3,760
2013	4.46%	3,046	33,240	2,347	21,122	2,173	19,560	337	5,208	0	0	0	337	4,096
2014	4.46%	3,045	36,285	2,347	23,469	2,173	21,733	336	5,208	0	0	0	336	4,433
2015	4.46%	3,046	39,331	2,347	25,816	2,173	23,906	337	5,208	0	0	0	337	4,769
2016	4.46%	3,045	42,378	2,347	28,163	2,173	26,080	336	5,208	0	0	0	336	5,105
2017	4.46%	3,046	45,422	2,347	30,510	2,173	28,253	337	5,208	0	0	0	337	5,442
2018	4.46%	3,045	48,467	2,347	32,857	2,173	30,426	336	5,208	0	0	0	336	5,778
2019	4.46%	3,046	51,513	2,347	35,204	2,173	32,599	337	5,208	0	0	0	337	6,115
2020	4.46%	3,045	54,558	2,347	37,551	2,173	34,773	336	5,208	0	0	0	336	6,451
2021	4.46%	3,046	57,604	2,347	39,897	2,173	36,946	337	5,208	0	0	0	337	6,788
2022	4.46%	3,045	60,649	2,347	42,244	2,173	39,119	336	5,208	0	0	0	336	7,124
2023	4.46%	3,046	63,695	2,347	44,591	2,173	41,293	337	5,208	0	0	0	337	7,461
2024	4.46%	3,045	66,740	2,347	46,938	2,173	43,466	336	5,208	0	0	0	336	7,797
2025	2.23%	1,523	68,263	2,347	49,285	2,173	45,639	(251)	5,208	0	0	0	(251)	7,546
2026	0.00%	0	68,263	2,347	51,632	2,173	47,813	(838)	5,208	0	0	0	(838)	6,708
2027	0.00%	0	68,263	2,347	53,979	2,173	49,986	(838)	5,208	0	0	0	(838)	5,869
2028	0.00%	0	68,263	2,347	56,326	2,173	52,159	(838)	5,208	0	0	0	(838)	5,031
2029	0.00%	0	68,263	2,347	58,673	2,173	54,332	(838)	5,208	0	0	0	(838)	4,193
2030	0.00%	0	68,263	2,347	61,020	2,173	56,506	(838)	5,208	0	0	0	(838)	3,354
2031	0.00%	0	68,263	2,347	63,367	2,173	58,679	(838)	5,208	0	0	0	(838)	2,516
2032	0.00%	0	68,263	2,347	65,713	2,173	60,852	(838)	5,208	0	0	0	(838)	1,677
2033	0.00%	0	68,263	2,347	68,060	2,173	63,026	(838)	5,208	0	0	0	(838)	839
2034	0.00%	0	68,263	2,347	70,407	2,173	65,199	(838)	5,208	0	0	0	(838)	1

000065

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,181)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	5,208
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential HVAC : 2001 - 2004 Installations

9900000

(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)
2005	3.75%	2,560	149	68,060	2,347	(1,032)	71,588	69,092	70,340
2006	7.22%	4,928	1,063	65,713	4,694	31	69,092	65,683	67,388
2007	6.68%	4,558	920	63,367	7,041	950	65,683	62,416	64,050
2008	6.18%	4,219	789	61,020	9,388	1,739	62,416	59,280	60,848
2009	5.71%	3,900	666	58,673	11,735	2,405	59,280	56,267	57,774
2010	5.29%	3,608	553	56,326	14,081	2,959	56,267	53,367	54,817
2011	4.89%	3,337	449	53,979	16,428	3,407	53,367	50,572	51,969
2012	4.52%	3,087	352	51,632	18,775	3,760	50,572	47,872	49,222
2013	4.46%	3,046	337	49,285	21,122	4,096	47,872	45,189	46,531
2014	4.46%	3,045	336	46,938	23,469	4,433	45,189	42,506	43,847
2015	4.46%	3,046	337	44,591	25,816	4,769	42,506	39,822	41,164
2016	4.46%	3,045	336	42,244	28,163	5,105	39,822	37,139	38,481
2017	4.46%	3,046	337	39,897	30,510	5,442	37,139	34,456	35,797
2018	4.46%	3,045	336	37,551	32,857	5,778	34,456	31,772	33,114
2019	4.46%	3,046	337	35,204	35,204	6,115	31,772	29,089	30,431
2020	4.46%	3,045	336	32,857	37,551	6,451	29,089	26,406	27,747
2021	4.46%	3,046	337	30,510	39,897	6,788	26,406	23,722	25,064
2022	4.46%	3,045	336	28,163	42,244	7,124	23,722	21,039	22,381
2023	4.46%	3,046	337	25,816	44,591	7,461	21,039	18,355	19,697
2024	4.46%	3,045	336	23,469	46,938	7,797	18,355	15,672	17,014
2025	2.23%	1,523	(251)	21,122	49,285	7,546	15,672	13,576	14,624
2026	0.00%	0	(838)	18,775	51,632	6,708	13,576	12,068	12,822
2027	0.00%	0	(838)	16,428	53,979	5,869	12,068	10,559	11,313
2028	0.00%	0	(838)	14,081	56,326	5,031	10,559	9,051	9,805
2029	0.00%	0	(838)	11,735	58,673	4,193	9,051	7,542	8,296
2030	0.00%	0	(838)	9,388	61,020	3,354	7,542	6,033	6,788
2031	0.00%	0	(838)	7,041	63,367	2,516	6,033	4,525	5,279
2032	0.00%	0	(838)	4,694	65,713	1,677	4,525	3,016	3,771
2033	0.00%	0	(838)	2,347	68,060	839	3,016	1,508	2,262
2034	0.00%	0	(838)	(0)	70,407	1	1,508	-1	753

\* 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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.061	0.65%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00% 582.24

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)* DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.46	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	5.09	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	24.80	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	72.53	34.44	52.57	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	62,608	62,608	62,608
EQUITY AFUDC	5,208		
DEBT AFUDC	2,591	2,591	
CPI			5,653
<b>TOTAL</b>	<b>70,407</b>	<b>65,199</b>	<b>68,261</b>

IN SERVICE YEAR 2005  
PLANT COSTS 519  
AFUDC RATE 10.30%

\* Column not specified in workbook

000067

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Residential HVAC : 2001 - 2004 Installations

(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 PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1998	0	0	2.00	2.28	2.08	0.00	1.00	1.00
1999	0	0	2.23	2.58	2.36	0.00	1.00	1.00
2000	0	0	2.45	2.87	2.61	0.00	1.00	1.00
2001	45,252	45,252	2.73	3.33	2.95	0.00	1.00	1.00
2002	92,464	92,464	2.61	3.12	2.83	0.00	1.00	1.00
2003	141,484	141,484	2.60	3.22	2.81	0.00	1.00	1.00
2004	192,198	192,198	2.78	3.47	3.02	0.00	1.00	1.00
2005	192,198	192,198	2.93	3.72	3.21	3.25	1.00	1.00
2006	192,198	192,198	3.01	3.84	3.30	3.34	1.00	1.00
2007	192,198	192,198	3.13	4.12	3.46	3.49	1.00	1.00
2008	192,198	192,198	3.07	4.01	3.38	3.45	1.00	1.00
2009	192,198	192,198	3.15	4.14	3.47	3.60	1.00	1.00
2010	192,198	192,198	3.14	4.24	3.46	3.57	1.00	1.00
2011	192,198	192,198	3.32	4.38	3.67	3.71	1.00	1.00
2012	192,198	192,198	3.38	4.52	3.74	3.77	1.00	1.00
2013	192,198	192,198	3.47	4.66	3.84	3.84	1.00	1.00
2014	192,198	192,198	3.55	4.77	3.92	3.92	1.00	1.00
2015	192,198	192,198	3.58	4.85	3.95	3.95	1.00	1.00
2016	192,198	192,198	3.62	4.94	3.98	4.00	1.00	1.00
2017	192,198	192,198	3.75	5.12	4.13	4.13	1.00	1.00
2018	192,198	192,198	3.93	5.41	4.35	4.35	1.00	1.00
2019	192,198	192,198	4.09	5.70	4.55	4.55	1.00	1.00
2020	192,198	192,198	4.23	5.91	4.72	4.79	1.00	1.00
2021	192,198	192,198	4.32	6.06	4.82	4.88	1.00	1.00
2022	192,198	192,198	4.41	6.22	4.93	4.97	1.00	1.00
2023	192,198	192,198	4.53	6.41	5.06	5.10	1.00	1.00
2024	192,198	192,198	4.64	6.60	5.19	5.23	1.00	1.00

890000

\* 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 HVAC : 2001 - 2004 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	13,720	4,923	691	18,563	27,830	10,067
2006	13,289	5,120	731	19,450	29,442	9,148
2007	12,801	5,325	762	20,036	31,201	7,723
2008	12,333	5,538	782	20,271	30,788	8,135
2009	11,884	5,759	793	20,296	31,741	6,992
2010	11,452	5,989	785	19,758	30,315	7,669
2011	11,036	6,229	808	20,043	31,534	6,582
2012	10,634	6,478	832	20,627	32,034	6,538
2013	10,241	6,737	847	21,257	32,306	6,776
2014	9,849	7,007	863	21,875	32,650	6,944
2015	9,457	7,287	887	22,266	32,857	7,040
2016	9,065	7,579	904	22,641	32,960	7,229
2017	8,673	7,882	934	23,331	34,184	6,635
2018	8,280	8,197	965	24,044	36,111	5,376
2019	7,888	8,525	1002	24,891	38,162	4,144
2020	7,496	8,866	1031	25,637	40,189	2,842
2021	7,104	9,220	1061	26,201	40,925	2,662
2022	6,712	9,589	1092	26,807	41,703	2,497
2023	6,320	9,973	1124	30,263	42,726	4,953
2024	5,928	10,372	1156	30,263	43,834	3,885

690000

NOM	194,161	146,594	18052	458,521	693,491	123,837
NPV	59,074	35,874	4597	117,451	178,467	38,530



AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential HVAC : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	1,139	0
2002	339	81	421	221	352	573	3,208	0
2003	690	172	862	448	748	1,196	5,730	0
2004	1,048	274	1,322	681	1,189	1,870	8,845	0
2005	1,413	387	1,800	918	1,680	2,598	11,018	0
2006	1,361	403	1,764	884	1,747	2,632	11,369	0
2007	1,308	419	1,728	850	1,817	2,667	12,358	0
2008	1,258	436	1,694	818	1,890	2,708	11,983	0
2009	1,210	453	1,664	787	1,965	2,752	12,410	0
2010	1,164	471	1,636	757	2,044	2,801	12,854	0
2011	1,119	490	1,610	727	2,126	2,853	13,167	0
2012	1,075	510	1,585	699	2,211	2,909	13,671	0
2013	1,031	530	1,562	670	2,299	2,969	14,109	0
2014	988	551	1,539	642	2,391	3,033	14,451	0
2015	944	573	1,517	613	2,487	3,100	14,751	0
2016	900	596	1,496	585	2,586	3,171	15,048	0
2017	856	620	1,477	557	2,690	3,246	15,621	0
2018	813	645	1,458	528	2,797	3,325	16,535	0
2019	769	671	1,440	500	2,909	3,409	17,504	0
2020	725	698	1,423	471	3,025	3,497	18,174	0
2021	681	726	1,407	443	3,146	3,589	18,660	0
2022	639	755	1,393	415	3,272	3,687	19,201	0
2023	600	785	1,385	390	3,403	3,793	19,802	0
2024	566	816	1,382	368	3,539	3,907	20,448	0
NOM.	21,498	12,064	33,562	13,972	52,314	66,286	322,058	0
NPV	7,283	3,157	10,440	4,733	13,688	18,421	87,827	0

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

000070

**TOTAL RESOURCE COST TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential HVAC : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	881	19,171	0	20,053	0	0	1,139	0	1,139	(18,913)	(14,614)
2002	0	944	20,521	0	21,465	0	993	3,208	0	4,202	(17,263)	(26,855)
2003	0	1,006	21,883	0	22,889	0	2,058	5,730	0	7,788	(15,100)	(36,680)
2004	0	1,068	23,228	0	24,296	0	3,192	8,845	0	12,037	(12,259)	(44,000)
2005	0	0	0	0	0	10,067	4,398	11,018	0	25,483	25,483	(30,038)
2006	0	0	0	0	0	9,148	4,395	11,369	0	24,912	24,912	(17,513)
2007	0	0	0	0	0	7,723	4,395	12,358	0	24,476	24,476	(6,221)
2008	0	0	0	0	0	8,135	4,402	11,983	0	24,520	24,520	4,160
2009	0	0	0	0	0	6,992	4,416	12,410	0	23,818	23,818	13,413
2010	0	0	0	0	0	7,669	4,436	12,854	0	24,959	24,959	22,310
2011	0	0	0	0	0	6,582	4,463	13,167	0	24,212	24,212	30,231
2012	0	0	0	0	0	6,538	4,495	13,671	0	24,703	24,703	37,646
2013	0	0	0	0	0	6,776	4,531	14,109	0	25,416	25,416	44,647
2014	0	0	0	0	0	6,944	4,572	14,451	0	25,967	25,967	51,211
2015	0	0	0	0	0	7,040	4,617	14,751	0	26,408	26,408	57,336
2016	0	1,330	28,925	0	30,255	7,229	4,668	15,048	0	26,944	(3,311)	56,632
2017	0	1,428	31,053	0	32,481	6,635	4,723	15,621	0	26,979	(5,502)	55,557
2018	0	1,525	33,177	0	34,702	5,376	4,783	16,535	0	26,693	(8,009)	54,122
2019	0	1,624	35,319	0	36,943	4,144	4,848	17,504	0	26,496	(10,447)	52,403
2020	0	0	0	0	0	2,842	4,919	18,174	0	25,935	25,935	56,317
2021	0	0	0	0	0	2,662	4,996	18,660	0	26,318	26,318	59,962
2022	0	0	0	0	0	2,497	5,081	19,201	0	26,779	26,779	63,365
2023	0	0	0	0	0	4,953	5,178	19,802	0	29,933	29,933	66,656
2024	0	0	0	0	0	3,885	5,290	20,448	0	29,623	29,623	70,026

000071

NOM	0	9,806	213,277	0	223,083	123,837	99,848	322,058	0	545,743	322,660
NPV	0	3,745	81,448	0	85,192	38,530	28,861	87,827	0	155,218	70,026

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.82

**PARTICIPANT COSTS AND BENEFITS**  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME Residential HVAC : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	3,491	0	5,293	0	8,784	19,171	0	0	19,171	(10,387)	(8,026)
2002	10,620	0	5,522	0	16,142	20,521	0	0	20,521	(4,380)	(11,132)
2003	18,299	0	5,733	0	24,032	21,883	0	0	21,883	2,150	(9,733)
2004	26,172	0	5,932	0	32,104	23,228	0	0	23,228	8,876	(4,433)
2005	30,456	0	0	0	30,456	0	0	0	0	30,456	12,253
2006	30,408	0	0	0	30,408	0	0	0	0	30,408	27,541
2007	30,563	0	0	0	30,563	0	0	0	0	30,563	41,641
2008	30,690	0	0	0	30,690	0	0	0	0	30,690	54,634
2009	30,666	0	0	0	30,666	0	0	0	0	30,666	66,547
2010	31,376	0	0	0	31,376	0	0	0	0	31,376	77,732
2011	31,364	0	0	0	31,364	0	0	0	0	31,364	87,992
2012	31,622	0	0	0	31,622	0	0	0	0	31,622	97,485
2013	31,809	0	0	0	31,809	0	0	0	0	31,809	106,247
2014	32,186	0	0	0	32,186	0	0	0	0	32,186	114,382
2015	32,369	0	0	0	32,369	0	0	0	0	32,369	121,890
2016	32,599	0	5,293	0	37,891	28,925	0	0	28,925	8,966	123,799
2017	32,642	0	5,522	0	38,164	31,053	0	0	31,053	7,111	125,188
2018	32,849	0	5,733	0	38,582	33,177	0	0	33,177	5,405	126,156
2019	33,059	0	5,932	0	38,991	35,319	0	0	35,319	3,671	126,760
2020	33,269	0	0	0	33,269	0	0	0	0	33,269	131,781
2021	33,484	0	0	0	33,484	0	0	0	0	33,484	136,418
2022	33,698	0	0	0	33,698	0	0	0	0	33,698	140,701
2023	33,912	0	0	0	33,912	0	0	0	0	33,912	144,655
2024	34,127	0	0	0	34,127	0	0	0	0	34,127	148,307

000072

NOM	701,731	0	44,959	0	746,690	213,277	0	0	213,277	533,412
NPV	210,270	0	19,485	0	229,755	81,448	0	0	81,448	148,307

In Service of Gen Unit: 2005  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) 2.82

**RATE IMPACT TEST**  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME Residential HVAC : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	881	5,293	2,130	0	8,304	1,139	0	0	0	1,139	(7,165)	(5,536)
2002	0	944	5,522	6,478	0	12,944	3,208	993	0	0	4,202	(8,742)	(11,735)
2003	0	1,006	5,733	11,162	0	17,902	5,730	2,058	0	0	7,788	(10,114)	(18,315)
2004	0	1,068	5,932	15,965	0	22,965	8,845	3,192	0	0	12,037	(10,928)	(24,840)
2005	0	0	0	18,578	0	18,578	21,085	4,398	0	0	25,483	6,906	(21,056)
2006	0	0	0	18,549	0	18,549	20,517	4,395	0	0	24,912	6,363	(17,857)
2007	0	0	0	18,643	0	18,643	20,081	4,395	0	0	24,476	5,832	(15,166)
2008	0	0	0	18,721	0	18,721	20,118	4,402	0	0	24,520	5,799	(12,711)
2009	0	0	0	18,706	0	18,706	19,402	4,416	0	0	23,818	5,112	(10,725)
2010	0	0	0	19,140	0	19,140	20,523	4,436	0	0	24,959	5,820	(8,651)
2011	0	0	0	19,132	0	19,132	19,749	4,463	0	0	24,212	5,079	(6,989)
2012	0	0	0	19,290	0	19,290	20,209	4,495	0	0	24,703	5,414	(5,364)
2013	0	0	0	19,403	0	19,403	20,885	4,531	0	0	25,416	6,013	(3,708)
2014	0	0	0	19,633	0	19,633	21,395	4,572	0	0	25,967	6,334	(2,107)
2015	0	0	0	19,745	0	19,745	21,791	4,617	0	0	26,408	6,664	(561)
2016	0	1,330	5,293	19,885	0	26,508	22,277	4,668	0	0	26,944	437	(468)
2017	0	1,428	5,522	19,912	0	26,862	22,256	4,723	0	0	26,979	117	(445)
2018	0	1,525	5,733	20,038	0	27,297	21,910	4,783	0	0	26,693	(603)	(553)
2019	0	1,624	5,932	20,166	0	27,722	21,648	4,848	0	0	26,496	(1,225)	(755)
2020	0	0	0	20,294	0	20,294	21,016	4,919	0	0	25,935	5,641	96
2021	0	0	0	20,425	0	20,425	21,322	4,996	0	0	26,318	5,893	912
2022	0	0	0	20,556	0	20,556	21,699	5,081	0	0	26,779	6,224	1,703
2023	0	0	0	20,687	0	20,687	24,756	5,178	0	0	29,933	9,247	2,782
2024	0	0	0	20,817	0	20,817	24,333	5,290	0	0	29,623	8,806	3,724

NOM.	0	9,806	44,959	428,056	0	482,821	445,895	99,848	0	0	545,743	62,923
NPV	0	3,745	19,485	128,265	0	151,494	126,358	28,861	0	0	155,218	3,724

Discount Rate 8.98 %  
Benefit/Cost Ratio (Col(12) / Col(7)) : 1.02

000073

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: RESIDENTIAL AIR CONDITIONING (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

RATE CLASS: RS

	RSC-1	RSC-2	RSC-21A
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 18.00	\$ 18.00	\$ 18.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 526.00	\$ 967.00	\$ 360.00
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 146.30	\$ 318.00	\$ 110.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

V. NON-FUEL ENERGY AND DEMAND CHARGES	RS
(1) NON FUEL COST IN CUSTOMER BILL (¢/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

000074

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential HVAC : 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.44 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	0.58 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1,354.7 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.81528
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2008
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.27 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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

000075

\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential HVAC : 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	1,132	6,120	0	7,252	2,529	0	24,614	0	24,614	
2006	1,197	6,304	0	7,501	7,652	0	26,038	0	26,038	
2007	1,265	6,485	0	7,750	12,994	0	27,510	0	27,510	
2008	0	0	0	0	15,749	0	0	0	0	
2009	0	0	0	0	15,737	0	0	0	0	
2010	0	0	0	0	16,101	0	0	0	0	
2011	0	0	0	0	16,095	0	0	0	0	
2012	0	0	0	0	16,228	0	0	0	0	
2013	0	0	0	0	16,323	0	0	0	0	
2014	0	0	0	0	16,517	0	0	0	0	
2015	0	0	0	0	16,610	0	0	0	0	
2016	0	0	0	0	16,729	0	0	0	0	
2017	0	0	0	0	16,751	0	0	0	0	
2018	0	0	0	0	16,857	0	0	0	0	
2019	0	0	0	0	16,965	0	0	0	0	
2020	1,724	6,120	0	7,844	17,073	0	37,500	0	37,500	
2021	1,828	6,304	0	8,132	17,183	0	39,747	0	39,747	
2022	1,935	6,485	0	8,420	17,293	0	42,076	0	42,076	
2023	0	0	0	0	17,403	0	0	0	0	
2024	0	0	0	0	17,513	0	0	0	0	
2025	0	0	0	0	17,625	0	0	0	0	
2026	0	0	0	0	17,739	0	0	0	0	
2027	0	0	0	0	17,853	0	0	0	0	
NOM	9,080	37,819	0	46,899	359,516	0	197,485	0	197,485	
NPV	2,565	12,135	0	14,700	80,915	0	55,780	0	55,780	

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

000076

CALCULATION OF GEN K-FACTOR  
 PROGRAM METHOD SELECTED REV\_REQ  
 PROGRAM NAME: Residential HVAC : 2005 - 2007 Installations

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	MID-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	OTHER TAXES & INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)
2008	63,123	2,159	0	4,340	2,689	885	2,106	134	12,312	12,312	12,312
2009	60,473	2,068	0	4,158	1,755	885	2,106	953	11,925	10,943	23,255
2010	57,477	1,966	0	3,952	1,754	885	2,106	825	11,487	9,673	32,928
2011	54,605	1,867	0	3,754	1,747	885	2,106	708	11,068	8,552	41,480
2012	51,846	1,773	0	3,564	1,739	885	2,106	598	10,665	7,562	49,042
2013	49,193	1,682	0	3,382	1,725	885	2,106	497	10,277	6,687	55,729
2014	46,637	1,595	0	3,206	1,709	885	2,106	403	9,903	5,913	61,642
2015	44,171	1,511	0	3,037	1,689	885	2,106	316	9,543	5,229	68,870
2016	41,756	1,428	0	2,871	1,599	885	2,106	302	9,190	4,620	71,491
2017	39,348	1,346	0	2,705	1,495	885	2,106	302	8,838	4,078	75,568
2018	36,940	1,263	0	2,540	1,391	885	2,106	302	8,486	3,593	79,161
2019	34,532	1,181	0	2,374	1,287	885	2,106	302	8,135	3,160	82,321
2020	32,124	1,099	0	2,209	1,183	885	2,106	302	7,783	2,774	85,095
2021	29,716	1,016	0	2,043	1,079	885	2,106	302	7,431	2,431	87,526
2022	27,308	934	0	1,877	975	885	2,106	302	7,079	2,125	89,651
2023	24,900	852	0	1,712	871	885	2,106	302	6,727	1,853	91,504
2024	22,492	769	0	1,546	767	885	2,106	302	6,375	1,611	93,116
2025	20,084	687	0	1,381	663	885	2,106	302	6,023	1,397	94,513
2026	17,676	605	0	1,215	559	885	2,106	302	5,671	1,207	95,720
2027	15,268	522	0	1,050	455	885	2,106	302	5,320	1,039	96,759
2028	13,124	449	0	902	890	885	2,106	(225)	5,006	897	97,656
2029	11,507	394	0	791	1,347	885	2,106	(752)	4,770	784	98,441
2030	10,153	347	0	698	1,289	885	2,106	(752)	4,572	690	99,131
2031	8,799	301	0	605	1,230	885	2,106	(752)	4,374	606	99,737
2032	7,445	255	0	512	1,172	885	2,106	(752)	4,176	531	100,267
2033	6,091	208	0	419	1,113	885	2,106	(752)	3,979	464	100,731
2034	4,738	162	0	326	1,055	885	2,106	(752)	3,781	405	101,136
2035	3,384	116	0	233	996	885	2,106	(752)	3,583	352	101,488
2036	2,030	69	0	140	938	885	2,106	(752)	3,385	305	101,793
2037	676	23	0	46	879	885	2,106	(752)	3,187	264	102,056

000077

IN SERVICE COS (\$000) 63,182  
 IN SERVICE YEAR 2008  
 BOOK LIFE (YRS) 30  
 EFFEC. TAX RATE 38.575  
 DISCOUNT RATE 8.98%  
 OTAX & INS RATE 1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61528



DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential HVAC : 2005 - 2007

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX	TAX	ACCUMULATED	ACCUMULATED	ACCUMULATED	BOOK	BOOK	BOOK	TOTAL	BOOK DEPR	(10)*(11)	SALVAGE	ANNUAL	ACCUMULATED
	DEPRECIATION SCHEDULE	DEPRECIATION \$(000)	DEPRECIATION \$(000)	DEPRECIATION \$(000)	DEPRECIATION \$(000)	DEPRECIATION \$(000)	DEPRECIATION \$(000)	DEPRECIATION \$(000)	EQUITY AFUDC \$(000)	RATE MINUS 1/LIFE	TAX RATE \$(000)	TAX RATE \$(000)	DEFERRED TAX \$(000)	DEFERRED TAX \$(000)
2008	3.75%	2,297	2,297	2,106	2,106	1,950	1,950	134	4,678	0	0	0	134	(927)
2009	7.22%	4,422	6,719	2,106	4,212	1,950	3,900	953	4,678	0	0	0	953	27
2010	6.68%	4,090	10,809	2,106	6,318	1,950	5,850	825	4,678	0	0	0	825	852
2011	6.18%	3,785	14,594	2,106	8,424	1,950	7,801	708	4,678	0	0	0	708	1,560
2012	5.71%	3,499	18,094	2,106	10,530	1,950	9,751	598	4,678	0	0	0	598	2,158
2013	5.29%	3,237	21,331	2,106	12,638	1,950	11,701	497	4,678	0	0	0	497	2,654
2014	4.89%	2,994	24,325	2,106	14,742	1,950	13,651	403	4,678	0	0	0	403	3,057
2015	4.52%	2,770	27,095	2,106	16,849	1,950	15,601	316	4,678	0	0	0	316	3,373
2016	4.46%	2,733	29,828	2,106	18,955	1,950	17,551	302	4,678	0	0	0	302	3,675
2017	4.46%	2,733	32,561	2,106	21,061	1,950	19,501	302	4,678	0	0	0	302	3,977
2018	4.46%	2,733	35,294	2,106	23,167	1,950	21,452	302	4,678	0	0	0	302	4,279
2019	4.46%	2,733	38,026	2,106	25,273	1,950	23,402	302	4,678	0	0	0	302	4,581
2020	4.46%	2,733	40,759	2,106	27,379	1,950	25,352	302	4,678	0	0	0	302	4,883
2021	4.46%	2,733	43,492	2,106	29,485	1,950	27,302	302	4,678	0	0	0	302	5,185
2022	4.46%	2,733	46,225	2,106	31,591	1,950	29,252	302	4,678	0	0	0	302	5,487
2023	4.46%	2,733	48,958	2,106	33,697	1,950	31,202	302	4,678	0	0	0	302	5,789
2024	4.46%	2,733	51,691	2,106	35,803	1,950	33,152	302	4,678	0	0	0	302	6,091
2025	4.46%	2,733	54,423	2,106	37,909	1,950	35,103	302	4,678	0	0	0	302	6,392
2026	4.46%	2,733	57,156	2,106	40,015	1,950	37,053	302	4,678	0	0	0	302	6,694
2027	4.46%	2,733	59,889	2,106	42,121	1,950	39,003	302	4,678	0	0	0	302	6,996
2028	2.23%	1,367	61,256	2,106	44,227	1,950	40,953	(225)	4,678	0	0	0	(225)	6,771
2029	0.00%	0	61,256	2,106	46,333	1,950	42,903	(752)	4,678	0	0	0	(752)	6,019
2030	0.00%	0	61,256	2,106	48,439	1,950	44,853	(752)	4,678	0	0	0	(752)	5,267
2031	0.00%	0	61,256	2,106	50,546	1,950	46,803	(752)	4,678	0	0	0	(752)	4,514
2032	0.00%	0	61,256	2,106	52,652	1,950	48,753	(752)	4,678	0	0	0	(752)	3,762
2033	0.00%	0	61,256	2,106	54,758	1,950	50,704	(752)	4,678	0	0	0	(752)	3,010
2034	0.00%	0	61,256	2,106	56,864	1,950	52,654	(752)	4,678	0	0	0	(752)	2,258
2035	0.00%	0	61,256	2,106	58,970	1,950	54,604	(752)	4,678	0	0	0	(752)	1,505
2036	0.00%	0	61,256	2,106	61,076	1,950	56,554	(752)	4,678	0	0	0	(752)	753
2037	0.00%	0	61,256	2,106	63,182	1,950	58,504	(752)	4,678	0	0	0	(752)	1

000078

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,061)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	4,678
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential HVAC : 2005 - 2007 Installations

(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)
2008	3.75%	2,297	134	61,076	2,106	(927)	64,243	62,003	63,123
2009	7.22%	4,422	953	58,970	4,212	27	62,003	58,943	60,473
2010	6.68%	4,090	825	56,864	8,318	852	58,943	56,012	57,477
2011	6.18%	3,785	708	54,758	8,424	1,560	56,012	53,198	54,605
2012	5.71%	3,499	598	52,652	10,530	2,158	53,198	50,494	51,846
2013	5.29%	3,237	497	50,546	12,636	2,654	50,494	47,891	49,193
2014	4.89%	2,994	403	48,439	14,742	3,057	47,891	45,383	46,637
2015	4.52%	2,770	316	46,333	16,849	3,373	45,383	42,960	44,171
2016	4.46%	2,733	302	44,227	18,955	3,675	42,960	40,552	41,756
2017	4.46%	2,733	302	42,121	21,061	3,977	40,552	38,144	39,348
2018	4.46%	2,733	302	40,015	23,167	4,279	38,144	35,736	36,940
2019	4.46%	2,733	302	37,909	25,273	4,581	35,736	33,328	34,532
2020	4.46%	2,733	302	35,803	27,379	4,883	33,328	30,920	32,124
2021	4.46%	2,733	302	33,697	29,485	5,185	30,920	28,512	29,716
2022	4.46%	2,733	302	31,591	31,591	5,487	28,512	26,104	27,308
2023	4.46%	2,733	302	29,485	33,697	5,789	26,104	23,696	24,900
2024	4.46%	2,733	302	27,379	35,803	6,091	23,696	21,288	22,492
2025	4.46%	2,733	302	25,273	37,909	6,392	21,288	18,880	20,084
2026	4.46%	2,733	302	23,167	40,015	6,694	18,880	16,472	17,676
2027	4.46%	2,733	302	21,061	42,121	6,996	16,472	14,064	15,268
2028	2.23%	1,367	(225)	18,955	44,227	6,771	14,064	12,183	13,124
2029	0.00%	0	(752)	16,849	46,333	6,019	12,183	10,830	11,507
2030	0.00%	0	(752)	14,742	48,439	5,267	10,830	9,476	10,153
2031	0.00%	0	(752)	12,636	50,546	4,514	9,476	8,122	8,799
2032	0.00%	0	(752)	10,530	52,652	3,762	8,122	6,768	7,445
2033	0.00%	0	(752)	8,424	54,758	3,010	6,768	5,414	6,091
2034	0.00%	0	(752)	6,318	56,864	2,258	5,414	4,061	4,738
2035	0.00%	0	(752)	4,212	58,970	1,505	4,061	2,707	3,384
2036	0.00%	0	(752)	2,106	61,076	753	2,707	1,353	2,030
2037	0.00%	0	(752)	0	63,182	1	1,353	-1	676

\* Column not specified in workbook

000079

(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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.016	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(8) NO. YEARS BEFORE IN-SERVICE	(8a)* 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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.07	0.07	(0.01)	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.29	0.36	(0.06)	(0.08)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	3.64	4.00	(0.77)	(0.85)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	26.50	15.37	(3.23)	(4.08)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	(7.65)	(11.72)	364.72	698.45
			25.72		77.43		56.12		(11.72)		698.45

080000

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	56,177	56,177	56,177
EQUITY AFUDC	4,678		
DEBT AFUDC	2,327	2,327	
CPI			5,077
<b>TOTAL</b>	<b>63,182</b>	<b>58,504</b>	<b>61,254</b>

\* Column not specified in workbook

INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Residential HVAC : 2005 - 2007 Installations

(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 PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1998	0	0	2.00	2.28	2.08	0.00	1.00	1.00
1999	0	0	2.23	2.58	2.36	0.00	1.00	1.00
2000	0	0	2.45	2.87	2.61	0.00	1.00	1.00
2001	0	0	2.73	3.33	2.95	0.00	1.00	1.00
2002	0	0	2.61	3.12	2.83	0.00	1.00	1.00
2003	0	0	2.60	3.22	2.81	0.00	1.00	1.00
2004	0	0	2.78	3.47	3.02	0.00	1.00	1.00
2005	52,331	52,331	2.84	3.61	3.09	0.00	1.00	1.00
2006	106,234	106,234	2.91	3.72	3.18	0.00	1.00	1.00
2007	161,688	161,688	3.02	3.95	3.31	0.00	1.00	1.00
2008	161,688	161,688	3.07	4.01	3.38	3.49	1.00	1.00
2009	161,688	161,688	3.14	4.13	3.47	3.69	1.00	1.00
2010	161,688	161,688	3.14	4.24	3.46	3.64	1.00	1.00
2011	161,688	161,688	3.31	4.38	3.67	3.75	1.00	1.00
2012	161,688	161,688	3.38	4.52	3.74	3.81	1.00	1.00
2013	161,688	161,688	3.47	4.68	3.84	3.86	1.00	1.00
2014	161,688	161,688	3.55	4.77	3.92	3.92	1.00	1.00
2015	161,688	161,688	3.58	4.85	3.95	3.94	1.00	1.00
2016	161,688	161,688	3.62	4.94	3.98	3.98	1.00	1.00
2017	161,688	161,688	3.75	5.12	4.13	4.12	1.00	1.00
2018	161,688	161,688	3.93	5.41	4.35	4.33	1.00	1.00
2019	161,688	161,688	4.09	5.70	4.55	4.54	1.00	1.00
2020	161,688	161,688	4.23	5.91	4.72	4.76	1.00	1.00
2021	161,688	161,688	4.34	6.09	4.84	4.88	1.00	1.00
2022	161,688	161,688	4.45	6.27	4.96	5.00	1.00	1.00
2023	161,688	161,688	4.56	6.46	5.09	5.13	1.00	1.00
2024	161,688	161,688	4.67	6.66	5.23	5.27	1.00	1.00
2025	161,688	161,688	4.80	6.87	5.38	5.42	1.00	1.00
2026	161,688	161,688	4.94	7.10	5.54	5.59	1.00	1.00
2027	161,688	161,688	5.07	7.10	5.54	5.59	1.00	1.00

180000

\* 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 HVAC : 2005 - 2007 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	12,312	4,624	641	16,636	25,572	8,641
2009	11,925	4,809	635	16,256	25,989	7,636
2010	11,487	5,001	633	15,955	24,875	8,201
2011	11,068	5,201	668	16,591	26,324	7,202
2012	10,665	5,409	686	17,042	26,721	7,081
2013	10,277	5,625	713	17,918	27,303	7,229
2014	9,903	5,850	738	18,750	27,892	7,350
2015	9,543	6,084	759	19,085	28,049	7,423
2016	9,190	6,328	783	19,627	28,378	7,549
2017	8,838	6,581	805	20,155	29,354	7,025
2018	8,486	6,844	830	20,721	30,980	5,902
2019	8,135	7,118	858	21,359	32,593	4,877
2020	7,783	7,403	883	22,000	34,176	3,892
2021	7,431	7,699	909	22,579	35,002	3,615
2022	7,079	8,007	935	23,169	35,875	3,314
2023	6,727	8,327	962	23,738	36,815	2,939
2024	6,375	8,660	990	24,285	37,822	2,488
2025	6,023	9,006	1019	24,855	38,935	1,969
2026	5,671	9,367	1048	25,433	40,160	1,359
2027	5,320	9,741	1079	26,014	40,160	1,994
NOM	174,239	137,682	16574	412,165	632,975	107,685
NPV	40,963	26,035	3220	80,673	123,853	27,038

000082

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential HVAC : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	1,455	0
2006	424	110	533	275	476	751	4,557	0
2007	854	232	1,086	555	1,004	1,559	8,255	0
2008	1,289	367	1,655	837	1,590	2,427	10,084	0
2009	1,242	381	1,623	807	1,653	2,460	10,437	0
2010	1,194	397	1,590	776	1,719	2,495	10,812	0
2011	1,148	412	1,560	746	1,788	2,534	11,077	0
2012	1,104	429	1,533	718	1,860	2,577	11,501	0
2013	1,062	446	1,508	690	1,934	2,624	11,863	0
2014	1,022	464	1,485	664	2,011	2,675	12,150	0
2015	982	482	1,464	638	2,092	2,730	12,406	0
2016	943	502	1,444	613	2,178	2,788	12,655	0
2017	903	522	1,425	587	2,263	2,850	13,141	0
2018	864	543	1,407	562	2,353	2,915	13,911	0
2019	825	564	1,389	536	2,447	2,983	14,724	0
2020	786	587	1,373	511	2,545	3,056	15,282	0
2021	746	610	1,357	485	2,647	3,132	15,781	0
2022	707	635	1,342	460	2,753	3,212	16,287	0
2023	668	660	1,328	434	2,863	3,297	16,810	0
2024	629	687	1,315	409	2,977	3,386	17,363	0
2025	589	714	1,304	383	3,097	3,480	17,956	0
2026	552	743	1,294	359	3,220	3,579	18,594	0
2027	519	772	1,291	337	3,349	3,686	18,401	0
NOM.	19,051	11,258	30,309	12,382	48,818	61,200	295,503	0
NPV	4,821	2,226	7,047	3,133	9,654	12,787	60,883	0

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

000083

TOTAL RESOURCE COST TEST  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential HVAC : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,132	24,614	0	25,746	0	0	1,455	0	1,455	(24,291)	(13,308)
2006	0	1,197	26,038	0	27,235	0	1,284	4,557	0	5,842	(21,393)	(24,064)
2007	0	1,265	27,510	0	28,775	0	2,645	8,255	0	10,900	(17,875)	(32,311)
2008	0	0	0	0	0	8,641	4,082	10,084	0	22,806	22,806	(22,655)
2009	0	0	0	0	0	7,636	4,083	10,437	0	22,155	22,155	(14,048)
2010	0	0	0	0	0	8,201	4,085	10,812	0	23,098	23,098	(5,814)
2011	0	0	0	0	0	7,202	4,095	11,077	0	22,374	22,374	1,505
2012	0	0	0	0	0	7,081	4,110	11,501	0	22,692	22,692	8,317
2013	0	0	0	0	0	7,229	4,133	11,863	0	23,224	23,224	14,714
2014	0	0	0	0	0	7,350	4,161	12,150	0	23,661	23,661	20,695
2015	0	0	0	0	0	7,423	4,195	12,406	0	24,024	24,024	26,267
2016	0	0	0	0	0	7,549	4,233	12,655	0	24,437	24,437	31,468
2017	0	0	0	0	0	7,025	4,275	13,141	0	24,441	24,441	36,242
2018	0	0	0	0	0	5,902	4,322	13,911	0	24,135	24,135	40,568
2019	0	0	0	0	0	4,877	4,373	14,724	0	23,973	23,973	44,511
2020	0	1,724	37,500	0	39,225	3,892	4,428	15,282	0	23,603	(15,622)	42,153
2021	0	1,828	39,747	0	41,574	3,615	4,489	15,781	0	23,885	(17,689)	39,703
2022	0	1,935	42,076	0	44,010	3,314	4,555	16,287	0	24,155	(19,855)	37,180
2023	0	0	0	0	0	2,939	4,625	16,810	0	24,374	24,374	40,022
2024	0	0	0	0	0	2,488	4,701	17,363	0	24,553	24,553	42,650
2025	0	0	0	0	0	1,969	4,783	17,956	0	24,708	24,708	45,076
2026	0	0	0	0	0	1,359	4,873	18,594	0	24,826	24,826	47,313
2027	0	0	0	0	0	1,994	4,977	18,401	0	25,372	25,372	49,411
NOM	0	9,080	197,485	0	206,566	107,685	91,508	295,503	0	494,696	288,130	
NPV	0	2,565	55,780	0	58,344	27,038	19,835	60,883	0	107,755	49,411	

480000

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

8.98 %  
1.86

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential HVAC : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	4,146	0	6,120	0	10,266	24,614	0	0	24,614	(14,348)	(7,861)
2006	12,543	0	6,304	0	18,847	26,038	0	0	26,038	(7,190)	(11,476)
2007	21,302	0	6,485	0	27,787	27,510	0	0	27,510	277	(11,348)
2008	25,818	0	0	0	25,818	0	0	0	0	25,818	(418)
2009	25,798	0	0	0	25,798	0	0	0	0	25,798	9,604
2010	26,395	0	0	0	26,395	0	0	0	0	26,395	19,014
2011	26,385	0	0	0	26,385	0	0	0	0	26,385	27,645
2012	26,602	0	0	0	26,602	0	0	0	0	26,602	35,630
2013	26,759	0	0	0	26,759	0	0	0	0	26,759	43,002
2014	27,077	0	0	0	27,077	0	0	0	0	27,077	49,846
2015	27,230	0	0	0	27,230	0	0	0	0	27,230	56,162
2016	27,424	0	0	0	27,424	0	0	0	0	27,424	61,999
2017	27,461	0	0	0	27,461	0	0	0	0	27,461	67,362
2018	27,634	0	0	0	27,634	0	0	0	0	27,634	72,315
2019	27,811	0	0	0	27,811	0	0	0	0	27,811	78,889
2020	27,988	0	6,120	0	34,108	37,500	0	0	37,500	(3,392)	76,377
2021	28,168	0	6,304	0	34,472	39,747	0	0	39,747	(5,275)	75,646
2022	28,349	0	6,485	0	34,834	42,076	0	0	42,076	(7,242)	74,726
2023	28,529	0	0	0	28,529	0	0	0	0	28,529	78,053
2024	28,709	0	0	0	28,709	0	0	0	0	28,709	81,125
2025	28,893	0	0	0	28,893	0	0	0	0	28,893	83,962
2026	29,080	0	0	0	29,080	0	0	0	0	29,080	86,583
2027	29,268	0	0	0	29,268	0	0	0	0	29,268	89,003
NOM	589,370	0	37,819	0	627,189	197,485	0	0	197,485	429,704	
NPV	132,647	0	12,135	0	144,782	55,780	0	0	55,780	89,003	

000085

In Service of Gen Unit: 2008  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) 2.60



**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential HVAC : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,132	6,120	2,529	0	9,781	1,455	0	0	0	1,455	(8,326)	(4,562)
2006	0	1,197	6,304	7,652	0	15,153	4,557	1,284	0	0	5,842	(9,311)	(9,243)
2007	0	1,265	6,485	12,994	0	20,744	8,255	2,645	0	0	10,900	(9,844)	(13,784)
2008	0	0	0	15,749	0	15,749	18,724	4,082	0	0	22,806	7,058	(10,796)
2009	0	0	0	15,737	0	15,737	18,072	4,083	0	0	22,155	6,419	(8,303)
2010	0	0	0	16,101	0	16,101	19,013	4,085	0	0	23,098	6,997	(5,809)
2011	0	0	0	16,095	0	16,095	18,280	4,095	0	0	22,374	6,279	(3,754)
2012	0	0	0	16,228	0	16,228	18,582	4,110	0	0	22,692	6,465	(1,814)
2013	0	0	0	16,323	0	16,323	19,092	4,133	0	0	23,224	6,901	87
2014	0	0	0	16,517	0	16,517	19,500	4,161	0	0	23,661	7,144	1,893
2015	0	0	0	16,610	0	16,610	19,829	4,195	0	0	24,024	7,413	3,613
2016	0	0	0	16,729	0	16,729	20,204	4,233	0	0	24,437	7,708	5,253
2017	0	0	0	16,751	0	16,751	20,166	4,275	0	0	24,441	7,691	6,755
2018	0	0	0	16,857	0	16,857	19,813	4,322	0	0	24,135	7,278	8,060
2019	0	0	0	16,965	0	16,965	19,601	4,373	0	0	23,973	7,009	9,212
2020	0	1,724	6,120	17,073	0	24,917	19,174	4,428	0	0	23,603	(1,314)	9,014
2021	0	1,828	6,304	17,183	0	25,314	19,396	4,489	0	0	23,885	(1,429)	8,816
2022	0	1,935	6,485	17,293	0	25,713	19,601	4,555	0	0	24,155	(1,557)	8,618
2023	0	0	0	17,403	0	17,403	19,749	4,625	0	0	24,374	6,971	9,431
2024	0	0	0	17,513	0	17,513	19,852	4,701	0	0	24,553	7,041	10,185
2025	0	0	0	17,625	0	17,625	19,924	4,783	0	0	24,708	7,083	10,880
2026	0	0	0	17,739	0	17,739	19,953	4,873	0	0	24,826	7,088	11,519
2027	0	0	0	17,853	0	17,853	20,394	4,977	0	0	25,372	7,518	12,140
NOM	0	9,080	37,819	359,516	0	406,415	403,187	91,508	0	0	494,696	88,281	
NPV	0	2,565	12,135	80,915	0	95,615	87,920	19,835	0	0	107,755	12,140	

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.13

980000

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: RESIDENTIAL AIR CONDITIONING (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

RSC-1                  RSC-2                  RSC-21A

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: RS

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 18.00	\$ 18.00	\$ 18.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 526.00	\$ 967.00	\$ 360.00
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 146.30	\$ 318.00	\$ 110.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

V. NON-FUEL ENERGY AND DEMAND CHARGES	RS
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

000087

880000

**RESIDENTIAL LOAD MANAGEMENT "ON CALL"**

NPV END 1998 (\$000)

<u>YEARS</u>	<u>RATE IMPACT TEST</u>			<u>PARTICIPANT TEST</u>			<u>TOTAL RESOURCE COST TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 40,043	\$ 31,862	1.26	\$ 20,788	\$ -	INFINITE	\$ 40,043	\$ 11,563	3.46

INPUT DATA – PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential On Call : 2001 - 2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	1.21 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.55 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	100.2 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	53.0 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.81524
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	30 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.17 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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.

680000

\*INPUT DATA – PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential On Call : 2001 - 2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	1,460	489	0	1,949	14	0	0	0	0	
2002	1,556	1,161	0	2,717	26	0	0	0	0	
2003	1,880	1,527	0	3,408	19	0	0	0	0	
2004	2,194	1,894	0	4,088	37	0	0	0	0	
2005	1,893	2,077	0	3,970	54	0	0	0	0	
2006	1,369	2,077	0	3,447	89	0	0	0	0	
2007	925	2,077	0	3,003	89	0	0	0	0	
2008	644	2,077	0	2,721	90	0	0	0	0	
2009	380	2,077	0	2,458	90	0	0	0	0	
2010	296	2,077	0	2,374	92	0	0	0	0	
2011	305	2,077	0	2,382	92	0	0	0	0	
2012	313	2,077	0	2,391	92	0	0	0	0	
2013	322	2,077	0	2,400	93	0	0	0	0	
2014	332	2,077	0	2,409	94	0	0	0	0	
2015	341	2,077	0	2,419	95	0	0	0	0	
2016	351	2,077	0	2,429	95	0	0	0	0	
2017	361	2,077	0	2,439	95	0	0	0	0	
2018	372	2,077	0	2,449	96	0	0	0	0	
2019	383	2,077	0	2,460	97	0	0	0	0	
2020	394	2,077	0	2,471	97	0	0	0	0	
2021	405	2,077	0	2,483	98	0	0	0	0	
2022	417	2,077	0	2,494	98	0	0	0	0	
2023	429	2,077	0	2,506	99	0	0	0	0	
2024	441	2,077	0	2,519	100	0	0	0	0	

NOM	17,765	46,619	0	64,384	1,939	0	0	0	0
NPV	8,430	14,668	0	23,097	548	0	0	0	0

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

060000

**CALCULATION OF GEN K-FACTOR**  
**PROGRAM METHOD SELECTED REV\_REQ**  
**PROGRAM NAME: Residential On Call : 2001 - 2004 installations**

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
MID-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	OTHER TAXES & INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	
2005	29,284	1,002	0	2,013	1,248	410	977	62	5,712	5,712	5,712
2006	28,055	959	0	1,929	814	410	977	442	5,532	5,077	10,789
2007	26,665	912	0	1,833	814	410	977	383	5,329	4,488	15,276
2008	25,333	866	0	1,742	811	410	977	328	5,135	3,967	19,244
2009	24,053	823	0	1,654	807	410	977	277	4,948	3,508	22,752
2010	22,822	781	0	1,569	800	410	977	230	4,768	3,102	25,854
2011	21,636	740	0	1,487	793	410	977	187	4,594	2,743	28,597
2012	20,492	701	0	1,409	783	410	977	147	4,427	2,426	31,023
2013	19,372	663	0	1,332	742	410	977	140	4,264	2,144	33,166
2014	18,255	624	0	1,255	694	410	977	140	4,100	1,892	35,058
2015	17,138	586	0	1,178	645	410	977	140	3,937	1,667	36,725
2016	16,020	548	0	1,101	597	410	977	140	3,774	1,466	38,191
2017	14,903	510	0	1,025	549	410	977	140	3,611	1,287	39,478
2018	13,786	471	0	948	501	410	977	140	3,447	1,128	40,606
2019	12,669	433	0	871	452	410	977	140	3,284	986	41,592
2020	11,552	395	0	794	404	410	977	140	3,121	860	42,451
2021	10,435	357	0	717	356	410	977	140	2,958	748	43,199
2022	9,318	319	0	641	308	410	977	140	2,794	648	43,847
2023	8,200	280	0	564	259	410	977	140	2,631	560	44,407
2024	7,083	242	0	487	211	410	977	140	2,468	482	44,889
2025	6,088	208	0	419	113	410	977	(104)	2,323	416	45,305
2026	5,338	183	0	367	625	410	977	(349)	2,213	364	45,669
2027	4,710	161	0	324	598	410	977	(349)	2,121	320	45,989
2028	4,082	140	0	281	571	410	977	(349)	2,029	281	46,270
2029	3,454	118	0	237	544	410	977	(349)	1,938	246	46,517
2030	2,826	97	0	194	516	410	977	(349)	1,846	215	46,732
2031	2,198	75	0	151	489	410	977	(349)	1,754	188	46,920
2032	1,570	54	0	108	462	410	977	(349)	1,662	163	47,083
2033	942	32	0	65	435	410	977	(349)	1,570	142	47,224
2034	314	11	0	22	408	410	977	(349)	1,479	122	47,347

160000

IN SERVICE COS (\$000)	29,312
IN SERVICE YEAR	2005
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST =

1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential On Call : 2001 - 200

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX	TAX	ACCUMULATED	BOOK	ACCUMULATED	BOOK	ACCUMULATED	DEFERRED	TOTAL	BOOK DEPR	(10)*(11)	SALVAGE	ANNUAL	ACCUMULATED
	DEPRECIATION	DEPRECIATION	TAX	BOOK	BOOK	DEPRECIATION	DEPRECIATION	TAX	EQUITY	RATE	TAX RATE	TAX RATE	DEFERRED TAX	DEFERRED
	SCHEDULE	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	AFUDC	MINUS 1/LIFE	\$(000)	\$(000)	(9)-(12)+(13)	TAX
									\$(000)				\$(000)	\$(000)
2005	3.75%	1,066	1,066	977	977	905	905	62	2,168	0	0	0	62	(430)
2006	7.22%	2,052	3,117	977	1,954	905	1,810	442	2,168	0	0	0	442	13
2007	6.68%	1,898	5,015	977	2,931	905	2,714	383	2,168	0	0	0	383	396
2008	6.18%	1,756	6,771	977	3,908	905	3,619	328	2,168	0	0	0	328	724
2009	5.71%	1,624	8,395	977	4,885	905	4,524	277	2,168	0	0	0	277	1,001
2010	5.29%	1,502	9,896	977	5,862	905	5,429	230	2,168	0	0	0	230	1,232
2011	4.89%	1,389	11,286	977	6,840	905	6,334	187	2,168	0	0	0	187	1,419
2012	4.52%	1,285	12,571	977	7,817	905	7,238	147	2,168	0	0	0	147	1,565
2013	4.46%	1,268	13,839	977	8,794	905	8,143	140	2,168	0	0	0	140	1,705
2014	4.46%	1,268	15,108	977	9,771	905	9,048	140	2,168	0	0	0	140	1,845
2015	4.46%	1,268	16,375	977	10,748	905	9,953	140	2,168	0	0	0	140	1,985
2016	4.46%	1,268	17,642	977	11,725	905	10,858	140	2,168	0	0	0	140	2,126
2017	4.46%	1,268	18,910	977	12,702	905	11,762	140	2,168	0	0	0	140	2,266
2018	4.46%	1,268	20,178	977	13,679	905	12,667	140	2,168	0	0	0	140	2,406
2019	4.46%	1,268	21,446	977	14,656	905	13,572	140	2,168	0	0	0	140	2,546
2020	4.46%	1,268	22,714	977	15,633	905	14,477	140	2,168	0	0	0	140	2,686
2021	4.46%	1,268	23,982	977	16,610	905	15,382	140	2,168	0	0	0	140	2,826
2022	4.46%	1,268	25,250	977	17,587	905	16,286	140	2,168	0	0	0	140	2,966
2023	4.46%	1,268	26,518	977	18,564	905	17,191	140	2,168	0	0	0	140	3,106
2024	4.46%	1,268	27,785	977	19,542	905	18,096	140	2,168	0	0	0	140	3,246
2025	2.23%	634	28,419	977	20,519	905	19,001	(104)	2,168	0	0	0	(104)	3,142
2026	0.00%	0	28,419	977	21,496	905	19,906	(349)	2,168	0	0	0	(349)	2,793
2027	0.00%	0	28,419	977	22,473	905	20,810	(349)	2,168	0	0	0	(349)	2,444
2028	0.00%	0	28,419	977	23,450	905	21,715	(349)	2,168	0	0	0	(349)	2,094
2029	0.00%	0	28,419	977	24,427	905	22,620	(349)	2,168	0	0	0	(349)	1,745
2030	0.00%	0	28,419	977	25,404	905	23,525	(349)	2,168	0	0	0	(349)	1,396
2031	0.00%	0	28,419	977	26,381	905	24,430	(349)	2,168	0	0	0	(349)	1,047
2032	0.00%	0	28,419	977	27,358	905	25,334	(349)	2,168	0	0	0	(349)	698
2033	0.00%	0	28,419	977	28,335	905	26,239	(349)	2,168	0	0	0	(349)	349
2034	0.00%	0	28,419	977	29,312	905	27,144	(349)	2,168	0	0	0	(349)	0

000092

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(492)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	2,168
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential On Call : 2001 - 2004 Installations

(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)
2005	3.75%	1,066	62	28,335	977	(430)	29,804	28,765	29,284
2006	7.22%	2,052	442	27,358	1,954	13	28,765	27,345	28,055
2007	6.68%	1,898	383	26,381	2,931	396	27,345	25,985	26,665
2008	6.18%	1,756	328	25,404	3,908	724	25,985	24,680	25,333
2009	5.71%	1,624	277	24,427	4,885	1,001	24,680	23,426	24,053
2010	5.29%	1,502	230	23,450	5,862	1,232	23,426	22,218	22,822
2011	4.89%	1,389	187	22,473	6,840	1,419	22,218	21,054	21,636
2012	4.52%	1,285	147	21,496	7,817	1,565	21,054	19,930	20,492
2013	4.46%	1,268	140	20,519	8,794	1,705	19,930	18,813	19,372
2014	4.46%	1,268	140	19,542	9,771	1,845	18,813	17,696	18,255
2015	4.46%	1,268	140	18,564	10,748	1,985	17,696	16,579	17,138
2016	4.46%	1,268	140	17,587	11,725	2,126	16,579	15,462	16,020
2017	4.46%	1,268	140	16,610	12,702	2,266	15,462	14,345	14,903
2018	4.46%	1,268	140	15,633	13,679	2,406	14,345	13,228	13,786
2019	4.46%	1,268	140	14,656	14,656	2,546	13,228	12,110	12,669
2020	4.46%	1,268	140	13,679	15,633	2,686	12,110	10,993	11,552
2021	4.46%	1,268	140	12,702	16,610	2,826	10,993	9,876	10,435
2022	4.46%	1,268	140	11,725	17,587	2,966	9,876	8,759	9,318
2023	4.46%	1,268	140	10,748	18,564	3,106	8,759	7,642	8,200
2024	4.46%	1,268	140	9,771	19,542	3,246	7,642	6,525	7,083
2025	2.23%	634	(104)	8,794	20,519	3,142	6,525	5,652	6,088
2026	0.00%	0	(349)	7,817	21,496	2,793	5,652	5,024	5,338
2027	0.00%	0	(349)	6,840	22,473	2,444	5,024	4,396	4,710
2028	0.00%	0	(349)	5,862	23,450	2,094	4,396	3,768	4,082
2029	0.00%	0	(349)	4,885	24,427	1,745	3,768	3,140	3,454
2030	0.00%	0	(349)	3,908	25,404	1,396	3,140	2,512	2,826
2031	0.00%	0	(349)	2,931	26,381	1,047	2,512	1,884	2,198
2032	0.00%	0	(349)	1,954	27,358	698	1,884	1,256	1,570
2033	0.00%	0	(349)	977	28,335	349	1,256	628	942
2034	0.00%	0	(349)	0	29,312	0	628	0	314

000093

\* 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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.061	0.85%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00%      582.24

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)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.46	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	5.09	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	24.80	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	72.53	34.44	52.57	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

	IN SERVICE YEAR	BOOK BASIS		
		BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	2005	26,065	26,065	26,065
EQUITY AFUDC	519	2,168		
DEBT AFUDC	10.30%	1,079	1,079	
CPI				2,353
<b>TOTAL</b>		<b>29,312</b>	<b>27,144</b>	<b>28,419</b>

\* Column not specified in workbook

460000

INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Residential On Call : 2001 - 2004 Installations

(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 PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1998	0	0	2.00	4.01	2.00	0.00	1.00	0.43
1999	0	0	2.23	3.92	2.23	0.00	1.00	0.43
2000	0	0	2.45	4.75	2.45	0.00	1.00	0.46
2001	13,585	13,585	2.73	5.52	2.73	0.00	1.00	0.68
2002	18,680	18,680	2.61	3.63	2.61	0.00	1.00	0.54
2003	23,774	23,774	2.60	3.97	2.60	0.00	1.00	0.29
2004	28,869	28,869	2.78	4.48	2.78	0.00	1.00	0.46
2005	28,869	28,869	2.93	5.33	2.93	3.25	1.00	0.61
2006	28,869	28,869	3.01	5.42	3.01	3.34	1.00	1.00
2007	28,869	28,869	3.13	6.29	3.13	3.49	1.00	1.00
2008	28,869	28,869	3.07	5.47	3.07	3.45	1.00	1.00
2009	28,869	28,869	3.15	5.57	3.15	3.60	1.00	1.00
2010	28,869	28,869	3.14	6.05	3.14	3.57	1.00	1.00
2011	28,869	28,869	3.32	6.31	3.32	3.71	1.00	1.00
2012	28,869	28,869	3.38	6.42	3.38	3.77	1.00	1.00
2013	28,869	28,869	3.47	6.48	3.47	3.84	1.00	1.00
2014	28,869	28,869	3.55	6.62	3.55	3.92	1.00	1.00
2015	28,869	28,869	3.58	6.63	3.58	3.95	1.00	1.00
2016	28,869	28,869	3.62	6.58	3.62	4.00	1.00	1.00
2017	28,869	28,869	3.75	7.54	3.75	4.13	1.00	1.00
2018	28,869	28,869	3.93	8.80	3.93	4.35	1.00	1.00
2019	28,869	28,869	4.09	10.25	4.09	4.55	1.00	1.00
2020	28,869	28,869	4.23	10.47	4.23	4.79	1.00	1.00
2021	28,869	28,869	4.32	10.81	4.32	4.88	1.00	1.00
2022	28,869	28,869	4.41	11.31	4.41	4.97	1.00	1.00
2023	28,869	28,869	4.53	11.92	4.53	5.10	1.00	1.00
2024	28,869	28,869	4.64	12.54	4.64	5.23	1.00	1.00

000095

\* 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 NAMI Residential On Call : 2001 - 2004 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	5,712	2,050	288	7,728	11,587	4,191
2006	5,532	2,132	304	8,097	12,257	3,808
2007	5,329	2,217	317	8,342	12,990	3,215
2008	5,135	2,305	325	8,439	12,818	3,387
2009	4,948	2,398	330	8,450	13,215	2,911
2010	4,768	2,494	327	8,226	12,621	3,193
2011	4,594	2,593	336	8,345	13,128	2,740
2012	4,427	2,697	347	8,588	13,337	2,722
2013	4,264	2,805	353	8,850	13,450	2,821
2014	4,100	2,917	359	9,107	13,593	2,891
2015	3,937	3,034	369	9,270	13,679	2,931
2016	3,774	3,155	376	9,426	13,722	3,010
2017	3,611	3,281	389	9,713	14,232	2,762
2018	3,447	3,413	402	10,010	15,034	2,238
2019	3,284	3,549	417	10,363	15,888	1,725
2020	3,121	3,691	429	10,673	16,732	1,183
2021	2,958	3,839	442	10,908	17,038	1,108
2022	2,794	3,992	455	11,160	17,362	1,040
2023	2,631	4,152	468	12,599	17,788	2,062
2024	2,468	4,318	481	12,599	18,249	1,617
NOM	80,834	61,031	7515	190,894	288,718	51,556
NPV	24,594	14,935	1914	48,898	74,300	16,041

960000

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential On Call : 2001 - 2004 Installations

000097

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	34	7
2002	282	68	350	110	293	403	37	13
2003	381	97	478	149	419	567	30	9
2004	477	128	605	186	554	740	68	19
2005	572	161	733	223	699	922	121	29
2006	551	168	718	215	727	942	202	50
2007	529	174	704	206	756	963	240	52
2008	509	181	691	199	787	985	203	51
2009	490	189	679	191	818	1,009	206	52
2010	471	196	667	184	851	1,035	229	52
2011	453	204	657	177	885	1,062	238	55
2012	435	212	647	169	920	1,090	242	56
2013	417	221	637	162	957	1,120	243	57
2014	398	230	628	155	995	1,151	248	58
2015	380	239	619	148	1,035	1,184	248	59
2016	362	248	611	141	1,077	1,218	245	60
2017	344	258	603	134	1,120	1,254	288	62
2018	326	269	595	127	1,165	1,292	344	65
2019	308	279	588	120	1,211	1,331	410	67
2020	290	290	581	113	1,260	1,373	418	70
2021	272	302	574	106	1,310	1,416	433	71
2022	255	314	569	99	1,362	1,462	455	73
2023	240	327	567	94	1,417	1,511	482	75
2024	228	340	568	89	1,474	1,562	509	76
NOM.	8,973	5,095	14,068	3,499	22,092	25,591	6,171	1,235
NPV	3,144	1,362	4,506	1,226	5,907	7,133	1,505	329

\* 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 NAMI Residential On Call : 2001 - 2004 Installations

860000

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,460	0	0	1,460	0	0	27	0	27	(1,434)	(1,108)
2002	0	1,556	0	0	1,556	0	753	24	0	777	(779)	(1,660)
2003	0	1,880	0	0	1,880	0	1,045	21	0	1,066	(814)	(2,190)
2004	0	2,194	0	0	2,194	0	1,345	48	0	1,393	(800)	(2,668)
2005	0	1,893	0	0	1,893	4,191	1,656	92	0	5,939	4,046	(451)
2006	0	1,369	0	0	1,369	3,808	1,660	152	0	5,621	4,252	1,686
2007	0	925	0	0	925	3,215	1,667	189	0	5,071	4,145	3,599
2008	0	644	0	0	644	3,387	1,676	152	0	5,215	4,571	5,534
2009	0	380	0	0	380	2,911	1,688	154	0	4,753	4,372	7,233
2010	0	296	0	0	296	3,193	1,702	177	0	5,072	4,776	8,935
2011	0	305	0	0	305	2,740	1,718	183	0	4,642	4,337	10,354
2012	0	313	0	0	313	2,722	1,737	186	0	4,645	4,331	11,654
2013	0	322	0	0	322	2,821	1,757	186	0	4,764	4,441	12,878
2014	0	332	0	0	332	2,891	1,779	190	0	4,860	4,528	14,022
2015	0	341	0	0	341	2,931	1,803	189	0	4,923	4,582	15,085
2016	0	351	0	0	351	3,010	1,829	185	0	5,024	4,673	16,079
2017	0	361	0	0	361	2,762	1,857	227	0	4,845	4,484	16,955
2018	0	372	0	0	372	2,238	1,887	280	0	4,404	4,033	17,678
2019	0	383	0	0	383	1,725	1,919	343	0	3,987	3,604	18,271
2020	0	394	0	0	394	1,183	1,953	348	0	3,485	3,091	18,737
2021	0	405	0	0	405	1,108	1,990	361	0	3,460	3,055	19,160
2022	0	417	0	0	417	1,040	2,031	382	0	3,453	3,036	19,546
2023	0	429	0	0	429	2,062	2,078	407	0	4,547	4,118	20,026
2024	0	441	0	0	441	1,617	2,130	432	0	4,180	3,739	20,426

NOM	0	17,765	0	0	17,765	51,556	39,659	4,936	0	96,152	78,387
NPV	0	8,430	0	0	8,430	16,041	11,640	1,175	0	28,856	20,426

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 3.42

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: Residential On Call : 2001 - 2004 Installations**

660000

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	23	0	489	0	512	0	0	0	0	512	395
2002	43	0	1,161	0	1,204	0	0	0	0	1,204	1,249
2003	31	0	1,527	0	1,558	0	0	0	0	1,558	2,263
2004	61	0	1,894	0	1,955	0	0	0	0	1,955	3,430
2005	89	0	2,077	0	2,166	0	0	0	0	2,166	4,617
2006	146	0	2,077	0	2,223	0	0	0	0	2,223	5,734
2007	146	0	2,077	0	2,224	0	0	0	0	2,224	6,760
2008	147	0	2,077	0	2,224	0	0	0	0	2,224	7,702
2009	147	0	2,077	0	2,224	0	0	0	0	2,224	8,566
2010	150	0	2,077	0	2,228	0	0	0	0	2,228	9,360
2011	150	0	2,077	0	2,228	0	0	0	0	2,228	10,089
2012	151	0	2,077	0	2,229	0	0	0	0	2,229	10,758
2013	152	0	2,077	0	2,230	0	0	0	0	2,230	11,372
2014	154	0	2,077	0	2,231	0	0	0	0	2,231	11,936
2015	155	0	2,077	0	2,232	0	0	0	0	2,232	12,454
2016	156	0	2,077	0	2,233	0	0	0	0	2,233	12,929
2017	156	0	2,077	0	2,234	0	0	0	0	2,234	13,365
2018	157	0	2,077	0	2,235	0	0	0	0	2,235	13,766
2019	158	0	2,077	0	2,236	0	0	0	0	2,236	14,133
2020	159	0	2,077	0	2,237	0	0	0	0	2,237	14,471
2021	160	0	2,077	0	2,238	0	0	0	0	2,238	14,781
2022	161	0	2,077	0	2,239	0	0	0	0	2,239	15,065
2023	162	0	2,077	0	2,240	0	0	0	0	2,240	15,327
2024	163	0	2,077	0	2,241	0	0	0	0	2,241	15,566

NOM	3,179	0	46,619	0	49,798	0	0	0	0	49,798
NPV	899	0	14,668	0	15,566	0	0	0	0	15,566

In Service of Gen Unit: 2005  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) infinite

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential On Call : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,460	489	14	0	1,963	27	0	0	0	27	(1,937)	(1,496)
2002	0	1,556	1,161	28	0	2,743	24	753	0	0	777	(1,966)	(2,890)
2003	0	1,880	1,527	19	0	3,427	21	1,045	0	0	1,066	(2,360)	(4,426)
2004	0	2,194	1,894	37	0	4,125	48	1,345	0	0	1,393	(2,731)	(6,057)
2005	0	1,893	2,077	54	0	4,025	4,283	1,656	0	0	5,939	1,914	(5,008)
2006	0	1,369	2,077	89	0	3,535	3,960	1,660	0	0	5,621	2,085	(3,960)
2007	0	925	2,077	89	0	3,092	3,404	1,667	0	0	5,071	1,979	(3,047)
2008	0	644	2,077	90	0	2,811	3,539	1,676	0	0	5,215	2,404	(2,029)
2009	0	380	2,077	90	0	2,547	3,065	1,688	0	0	4,753	2,206	(1,172)
2010	0	296	2,077	92	0	2,465	3,370	1,702	0	0	5,072	2,606	(243)
2011	0	305	2,077	92	0	2,474	2,924	1,718	0	0	4,642	2,168	466
2012	0	313	2,077	92	0	2,483	2,908	1,737	0	0	4,645	2,162	1,115
2013	0	322	2,077	93	0	2,493	3,007	1,757	0	0	4,764	2,271	1,741
2014	0	332	2,077	94	0	2,503	3,081	1,779	0	0	4,860	2,357	2,337
2015	0	341	2,077	95	0	2,513	3,120	1,803	0	0	4,923	2,410	2,896
2016	0	351	2,077	95	0	2,524	3,195	1,829	0	0	5,024	2,500	3,428
2017	0	361	2,077	95	0	2,534	2,989	1,857	0	0	4,845	2,311	3,879
2018	0	372	2,077	96	0	2,545	2,518	1,887	0	0	4,404	1,859	4,212
2019	0	383	2,077	97	0	2,557	2,068	1,919	0	0	3,987	1,430	4,448
2020	0	394	2,077	97	0	2,568	1,531	1,953	0	0	3,485	916	4,586
2021	0	405	2,077	98	0	2,580	1,470	1,990	0	0	3,460	880	4,708
2022	0	417	2,077	98	0	2,593	1,422	2,031	0	0	3,453	860	4,817
2023	0	429	2,077	99	0	2,605	2,469	2,078	0	0	4,547	1,942	5,043
2024	0	441	2,077	100	0	2,618	2,050	2,130	0	0	4,180	1,562	5,211

001000

NOM.	0	17,765	46,619	1,939	0	66,323	56,492	39,659	0	0	96,152	29,829
NPV	0	8,430	14,668	548	0	23,646	17,216	11,640	0	0	28,856	5,211

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.22

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: RESIDENTIAL LOAD CONTROL (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

RLC-1

RATE CLASS: RS

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 29.59
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ -
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ -
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ 71.96
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

1010001



INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential On Call : 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	1.21 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.55 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	100.2 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	53.0 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.61528
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2008
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	30 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.27 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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.

000102

\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential On Call : 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	608	183	0	791	5	0	0	0	0	
2006	934	519	0	1,454	22	0	0	0	0	
2007	1,272	825	0	2,097	35	0	0	0	0	
2008	1,048	978	0	2,028	42	0	0	0	0	
2009	974	978	0	1,951	42	0	0	0	0	
2010	744	978	0	1,721	43	0	0	0	0	
2011	471	978	0	1,449	43	0	0	0	0	
2012	230	978	0	1,208	43	0	0	0	0	
2013	152	978	0	1,129	44	0	0	0	0	
2014	156	978	0	1,134	44	0	0	0	0	
2015	161	978	0	1,138	44	0	0	0	0	
2016	165	978	0	1,143	45	0	0	0	0	
2017	170	978	0	1,148	45	0	0	0	0	
2018	175	978	0	1,153	45	0	0	0	0	
2019	180	978	0	1,158	45	0	0	0	0	
2020	185	978	0	1,163	46	0	0	0	0	
2021	191	978	0	1,168	46	0	0	0	0	
2022	196	978	0	1,174	46	0	0	0	0	
2023	202	978	0	1,179	47	0	0	0	0	
2024	208	978	0	1,185	47	0	0	0	0	
2025	214	978	0	1,191	47	0	0	0	0	
2026	220	978	0	1,198	48	0	0	0	0	
2027	226	978	0	1,204	48	0	0	0	0	
NOM	9,082	21,079	0	30,161	963	0	0	0	0	
NPV	3,133	4,866	0	7,999	217	0	0	0	0	

000103

\* 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 On Call : 2005 - 2007 Installations**

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
MID-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	OTHER TAXES & INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	
2008	14,700	503	0	1,011	626	206	490	31	2,867	2,867	2,867
2009	14,083	482	0	968	409	206	490	222	2,777	2,548	5,416
2010	13,386	458	0	920	409	206	490	192	2,675	2,253	7,669
2011	12,717	435	0	874	407	206	490	165	2,578	1,992	9,660
2012	12,074	413	0	830	405	206	490	139	2,484	1,761	11,421
2013	11,456	392	0	788	402	206	490	116	2,393	1,557	12,979
2014	10,861	371	0	747	398	206	490	94	2,306	1,377	14,356
2015	10,287	352	0	707	393	206	490	74	2,222	1,218	15,573
2016	9,725	333	0	669	372	206	490	70	2,140	1,076	16,649
2017	9,164	313	0	630	348	206	490	70	2,058	950	17,599
2018	8,603	294	0	591	324	206	490	70	1,976	837	18,436
2019	8,042	275	0	553	300	206	490	70	1,894	736	19,172
2020	7,481	256	0	514	275	206	490	70	1,812	646	19,818
2021	6,921	237	0	476	251	206	490	70	1,731	566	20,384
2022	6,360	218	0	437	227	206	490	70	1,649	495	20,879
2023	5,799	198	0	399	203	206	490	70	1,567	432	21,310
2024	5,238	179	0	360	179	206	490	70	1,485	375	21,686
2025	4,677	160	0	322	154	206	490	70	1,403	325	22,011
2026	4,117	141	0	283	130	206	490	70	1,321	281	22,292
2027	3,556	122	0	244	106	206	490	70	1,239	242	22,534
2028	3,056	105	0	210	207	206	490	(52)	1,166	209	22,743
2029	2,680	92	0	184	314	206	490	(175)	1,111	183	22,926
2030	2,364	81	0	163	300	206	490	(175)	1,065	161	23,086
2031	2,049	70	0	141	286	206	490	(175)	1,019	141	23,227
2032	1,734	59	0	119	273	206	490	(175)	973	124	23,351
2033	1,419	49	0	98	259	206	490	(175)	927	108	23,459
2034	1,103	38	0	76	246	206	490	(175)	881	94	23,553
2035	788	27	0	54	232	206	490	(175)	834	82	23,635
2036	473	16	0	33	218	206	490	(175)	788	71	23,706
2037	157	5	0	11	205	206	490	(175)	742	61	23,768

401000

IN SERVICE COS (\$000)	14,714
IN SERVICE YEAR	2008
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential On Call : 2005 - 200

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	DEFERRED TAX FOR DEFERRED TA \$(000)	DEFERRED TAX FOR DEFERRED TA \$(000)	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 TA \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2008	3.75%	535	535	490	490	454	454	31	1,089	0	0	0	31	(216)
2009	7.22%	1,030	1,565	490	981	454	908	222	1,089	0	0	0	222	6
2010	6.68%	852	2,517	490	1,471	454	1,362	192	1,089	0	0	0	192	198
2011	6.18%	882	3,399	490	1,962	454	1,817	165	1,089	0	0	0	165	363
2012	5.71%	815	4,214	490	2,452	454	2,271	139	1,089	0	0	0	139	502
2013	5.29%	754	4,968	490	2,943	454	2,725	116	1,089	0	0	0	116	618
2014	4.89%	697	5,665	490	3,433	454	3,179	94	1,089	0	0	0	94	712
2015	4.52%	645	6,310	490	3,924	454	3,633	74	1,089	0	0	0	74	786
2016	4.46%	637	6,947	490	4,414	454	4,087	70	1,089	0	0	0	70	856
2017	4.46%	636	7,583	490	4,905	454	4,542	70	1,089	0	0	0	70	926
2018	4.46%	637	8,219	490	5,395	454	4,996	70	1,089	0	0	0	70	997
2019	4.46%	636	8,856	490	5,886	454	5,450	70	1,089	0	0	0	70	1,067
2020	4.46%	637	9,492	490	6,376	454	5,904	70	1,089	0	0	0	70	1,137
2021	4.46%	636	10,129	490	6,867	454	6,358	70	1,089	0	0	0	70	1,207
2022	4.46%	637	10,765	490	7,357	454	6,812	70	1,089	0	0	0	70	1,278
2023	4.46%	636	11,402	490	7,848	454	7,267	70	1,089	0	0	0	70	1,348
2024	4.46%	637	12,038	490	8,338	454	7,721	70	1,089	0	0	0	70	1,418
2025	4.46%	636	12,675	490	8,829	454	8,175	70	1,089	0	0	0	70	1,489
2026	4.46%	637	13,311	490	9,319	454	8,629	70	1,089	0	0	0	70	1,559
2027	4.46%	636	13,947	490	9,810	454	9,083	70	1,089	0	0	0	70	1,629
2028	2.23%	318	14,266	490	10,300	454	9,537	(52)	1,089	0	0	0	(52)	1,577
2029	0.00%	0	14,266	490	10,790	454	9,992	(175)	1,089	0	0	0	(175)	1,402
2030	0.00%	0	14,266	490	11,281	454	10,446	(175)	1,089	0	0	0	(175)	1,227
2031	0.00%	0	14,266	490	11,771	454	10,900	(175)	1,089	0	0	0	(175)	1,051
2032	0.00%	0	14,266	490	12,262	454	11,354	(175)	1,089	0	0	0	(175)	876
2033	0.00%	0	14,266	490	12,752	454	11,808	(175)	1,089	0	0	0	(175)	701
2034	0.00%	0	14,266	490	13,243	454	12,262	(175)	1,089	0	0	0	(175)	526
2035	0.00%	0	14,266	490	13,733	454	12,717	(175)	1,089	0	0	0	(175)	351
2036	0.00%	0	14,266	490	14,224	454	13,171	(175)	1,089	0	0	0	(175)	175
2037	0.00%	0	14,266	490	14,714	454	13,625	(175)	1,089	0	0	0	(175)	0

000100

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(247)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,089
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Residential On Call : 2005 - 2007 Installations

(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)
2008	3.75%	535	31	14,224	490	(216)	14,961	14,440	14,700
2009	7.22%	1,030	222	13,733	981	6	14,440	13,727	14,083
2010	6.68%	952	192	13,243	1,471	198	13,727	13,044	13,386
2011	6.18%	882	165	12,752	1,962	363	13,044	12,389	12,717
2012	5.71%	815	139	12,262	2,452	502	12,389	11,759	12,074
2013	5.29%	754	116	11,771	2,943	618	11,759	11,153	11,456
2014	4.89%	697	94	11,281	3,433	712	11,153	10,569	10,861
2015	4.52%	645	74	10,790	3,924	786	10,569	10,005	10,287
2016	4.46%	637	70	10,300	4,414	856	10,005	9,444	9,725
2017	4.46%	636	70	9,810	4,905	926	9,444	8,883	9,164
2018	4.46%	637	70	9,319	5,395	997	8,883	8,323	8,603
2019	4.46%	636	70	8,829	5,886	1,067	8,323	7,762	8,042
2020	4.46%	637	70	8,338	6,376	1,137	7,762	7,201	7,481
2021	4.46%	636	70	7,848	6,867	1,207	7,201	6,640	6,921
2022	4.46%	637	70	7,357	7,357	1,278	6,640	6,079	6,360
2023	4.46%	636	70	6,867	7,848	1,348	6,079	5,519	5,799
2024	4.46%	637	70	6,376	8,338	1,418	5,519	4,958	5,238
2025	4.46%	636	70	5,886	8,829	1,489	4,958	4,397	4,677
2026	4.46%	637	70	5,395	9,319	1,559	4,397	3,836	4,117
2027	4.46%	636	70	4,905	9,810	1,629	3,836	3,275	3,556
2028	2.23%	318	(52)	4,414	10,300	1,577	3,275	2,837	3,056
2029	0.00%	0	(175)	3,924	10,790	1,402	2,837	2,522	2,680
2030	0.00%	0	(175)	3,433	11,281	1,227	2,522	2,207	2,364
2031	0.00%	0	(175)	2,943	11,771	1,051	2,207	1,892	2,049
2032	0.00%	0	(175)	2,452	12,262	876	1,892	1,576	1,734
2033	0.00%	0	(175)	1,962	12,752	701	1,576	1,261	1,419
2034	0.00%	0	(175)	1,471	13,243	526	1,261	946	1,103
2035	0.00%	0	(175)	981	13,733	351	946	630	788
2036	0.00%	0	(175)	490	14,224	175	630	315	473
2037	0.00%	0	(175)	(0)	14,714	0	315	0	157

\* Column not specified in workbook

DUPLICATE

(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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.10	0.07	0.07	(0.01)	(0.01)	1.94
2004	-4	3.88	0.13	0.16	0.40	0.49	0.29	0.36	(0.06)	(0.08)	4.24
2005	-3	48.00	1.64	1.81	4.95	5.44	3.64	4.00	(0.77)	(0.85)	88.58
2006	-2	203.72	7.00	8.80	21.06	28.50	15.37	19.37	(3.23)	(4.08)	238.96
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	56.12	(7.65)	(11.72)	384.72
			25.72		77.43		56.12		(11.72)		698.45

000107

IN SERVICE YEAR 2008  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	13,083	13,083	13,083
EQUITY AFUDC	1,089		
DEBT AFUDC	542	542	
CPI			1,182
<b>TOTAL</b>	<b>14,714</b>	<b>13,625</b>	<b>14,265</b>

\* Column not specified in workbook

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Residential On Call : 2005 - 2007 Installations

(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 EFFECTIVENESS FACTOR	PROGRAM kwh EFFECTIVENESS FACTOR
1998	0	0	2.00	4.01	2.00	0.00	1.00	0.43
1999	0	0	2.23	3.92	2.23	0.00	1.00	0.43
2000	0	0	2.45	4.75	2.45	0.00	1.00	0.46
2001	0	0	2.73	5.52	2.73	0.00	1.00	0.68
2002	0	0	2.61	3.63	2.61	0.00	1.00	0.54
2003	0	0	2.60	3.97	2.60	0.00	1.00	0.29
2004	0	0	2.78	4.48	2.78	0.00	1.00	0.46
2005	5,094	5,094	2.84	4.72	2.84	0.00	1.00	0.61
2006	9,340	9,340	2.91	4.86	2.91	0.00	1.00	1.00
2007	13,585	13,585	3.02	5.69	3.02	0.00	1.00	1.00
2008	13,585	13,585	3.07	5.47	3.07	3.49	1.00	1.00
2009	13,585	13,585	3.14	5.55	3.14	3.69	1.00	1.00
2010	13,585	13,585	3.14	6.06	3.14	3.64	1.00	1.00
2011	13,585	13,585	3.31	6.32	3.31	3.75	1.00	1.00
2012	13,585	13,585	3.38	6.42	3.38	3.81	1.00	1.00
2013	13,585	13,585	3.47	6.46	3.47	3.86	1.00	1.00
2014	13,585	13,585	3.55	6.62	3.55	3.92	1.00	1.00
2015	13,585	13,585	3.58	6.64	3.58	3.94	1.00	1.00
2016	13,585	13,585	3.62	6.58	3.62	3.98	1.00	1.00
2017	13,585	13,585	3.75	7.55	3.75	4.12	1.00	1.00
2018	13,585	13,585	3.93	8.80	3.93	4.33	1.00	1.00
2019	13,585	13,585	4.09	10.27	4.09	4.54	1.00	1.00
2020	13,585	13,585	4.23	10.47	4.23	4.76	1.00	1.00
2021	13,585	13,585	4.34	11.01	4.34	4.88	1.00	1.00
2022	13,585	13,585	4.45	11.62	4.45	5.00	1.00	1.00
2023	13,585	13,585	4.56	12.32	4.56	5.13	1.00	1.00
2024	13,585	13,585	4.67	13.11	4.67	5.27	1.00	1.00
2025	13,585	13,585	4.80	14.04	4.80	5.42	1.00	1.00
2026	13,585	13,585	4.94	15.14	4.94	5.59	1.00	1.00
2027	13,585	13,585	5.07	15.14	4.94	5.59	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.

000108

AVOIDED GENERATING BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential On Call : 2005 - 2007 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	2,867	1,077	149	3,874	5,955	2,012
2009	2,777	1,120	148	3,786	6,053	1,778
2010	2,675	1,165	147	3,716	5,793	1,910
2011	2,578	1,211	156	3,864	6,131	1,677
2012	2,484	1,260	160	3,969	6,223	1,649
2013	2,393	1,310	166	4,173	6,359	1,684
2014	2,306	1,362	172	4,367	6,496	1,712
2015	2,222	1,417	177	4,445	6,532	1,729
2016	2,140	1,474	182	4,571	6,609	1,758
2017	2,058	1,533	188	4,694	6,836	1,636
2018	1,976	1,594	193	4,826	7,215	1,374
2019	1,894	1,658	200	4,974	7,590	1,136
2020	1,812	1,724	206	5,123	7,959	906
2021	1,731	1,793	212	5,258	8,152	842
2022	1,649	1,865	218	5,396	8,355	772
2023	1,567	1,939	224	5,528	8,574	684
2024	1,485	2,017	231	5,656	8,808	580
2025	1,403	2,097	237	5,789	9,088	458
2026	1,321	2,181	244	5,923	9,353	317
2027	1,239	2,269	251	6,058	9,353	464
NOM	40,578	32,064	3860	95,988	147,412	25,078
NPV	9,540	6,063	750	18,788	28,844	6,297

601000



AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Residential On Call : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	9
2006	114	30	144	45	128	173	44	12
2007	208	56	264	81	245	326	85	20
2008	299	85	384	117	370	487	95	24
2009	288	89	377	112	385	497	97	24
2010	277	92	369	108	400	508	108	24
2011	266	96	362	104	416	520	112	26
2012	256	100	356	100	433	533	114	26
2013	246	104	350	96	450	546	114	27
2014	237	108	345	92	468	561	117	27
2015	228	112	340	89	487	576	117	28
2016	218	117	335	85	507	592	115	28
2017	209	122	331	82	527	609	136	29
2018	200	126	327	78	548	626	162	30
2019	191	131	323	75	570	644	193	32
2020	182	137	319	71	593	664	197	33
2021	173	142	315	67	616	684	208	34
2022	164	148	312	64	641	705	221	34
2023	155	154	308	60	667	727	235	35
2024	145	160	305	57	693	750	252	36
2025	136	166	303	53	721	774	271	37
2026	128	173	301	50	750	800	295	38
2027	120	180	300	47	780	827	294	39
NOM.	4,440	2,628	7,068	1,731	11,398	13,129	3,591	647
NPV	1,130	522	1,652	441	2,262	2,703	672	136

011000

\* 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 On Call : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	608	0	0	608	0	0	7	0	7	(601)	(329)
2006	0	934	0	0	934	0	317	32	0	349	(586)	(624)
2007	0	1,272	0	0	1,272	0	590	65	0	655	(617)	(909)
2008	0	1,048	0	0	1,048	2,012	871	72	0	2,955	1,907	(101)
2009	0	974	0	0	974	1,778	874	72	0	2,724	1,751	579
2010	0	744	0	0	744	1,910	877	83	0	2,871	2,127	1,337
2011	0	471	0	0	471	1,677	882	87	0	2,646	2,175	2,049
2012	0	230	0	0	230	1,649	889	88	0	2,625	2,395	2,767
2013	0	152	0	0	152	1,684	897	87	0	2,667	2,516	3,460
2014	0	156	0	0	156	1,712	906	89	0	2,707	2,551	4,105
2015	0	161	0	0	161	1,729	916	89	0	2,734	2,573	4,702
2016	0	165	0	0	165	1,758	927	87	0	2,773	2,607	5,257
2017	0	170	0	0	170	1,636	939	107	0	2,682	2,512	5,748
2018	0	175	0	0	175	1,374	953	132	0	2,459	2,284	6,157
2019	0	180	0	0	180	1,136	967	162	0	2,264	2,084	6,500
2020	0	185	0	0	185	906	982	164	0	2,053	1,867	6,782
2021	0	191	0	0	191	842	999	174	0	2,015	1,824	7,034
2022	0	196	0	0	196	772	1,017	186	0	1,974	1,778	7,260
2023	0	202	0	0	202	684	1,035	200	0	1,920	1,718	7,461
2024	0	208	0	0	208	580	1,056	216	0	1,851	1,643	7,636
2025	0	214	0	0	214	458	1,077	234	0	1,770	1,556	7,789
2026	0	220	0	0	220	317	1,100	257	0	1,674	1,454	7,920
2027	0	226	0	0	226	484	1,127	254	0	1,845	1,619	8,054
NOM	0	9,082	0	0	9,082	25,078	20,197	2,944	0	48,220	39,138	
NPV	0	3,133	0	0	3,133	6,297	4,354	536	0	11,187	8,054	

111000

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 3.67

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Residential On Call : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	8	0	183	0	191	0	0	0	0	191	105
2006	36	0	519	0	556	0	0	0	0	556	384
2007	58	0	825	0	883	0	0	0	0	883	791
2008	69	0	978	0	1,047	0	0	0	0	1,047	1,235
2009	69	0	978	0	1,047	0	0	0	0	1,047	1,641
2010	71	0	978	0	1,048	0	0	0	0	1,048	2,015
2011	71	0	978	0	1,048	0	0	0	0	1,048	2,358
2012	71	0	978	0	1,049	0	0	0	0	1,049	2,673
2013	72	0	978	0	1,049	0	0	0	0	1,049	2,962
2014	73	0	978	0	1,050	0	0	0	0	1,050	3,227
2015	73	0	978	0	1,051	0	0	0	0	1,051	3,471
2016	73	0	978	0	1,051	0	0	0	0	1,051	3,695
2017	74	0	978	0	1,051	0	0	0	0	1,051	3,900
2018	74	0	978	0	1,052	0	0	0	0	1,052	4,088
2019	74	0	978	0	1,052	0	0	0	0	1,052	4,261
2020	75	0	978	0	1,053	0	0	0	0	1,053	4,420
2021	75	0	978	0	1,053	0	0	0	0	1,053	4,566
2022	76	0	978	0	1,054	0	0	0	0	1,054	4,700
2023	76	0	978	0	1,054	0	0	0	0	1,054	4,823
2024	77	0	978	0	1,054	0	0	0	0	1,054	4,936
2025	77	0	978	0	1,055	0	0	0	0	1,055	5,039
2026	78	0	978	0	1,055	0	0	0	0	1,055	5,134
2027	78	0	978	0	1,056	0	0	0	0	1,056	5,222
<b>NOM</b>	1,579	0	21,079	0	22,658	0	0	0	0	22,658	
<b>NPV</b>	355	0	4,866	0	5,222	0	0	0	0	5,222	

000112

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

2008  
 8.98 %  
 infinite

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: Residential On Call : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	0	0	0	
2005	0	608	183	5	0	796	7	0	0	7	(789)	(433)	
2006	0	934	519	22	0	1,476	32	317	0	349	(1,127)	(999)	
2007	0	1,272	825	35	0	2,132	65	590	0	655	(1,477)	(1,681)	
2008	0	1,048	978	42	0	2,068	2,084	871	0	2,955	887	(1,305)	
2009	0	974	978	42	0	1,993	1,850	874	0	2,724	731	(1,021)	
2010	0	744	978	43	0	1,764	1,993	877	0	2,871	1,106	(627)	
2011	0	471	978	43	0	1,492	1,764	882	0	2,646	1,154	(249)	
2012	0	230	978	43	0	1,251	1,737	889	0	2,625	1,374	163	
2013	0	152	978	44	0	1,173	1,771	897	0	2,667	1,494	575	
2014	0	156	978	44	0	1,178	1,801	906	0	2,707	1,529	961	
2015	0	161	978	44	0	1,183	1,818	916	0	2,734	1,551	1,321	
2016	0	165	978	45	0	1,188	1,846	927	0	2,773	1,585	1,658	
2017	0	170	978	45	0	1,193	1,743	939	0	2,682	1,490	1,949	
2018	0	175	978	45	0	1,198	1,506	953	0	2,459	1,261	2,175	
2019	0	180	978	45	0	1,203	1,297	967	0	2,264	1,061	2,350	
2020	0	185	978	46	0	1,209	1,070	982	0	2,053	844	2,477	
2021	0	191	978	46	0	1,214	1,016	999	0	2,015	801	2,588	
2022	0	196	978	46	0	1,220	958	1,017	0	1,974	754	2,684	
2023	0	202	978	47	0	1,226	884	1,035	0	1,920	694	2,765	
2024	0	208	978	47	0	1,232	795	1,056	0	1,851	619	2,831	
2025	0	214	978	47	0	1,239	693	1,077	0	1,770	531	2,883	
2026	0	220	978	48	0	1,245	573	1,100	0	1,674	428	2,922	
2027	0	226	978	48	0	1,252	719	1,127	0	1,845	594	2,971	
NOM.	0	9,082	21,079	963	0	31,125	28,023	20,197	0	48,220	17,095		
NPV	0	3,133	4,866	217	0	8,216	6,832	4,354	0	11,187	2,971		

000113

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.38

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: RESIDENTIAL LOAD CONTROL (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)	RLC-1
RATE CLASS: RS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 29.59
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ -
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ -
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ 71.96
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	RS
(1) NON FUEL COST IN CUSTOMER BILL (¢/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

411000

000115

**BUILDSMART**

NPV END 1998 (\$000)

<u>YEARS</u>	<u>RATE IMPACT TEST</u>			<u>PARTICIPANT TEST</u>			<u>TOTAL RESOURCE COST TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
	<u>\$ 29,895</u>	<u>\$ 24,710</u>	<u>1.21</u>	<u>\$ 28,736</u>	<u>\$ 23,954</u>	<u>1.20</u>	<u>\$ 29,895</u>	<u>\$ 30,331</u>	<u>0.99</u>

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Buildsmart : 2001 - 2004 installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.95 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.22 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1,528.3 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	30 YEARS
(4) K FACTOR FOR GENERATION .....	1.61524
(5) K FACTOR FOR T & D.....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	0.00 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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

000116

\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Buildmart : 2001 - 2004 installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	731	285	0	1,015	137	0	2,745	0	2,745	
2002	927	352	0	1,279	442	0	3,482	0	3,482	
2003	936	346	0	1,283	788	0	3,517	0	3,517	
2004	945	341	0	1,286	1,125	0	3,550	0	3,550	
2005	0	0	0	0	1,304	0	0	0	0	
2006	0	0	0	0	1,302	0	0	0	0	
2007	0	0	0	0	1,309	0	0	0	0	
2008	0	0	0	0	1,314	0	0	0	0	
2009	0	0	0	0	1,313	0	0	0	0	
2010	0	0	0	0	1,343	0	0	0	0	
2011	0	0	0	0	1,343	0	0	0	0	
2012	0	0	0	0	1,354	0	0	0	0	
2013	0	0	0	0	1,382	0	0	0	0	
2014	0	0	0	0	1,378	0	0	0	0	
2015	0	0	0	0	1,386	0	0	0	0	
2016	1,102	285	0	1,387	1,396	0	4,141	0	4,141	
2017	1,403	352	0	1,755	1,398	0	5,269	0	5,269	
2018	1,420	346	0	1,766	1,407	0	5,333	0	5,333	
2019	1,437	341	0	1,778	1,416	0	5,398	0	5,398	
2020	0	0	0	0	1,425	0	0	0	0	
2021	0	0	0	0	1,434	0	0	0	0	
2022	0	0	0	0	1,443	0	0	0	0	
2023	0	0	0	0	1,452	0	0	0	0	
2024	0	0	0	0	1,461	0	0	0	0	

000117

NOM	8,901	2,648	0	11,549	30,030	0	33,437	0	33,437
NPV	3,395	1,146	0	4,541	8,990	0	12,753	0	12,753

\* 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: Buildsmart : 2001 - 2004 installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2005	9,526	326	0	655	406	133	318	20	1,858	1,858	1,858
2006	9,126	312	0	627	285	133	318	144	1,800	1,651	3,509
2007	8,674	297	0	596	265	133	318	125	1,734	1,460	4,969
2008	8,240	282	0	567	264	133	318	107	1,670	1,291	6,260
2009	7,824	268	0	538	262	133	318	90	1,609	1,141	7,401
2010	7,424	254	0	510	260	133	318	75	1,551	1,009	8,410
2011	7,038	241	0	484	258	133	318	61	1,494	892	9,302
2012	6,666	228	0	458	255	133	318	48	1,440	789	10,091
2013	6,301	216	0	433	241	133	318	46	1,387	697	10,789
2014	5,938	203	0	408	226	133	318	46	1,334	615	11,404
2015	5,575	191	0	383	210	133	318	46	1,281	542	11,946
2016	5,211	178	0	358	194	133	318	46	1,228	477	12,423
2017	4,848	166	0	333	178	133	318	46	1,174	419	12,842
2018	4,484	153	0	308	163	133	318	46	1,121	367	13,208
2019	4,121	141	0	283	147	133	318	46	1,068	321	13,529
2020	3,758	129	0	258	131	133	318	46	1,015	280	13,809
2021	3,394	116	0	233	116	133	318	46	962	243	14,052
2022	3,031	104	0	208	100	133	318	46	909	211	14,263
2023	2,667	91	0	183	84	133	318	46	856	182	14,445
2024	2,304	79	0	158	69	133	318	46	803	157	14,602
2025	1,980	68	0	136	134	133	318	(34)	755	135	14,737
2026	1,736	59	0	119	203	133	318	(114)	720	118	14,856
2027	1,532	52	0	105	194	133	318	(114)	690	104	14,960
2028	1,328	45	0	91	186	133	318	(114)	660	91	15,051
2029	1,124	38	0	77	177	133	318	(114)	630	80	15,131
2030	919	31	0	63	168	133	318	(114)	600	70	15,201
2031	715	24	0	49	159	133	318	(114)	571	61	15,262
2032	511	17	0	35	150	133	318	(114)	541	53	15,315
2033	306	10	0	21	142	133	318	(114)	511	46	15,361
2034	102	3	0	7	133	133	318	(114)	481	40	15,401

811000

IN SERVICE COS (\$000) 9,535  
 IN SERVICE YEAR 2005  
 BOOK LIFE (YRS) 30  
 EFFEC. TAX RATE 38.575  
 DISCOUNT RATE 8.98%  
 OTAX & INS RATE 1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Buildsmart : 2001 - 2004 install

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(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 \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2005	3.75%	347	347	318	318	294	294	20	705	0	0	0	20	(140)
2006	7.22%	667	1,014	318	636	294	589	144	705	0	0	0	144	4
2007	6.68%	617	1,631	318	953	294	883	125	705	0	0	0	125	129
2008	6.18%	571	2,203	318	1,271	294	1,177	107	705	0	0	0	107	236
2009	5.71%	528	2,731	318	1,589	294	1,472	90	705	0	0	0	90	326
2010	5.29%	489	3,219	318	1,907	294	1,768	75	705	0	0	0	75	401
2011	4.89%	452	3,671	318	2,225	294	2,060	61	705	0	0	0	61	461
2012	4.52%	418	4,089	318	2,543	294	2,355	48	705	0	0	0	48	509
2013	4.46%	412	4,502	318	2,860	294	2,649	46	705	0	0	0	46	555
2014	4.46%	412	4,914	318	3,178	294	2,943	46	705	0	0	0	46	600
2015	4.46%	412	5,326	318	3,496	294	3,237	46	705	0	0	0	46	646
2016	4.46%	412	5,739	318	3,814	294	3,532	46	705	0	0	0	46	691
2017	4.46%	412	6,151	318	4,132	294	3,826	46	705	0	0	0	46	737
2018	4.46%	412	6,564	318	4,450	294	4,120	46	705	0	0	0	46	783
2019	4.46%	412	6,976	318	4,767	294	4,415	46	705	0	0	0	46	828
2020	4.46%	412	7,388	318	5,085	294	4,709	46	705	0	0	0	46	874
2021	4.46%	412	7,801	318	5,403	294	5,003	46	705	0	0	0	46	919
2022	4.46%	412	8,213	318	5,721	294	5,298	46	705	0	0	0	46	965
2023	4.46%	412	8,626	318	6,039	294	5,592	46	705	0	0	0	46	1,010
2024	4.46%	412	9,038	318	6,357	294	5,886	46	705	0	0	0	46	1,056
2025	2.23%	206	9,244	318	6,674	294	6,181	(34)	705	0	0	0	(34)	1,022
2026	0.00%	0	9,244	318	6,992	294	6,475	(114)	705	0	0	0	(114)	908
2027	0.00%	0	9,244	318	7,310	294	6,769	(114)	705	0	0	0	(114)	795
2028	0.00%	0	9,244	318	7,628	294	7,064	(114)	705	0	0	0	(114)	681
2029	0.00%	0	9,244	318	7,946	294	7,358	(114)	705	0	0	0	(114)	568
2030	0.00%	0	9,244	318	8,264	294	7,652	(114)	705	0	0	0	(114)	454
2031	0.00%	0	9,244	318	8,581	294	7,947	(114)	705	0	0	0	(114)	341
2032	0.00%	0	9,244	318	8,899	294	8,241	(114)	705	0	0	0	(114)	227
2033	0.00%	0	9,244	318	9,217	294	8,535	(114)	705	0	0	0	(114)	114
2034	0.00%	0	9,244	318	9,535	294	8,830	(114)	705	0	0	0	(114)	0

611000

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(160)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	705
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Buildsmart : 2001 - 2004 installations

(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)
2005	3.75%	347	20	9,217	318	(140)	9,695	9,357	9,526
2006	7.22%	667	144	8,899	636	4	9,357	8,895	9,126
2007	6.68%	617	125	8,581	953	129	8,895	8,453	8,674
2008	6.18%	571	107	8,264	1,271	236	8,453	8,028	8,240
2009	5.71%	528	90	7,946	1,589	326	8,028	7,620	7,824
2010	5.29%	489	75	7,628	1,907	401	7,620	7,227	7,424
2011	4.89%	452	61	7,310	2,225	461	7,227	6,849	7,038
2012	4.52%	418	48	6,992	2,543	509	6,849	6,483	6,666
2013	4.46%	412	46	6,674	2,860	555	6,483	6,120	6,301
2014	4.46%	412	46	6,357	3,178	600	6,120	5,756	5,938
2015	4.46%	412	46	6,039	3,496	646	5,756	5,393	5,575
2016	4.46%	412	46	5,721	3,814	691	5,393	5,030	5,211
2017	4.46%	412	46	5,403	4,132	737	5,030	4,666	4,848
2018	4.46%	412	46	5,085	4,450	783	4,666	4,303	4,484
2019	4.46%	412	46	4,767	4,767	828	4,303	3,939	4,121
2020	4.46%	412	46	4,450	5,085	874	3,939	3,576	3,758
2021	4.46%	412	46	4,132	5,403	919	3,576	3,213	3,394
2022	4.46%	412	46	3,814	5,721	965	3,213	2,849	3,031
2023	4.46%	412	46	3,496	6,039	1,010	2,849	2,486	2,667
2024	4.46%	412	46	3,178	6,357	1,056	2,486	2,122	2,304
2025	2.23%	206	(34)	2,860	6,674	1,022	2,122	1,839	1,980
2026	0.00%	0	(114)	2,543	6,992	908	1,839	1,634	1,736
2027	0.00%	0	(114)	2,225	7,310	795	1,634	1,430	1,532
2028	0.00%	0	(114)	1,907	7,628	681	1,430	1,226	1,328
2029	0.00%	0	(114)	1,589	7,946	568	1,226	1,021	1,124
2030	0.00%	0	(114)	1,271	8,264	454	1,021	817	919
2031	0.00%	0	(114)	953	8,581	341	817	613	715
2032	0.00%	0	(114)	636	8,899	227	613	408	511
2033	0.00%	0	(114)	318	9,217	114	408	204	306
2034	0.00%	0	(114)	(0)	9,535	0	204	0	102

\* Column not specified in workbook

000120

(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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.061	0.85%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00%      582.24

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	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.46	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	5.09	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	24.80	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	72.53	34.44	52.57	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

BOOK BASIS			
	BOOK BASIS	FOR DEF TAX	TAX BASIS
IN SERVICE YEAR	2005		
PLANT COSTS	519		
AFUDC RATE	10.30%		
CONSTRUCTION CASH	8,479	8,479	8,479
EQUITY AFUDC	705		
DEBT AFUDC	351	351	
CPI			765
TOTAL	9,535	8,830	9,244

\* Column not specified in workbook

000121

INPUT DATA – PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME: Buildsmart : 2001 - 2004 installations

(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
1998	0	0	2.00	2.42	2.04	0.00	1.00	1.00
1999	0	0	2.23	2.73	2.31	0.00	1.00	1.00
2000	0	0	2.45	3.05	2.54	0.00	1.00	1.00
2001	2,572	2,572	2.73	3.62	2.86	0.00	1.00	1.00
2002	5,753	5,753	2.61	3.21	2.73	0.00	1.00	1.00
2003	8,881	8,881	2.60	3.33	2.70	0.00	1.00	1.00
2004	11,959	11,959	2.78	3.60	2.90	0.00	1.00	1.00
2005	11,959	11,959	2.93	3.93	3.07	3.25	1.00	1.00
2006	11,959	11,959	3.01	4.02	3.15	3.34	1.00	1.00
2007	11,959	11,959	3.13	4.39	3.29	3.49	1.00	1.00
2008	11,959	11,959	3.07	4.20	3.22	3.45	1.00	1.00
2009	11,959	11,959	3.15	4.32	3.30	3.60	1.00	1.00
2010	11,959	11,959	3.14	4.49	3.30	3.57	1.00	1.00
2011	11,959	11,959	3.32	4.63	3.49	3.71	1.00	1.00
2012	11,959	11,959	3.38	4.75	3.55	3.77	1.00	1.00
2013	11,959	11,959	3.47	4.91	3.65	3.84	1.00	1.00
2014	11,959	11,959	3.55	5.08	3.72	3.92	1.00	1.00
2015	11,959	11,959	3.58	5.18	3.76	3.95	1.00	1.00
2016	11,959	11,959	3.62	5.29	3.80	4.00	1.00	1.00
2017	11,959	11,959	3.75	5.51	3.93	4.13	1.00	1.00
2018	11,959	11,959	3.93	5.79	4.13	4.35	1.00	1.00
2019	11,959	11,959	4.09	6.12	4.31	4.55	1.00	1.00
2020	11,959	11,959	4.23	6.36	4.47	4.79	1.00	1.00
2021	11,959	11,959	4.32	6.53	4.56	4.88	1.00	1.00
2022	11,959	11,959	4.41	6.73	4.66	4.97	1.00	1.00
2023	11,959	11,959	4.53	6.94	4.79	5.10	1.00	1.00
2024	11,959	11,959	4.64	7.17	4.91	5.23	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.

000122

AVOIDED GENERATING BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Buldemart : 2001 - 2004 installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&N \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	1,858	667	94	2,514	3,789	1,363
2006	1,800	693	99	2,634	3,987	1,239
2007	1,734	721	103	2,713	4,225	1,046
2008	1,670	750	106	2,745	4,169	1,102
2009	1,609	780	107	2,749	4,298	947
2010	1,551	811	106	2,676	4,105	1,039
2011	1,494	844	109	2,714	4,270	891
2012	1,440	877	113	2,793	4,338	885
2013	1,387	912	115	2,879	4,375	918
2014	1,334	949	117	2,962	4,422	940
2015	1,281	987	120	3,015	4,450	953
2016	1,228	1,026	122	3,066	4,464	979
2017	1,174	1,067	126	3,160	4,629	899
2018	1,121	1,110	131	3,256	4,890	728
2019	1,068	1,154	136	3,371	5,168	561
2020	1,015	1,201	140	3,472	5,443	385
2021	962	1,249	144	3,548	5,542	360
2022	909	1,299	148	3,630	5,648	338
2023	856	1,351	152	4,098	5,786	671
2024	803	1,405	157	4,098	5,936	526
NOM	26,294	19,852	2445	62,095	93,915	16,771
NPV	8,000	4,858	623	15,906	24,169	5,218

000123

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Buildsmart : 2001 - 2004 installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	82	0
2002	42	10	52	27	44	71	229	0
2003	94	23	117	61	101	162	426	0
2004	143	37	181	93	162	256	658	0
2005	191	52	244	124	228	352	834	0
2006	184	55	239	120	237	356	852	0
2007	177	57	234	115	246	361	948	0
2008	171	59	230	111	256	367	898	0
2009	164	61	225	107	266	373	927	0
2010	158	64	222	103	277	379	978	0
2011	152	66	218	99	288	386	998	0
2012	146	69	215	95	299	394	1,028	0
2013	140	72	212	91	311	402	1,066	0
2014	134	75	209	87	324	411	1,107	0
2015	128	78	206	83	337	420	1,132	0
2016	122	81	203	79	350	430	1,161	0
2017	116	84	200	75	364	440	1,212	0
2018	110	87	198	72	379	450	1,275	0
2019	104	91	195	68	394	462	1,356	0
2020	98	94	193	64	410	474	1,411	0
2021	92	98	191	60	426	486	1,453	0
2022	87	102	189	56	443	499	1,500	0
2023	81	106	188	53	461	514	1,550	0
2024	77	111	187	50	479	529	1,604	0
NOM.	2,911	1,633	4,544	1,892	7,082	8,974	24,685	0
NPV	985	427	1,412	640	1,852	2,492	6,671	0

000124

\* 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: Buldsmart : 2001 - 2004 installations**

000125

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	731	2,745	0	3,476	0	0	82	0	82	(3,393)	(2,622)
2002	0	927	3,482	0	4,409	0	123	229	0	352	(4,057)	(5,499)
2003	0	936	3,517	0	4,454	0	279	426	0	705	(3,749)	(7,938)
2004	0	945	3,550	0	4,495	0	437	658	0	1,095	(3,400)	(9,968)
2005	0	0	0	0	0	1,363	596	834	0	2,793	2,793	(8,438)
2006	0	0	0	0	0	1,239	595	852	0	2,686	2,686	(7,088)
2007	0	0	0	0	0	1,046	595	948	0	2,589	2,589	(5,893)
2008	0	0	0	0	0	1,102	596	898	0	2,596	2,596	(4,794)
2009	0	0	0	0	0	947	598	927	0	2,472	2,472	(3,834)
2010	0	0	0	0	0	1,039	601	978	0	2,618	2,618	(2,901)
2011	0	0	0	0	0	891	605	998	0	2,494	2,494	(2,085)
2012	0	0	0	0	0	885	609	1,028	0	2,522	2,522	(1,328)
2013	0	0	0	0	0	918	614	1,066	0	2,597	2,597	(612)
2014	0	0	0	0	0	940	619	1,107	0	2,667	2,667	62
2015	0	0	0	0	0	953	625	1,132	0	2,711	2,711	691
2016	0	1,102	4,141	0	5,244	979	632	1,161	0	2,772	(2,472)	165
2017	0	1,403	5,269	0	6,672	899	640	1,212	0	2,751	(3,922)	(601)
2018	0	1,420	5,333	0	6,753	728	648	1,275	0	2,651	(4,102)	(1,337)
2019	0	1,437	5,398	0	6,835	561	657	1,356	0	2,573	(4,262)	(2,038)
2020	0	0	0	0	0	385	666	1,411	0	2,462	2,462	(1,666)
2021	0	0	0	0	0	360	677	1,453	0	2,491	2,491	(1,321)
2022	0	0	0	0	0	338	688	1,500	0	2,527	2,527	(1,000)
2023	0	0	0	0	0	671	701	1,550	0	2,922	2,922	(659)
2024	0	0	0	0	0	526	716	1,604	0	2,847	2,847	(355)

NOM	0	8,901	33,437	0	42,338	16,771	13,518	24,685	0	54,974	12,636
NPV	0	3,395	12,753	0	16,148	5,218	3,904	6,671	0	15,793	(355)

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 0.98



**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: Buildsmart : 2001 - 2004 installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	224	0	285	0	509	2,745	0	0	2,745	(2,236)	(1,728)
2002	724	0	352	0	1,076	3,482	0	0	3,482	(2,406)	(3,434)
2003	1,291	0	346	0	1,638	3,517	0	0	3,517	(1,880)	(4,657)
2004	1,844	0	341	0	2,185	3,550	0	0	3,550	(1,365)	(5,472)
2005	2,138	0	0	0	2,138	0	0	0	0	2,138	(4,301)
2006	2,134	0	0	0	2,134	0	0	0	0	2,134	(3,228)
2007	2,145	0	0	0	2,145	0	0	0	0	2,145	(2,238)
2008	2,154	0	0	0	2,154	0	0	0	0	2,154	(1,326)
2009	2,153	0	0	0	2,153	0	0	0	0	2,153	(490)
2010	2,202	0	0	0	2,202	0	0	0	0	2,202	295
2011	2,202	0	0	0	2,202	0	0	0	0	2,202	1,016
2012	2,220	0	0	0	2,220	0	0	0	0	2,220	1,682
2013	2,233	0	0	0	2,233	0	0	0	0	2,233	2,297
2014	2,259	0	0	0	2,259	0	0	0	0	2,259	2,868
2015	2,272	0	0	0	2,272	0	0	0	0	2,272	3,395
2016	2,268	0	285	0	2,573	4,141	0	0	4,141	(1,568)	3,061
2017	2,291	0	352	0	2,643	5,269	0	0	5,269	(2,626)	2,548
2018	2,306	0	346	0	2,652	5,333	0	0	5,333	(2,681)	2,068
2019	2,321	0	341	0	2,661	5,398	0	0	5,398	(2,737)	1,618
2020	2,335	0	0	0	2,335	0	0	0	0	2,335	1,970
2021	2,350	0	0	0	2,350	0	0	0	0	2,350	2,296
2022	2,365	0	0	0	2,365	0	0	0	0	2,365	2,596
2023	2,380	0	0	0	2,380	0	0	0	0	2,380	2,874
2024	2,396	0	0	0	2,396	0	0	0	0	2,396	3,130

000126

NOM	49,229	0	2,648	0	51,877	33,437	0	0	33,437	18,440
NPV	14,737	0	1,146	0	15,883	12,753	0	0	12,753	3,130

In Service of Gen Unit:

Discount Rate :

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

2005

8.98 %

1.26

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: Bulldsmart : 2001 - 2004 installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	731	285	137	0	1,152	82	0	0	82	(1,070)	(827)	
2002	0	927	352	442	0	1,721	229	123	0	352	(1,369)	(1,797)	
2003	0	936	346	788	0	2,070	426	279	0	705	(1,366)	(2,686)	
2004	0	945	341	1,125	0	2,411	658	437	0	1,095	(1,316)	(3,471)	
2005	0	0	0	1,304	0	1,304	2,197	596	0	2,793	1,489	(2,656)	
2006	0	0	0	1,302	0	1,302	2,091	595	0	2,686	1,384	(1,960)	
2007	0	0	0	1,309	0	1,309	1,994	595	0	2,589	1,281	(1,369)	
2008	0	0	0	1,314	0	1,314	2,000	596	0	2,596	1,282	(826)	
2009	0	0	0	1,313	0	1,313	1,873	598	0	2,472	1,159	(376)	
2010	0	0	0	1,343	0	1,343	2,017	601	0	2,618	1,274	78	
2011	0	0	0	1,343	0	1,343	1,890	605	0	2,494	1,151	455	
2012	0	0	0	1,354	0	1,354	1,914	609	0	2,522	1,168	805	
2013	0	0	0	1,362	0	1,362	1,983	614	0	2,597	1,235	1,146	
2014	0	0	0	1,378	0	1,378	2,047	619	0	2,667	1,289	1,471	
2015	0	0	0	1,386	0	1,386	2,085	625	0	2,711	1,325	1,779	
2016	0	1,102	285	1,396	0	2,783	2,140	632	0	2,772	(11)	1,776	
2017	0	1,403	352	1,398	0	3,153	2,111	640	0	2,751	(402)	1,698	
2018	0	1,420	346	1,407	0	3,173	2,003	648	0	2,651	(522)	1,604	
2019	0	1,437	341	1,416	0	3,193	1,917	657	0	2,573	(620)	1,502	
2020	0	0	0	1,425	0	1,425	1,796	666	0	2,462	1,037	1,659	
2021	0	0	0	1,434	0	1,434	1,814	677	0	2,491	1,057	1,805	
2022	0	0	0	1,443	0	1,443	1,838	688	0	2,527	1,084	1,943	
2023	0	0	0	1,452	0	1,452	2,221	701	0	2,922	1,470	2,114	
2024	0	0	0	1,461	0	1,461	2,130	716	0	2,847	1,385	2,263	
<hr/>													
NOM.	0	8,901	2,648	30,030	0	41,579	41,455	13,518	0	0	54,974	13,395	
NPV	0	3,395	1,146	8,990	0	13,530	11,889	3,904	0	0	15,793	2,263	

000127

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.17

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: RESIDENTIAL NEW CONSTRUCTION (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

BLDSMT-1

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: RS

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 262.51
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 986.07
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 110.70
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

V. NON-FUEL ENERGY AND DEMAND CHARGES	RS
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

000128

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Buildsmart : 2005 - 2007 installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.95 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.22 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1,528.3 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.1 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	30 YEARS
(4) K FACTOR FOR GENERATION .....	1.61528
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2005-2007
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	... CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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

000129

\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Buildsmart : 2005 - 2007 installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	1,349	473	0	1,822	233	0	5,066	0	5,066	
2006	1,386	474	0	1,860	699	0	5,207	0	5,207	
2007	1,438	478	0	1,916	1,173	0	5,401	0	5,401	
2008	0	0	0	0	1,415	0	0	0	0	
2009	0	0	0	0	1,414	0	0	0	0	
2010	0	0	0	0	1,447	0	0	0	0	
2011	0	0	0	0	1,446	0	0	0	0	
2012	0	0	0	0	1,458	0	0	0	0	
2013	0	0	0	0	1,467	0	0	0	0	
2014	0	0	0	0	1,484	0	0	0	0	
2015	0	0	0	0	1,492	0	0	0	0	
2016	0	0	0	0	1,503	0	0	0	0	
2017	0	0	0	0	1,505	0	0	0	0	
2018	0	0	0	0	1,515	0	0	0	0	
2019	0	0	0	0	1,524	0	0	0	0	
2020	2,055	473	0	2,528	1,534	0	7,719	0	7,719	
2021	2,116	474	0	2,590	1,544	0	7,948	0	7,948	
2022	2,199	478	0	2,678	1,554	0	8,260	0	8,260	
2023	0	0	0	0	1,564	0	0	0	0	
2024	0	0	0	0	1,574	0	0	0	0	
2025	0	0	0	0	1,584	0	0	0	0	
2026	0	0	0	0	1,594	0	0	0	0	
2027	0	0	0	0	1,604	0	0	0	0	
NOM	10,543	2,851	0	13,394	32,326	0	39,602	0	39,602	
NPV	2,982	916	0	3,898	7,282	0	11,201	0	11,201	

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

000130

**CALCULATION OF GEN K-FACTOR**  
**PROGRAM METHOD SELECTED REV\_REQ**  
**PROGRAM NAME: Buildsmart : 2005 - 2007 installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2008	10,942	374	0	752	466	153	365	23	2,134	2,134	2,134
2009	10,483	359	0	721	304	153	365	165	2,067	1,897	4,031
2010	9,964	341	0	685	304	153	365	143	1,991	1,677	5,708
2011	9,466	324	0	651	303	153	365	123	1,919	1,482	7,191
2012	8,987	307	0	618	301	153	365	104	1,849	1,311	8,501
2013	8,528	292	0	586	299	153	365	86	1,781	1,159	9,681
2014	8,085	276	0	556	296	153	365	70	1,717	1,025	10,686
2015	7,657	262	0	526	293	153	365	55	1,654	906	11,592
2016	7,238	248	0	498	277	153	365	52	1,593	801	12,393
2017	6,821	233	0	469	259	153	365	52	1,532	707	13,100
2018	6,404	219	0	440	241	153	365	52	1,471	623	13,723
2019	5,986	205	0	412	223	153	365	52	1,410	548	14,270
2020	5,569	190	0	383	205	153	365	52	1,349	481	14,751
2021	5,151	176	0	354	187	153	365	52	1,288	421	15,173
2022	4,734	162	0	325	169	153	365	52	1,227	368	15,541
2023	4,316	148	0	297	151	153	365	52	1,166	321	15,862
2024	3,899	133	0	268	133	153	365	52	1,105	279	16,142
2025	3,482	119	0	239	115	153	365	52	1,044	242	16,384
2026	3,064	105	0	211	97	153	365	52	983	209	16,593
2027	2,647	91	0	182	79	153	365	52	922	180	16,773
2028	2,275	78	0	156	154	153	365	(39)	868	156	16,929
2029	1,995	68	0	137	234	153	365	(130)	827	138	17,065
2030	1,760	60	0	121	223	153	365	(130)	793	120	17,184
2031	1,525	52	0	105	213	153	365	(130)	758	105	17,289
2032	1,291	44	0	89	203	153	365	(130)	724	92	17,381
2033	1,056	36	0	73	193	153	365	(130)	690	80	17,462
2034	821	28	0	56	183	153	365	(130)	655	70	17,532
2035	587	20	0	40	173	153	365	(130)	621	61	17,593
2036	352	12	0	24	163	153	365	(130)	587	53	17,646
2037	117	4	0	8	152	153	365	(130)	553	46	17,691

000131

IN SERVICE COS (\$000)	10,953
IN SERVICE YEAR	2008
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Buildsmart : 2005 - 2007 install

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX	TAX	ACCUMULATED	BOOK	ACCUMULATED	BOOK DEPR	BOOK DEPR	DEFERRED	TOTAL	BOOK DEPR	(10)*(11)	SALVAGE	ANNUAL	ACCUMULATED
	DEPRECIATION SCHEDULE	DEPRECIATION \$(000)	DEPRECIATION TAX \$(000)	DEPRECIATION TAX \$(000)	DEPRECIATION TAX \$(000)	FOR DEFERRED TA \$(000)	FOR DEFERRED TA \$(000)	TAX DUE TO DEPRECIATION \$(000)	EQUITY AFUDC \$(000)	RATE MINUS 1/LIFE	TAX RATE \$(000)	TAX RATE \$(000)	DEFERRED TA \$(000)	DEFERRED TAX \$(000)
2008	3.75%	398	398	365	365	338	338	23	811	0	0	0	23	(161)
2009	7.22%	767	1,165	365	730	338	676	165	811	0	0	0	165	5
2010	6.68%	709	1,874	365	1,095	338	1,014	143	811	0	0	0	143	148
2011	8.18%	856	2,530	365	1,460	338	1,352	123	811	0	0	0	123	270
2012	5.71%	607	3,137	365	1,825	338	1,690	104	811	0	0	0	104	374
2013	5.29%	561	3,698	365	2,191	338	2,028	86	811	0	0	0	86	460
2014	4.89%	519	4,217	365	2,556	338	2,366	70	811	0	0	0	70	530
2015	4.52%	480	4,697	365	2,921	338	2,704	55	811	0	0	0	55	585
2016	4.46%	474	5,171	365	3,286	338	3,043	52	811	0	0	0	52	637
2017	4.46%	474	5,644	365	3,651	338	3,381	52	811	0	0	0	52	689
2018	4.46%	474	6,118	365	4,016	338	3,719	52	811	0	0	0	52	742
2019	4.46%	474	6,592	365	4,381	338	4,057	52	811	0	0	0	52	794
2020	4.46%	474	7,066	365	4,746	338	4,395	52	811	0	0	0	52	846
2021	4.46%	474	7,539	365	5,111	338	4,733	52	811	0	0	0	52	899
2022	4.46%	474	8,013	365	5,476	338	5,071	52	811	0	0	0	52	951
2023	4.46%	474	8,487	365	5,841	338	5,409	52	811	0	0	0	52	1,003
2024	4.46%	474	8,961	365	6,206	338	5,747	52	811	0	0	0	52	1,056
2025	4.46%	474	9,434	365	6,572	338	6,085	52	811	0	0	0	52	1,108
2026	4.46%	474	9,908	365	6,937	338	6,423	52	811	0	0	0	52	1,160
2027	4.46%	474	10,382	365	7,302	338	6,761	52	811	0	0	0	52	1,213
2028	2.23%	237	10,619	365	7,667	338	7,099	(39)	811	0	0	0	(39)	1,174
2029	0.00%	0	10,619	365	8,032	338	7,437	(130)	811	0	0	0	(130)	1,043
2030	0.00%	0	10,619	365	8,397	338	7,775	(130)	811	0	0	0	(130)	913
2031	0.00%	0	10,619	365	8,762	338	8,113	(130)	811	0	0	0	(130)	783
2032	0.00%	0	10,619	365	9,127	338	8,451	(130)	811	0	0	0	(130)	652
2033	0.00%	0	10,619	365	9,492	338	8,789	(130)	811	0	0	0	(130)	522
2034	0.00%	0	10,619	365	9,857	338	9,128	(130)	811	0	0	0	(130)	391
2035	0.00%	0	10,619	365	10,222	338	9,466	(130)	811	0	0	0	(130)	261
2036	0.00%	0	10,619	365	10,588	338	9,804	(130)	811	0	0	0	(130)	131
2037	0.00%	0	10,619	365	10,953	338	10,142	(130)	811	0	0	0	(130)	0

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SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(184)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	811
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Buildsmart : 2005 - 2007 installations

(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)
2008	3.75%	398	23	10,588	365	(161)	11,136	10,748	10,942
2009	7.22%	767	165	10,222	730	5	10,748	10,218	10,483
2010	6.68%	709	143	9,857	1,095	148	10,218	9,710	9,964
2011	6.18%	656	123	9,492	1,460	270	9,710	9,222	9,466
2012	5.71%	607	104	9,127	1,825	374	9,222	8,753	8,987
2013	5.29%	561	86	8,762	2,191	460	8,753	8,302	8,528
2014	4.89%	519	70	8,397	2,556	530	8,302	7,867	8,085
2015	4.52%	480	55	8,032	2,921	585	7,867	7,447	7,657
2016	4.48%	474	52	7,667	3,286	637	7,447	7,030	7,238
2017	4.46%	474	52	7,302	3,651	689	7,030	6,612	6,821
2018	4.46%	474	52	6,937	4,016	742	6,612	6,195	6,404
2019	4.46%	474	52	6,572	4,381	794	6,195	5,777	5,986
2020	4.46%	474	52	6,206	4,746	846	5,777	5,360	5,569
2021	4.46%	474	52	5,841	5,111	899	5,360	4,943	5,151
2022	4.46%	474	52	5,476	5,476	951	4,943	4,525	4,734
2023	4.46%	474	52	5,111	5,841	1,003	4,525	4,108	4,316
2024	4.46%	474	52	4,746	6,206	1,056	4,108	3,690	3,899
2025	4.46%	474	52	4,381	6,572	1,108	3,690	3,273	3,482
2026	4.46%	474	52	4,016	6,937	1,160	3,273	2,855	3,064
2027	4.46%	474	52	3,651	7,302	1,213	2,855	2,438	2,647
2028	2.23%	237	(39)	3,286	7,667	1,174	2,438	2,112	2,275
2029	0.00%	0	(130)	2,921	8,032	1,043	2,112	1,877	1,995
2030	0.00%	0	(130)	2,556	8,397	913	1,877	1,643	1,760
2031	0.00%	0	(130)	2,191	8,762	783	1,643	1,408	1,525
2032	0.00%	0	(130)	1,825	9,127	652	1,408	1,173	1,291
2033	0.00%	0	(130)	1,460	9,492	522	1,173	939	1,056
2034	0.00%	0	(130)	1,095	9,857	391	939	704	821
2035	0.00%	0	(130)	730	10,222	261	704	469	587
2036	0.00%	0	(130)	365	10,588	131	469	235	352
2037	0.00%	0	(130)	0	10,953	0	235	0	117

\* Column not specified in workbook

000133



(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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.10	0.07	0.07	(0.01)	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.49	0.29	0.36	(0.06)	(0.08)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	5.44	3.64	4.00	(0.77)	(0.85)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	26.50	15.37	19.37	(3.23)	(4.08)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	56.12	(7.65)	(11.72)	364.72	698.45
			25.72		77.43		56.12		(11.72)		698.45	

481000

IN SERVICE YEAR 2008  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	9,738	9,738	9,738
EQUITY AFUDC	811		
DEBT AFUDC	403	403	
CPI			880
<b>TOTAL</b>	<b>10,953</b>	<b>10,142</b>	<b>10,618</b>

\* Column not specified in workbook

INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME: Buildsmart : 2005 - 2007 installations

(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 PROGRAM FUEL COST (C/kWh)	PROGRAM EFFECTIVENESS FACTOR	PROGRAM EFFECTIVENESS FACTOR
1998	0	0	2.00	2.42	2.04	0.00	1.00	1.00
1999	0	0	2.23	2.73	2.31	0.00	1.00	1.00
2000	0	0	2.45	3.05	2.54	0.00	1.00	1.00
2001	0	0	2.73	3.62	2.86	0.00	1.00	1.00
2002	0	0	2.61	3.21	2.73	0.00	1.00	1.00
2003	0	0	2.60	3.33	2.70	0.00	1.00	1.00
2004	0	0	2.78	3.60	2.90	0.00	1.00	1.00
2005	4,276	4,276	2.84	3.78	2.95	0.00	1.00	1.00
2006	8,556	8,556	2.91	3.88	3.04	0.00	1.00	1.00
2007	12,878	12,878	3.02	4.17	3.16	0.00	1.00	1.00
2008	12,878	12,878	3.07	4.20	3.22	3.49	1.00	1.00
2009	12,878	12,878	3.14	4.32	3.30	3.69	1.00	1.00
2010	12,878	12,878	3.14	4.49	3.30	3.64	1.00	1.00
2011	12,878	12,878	3.31	4.63	3.49	3.75	1.00	1.00
2012	12,878	12,878	3.38	4.75	3.55	3.81	1.00	1.00
2013	12,878	12,878	3.47	4.91	3.65	3.86	1.00	1.00
2014	12,878	12,878	3.55	5.08	3.72	3.92	1.00	1.00
2015	12,878	12,878	3.58	5.18	3.76	3.94	1.00	1.00
2016	12,878	12,878	3.62	5.29	3.80	3.98	1.00	1.00
2017	12,878	12,878	3.75	5.51	3.93	4.12	1.00	1.00
2018	12,878	12,878	3.93	5.79	4.14	4.33	1.00	1.00
2019	12,878	12,878	4.09	6.12	4.31	4.54	1.00	1.00
2020	12,878	12,878	4.23	6.36	4.47	4.76	1.00	1.00
2021	12,878	12,878	4.34	6.56	4.58	4.88	1.00	1.00
2022	12,878	12,878	4.45	6.78	4.70	5.00	1.00	1.00
2023	12,878	12,878	4.56	7.00	4.82	5.13	1.00	1.00
2024	12,878	12,878	4.67	7.23	4.94	5.27	1.00	1.00
2025	12,878	12,878	4.80	7.48	5.08	5.42	1.00	1.00
2026	12,878	12,878	4.94	7.74	5.23	5.59	1.00	1.00
2027	12,878	12,878	5.07	7.74	5.23	5.59	1.00	1.00

000135

\* 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: Buildsmart : 2005 - 2007 installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	2,134	802	111	2,884	4,433	1,498
2009	2,067	834	110	2,818	4,505	1,324
2010	1,991	867	110	2,766	4,312	1,422
2011	1,919	902	116	2,876	4,563	1,249
2012	1,849	938	119	2,954	4,632	1,227
2013	1,781	975	124	3,106	4,733	1,253
2014	1,717	1,014	128	3,250	4,835	1,274
2015	1,654	1,055	132	3,308	4,862	1,287
2016	1,593	1,097	136	3,402	4,919	1,309
2017	1,532	1,141	140	3,494	5,088	1,218
2018	1,471	1,186	144	3,592	5,370	1,023
2019	1,410	1,234	149	3,703	5,650	845
2020	1,349	1,283	153	3,814	5,924	675
2021	1,288	1,335	158	3,914	6,068	627
2022	1,227	1,388	162	4,016	6,219	574
2023	1,166	1,443	167	4,115	6,382	509
2024	1,105	1,501	172	4,210	6,556	431
2025	1,044	1,561	177	4,309	6,749	341
2026	983	1,624	182	4,409	6,962	236
2027	922	1,689	187	4,509	6,962	346
NOM	30,204	23,867	2873	71,449	109,727	18,667
NPV	7,101	4,513	558	13,985	21,470	4,687

000136

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Buildsmart : 2005 - 2007 installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	143	0
2006	75	20	95	49	85	134	441	0
2007	150	41	190	97	176	273	803	0
2008	223	64	287	145	276	421	968	0
2009	215	66	281	140	287	426	998	0
2010	207	69	275	134	298	432	1,054	0
2011	199	71	270	129	310	439	1,076	0
2012	191	74	266	124	322	447	1,107	0
2013	184	77	261	120	335	455	1,147	0
2014	177	80	257	115	349	464	1,192	0
2015	170	84	254	111	363	473	1,219	0
2016	163	87	250	106	377	483	1,250	0
2017	156	90	247	102	392	494	1,305	0
2018	150	94	244	97	408	505	1,373	0
2019	143	98	241	93	424	517	1,460	0
2020	136	102	238	88	441	530	1,519	0
2021	129	106	235	84	459	543	1,572	0
2022	122	110	233	80	477	557	1,628	0
2023	116	114	230	75	496	571	1,685	0
2024	109	119	228	71	516	587	1,745	0
2025	102	124	226	66	537	603	1,808	0
2026	96	129	224	62	558	620	1,876	0
2027	90	134	224	58	581	639	1,858	0
NOM.	3,303	1,953	5,255	2,147	8,467	10,613	29,227	0
NPV	837	386	1,223	544	1,675	2,219	5,973	0

000137

\* 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: Buildsmart : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,349	5,066	0	6,415	0	0	143	0	143	(6,272)	(3,436)
2006	0	1,386	5,207	0	6,593	0	228	441	0	670	(5,923)	(6,414)
2007	0	1,438	5,401	0	6,839	0	464	803	0	1,266	(5,572)	(8,985)
2008	0	0	0	0	0	1,498	707	968	0	3,173	3,173	(7,642)
2009	0	0	0	0	0	1,324	707	998	0	3,029	3,029	(6,465)
2010	0	0	0	0	0	1,422	708	1,054	0	3,183	3,183	(5,330)
2011	0	0	0	0	0	1,249	710	1,076	0	3,034	3,034	(4,338)
2012	0	0	0	0	0	1,227	712	1,107	0	3,047	3,047	(3,423)
2013	0	0	0	0	0	1,253	716	1,147	0	3,116	3,116	(2,565)
2014	0	0	0	0	0	1,274	721	1,192	0	3,187	3,187	(1,759)
2015	0	0	0	0	0	1,287	727	1,219	0	3,233	3,233	(1,009)
2016	0	0	0	0	0	1,309	733	1,250	0	3,292	3,292	(309)
2017	0	0	0	0	0	1,218	741	1,305	0	3,264	3,264	329
2018	0	0	0	0	0	1,023	749	1,373	0	3,145	3,145	893
2019	0	0	0	0	0	845	758	1,460	0	3,063	3,063	1,396
2020	0	2,055	7,719	0	9,774	675	767	1,519	0	2,961	(6,813)	368
2021	0	2,116	7,948	0	10,064	627	778	1,572	0	2,976	(7,088)	(613)
2022	0	2,199	8,260	0	10,459	574	789	1,628	0	2,991	(7,468)	(1,563)
2023	0	0	0	0	0	509	802	1,685	0	2,996	2,996	(1,213)
2024	0	0	0	0	0	431	815	1,745	0	2,991	2,991	(893)
2025	0	0	0	0	0	341	829	1,808	0	2,978	2,978	(601)
2026	0	0	0	0	0	236	845	1,876	0	2,956	2,956	(334)
2027	0	0	0	0	0	346	863	1,858	0	3,067	3,067	(81)
NOM	0	10,543	39,602	0	50,145	18,667	15,869	29,227	0	63,763	13,618	
NPV	0	2,982	11,201	0	14,183	4,687	3,442	5,973	0	14,102	(81)	

000138

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 0.99

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: Buildsmart : 2005 - 2007 installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	382	0	473	0	856	5,066	0	0	5,066	(4,211)	(2,307)
2006	1,145	0	474	0	1,619	5,207	0	0	5,207	(3,588)	(4,111)
2007	1,923	0	478	0	2,401	5,401	0	0	5,401	(3,000)	(5,495)
2008	2,320	0	0	0	2,320	0	0	0	0	2,320	(4,513)
2009	2,318	0	0	0	2,318	0	0	0	0	2,318	(3,612)
2010	2,372	0	0	0	2,372	0	0	0	0	2,372	(2,767)
2011	2,371	0	0	0	2,371	0	0	0	0	2,371	(1,991)
2012	2,390	0	0	0	2,390	0	0	0	0	2,390	(1,274)
2013	2,404	0	0	0	2,404	0	0	0	0	2,404	(612)
2014	2,433	0	0	0	2,433	0	0	0	0	2,433	3
2015	2,447	0	0	0	2,447	0	0	0	0	2,447	571
2016	2,464	0	0	0	2,464	0	0	0	0	2,464	1,095
2017	2,467	0	0	0	2,467	0	0	0	0	2,467	1,577
2018	2,483	0	0	0	2,483	0	0	0	0	2,483	2,022
2019	2,499	0	0	0	2,499	0	0	0	0	2,499	2,433
2020	2,515	0	473	0	2,988	7,719	0	0	7,719	(4,731)	1,719
2021	2,531	0	474	0	3,005	7,948	0	0	7,948	(4,944)	1,035
2022	2,547	0	478	0	3,026	8,260	0	0	8,260	(5,235)	370
2023	2,563	0	0	0	2,563	0	0	0	0	2,563	668
2024	2,580	0	0	0	2,580	0	0	0	0	2,580	945
2025	2,596	0	0	0	2,596	0	0	0	0	2,596	1,199
2026	2,613	0	0	0	2,613	0	0	0	0	2,613	1,435
2027	2,630	0	0	0	2,630	0	0	0	0	2,630	1,652
<b>NOM</b>	<b>52,993</b>	<b>0</b>	<b>2,851</b>	<b>0</b>	<b>55,844</b>	<b>39,602</b>	<b>0</b>	<b>0</b>	<b>39,602</b>	<b>16,242</b>	
<b>NPV</b>	<b>11,937</b>	<b>0</b>	<b>916</b>	<b>0</b>	<b>12,853</b>	<b>11,201</b>	<b>0</b>	<b>0</b>	<b>11,201</b>	<b>1,652</b>	

000139

In Service of Gen Unit: 2008  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) 1.18

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: Buildsmart : 2005 - 2007 installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,349	473	233	0	2,055	143	0	0	0	143	(1,912)	(1,048)
2006	0	1,386	474	699	0	2,568	441	228	0	0	670	(1,889)	(1,997)
2007	0	1,438	478	1,173	0	3,089	803	464	0	0	1,266	(1,823)	(2,838)
2008	0	0	0	1,415	0	1,415	2,466	707	0	0	3,173	1,758	(2,094)
2009	0	0	0	1,414	0	1,414	2,322	707	0	0	3,029	1,615	(1,466)
2010	0	0	0	1,447	0	1,447	2,475	708	0	0	3,183	1,736	(847)
2011	0	0	0	1,446	0	1,446	2,324	710	0	0	3,034	1,588	(328)
2012	0	0	0	1,458	0	1,458	2,335	712	0	0	3,047	1,589	149
2013	0	0	0	1,467	0	1,467	2,400	716	0	0	3,116	1,650	603
2014	0	0	0	1,484	0	1,484	2,466	721	0	0	3,187	1,703	1,034
2015	0	0	0	1,492	0	1,492	2,506	727	0	0	3,233	1,740	1,437
2016	0	0	0	1,503	0	1,503	2,559	733	0	0	3,292	1,789	1,818
2017	0	0	0	1,505	0	1,505	2,523	741	0	0	3,264	1,759	2,162
2018	0	0	0	1,515	0	1,515	2,396	749	0	0	3,145	1,630	2,454
2019	0	0	0	1,524	0	1,524	2,306	758	0	0	3,063	1,539	2,707
2020	0	2,055	473	1,534	0	4,062	2,193	767	0	0	2,961	(1,102)	2,541
2021	0	2,116	474	1,544	0	4,134	2,199	778	0	0	2,976	(1,157)	2,381
2022	0	2,199	478	1,554	0	4,231	2,202	789	0	0	2,991	(1,240)	2,223
2023	0	0	0	1,564	0	1,564	2,195	802	0	0	2,996	1,433	2,390
2024	0	0	0	1,574	0	1,574	2,176	815	0	0	2,991	1,417	2,542
2025	0	0	0	1,584	0	1,584	2,149	829	0	0	2,978	1,395	2,679
2026	0	0	0	1,594	0	1,594	2,111	845	0	0	2,956	1,362	2,802
2027	0	0	0	1,604	0	1,604	2,204	863	0	0	3,067	1,462	2,922
NOM	0	10,543	2,851	32,326	0	45,720	47,894	15,869	0	0	63,763	18,044	
NPV	0	2,982	916	7,282	0	11,180	10,660	3,442	0	0	14,102	2,922	

041000

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.26

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: RESIDENTIAL NEW CONSTRUCTION (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

BLDSMT-1

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: RS

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 262.51
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 986.07
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 110.70
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

V. NON-FUEL ENERGY AND DEMAND CHARGES	RS
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.571
(2) NON FUEL ESCALATION RATE	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A
(4) DEMAND CHARGE ESCALATION RATE	N/A

141000



**COMMERCIAL/INDUSTRIAL PROGRAMS COST  
EFFECTIVENESS RUNS**

000142

000143

C/I HVAC

NPV END 1998 (\$000)

YEARS	RATE IMPACT TEST			PARTICIPANT TEST			TOTAL RESOURCE COST TEST		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
2001-2007	\$ 70,716	\$ 65,405	1.08	\$ 64,223	\$ 39,387	1.63	\$ 70,716	\$ 46,268	1.53

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Commercial / Industrial HVAC : 2001 - 2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.88 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.13 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1,416.3 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.6950
(7) CUSTOMER kWh INCREASE AT METER .....	636.7 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	36 YEARS
(4) K FACTOR FOR GENERATION .....	1.61524
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	... CENTS PER kWh** (in-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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

441000

\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Commercial / Industrial HVAC : 2001 - 2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	1,155	2,774	0	3,929	199	378	6,378	27	6,404	
2002	1,190	2,831	0	4,021	582	1,108	6,493	83	6,576	
2003	1,229	2,891	0	4,120	964	1,837	6,629	143	6,772	
2004	1,243	2,876	0	4,119	1,317	2,549	6,653	208	6,861	
2005	0	0	0	0	1,511	2,889	0	245	245	
2006	0	0	0	0	1,523	2,836	0	251	251	
2007	0	0	0	0	1,543	2,833	0	258	258	
2008	0	0	0	0	1,555	2,836	0	265	265	
2009	0	0	0	0	1,555	2,829	0	273	273	
2010	0	0	0	0	1,652	2,733	0	280	280	
2011	0	0	0	0	1,675	2,660	0	288	288	
2012	0	0	0	0	1,700	2,660	0	297	297	
2013	0	0	0	0	1,723	2,637	0	305	305	
2014	0	0	0	0	1,759	2,633	0	314	314	
2015	0	0	0	0	1,783	2,622	0	323	323	
2016	150	121	0	271	1,816	2,590	1,301	332	1,634	
2017	147	115	0	261	1,818	2,594	1,272	342	1,614	
2018	143	109	0	252	1,841	2,580	1,243	352	1,595	
2019	140	104	0	244	1,865	2,567	1,214	362	1,577	
2020	0	0	0	0	1,890	2,554	0	373	373	
2021	1,837	2,653	0	4,490	1,917	2,542	9,600	384	9,984	
2022	1,908	2,716	0	4,624	1,944	2,528	9,869	395	10,263	
2023	1,984	2,782	0	4,767	1,967	2,516	10,161	406	10,567	
2024	2,019	2,773	0	4,791	1,994	2,505	10,271	418	10,689	
NOM	13,143	22,745	0	35,889	38,091	59,017	71,083	6,923	78,006	
NPV	4,331	9,168	0	13,499	11,146	18,616	23,633	1,927	25,560	

541000

\* 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 HVAC : 2001 - 2004 Installations

	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	MID-YEAR RATE BASE	DEBT	PREFERRED STOCK	COMMON EQUITY	INCOME TAXES	OTHER TAXES & INSURANCE	DEPREC.	DEFERRED TAXES	TOTAL FIXED CHARGES	PRESENT WORTH FIXED CHARGES	CUMULATIVE PW FIXED CHARGES
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2005	30,691	1,050	0	2,110	1,308	430	1,024	65	5,986	5,986	5,986
2006	29,403	1,006	0	2,021	853	430	1,024	464	5,798	5,321	11,307
2007	27,946	956	0	1,921	853	430	1,024	401	5,585	4,703	16,010
2008	26,550	908	0	1,825	850	430	1,024	344	5,381	4,158	20,168
2009	25,208	862	0	1,733	845	430	1,024	291	5,185	3,677	23,845
2010	23,918	818	0	1,644	839	430	1,024	241	4,997	3,251	27,096
2011	22,678	776	0	1,559	831	430	1,024	196	4,815	2,875	29,971
2012	21,477	735	0	1,477	821	430	1,024	154	4,640	2,542	32,513
2013	20,302	694	0	1,396	777	430	1,024	147	4,468	2,247	34,760
2014	19,132	654	0	1,315	727	430	1,024	147	4,297	1,983	36,742
2015	17,961	614	0	1,235	676	430	1,024	147	4,126	1,747	38,489
2016	16,790	574	0	1,154	626	430	1,024	147	3,955	1,536	40,026
2017	15,619	534	0	1,074	575	430	1,024	147	3,784	1,349	41,375
2018	14,448	494	0	993	525	430	1,024	147	3,613	1,182	42,556
2019	13,278	454	0	913	474	430	1,024	147	3,442	1,033	43,590
2020	12,107	414	0	832	424	430	1,024	147	3,271	901	44,491
2021	10,936	374	0	752	373	430	1,024	147	3,100	784	45,274
2022	9,765	334	0	671	322	430	1,024	147	2,929	679	45,953
2023	8,594	294	0	591	272	430	1,024	147	2,758	587	46,540
2024	7,424	254	0	510	221	430	1,024	147	2,586	505	47,046
2025	6,381	218	0	439	433	430	1,024	(109)	2,434	436	47,482
2026	5,595	191	0	385	655	430	1,024	(366)	2,319	381	47,863
2027	4,936	169	0	339	626	430	1,024	(366)	2,223	335	48,199
2028	4,278	146	0	294	598	430	1,024	(366)	2,127	295	48,493
2029	3,620	124	0	249	570	430	1,024	(366)	2,031	258	48,751
2030	2,962	101	0	204	541	430	1,024	(366)	1,934	226	48,977
2031	2,303	79	0	158	513	430	1,024	(366)	1,838	197	49,174
2032	1,645	56	0	113	484	430	1,024	(366)	1,742	171	49,345
2033	987	34	0	68	456	430	1,024	(366)	1,646	148	49,493
2034	329	11	0	23	428	430	1,024	(366)	1,550	128	49,621

971000

IN SERVICE COS (\$000)	30,720
IN SERVICE YEAR	2005
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial HVAC :

(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 DEPR 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)
2005	3.75%	1,117	1,117	1,024	1,024	948	948	65	2,273	0	0	0	65	(450)
2006	7.22%	2,150	3,267	1,024	2,048	948	1,897	464	2,273	0	0	0	464	13
2007	6.68%	1,989	5,256	1,024	3,072	948	2,845	401	2,273	0	0	0	401	415
2008	6.18%	1,841	7,096	1,024	4,096	948	3,793	344	2,273	0	0	0	344	759
2009	5.71%	1,702	8,798	1,024	5,120	948	4,741	291	2,273	0	0	0	291	1,049
2010	5.29%	1,574	10,372	1,024	6,144	948	5,690	241	2,273	0	0	0	241	1,291
2011	4.89%	1,456	11,828	1,024	7,168	948	6,638	196	2,273	0	0	0	196	1,487
2012	4.52%	1,347	13,175	1,024	8,192	948	7,586	154	2,273	0	0	0	154	1,640
2013	4.46%	1,329	14,504	1,024	9,216	948	8,534	147	2,273	0	0	0	147	1,787
2014	4.46%	1,329	15,832	1,024	10,240	948	9,483	147	2,273	0	0	0	147	1,934
2015	4.46%	1,329	17,161	1,024	11,264	948	10,431	147	2,273	0	0	0	147	2,081
2016	4.46%	1,329	18,490	1,024	12,288	948	11,379	147	2,273	0	0	0	147	2,228
2017	4.46%	1,329	19,819	1,024	13,312	948	12,327	147	2,273	0	0	0	147	2,374
2018	4.46%	1,329	21,147	1,024	14,336	948	13,276	147	2,273	0	0	0	147	2,521
2019	4.46%	1,329	22,476	1,024	15,360	948	14,224	147	2,273	0	0	0	147	2,668
2020	4.46%	1,329	23,805	1,024	16,384	948	15,172	147	2,273	0	0	0	147	2,815
2021	4.46%	1,329	25,134	1,024	17,408	948	16,121	147	2,273	0	0	0	147	2,962
2022	4.46%	1,329	26,463	1,024	18,432	948	17,069	147	2,273	0	0	0	147	3,108
2023	4.46%	1,329	27,792	1,024	19,456	948	18,017	147	2,273	0	0	0	147	3,255
2024	4.46%	1,329	29,120	1,024	20,480	948	18,965	147	2,273	0	0	0	147	3,402
2025	2.23%	664	29,785	1,024	21,504	948	19,914	(109)	2,273	0	0	0	(109)	3,292
2026	0.00%	0	29,785	1,024	22,528	948	20,862	(366)	2,273	0	0	0	(366)	2,927
2027	0.00%	0	29,785	1,024	23,552	948	21,810	(366)	2,273	0	0	0	(366)	2,561
2028	0.00%	0	29,785	1,024	24,576	948	22,758	(366)	2,273	0	0	0	(366)	2,195
2029	0.00%	0	29,785	1,024	25,600	948	23,707	(366)	2,273	0	0	0	(366)	1,829
2030	0.00%	0	29,785	1,024	26,624	948	24,655	(366)	2,273	0	0	0	(366)	1,464
2031	0.00%	0	29,785	1,024	27,648	948	25,603	(366)	2,273	0	0	0	(366)	1,098
2032	0.00%	0	29,785	1,024	28,672	948	26,551	(366)	2,273	0	0	0	(366)	732
2033	0.00%	0	29,785	1,024	29,696	948	27,500	(366)	2,273	0	0	0	(366)	366
2034	0.00%	0	29,785	1,024	30,720	948	28,448	(366)	2,273	0	0	0	(366)	0

000147

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(515)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	2,273
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial HVAC : 2001 - 2004 Installations

(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)
2005	3.75%	1,117	65	29,696	1,024	(450)	31,236	30,147	30,691
2006	7.22%	2,150	464	28,672	2,048	13	30,147	28,659	29,403
2007	6.68%	1,989	401	27,648	3,072	415	28,659	27,234	27,946
2008	6.18%	1,841	344	26,624	4,096	759	27,234	25,866	28,550
2009	5.71%	1,702	291	25,600	5,120	1,049	25,866	24,551	25,208
2010	5.29%	1,574	241	24,576	6,144	1,291	24,551	23,285	23,918
2011	4.89%	1,456	196	23,552	7,168	1,487	23,285	22,066	22,676
2012	4.52%	1,347	154	22,528	8,192	1,640	22,066	20,888	21,477
2013	4.46%	1,329	147	21,504	9,216	1,787	20,888	19,717	20,302
2014	4.46%	1,329	147	20,480	10,240	1,934	19,717	18,546	19,132
2015	4.46%	1,329	147	19,456	11,264	2,081	18,546	17,375	17,961
2016	4.46%	1,329	147	18,432	12,288	2,228	17,375	16,205	16,790
2017	4.46%	1,329	147	17,408	13,312	2,374	16,205	15,034	15,619
2018	4.46%	1,329	147	16,384	14,336	2,521	15,034	13,863	14,448
2019	4.46%	1,329	147	15,360	15,360	2,668	13,863	12,692	13,278
2020	4.46%	1,329	147	14,336	16,384	2,815	12,692	11,521	12,107
2021	4.46%	1,329	147	13,312	17,408	2,962	11,521	10,351	10,936
2022	4.46%	1,329	147	12,288	18,432	3,108	10,351	9,180	9,765
2023	4.46%	1,329	147	11,264	19,456	3,255	9,180	8,009	8,594
2024	4.46%	1,329	147	10,240	20,480	3,402	8,009	6,838	7,424
2025	2.23%	684	(109)	9,216	21,504	3,292	6,838	5,924	6,381
2026	0.00%	0	(366)	8,192	22,528	2,927	5,924	5,265	5,595
2027	0.00%	0	(366)	7,168	23,552	2,561	5,265	4,607	4,936
2028	0.00%	0	(366)	6,144	24,576	2,195	4,607	3,949	4,278
2029	0.00%	0	(366)	5,120	25,600	1,829	3,949	3,291	3,620
2030	0.00%	0	(366)	4,096	26,624	1,464	3,291	2,633	2,962
2031	0.00%	0	(366)	3,072	27,648	1,098	2,633	1,974	2,303
2032	0.00%	0	(366)	2,048	28,672	732	1,974	1,316	1,645
2033	0.00%	0	(366)	1,024	29,696	366	1,316	658	987
2034	0.00%	0	(366)	(0)	30,720	0	658	0	329

\* Column not specified in workbook

841000

(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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.88
2001	-4	2.64%	1.061	0.65%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00%      582.24

(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)* DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	34.44	52.57	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	27,317	27,317	27,317
EQUITY AFUDC	2,273		
DEBT AFUDC	1,130	1,130	
CPI			2,466
<b>TOTAL</b>	<b>30,720</b>	<b>28,448</b>	<b>29,784</b>

IN SERVICE YEAR      2005  
PLANT COSTS            519  
AFUDC RATE            10.30%

\* Column not specified in workbook

641000



INPUT DATA – PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Commercial / Industrial HVAC : 2001 - 2004 Installations

(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 PROGRAM FUEL COST (C/kWh)	EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1998	0	0	2.00	2.44	2.04	0.00	1.00	1.00
1999	0	0	2.23	2.75	2.31	0.00	1.00	1.00
2000	0	0	2.45	3.08	2.54	0.00	1.00	1.00
2001	10,375	10,375	2.73	3.66	2.85	0.00	1.00	1.00
2002	20,758	20,758	2.61	3.22	2.72	0.00	1.00	1.00
2003	31,165	31,165	2.60	3.35	2.69	0.00	1.00	1.00
2004	41,400	41,400	2.78	3.62	2.89	0.00	1.00	1.00
2005	41,400	41,400	2.93	3.95	3.06	3.25	1.00	1.00
2006	41,400	41,400	3.01	4.04	3.14	3.34	1.00	1.00
2007	41,400	41,400	3.13	4.42	3.28	3.49	1.00	1.00
2008	41,400	41,400	3.07	4.21	3.21	3.45	1.00	1.00
2009	41,400	41,400	3.15	4.33	3.29	3.60	1.00	1.00
2010	41,400	41,400	3.14	4.50	3.28	3.57	1.00	1.00
2011	41,400	41,400	3.32	4.64	3.47	3.71	1.00	1.00
2012	41,400	41,400	3.38	4.77	3.54	3.77	1.00	1.00
2013	41,400	41,400	3.47	4.92	3.64	3.84	1.00	1.00
2014	41,400	41,400	3.55	5.09	3.71	3.92	1.00	1.00
2015	41,400	41,400	3.58	5.19	3.75	3.95	1.00	1.00
2016	41,400	41,400	3.62	5.31	3.78	4.00	1.00	1.00
2017	41,400	41,400	3.75	5.53	3.92	4.13	1.00	1.00
2018	41,400	41,400	3.93	5.81	4.12	4.35	1.00	1.00
2019	41,400	41,400	4.09	6.16	4.29	4.55	1.00	1.00
2020	41,400	41,400	4.23	6.40	4.45	4.79	1.00	1.00
2021	41,400	41,400	4.32	6.57	4.54	4.88	1.00	1.00
2022	41,400	41,400	4.41	6.77	4.64	4.97	1.00	1.00
2023	41,400	41,400	4.53	6.98	4.77	5.10	1.00	1.00
2024	41,400	41,400	4.64	7.21	4.89	5.23	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.

000150

AVOIDED GENERATING BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial HVAC : 2001 - 2004 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS' \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	5,986	2,148	302	8,100	12,143	4,393
2006	5,798	2,234	319	8,486	12,846	3,991
2007	5,585	2,323	333	8,742	13,614	3,370
2008	5,381	2,416	341	8,845	13,433	3,550
2009	5,185	2,513	346	8,856	13,849	3,051
2010	4,997	2,613	343	8,621	13,227	3,346
2011	4,815	2,718	353	8,745	13,759	2,872
2012	4,640	2,827	363	9,000	13,977	2,853
2013	4,468	2,940	370	9,275	14,096	2,957
2014	4,297	3,057	376	9,545	14,246	3,030
2015	4,126	3,180	387	9,715	14,336	3,072
2016	3,955	3,307	395	9,879	14,381	3,154
2017	3,784	3,439	407	10,180	14,915	2,895
2018	3,613	3,577	421	10,491	15,756	2,346
2019	3,442	3,720	437	10,860	16,651	1,808
2020	3,271	3,868	450	11,186	17,538	1,240
2021	3,100	4,023	463	11,432	17,856	1,161
2022	2,929	4,184	476	11,697	18,196	1,090
2023	2,758	4,351	490	13,205	18,643	2,161
2024	2,586	4,525	504	13,205	19,126	1,695

NOM	84,717	63,963	7877	200,064	302,588	54,033
NPV	25,776	15,653	2006	51,247	77,870	16,812

000151

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial HVAC : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	293	71
2002	158	38	195	102	163	266	758	203
2003	313	78	392	204	340	544	1,328	336
2004	467	122	589	303	531	834	2,012	502
2005	615	169	784	399	733	1,132	2,525	605
2006	592	176	768	385	762	1,147	2,579	622
2007	569	183	752	370	793	1,163	2,858	647
2008	547	190	738	356	825	1,180	2,705	635
2009	527	198	724	342	857	1,200	2,785	650
2010	506	206	712	329	892	1,221	2,921	649
2011	487	214	701	316	927	1,244	2,991	685
2012	468	222	690	304	965	1,269	3,080	698
2013	449	231	680	292	1,003	1,295	3,185	717
2014	429	241	670	279	1,043	1,322	3,303	733
2015	410	250	661	267	1,085	1,352	3,374	740
2016	391	260	652	254	1,128	1,383	3,458	748
2017	372	271	643	242	1,174	1,415	3,608	774
2018	353	281	635	230	1,220	1,450	3,795	811
2019	334	293	627	217	1,269	1,486	4,039	845
2020	315	304	619	205	1,320	1,525	4,195	874
2021	296	317	613	192	1,373	1,565	4,318	892
2022	277	329	607	180	1,428	1,608	4,453	912
2023	261	342	603	169	1,485	1,654	4,599	936
2024	246	356	602	160	1,544	1,704	4,757	959

000152

NOM.	9,383	5,272	14,655	6,098	22,861	28,959	73,918	16,242
NPV	3,190	1,383	4,573	2,073	5,995	8,069	20,122	4,578

\* 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 HVAC : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,155	6,404	0	7,559	0	0	222	0	222	(7,336)	(5,669)
2002	0	1,190	6,576	0	7,766	0	461	556	0	1,017	(6,748)	(10,454)
2003	0	1,229	6,772	0	8,001	0	936	992	0	1,927	(6,074)	(14,406)
2004	0	1,243	6,861	0	8,104	0	1,423	1,510	0	2,933	(5,171)	(17,493)
2005	0	0	245	0	245	4,393	1,916	1,920	0	8,229	7,984	(13,119)
2006	0	0	251	0	251	3,991	1,915	1,957	0	7,864	7,612	(9,292)
2007	0	0	258	0	258	3,370	1,915	2,211	0	7,495	7,237	(5,953)
2008	0	0	265	0	265	3,550	1,918	2,070	0	7,538	7,272	(2,874)
2009	0	0	273	0	273	3,051	1,924	2,135	0	7,110	6,837	(218)
2010	0	0	280	0	280	3,346	1,933	2,271	0	7,551	7,271	2,374
2011	0	0	288	0	288	2,872	1,945	2,306	0	7,123	6,835	4,610
2012	0	0	297	0	297	2,853	1,959	2,382	0	7,193	6,897	6,680
2013	0	0	305	0	305	2,957	1,975	2,468	0	7,399	7,094	8,634
2014	0	0	314	0	314	3,030	1,993	2,571	0	7,593	7,279	10,474
2015	0	0	323	0	323	3,072	2,012	2,634	0	7,718	7,395	12,189
2016	0	150	1,634	0	1,784	3,154	2,034	2,710	0	7,898	6,115	13,491
2017	0	147	1,614	0	1,760	2,895	2,058	2,834	0	7,787	6,027	14,668
2018	0	143	1,595	0	1,738	2,346	2,085	2,983	0	7,413	5,676	15,685
2019	0	140	1,577	0	1,717	1,808	2,113	3,194	0	7,116	5,399	16,573
2020	0	0	373	0	373	1,240	2,144	3,321	0	6,706	6,333	17,529
2021	0	1,837	9,984	0	11,820	1,161	2,178	3,426	0	6,765	(5,055)	16,829
2022	0	1,908	10,263	0	12,171	1,090	2,215	3,541	0	6,845	(5,326)	16,152
2023	0	1,984	10,567	0	12,551	2,161	2,257	3,663	0	8,082	(4,470)	15,631
2024	0	2,019	10,689	0	12,707	1,695	2,307	3,798	0	7,799	(4,908)	15,106

000153

NOM	0	13,143	78,006	0	91,149	54,033	43,615	57,676	0	155,324	64,174
NPV	0	4,331	25,560	0	29,891	16,812	12,641	15,544	0	44,997	15,106

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.61

**PARTICIPANT COSTS AND BENEFITS**  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME Commercial / Industrial HVAC : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	647	0	2,774	0	3,421	6,378	27	0	6,404	(2,983)	(2,305)
2002	1,894	0	2,831	0	4,725	8,493	83	0	6,576	(1,850)	(3,617)
2003	3,139	0	2,891	0	6,031	6,629	143	0	6,772	(741)	(4,099)
2004	4,329	0	2,876	0	7,205	6,653	208	0	6,861	343	(3,894)
2005	4,931	0	0	0	4,931	0	245	0	245	4,686	(1,327)
2006	4,894	0	0	0	4,894	0	251	0	251	4,643	1,008
2007	4,918	0	0	0	4,918	0	258	0	258	4,660	3,158
2008	4,937	0	0	0	4,937	0	265	0	265	4,672	5,135
2009	4,930	0	0	0	4,930	0	273	0	273	4,657	6,945
2010	4,965	0	0	0	4,965	0	280	0	280	4,685	8,615
2011	4,923	0	0	0	4,923	0	288	0	288	4,635	10,131
2012	4,956	0	0	0	4,956	0	297	0	297	4,660	11,530
2013	4,966	0	0	0	4,966	0	305	0	305	4,661	12,814
2014	5,011	0	0	0	5,011	0	314	0	314	4,697	14,001
2015	5,031	0	0	0	5,031	0	323	0	323	4,708	15,093
2016	5,045	0	121	0	5,165	1,301	332	0	1,634	3,532	15,845
2017	5,050	0	115	0	5,165	1,272	342	0	1,614	3,551	16,538
2018	5,067	0	109	0	5,176	1,243	352	0	1,595	3,581	17,180
2019	5,088	0	104	0	5,191	1,214	362	0	1,577	3,615	17,775
2020	5,108	0	0	0	5,108	0	373	0	373	4,735	18,489
2021	5,133	0	2,653	0	7,786	9,600	384	0	9,984	(2,198)	18,185
2022	5,154	0	2,716	0	7,870	9,869	395	0	10,263	(2,393)	17,881
2023	5,174	0	2,782	0	7,956	10,161	406	0	10,567	(2,611)	17,576
2024	5,200	0	2,773	0	7,973	10,271	418	0	10,689	(2,716)	17,286

451000

NOM	110,491	0	22,745	0	133,236	71,083	6,923	0	78,006	55,230
NPV	33,678	0	9,168	0	42,846	23,633	1,927	0	25,560	17,286

In Service of Gen Unit: 2005  
Discount Rate : 8.98 %  
Benefit/Cost Ratio ( Col(6) / Col(10)) 1.68

RATE IMPACT TEST  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial HVAC : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,155	2,774	577	0	4,506	222	0	0	0	222	(4,283)	(3,310)
2002	0	1,190	2,831	1,690	0	5,711	556	461	0	0	1,017	(4,694)	(6,638)
2003	0	1,229	2,891	2,801	0	6,921	992	936	0	0	1,927	(4,994)	(9,887)
2004	0	1,243	2,876	3,866	0	7,985	1,510	1,423	0	0	2,933	(5,052)	(12,903)
2005	0	0	0	4,400	0	4,400	6,313	1,916	0	0	8,229	3,829	(10,806)
2006	0	0	0	4,359	0	4,359	5,949	1,915	0	0	7,864	3,504	(9,044)
2007	0	0	0	4,376	0	4,376	5,580	1,915	0	0	7,495	3,119	(7,605)
2008	0	0	0	4,391	0	4,391	5,620	1,918	0	0	7,538	3,147	(6,273)
2009	0	0	0	4,384	0	4,384	5,186	1,924	0	0	7,110	2,727	(5,213)
2010	0	0	0	4,385	0	4,385	5,618	1,933	0	0	7,551	3,166	(4,085)
2011	0	0	0	4,335	0	4,335	5,178	1,945	0	0	7,123	2,788	(3,173)
2012	0	0	0	4,359	0	4,359	5,235	1,959	0	0	7,193	2,834	(2,322)
2013	0	0	0	4,360	0	4,360	5,425	1,975	0	0	7,399	3,039	(1,485)
2014	0	0	0	4,393	0	4,393	5,600	1,993	0	0	7,593	3,200	(676)
2015	0	0	0	4,405	0	4,405	5,705	2,012	0	0	7,718	3,313	92
2016	0	150	121	4,406	0	4,677	5,864	2,034	0	0	7,898	3,221	778
2017	0	147	115	4,411	0	4,672	5,729	2,058	0	0	7,787	3,115	1,386
2018	0	143	109	4,420	0	4,673	5,329	2,085	0	0	7,413	2,741	1,878
2019	0	140	104	4,432	0	4,676	5,002	2,113	0	0	7,116	2,440	2,279
2020	0	0	0	4,444	0	4,444	4,561	2,144	0	0	6,706	2,262	2,620
2021	0	1,837	2,653	4,459	0	8,949	4,587	2,178	0	0	6,765	(2,184)	2,318
2022	0	1,908	2,716	4,471	0	9,095	4,631	2,215	0	0	6,845	(2,250)	2,032
2023	0	1,984	2,782	4,483	0	9,249	5,824	2,257	0	0	8,082	(1,168)	1,896
2024	0	2,019	2,773	4,499	0	9,291	5,493	2,307	0	0	7,799	(1,491)	1,736

NOM.	0	13,143	22,745	97,108	0	132,996	111,709	43,615	0	0	155,324	22,327
NPV	0	4,331	9,168	29,762	0	43,261	32,356	12,641	0	0	44,997	1,736

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.04

000155

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I HEATING VENTILATING AND AIR CONDITIONING (2001 - 2004)

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)	MEASURES					III. (3,5,7,9) ESCALATION RATES		
	SCD-1	SCD-2	SCD-3	SCD-5	VD-1		CPI	Blended Cap Rate
RATE CLASS: GS								
(1) UTILITY NON RECURRING COST PER CUSTOMER			\$ 83.00		\$ 83.00	1998	2.30	1.00
(2) UTILITY RECURRING COST PER CUSTOMER			\$ -		\$ -	1999	2.70	1.78
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)			\$ 721.00		\$ 627.00	2000	2.70	1.53
(6) CUSTOMER O&M COST			\$ -		\$ -	2001	2.60	2.64
(12) UTILITY NON RECURRING REBATE/INCENTIVE			\$ 75.00		\$ 267.00	2002	2.60	2.62
(13) UTILITY RECURRING REBATE/INCENTIVE			\$ -		\$ -	2003	2.70	2.28
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE			0%		0%	2004	2.60	2.27
RATE CLASS: GSD								
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 93.00	\$ 93.00	\$ 83.00	\$ 110.00	\$ 83.00	2005	2.70	2.19
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -	\$ -	\$ -	2006	2.70	2.11
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 767.00	\$ 1,523.00	\$ 721.00	\$ 372.00	\$ 627.00	2007	2.70	2.11
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -	\$ 6.82	\$ -	2008	2.80	2.02
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 65.00	\$ 25.00	\$ 105.00	\$ 478.00	\$ 140.00	2009	2.80	2.19
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -	\$ -	\$ -	2010	2.80	2.02
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%	2011	2.80	2.02
						2012	2.90	2.02
						2013	2.90	2.02
						2014	2.90	2.02
						2015	2.90	2.02
						2016	2.90	2.02
						2017	2.90	2.02
						2018	2.90	2.02
						2019	2.90	2.02
						2020	2.90	2.02
						2021	2.90	2.02
						2022	2.90	2.02
						2023	2.90	2.02
						2024	2.90	2.02

000156

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I HEATING VENTILATING AND AIR CONDITIONING (2001 - 2004)

RATE CLASS: GSLD	MEASURES				
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 93.00	\$ 93.00	\$ 83.00	\$ 110.00	\$ 83.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 678.00	\$ 1,523.00	\$ 721.00	\$ 505.00	\$ 627.00
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -	\$ 7.53	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 81.00	\$ 90.00	\$ 145.00	\$ 338.00	\$ 161.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000157



INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Commercial / Industrial HVAC : 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.88 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.14 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1,289.2 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.000
(7) CUSTOMER kWh INCREASE AT METER .....	0.00 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	YEARS
(4) K FACTOR FOR GENERATION .....	1.61528
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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 .....	... %

000158

\* 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: Commercial / Industrial HVAC : 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	1,259	2,861	0	4,120	159	360	6,262	31	6,293	
2006	1,276	2,848	0	4,124	470	1,030	6,291	96	6,387	
2007	1,293	2,835	0	4,129	770	1,692	6,325	165	6,490	
2008	0	0	0	0	919	2,013	0	203	203	
2009	0	0	0	0	919	2,007	0	209	209	
2010	0	0	0	0	978	1,939	0	215	215	
2011	0	0	0	0	992	1,887	0	221	221	
2012	0	0	0	0	1,007	1,887	0	227	227	
2013	0	0	0	0	1,021	1,871	0	234	234	
2014	0	0	0	0	1,043	1,869	0	241	241	
2015	0	0	0	0	1,057	1,861	0	248	248	
2016	0	0	0	0	1,078	1,838	0	255	255	
2017	0	0	0	0	1,078	1,840	0	262	262	
2018	0	0	0	0	1,092	1,830	0	270	270	
2019	0	0	0	0	1,107	1,822	0	278	278	
2020	137	98	0	235	1,122	1,812	1,187	286	1,472	
2021	134	93	0	227	1,138	1,804	1,160	294	1,454	
2022	131	89	0	219	1,155	1,793	1,134	303	1,436	
2023	0	0	0	0	1,168	1,785	0	311	311	
2024	0	0	0	0	1,185	1,778	0	320	320	
2025	2,055	2,763	0	4,818	1,200	1,768	9,637	330	9,967	
2026	2,092	2,755	0	4,847	1,215	1,759	9,741	339	10,080	
2027	2,131	2,747	0	4,878	1,234	1,751	9,853	349	10,202	
NOM	10,507	17,089	0	27,596	23,106	39,996	51,589	5,687	57,276	
NPV	2,550	5,093	0	7,643	5,074	9,427	12,634	1,193	13,827	

000159

\* 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 HVAC : 2005 - 2007 Installations

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2008	23,583	807	0	1,621	1,005	330	787	50	4,600	4,600	4,600
2009	22,593	773	0	1,553	656	330	787	356	4,455	4,088	8,688
2010	21,474	734	0	1,476	655	330	787	308	4,292	3,614	12,302
2011	20,401	698	0	1,403	653	330	787	265	4,135	3,195	15,497
2012	19,370	662	0	1,332	650	330	787	223	3,984	2,825	18,322
2013	18,379	629	0	1,264	645	330	787	185	3,839	2,498	20,821
2014	17,424	596	0	1,198	638	330	787	150	3,700	2,209	23,030
2015	16,503	564	0	1,135	631	330	787	118	3,565	1,953	24,983
2016	15,600	534	0	1,073	597	330	787	113	3,434	1,726	26,709
2017	14,701	503	0	1,011	559	330	787	113	3,302	1,523	28,233
2018	13,801	472	0	949	520	330	787	113	3,171	1,342	29,575
2019	12,902	441	0	887	481	330	787	113	3,039	1,181	30,756
2020	12,002	410	0	825	442	330	787	113	2,908	1,037	31,792
2021	11,102	380	0	763	403	330	787	113	2,776	908	32,700
2022	10,203	349	0	701	364	330	787	113	2,645	794	33,494
2023	9,303	318	0	640	325	330	787	113	2,513	692	34,187
2024	8,403	287	0	578	287	330	787	113	2,382	602	34,789
2025	7,504	257	0	516	248	330	787	113	2,250	522	35,311
2026	6,604	226	0	454	209	330	787	113	2,119	451	35,762
2027	5,704	195	0	392	170	330	787	113	1,987	388	36,150
2028	4,903	168	0	337	132	330	787	(84)	1,870	335	36,485
2029	4,299	147	0	296	103	330	787	(281)	1,782	293	36,778
2030	3,793	130	0	261	81	330	787	(281)	1,708	258	37,036
2031	3,287	112	0	226	60	330	787	(281)	1,634	226	37,262
2032	2,782	95	0	191	48	330	787	(281)	1,560	198	37,461
2033	2,276	78	0	156	41	330	787	(281)	1,486	173	37,634
2034	1,770	61	0	122	39	330	787	(281)	1,413	151	37,785
2035	1,264	43	0	87	37	330	787	(281)	1,339	131	37,917
2036	758	26	0	52	35	330	787	(281)	1,265	114	38,030
2037	253	9	0	17	32	330	787	(281)	1,191	98	38,129

091000

IN SERVICE COS (\$000) 23,605  
 IN SERVICE YEAR 2008  
 BOOK LIFE (YRS) 30  
 EFFEC. TAX RATE 38.575  
 DISCOUNT RATE 8.98%  
 OTAX & INS RATE 1.40%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial HVAC :

(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 DEPR FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	TAX DUE TO DEFERRED 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)
2008	3.75%	858	858	787	787	729	729	50	1,748	0	0	0	50	(346)
2009	7.22%	1,652	2,510	787	1,574	729	1,457	356	1,748	0	0	0	356	10
2010	6.68%	1,528	4,038	787	2,361	729	2,186	308	1,748	0	0	0	308	318
2011	6.18%	1,414	5,453	787	3,147	729	2,914	265	1,748	0	0	0	265	583
2012	5.71%	1,307	6,760	787	3,934	729	3,643	223	1,748	0	0	0	223	806
2013	5.29%	1,209	7,969	787	4,721	729	4,372	185	1,748	0	0	0	185	992
2014	4.89%	1,119	9,088	787	5,508	729	5,100	150	1,748	0	0	0	150	1,142
2015	4.52%	1,035	10,123	787	6,295	729	5,829	118	1,748	0	0	0	118	1,260
2016	4.46%	1,021	11,144	787	7,082	729	6,557	113	1,748	0	0	0	113	1,373
2017	4.46%	1,021	12,165	787	7,868	729	7,286	113	1,748	0	0	0	113	1,486
2018	4.46%	1,021	13,186	787	8,655	729	8,014	113	1,748	0	0	0	113	1,599
2019	4.46%	1,021	14,207	787	9,442	729	8,743	113	1,748	0	0	0	113	1,711
2020	4.46%	1,021	15,228	787	10,229	729	9,472	113	1,748	0	0	0	113	1,824
2021	4.46%	1,021	16,249	787	11,016	729	10,200	113	1,748	0	0	0	113	1,937
2022	4.46%	1,021	17,270	787	11,803	729	10,929	113	1,748	0	0	0	113	2,050
2023	4.46%	1,021	18,291	787	12,589	729	11,657	113	1,748	0	0	0	113	2,163
2024	4.46%	1,021	19,312	787	13,376	729	12,386	113	1,748	0	0	0	113	2,275
2025	4.46%	1,021	20,333	787	14,163	729	13,115	113	1,748	0	0	0	113	2,388
2026	4.46%	1,021	21,354	787	14,950	729	13,843	113	1,748	0	0	0	113	2,501
2027	4.46%	1,021	22,375	787	15,737	729	14,572	113	1,748	0	0	0	113	2,614
2028	2.23%	511	22,886	787	16,524	729	15,300	(84)	1,748	0	0	0	(84)	2,530
2029	0.00%	0	22,886	787	17,310	729	16,029	(281)	1,748	0	0	0	(281)	2,249
2030	0.00%	0	22,886	787	18,097	729	16,757	(281)	1,748	0	0	0	(281)	1,968
2031	0.00%	0	22,886	787	18,884	729	17,486	(281)	1,748	0	0	0	(281)	1,687
2032	0.00%	0	22,886	787	19,671	729	18,215	(281)	1,748	0	0	0	(281)	1,406
2033	0.00%	0	22,886	787	20,458	729	18,943	(281)	1,748	0	0	0	(281)	1,124
2034	0.00%	0	22,886	787	21,245	729	19,672	(281)	1,748	0	0	0	(281)	843
2035	0.00%	0	22,886	787	22,032	729	20,400	(281)	1,748	0	0	0	(281)	562
2036	0.00%	0	22,886	787	22,818	729	21,129	(281)	1,748	0	0	0	(281)	281
2037	0.00%	0	22,886	787	23,605	729	21,858	(281)	1,748	0	0	0	(281)	0

000161

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(396)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,748
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial HVAC : 2005 - 2007 Installations

(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)
2008	3.75%	858	50	22,818	787	(346)	24,001	23,165	23,583
2009	7.22%	1,652	356	22,032	1,574	10	23,165	22,022	22,593
2010	6.68%	1,528	308	21,245	2,361	318	22,022	20,926	21,474
2011	6.18%	1,414	265	20,458	3,147	583	20,926	19,875	20,401
2012	5.71%	1,307	223	19,671	3,934	806	19,875	18,865	19,370
2013	5.29%	1,209	185	18,884	4,721	992	18,865	17,893	18,379
2014	4.89%	1,119	150	18,097	5,508	1,142	17,893	16,955	17,424
2015	4.52%	1,035	118	17,310	6,295	1,260	16,955	16,050	16,503
2016	4.46%	1,021	113	16,524	7,082	1,373	16,050	15,151	15,600
2017	4.46%	1,021	113	15,737	7,868	1,486	15,151	14,251	14,701
2018	4.46%	1,021	113	14,950	8,655	1,599	14,251	13,351	13,801
2019	4.46%	1,021	113	14,163	9,442	1,711	13,351	12,452	12,902
2020	4.46%	1,021	113	13,376	10,229	1,824	12,452	11,552	12,002
2021	4.46%	1,021	113	12,589	11,016	1,937	11,552	10,652	11,102
2022	4.46%	1,021	113	11,803	11,803	2,050	10,652	9,753	10,203
2023	4.46%	1,021	113	11,016	12,589	2,163	9,753	8,853	9,303
2024	4.46%	1,021	113	10,229	13,376	2,275	8,853	7,953	8,403
2025	4.46%	1,021	113	9,442	14,163	2,388	7,953	7,054	7,504
2026	4.46%	1,021	113	8,655	14,950	2,501	7,054	6,154	6,604
2027	4.46%	1,021	113	7,868	15,737	2,614	6,154	5,255	5,704
2028	2.23%	511	(84)	7,082	16,524	2,530	5,255	4,552	4,903
2029	0.00%	0	(281)	6,295	17,310	2,249	4,552	4,046	4,299
2030	0.00%	0	(281)	5,508	18,097	1,968	4,046	3,540	3,793
2031	0.00%	0	(281)	4,721	18,884	1,687	3,540	3,034	3,287
2032	0.00%	0	(281)	3,934	19,671	1,406	3,034	2,529	2,782
2033	0.00%	0	(281)	3,147	20,458	1,124	2,529	2,023	2,276
2034	0.00%	0	(281)	2,361	21,245	843	2,023	1,517	1,770
2035	0.00%	0	(281)	1,574	22,032	562	1,517	1,011	1,264
2036	0.00%	0	(281)	787	22,818	281	1,011	506	758
2037	0.00%	0	(281)	0	23,605	0	506	0	253

\* Column not specified in workbook

000162

(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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.10	0.07	(0.01)	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.49	0.29	(0.06)	(0.08)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	5.44	3.64	(0.77)	(0.85)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	26.50	15.37	(3.23)	(4.08)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	(7.65)	(11.72)	364.72	698.45
			25.72		77.43	56.12		(11.72)		698.45	

000163

IN SERVICE YEAR 2008  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	20,988	20,988	20,988
EQUITY AFUDC	1,748		
DEBT AFUDC	869	869	
CPI			1,897
<b>TOTAL</b>	<b>23,605</b>	<b>21,858</b>	<b>22,885</b>

\* Column not specified in workbook

INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Commercial / Industrial HVAC : 2005 - 2007 Installations

(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 PROGRAM KW EFFECTIVENESS	PROGRAM KW EFFECTIVENESS	PROGRAM kWh EFFECTIVENESS
1998	0	0	2.00	2.49	2.03	0.00	1.00	1.00
1999	0	0	2.23	2.80	2.29	0.00	1.00	1.00
2000	0	0	2.45	3.14	2.53	0.00	1.00	1.00
2001	0	0	2.73	3.77	2.84	0.00	1.00	1.00
2002	0	0	2.61	3.24	2.70	0.00	1.00	1.00
2003	0	0	2.60	3.38	2.68	0.00	1.00	1.00
2004	0	0	2.78	3.66	2.87	0.00	1.00	1.00
2005	10,072	10,072	2.84	3.83	2.93	0.00	1.00	1.00
2006	19,990	19,990	2.91	3.94	3.01	0.00	1.00	1.00
2007	29,761	29,761	3.02	4.25	3.13	0.00	1.00	1.00
2008	29,761	29,761	3.07	4.24	3.18	3.49	1.00	1.00
2009	29,761	29,761	3.14	4.36	3.26	3.69	1.00	1.00
2010	29,761	29,761	3.14	4.53	3.26	3.64	1.00	1.00
2011	29,761	29,761	3.31	4.65	3.45	3.75	1.00	1.00
2012	29,761	29,761	3.38	4.79	3.51	3.81	1.00	1.00
2013	29,761	29,761	3.47	4.95	3.61	3.86	1.00	1.00
2014	29,761	29,761	3.55	5.13	3.68	3.92	1.00	1.00
2015	29,761	29,761	3.58	5.23	3.71	3.94	1.00	1.00
2016	29,761	29,761	3.62	5.34	3.75	3.98	1.00	1.00
2017	29,761	29,761	3.75	5.58	3.89	4.12	1.00	1.00
2018	29,761	29,761	3.93	5.88	4.09	4.33	1.00	1.00
2019	29,761	29,761	4.09	6.24	4.26	4.54	1.00	1.00
2020	29,761	29,761	4.23	6.47	4.41	4.76	1.00	1.00
2021	29,761	29,761	4.34	6.69	4.52	4.88	1.00	1.00
2022	29,761	29,761	4.45	6.92	4.63	5.00	1.00	1.00
2023	29,761	29,761	4.56	7.15	4.75	5.13	1.00	1.00
2024	29,761	29,761	4.67	7.40	4.87	5.27	1.00	1.00
2025	29,761	29,761	4.80	7.66	5.01	5.42	1.00	1.00
2026	29,761	29,761	4.94	7.94	5.16	5.59	1.00	1.00
2027	29,761	29,761	5.07	7.94	5.16	5.59	1.00	1.00

491000

\* 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 HVAC : 2005 - 2007 Installations**

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	4,600	1,727	239	6,215	9,554	3,228
2009	4,455	1,797	237	6,073	9,710	2,853
2010	4,292	1,868	236	5,961	9,293	3,064
2011	4,135	1,943	249	6,198	9,835	2,691
2012	3,984	2,021	256	6,367	9,983	2,645
2013	3,839	2,102	266	6,694	10,201	2,701
2014	3,700	2,186	276	7,005	10,421	2,746
2015	3,565	2,273	283	7,130	10,479	2,773
2016	3,434	2,364	292	7,333	10,602	2,820
2017	3,302	2,459	301	7,530	10,967	2,625
2018	3,171	2,557	310	7,742	11,574	2,205
2019	3,039	2,659	321	7,980	12,177	1,822
2020	2,908	2,766	330	8,219	12,768	1,454
2021	2,776	2,876	340	8,436	13,077	1,351
2022	2,645	2,991	349	8,656	13,403	1,238
2023	2,513	3,111	359	8,869	13,754	1,098
2024	2,382	3,235	370	9,073	14,131	930
2025	2,250	3,365	381	9,286	14,547	735
2026	2,119	3,499	392	9,502	15,004	508
2027	1,987	3,639	403	9,719	15,004	745
NOM	65,097	51,439	6192	153,988	236,484	40,232
NPV	15,304	9,727	1203	30,140	46,272	10,102

000165



AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial HVAC : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	272	76
2006	166	43	208	108	186	293	833	233
2007	326	88	414	212	384	595	1,502	399
2008	481	137	618	312	594	906	1,786	486
2009	463	142	606	301	618	919	1,835	498
2010	445	148	593	289	642	932	1,927	498
2011	428	154	582	278	668	946	1,966	525
2012	412	160	572	268	695	962	2,027	535
2013	396	167	563	257	723	980	2,101	550
2014	381	173	554	248	752	999	2,183	562
2015	366	180	546	238	782	1,020	2,228	567
2016	352	187	539	229	813	1,041	2,280	573
2017	337	195	532	219	845	1,064	2,386	593
2018	322	203	525	209	879	1,089	2,517	622
2019	308	211	518	200	914	1,114	2,686	648
2020	293	219	512	190	951	1,141	2,786	670
2021	278	228	506	181	989	1,170	2,885	686
2022	264	237	501	171	1,028	1,200	2,988	704
2023	249	247	496	162	1,070	1,231	3,095	721
2024	234	257	491	152	1,112	1,265	3,204	740
2025	220	267	486	143	1,157	1,300	3,322	760
2026	206	277	483	134	1,203	1,337	3,450	781
2027	193	289	482	126	1,251	1,377	3,431	803
NOM	7,119	4,210	11,329	4,627	18,255	22,882	53,690	13,230
NPV	1,805	834	2,639	1,173	3,615	4,788	10,984	2,793

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

0001000

TOTAL RESOURCE COST TEST  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Commercial / Industrial HVAC : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,259	6,293	0	7,552	0	0	196	0	196	(7,356)	(4,030)
2006	0	1,276	6,387	0	7,663	0	502	600	0	1,101	(6,562)	(7,329)
2007	0	1,293	6,490	0	7,783	0	1,010	1,102	0	2,112	(5,671)	(9,946)
2008	0	0	203	0	203	3,228	1,524	1,300	0	6,052	5,849	(7,470)
2009	0	0	209	0	209	2,853	1,524	1,337	0	5,714	5,505	(5,331)
2010	0	0	215	0	215	3,064	1,525	1,429	0	6,018	5,803	(3,262)
2011	0	0	221	0	221	2,691	1,529	1,442	0	5,661	5,440	(1,482)
2012	0	0	227	0	227	2,645	1,535	1,492	0	5,672	5,445	152
2013	0	0	234	0	234	2,701	1,543	1,551	0	5,795	5,561	1,684
2014	0	0	241	0	241	2,746	1,554	1,621	0	5,921	5,680	3,120
2015	0	0	248	0	248	2,773	1,566	1,662	0	6,001	5,753	4,454
2016	0	0	255	0	255	2,820	1,580	1,707	0	6,108	5,853	5,700
2017	0	0	262	0	262	2,625	1,596	1,793	0	6,014	5,752	6,823
2018	0	0	270	0	270	2,205	1,614	1,895	0	5,714	5,444	7,799
2019	0	0	278	0	278	1,822	1,633	2,038	0	5,493	5,215	8,657
2020	0	137	1,472	0	1,609	1,454	1,654	2,116	0	5,224	3,614	9,202
2021	0	134	1,454	0	1,588	1,351	1,676	2,198	0	5,225	3,637	9,706
2022	0	131	1,436	0	1,567	1,238	1,701	2,284	0	5,223	3,656	10,170
2023	0	0	311	0	311	1,098	1,727	2,373	0	5,198	4,887	10,740
2024	0	0	320	0	320	930	1,756	2,465	0	5,150	4,830	11,257
2025	0	2,055	9,967	0	12,021	735	1,786	2,563	0	5,085	(6,937)	10,576
2026	0	2,092	10,080	0	12,172	508	1,820	2,668	0	4,996	(7,176)	9,929
2027	0	2,131	10,202	0	12,333	745	1,859	2,628	0	5,232	(7,101)	9,342
NOM	0	10,507	57,276	0	67,782	40,232	34,212	40,460	0	114,904	47,121	
NPV	0	2,550	13,827	0	16,377	10,102	7,427	8,191	0	25,719	9,342	

000167

Discount Rate: 8.98 %  
Benefit/Cost Ratio (Col(11) / Col(6)) : 1.57

PARTICIPANT COSTS AND BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial HVAC : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	575	0	2,861	0	3,436	6,262	31	0	6,293	(2,857)	(1,565)
2006	1,665	0	2,848	0	4,513	6,291	96	0	6,387	(1,974)	(2,508)
2007	2,733	0	2,835	0	5,569	6,325	165	0	6,490	(921)	(2,933)
2008	3,254	0	0	0	3,254	0	203	0	203	3,051	(1,641)
2009	3,249	0	0	0	3,249	0	209	0	209	3,040	(460)
2010	3,261	0	0	0	3,261	0	215	0	215	3,046	626
2011	3,228	0	0	0	3,228	0	221	0	221	3,007	1,609
2012	3,248	0	0	0	3,248	0	227	0	227	3,021	2,516
2013	3,251	0	0	0	3,251	0	234	0	234	3,017	3,347
2014	3,278	0	0	0	3,278	0	241	0	241	3,037	4,115
2015	3,289	0	0	0	3,289	0	248	0	248	3,042	4,820
2016	3,294	0	0	0	3,294	0	255	0	255	3,039	5,467
2017	3,297	0	0	0	3,297	0	262	0	262	3,035	6,060
2018	3,306	0	0	0	3,306	0	270	0	270	3,036	6,604
2019	3,317	0	0	0	3,317	0	278	0	278	3,040	7,104
2020	3,328	0	98	0	3,426	1,187	286	0	1,472	1,954	7,399
2021	3,342	0	93	0	3,435	1,160	294	0	1,454	1,982	7,673
2022	3,354	0	89	0	3,442	1,134	303	0	1,436	2,006	7,928
2023	3,364	0	0	0	3,364	0	311	0	311	3,052	8,284
2024	3,379	0	0	0	3,379	0	320	0	320	3,058	8,612
2025	3,389	0	2,763	0	6,152	9,637	330	0	9,967	(3,815)	8,237
2026	3,401	0	2,755	0	6,156	9,741	339	0	10,080	(3,925)	7,883
2027	3,419	0	2,747	0	6,166	9,853	349	0	10,202	(4,036)	7,550
NOM	71,221	0	17,089	0	88,310	51,589	5,687	0	57,276	31,035	
NPV	16,284	0	5,093	0	21,377	12,634	1,193	0	13,827	7,550	

000168

In Service of Gen Unit: 2008  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) 1.55

RATE IMPACT TEST  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial HVAC : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	1,259	2,861	519	0	4,639	196	0	0	0	196	(4,443)	(2,434)
2006	0	1,276	2,848	1,500	0	5,624	600	502	0	0	1,101	(4,522)	(4,708)
2007	0	1,293	2,835	2,463	0	6,591	1,102	1,010	0	0	2,112	(4,479)	(6,774)
2008	0	0	0	2,932	0	2,932	4,528	1,524	0	0	6,052	3,121	(5,453)
2009	0	0	0	2,926	0	2,926	4,190	1,524	0	0	5,714	2,788	(4,370)
2010	0	0	0	2,917	0	2,917	4,493	1,525	0	0	6,018	3,101	(3,265)
2011	0	0	0	2,879	0	2,879	4,133	1,529	0	0	5,661	2,782	(2,355)
2012	0	0	0	2,894	0	2,894	4,137	1,535	0	0	5,672	2,778	(1,521)
2013	0	0	0	2,892	0	2,892	4,252	1,543	0	0	5,795	2,903	(721)
2014	0	0	0	2,911	0	2,911	4,367	1,554	0	0	5,921	3,009	39
2015	0	0	0	2,918	0	2,918	4,435	1,566	0	0	6,001	3,083	755
2016	0	0	0	2,916	0	2,916	4,527	1,580	0	0	6,108	3,192	1,434
2017	0	0	0	2,919	0	2,919	4,418	1,596	0	0	6,014	3,095	2,039
2018	0	0	0	2,922	0	2,922	4,100	1,614	0	0	5,714	2,791	2,539
2019	0	0	0	2,928	0	2,928	3,860	1,633	0	0	5,493	2,564	2,961
2020	0	137	98	2,934	0	3,169	3,570	1,654	0	0	5,224	2,055	3,271
2021	0	134	93	2,942	0	3,169	3,549	1,676	0	0	5,225	2,056	3,555
2022	0	131	89	2,948	0	3,167	3,522	1,701	0	0	5,223	2,056	3,817
2023	0	0	0	2,953	0	2,953	3,471	1,727	0	0	5,198	2,245	4,078
2024	0	0	0	2,962	0	2,962	3,394	1,756	0	0	5,150	2,187	4,313
2025	0	2,055	2,763	2,967	0	7,785	3,298	1,786	0	0	5,085	(2,701)	4,047
2026	0	2,092	2,755	2,974	0	7,821	3,176	1,820	0	0	4,996	(2,825)	3,793
2027	0	2,131	2,747	2,985	0	7,863	3,373	1,859	0	0	5,232	(2,631)	3,575
NOM.	0	10,507	17,089	63,103	0	90,698	80,692	34,212	0	0	114,904	24,205	
NPV	0	2,550	5,093	14,501	0	22,144	18,292	7,427	0	0	25,719	3,575	

691000

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.18

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I HEATING, VENTILATING AND AIR CONDITIONING (2005 - 2007)

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)	MEASURES					III. (3,5,7,9) ESCALATION RATES		
	SCD-1	SCD-2	SCD-3	SCD-5	VD-1		CPI	Blended Cap Rate
RATE CLASS: GS								
(1) UTILITY NON RECURRING COST PER CUSTOMER			\$ 83.00		\$ 83.00	1998	2.30	1.00
(2) UTILITY RECURRING COST PER CUSTOMER			\$ -		\$ -	1999	2.70	1.78
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)			\$ 721.00		\$ 627.00	2000	2.70	1.53
(6) CUSTOMER O&M COST			\$ -		\$ -	2001	2.60	2.64
(12) UTILITY NON RECURRING REBATE/INCENTIVE			\$ 75.00		\$ 267.00	2002	2.60	2.62
(13) UTILITY RECURRING REBATE/INCENTIVE			\$ -		\$ -	2003	2.70	2.28
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE			0%		0%	2004	2.60	2.27
RATE CLASS: GSD								
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 93.00	\$ 93.00	\$ 83.00	\$ 110.00	\$ 83.00	2005	2.70	2.19
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -	\$ -	\$ -	2006	2.70	2.11
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 767.00	\$ 1,523.00	\$ 721.00	\$ 372.00	\$ 627.00	2007	2.70	2.11
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -	\$ 6.82	\$ -	2008	2.80	2.02
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 65.00	\$ 25.00	\$ 105.00	\$ 478.00	\$ 140.00	2009	2.80	2.19
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -	\$ -	\$ -	2010	2.80	2.02
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%	2011	2.80	2.02
						2012	2.90	2.02
						2013	2.90	2.02
						2014	2.90	2.02
						2015	2.90	2.02
						2016	2.90	2.02
						2017	2.90	2.02
						2018	2.90	2.02
						2019	2.90	2.02
						2020	2.90	2.02
						2021	2.90	2.02
						2022	2.90	2.02
						2023	2.90	2.02
						2024	2.90	2.02
						2025	2.90	2.02
						2026	2.90	2.02
						2027	2.90	2.02

000170

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I HEATING, VENTILATING AND AIR CONDITIONING (2005 - 2007)

RATE CLASS: GSLD	MEASURES				
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 93.00	\$ 93.00	\$ 83.00	\$ 110.00	\$ 83.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 678.00	\$ 1,523.00	\$ 721.00	\$ 440.00	\$ 627.00
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -	\$ 7.53	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 81.00	\$ 90.00	\$ 145.00	\$ 338.00	\$ 161.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000171

000172

**C/I EFFICIENT LIGHTING**

NPV END 1998 (\$000)

<u>YEARS</u>	<u>RATE IMPACT TEST</u>			<u>PARTICIPANT TEST</u>			<u>TOTAL RESOURCE COST TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 51,005	\$ 48,187	1.06	\$ 57,022	\$ 24,354	2.34	\$ 51,005	\$ 25,805	1.98

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: CI Lighting Program: 2001 -2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	1.02 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.31 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	4,002.6 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.81524
(5) K FACTOR FOR T & D.....	1.48985

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 .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.17 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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

000173



\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: CI Lighting Program: 2001 -2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	233	345	0	578	224	146	3,942	0	3,942	
2002	254	366	0	620	685	448	4,289	0	4,289	
2003	320	448	0	767	1,246	795	5,381	0	5,381	
2004	369	500	0	869	1,895	1,186	6,185	0	6,185	
2005	0	0	0	0	2,275	1,408	0	0	0	
2006	0	0	0	0	2,291	1,382	0	0	0	
2007	0	0	0	0	2,313	1,380	0	0	0	
2008	0	0	0	0	2,329	1,382	0	0	0	
2009	0	0	0	0	2,328	1,378	0	0	0	
2010	0	0	0	0	2,460	1,332	0	0	0	
2011	0	0	0	0	2,489	1,296	0	0	0	
2012	0	0	0	0	2,523	1,296	0	0	0	
2013	0	0	0	0	2,557	1,286	0	0	0	
2014	0	0	0	0	2,608	1,284	0	0	0	
2015	0	0	0	0	2,636	1,278	0	0	0	
2016	0	0	0	0	2,679	1,263	0	0	0	
2017	0	0	0	0	2,684	1,264	0	0	0	
2018	0	0	0	0	2,717	1,258	0	0	0	
2019	0	0	0	0	2,751	1,252	0	0	0	
2020	0	0	0	0	2,785	1,245	0	0	0	
2021	0	0	0	0	2,820	1,240	0	0	0	
2022	0	0	0	0	2,855	1,233	0	0	0	
2023	0	0	0	0	2,891	1,227	0	0	0	
2024	0	0	0	0	2,927	1,222	0	0	0	
NOM	1,176	1,657	0	2,833	55,968	28,491	19,797	0	0	19,797
NPV	789	1,115	0	1,904	16,238	8,868	13,281	0	0	13,281

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

000174

**CALCULATION OF GEN K-FACTOR  
PROGRAM METHOD SELECTED REV\_REQ  
PROGRAM NAME: CI Lighting Program: 2001 -2004 Installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPRE. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2005	11,899	407	0	818	507	167	397	25	2,321	2,321	2,321
2006	11,400	390	0	784	331	167	397	180	2,248	2,063	4,384
2007	10,835	371	0	745	331	167	397	156	2,165	1,823	6,207
2008	10,294	352	0	708	329	167	397	133	2,086	1,612	7,819
2009	9,773	334	0	672	328	167	397	113	2,010	1,425	9,245
2010	9,273	317	0	638	325	167	397	94	1,937	1,261	10,505
2011	8,792	301	0	604	322	167	397	76	1,867	1,115	11,620
2012	8,327	285	0	572	318	167	397	60	1,799	986	12,608
2013	7,871	269	0	541	301	167	397	57	1,732	871	13,477
2014	7,418	254	0	510	282	167	397	57	1,666	769	14,245
2015	6,964	238	0	479	262	167	397	57	1,600	677	14,923
2016	6,510	223	0	448	243	167	397	57	1,533	596	15,518
2017	6,056	207	0	416	223	167	397	57	1,467	523	16,041
2018	5,602	192	0	385	203	167	397	57	1,401	458	16,500
2019	5,148	176	0	354	184	167	397	57	1,334	401	16,900
2020	4,694	161	0	323	164	167	397	57	1,268	349	17,249
2021	4,240	145	0	292	145	167	397	57	1,202	304	17,553
2022	3,786	129	0	260	125	167	397	57	1,135	263	17,817
2023	3,332	114	0	229	105	167	397	57	1,069	228	18,044
2024	2,878	98	0	198	86	167	397	57	1,003	196	18,240
2025	2,474	85	0	170	168	167	397	(42)	944	169	18,409
2026	2,169	74	0	149	254	167	397	(142)	899	148	18,557
2027	1,914	65	0	132	243	167	397	(142)	862	130	18,687
2028	1,659	57	0	114	232	167	397	(142)	825	114	18,801
2029	1,403	46	0	96	221	167	397	(142)	787	100	18,901
2030	1,148	39	0	79	210	167	397	(142)	750	87	18,989
2031	893	31	0	61	199	167	397	(142)	713	76	19,065
2032	636	22	0	44	188	167	397	(142)	675	66	19,131
2033	383	13	0	26	177	167	397	(142)	638	58	19,189
2034	127	4	0	9	166	167	397	(142)	601	50	19,239

000175

IN SERVICE COS (\$000)	11,911
IN SERVICE YEAR	2005
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.57%
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI CI Lighting Program: 2001 -200-

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPR FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	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)
2005	3.75%	433	433	397	397	368	368	25	881	0	0	0	25	(175)
2006	7.22%	834	1,267	397	794	368	735	180	881	0	0	0	180	5
2007	6.88%	771	2,038	397	1,191	368	1,103	156	881	0	0	0	156	161
2008	6.18%	714	2,751	397	1,588	368	1,471	133	881	0	0	0	133	294
2009	5.71%	660	3,411	397	1,985	368	1,838	113	881	0	0	0	113	407
2010	5.29%	610	4,021	397	2,382	368	2,206	94	881	0	0	0	94	500
2011	4.89%	564	4,586	397	2,779	368	2,574	76	881	0	0	0	76	576
2012	4.62%	522	5,108	397	3,176	368	2,941	60	881	0	0	0	60	636
2013	4.46%	515	5,623	397	3,573	368	3,309	57	881	0	0	0	57	693
2014	4.46%	515	6,138	397	3,970	368	3,677	57	881	0	0	0	57	750
2015	4.46%	515	6,654	397	4,367	368	4,044	57	881	0	0	0	57	807
2016	4.46%	515	7,169	397	4,764	368	4,412	57	881	0	0	0	57	864
2017	4.46%	515	7,684	397	5,161	368	4,779	57	881	0	0	0	57	921
2018	4.46%	515	8,199	397	5,558	368	5,147	57	881	0	0	0	57	977
2019	4.46%	515	8,714	397	5,955	368	5,515	57	881	0	0	0	57	1,034
2020	4.46%	515	9,229	397	6,352	368	5,882	57	881	0	0	0	57	1,091
2021	4.46%	515	9,745	397	6,749	368	6,250	57	881	0	0	0	57	1,148
2022	4.46%	515	10,260	397	7,146	368	6,618	57	881	0	0	0	57	1,205
2023	4.46%	515	10,775	397	7,543	368	6,985	57	881	0	0	0	57	1,262
2024	4.46%	515	11,290	397	7,940	368	7,353	57	881	0	0	0	57	1,319
2025	2.23%	258	11,548	397	8,337	368	7,721	(42)	881	0	0	0	(42)	1,277
2026	0.00%	0	11,548	397	8,734	368	8,088	(142)	881	0	0	0	(142)	1,135
2027	0.00%	0	11,548	397	9,131	368	8,456	(142)	881	0	0	0	(142)	993
2028	0.00%	0	11,548	397	9,529	368	8,824	(142)	881	0	0	0	(142)	851
2029	0.00%	0	11,548	397	9,926	368	9,191	(142)	881	0	0	0	(142)	709
2030	0.00%	0	11,548	397	10,323	368	9,559	(142)	881	0	0	0	(142)	567
2031	0.00%	0	11,548	397	10,720	368	9,927	(142)	881	0	0	0	(142)	426
2032	0.00%	0	11,548	397	11,117	368	10,294	(142)	881	0	0	0	(142)	284
2033	0.00%	0	11,548	397	11,514	368	10,662	(142)	881	0	0	0	(142)	142
2034	0.00%	0	11,548	397	11,911	368	11,030	(142)	881	0	0	0	(142)	0

000176

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(200)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	881
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: CI Lighting Program: 2001 -2004 Installations

(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)
2005	3.75%	433	25	11,514	397	(175)	12,110	11,688	11,899
2006	7.22%	834	180	11,117	794	5	11,688	11,111	11,400
2007	6.68%	771	156	10,720	1,191	161	11,111	10,559	10,835
2008	6.18%	714	133	10,323	1,588	294	10,559	10,028	10,294
2009	5.71%	660	113	9,926	1,985	407	10,028	9,519	9,773
2010	5.29%	610	94	9,529	2,382	500	9,519	9,028	9,273
2011	4.89%	564	76	9,131	2,779	576	9,028	8,555	8,792
2012	4.52%	522	60	8,734	3,178	636	8,555	8,098	8,327
2013	4.46%	515	57	8,337	3,573	693	8,098	7,644	7,871
2014	4.46%	515	57	7,940	3,970	750	7,644	7,191	7,418
2015	4.46%	515	57	7,543	4,367	807	7,191	6,737	6,964
2016	4.46%	515	57	7,146	4,764	864	6,737	6,283	6,510
2017	4.46%	515	57	6,749	5,161	921	6,283	5,829	6,056
2018	4.46%	515	57	6,352	5,558	977	5,829	5,375	5,602
2019	4.46%	515	57	5,955	5,955	1,034	5,375	4,921	5,148
2020	4.46%	515	57	5,558	6,352	1,091	4,921	4,467	4,694
2021	4.46%	515	57	5,161	6,749	1,148	4,467	4,013	4,240
2022	4.46%	515	57	4,764	7,146	1,205	4,013	3,559	3,786
2023	4.46%	515	57	4,367	7,543	1,262	3,559	3,105	3,332
2024	4.46%	515	57	3,970	7,940	1,319	3,105	2,651	2,878
2025	2.23%	258	(42)	3,573	8,337	1,277	2,651	2,297	2,474
2026	0.00%	0	(142)	3,176	8,734	1,135	2,297	2,041	2,169
2027	0.00%	0	(142)	2,779	9,131	993	2,041	1,786	1,914
2028	0.00%	0	(142)	2,382	9,529	851	1,786	1,531	1,659
2029	0.00%	0	(142)	1,985	9,926	709	1,531	1,276	1,403
2030	0.00%	0	(142)	1,588	10,323	567	1,276	1,021	1,148
2031	0.00%	0	(142)	1,191	10,720	426	1,021	765	893
2032	0.00%	0	(142)	794	11,117	284	765	510	638
2033	0.00%	0	(142)	397	11,514	142	510	255	383
2034	0.00%	0	(142)	0	11,911	0	255	0	127

000177

\* 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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.88
2001	-4	2.64%	1.081	0.65%	3.58	3.51
2002	-3	2.82%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	284.50	434.98

100.00% 582.24

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)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.48	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.83	5.09	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	8.55	8.24	19.72	24.80	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.88	24.09	47.73	72.53	34.44	52.57	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	10,591	10,591	10,591
EQUITY AFUDC	881		
DEBT AFUDC	438	438	
CPI			856
<b>TOTAL</b>	<b>11,911</b>	<b>11,030</b>	<b>11,547</b>

IN SERVICE YEAR 2005  
PLANT COSTS 519  
AFUDC RATE 10.30%

\* Column not specified in workbook

000178

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME CI Lighting Program: 2001 -2004 Installations

(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
1998	0	0	2.00	2.20	2.13	0.00	1.00	1.00
1999	0	0	2.23	2.49	2.42	0.00	1.00	1.00
2000	0	0	2.45	2.76	2.68	0.00	1.00	1.00
2001	2,871	2,871	2.73	3.17	3.05	0.00	1.00	1.00
2002	5,922	5,922	2.61	3.03	2.94	0.00	1.00	1.00
2003	9,665	9,665	2.60	3.09	2.95	0.00	1.00	1.00
2004	13,868	13,868	2.78	3.34	3.18	0.00	1.00	1.00
2005	13,868	13,868	2.93	3.57	3.39	3.25	1.00	1.00
2006	13,868	13,868	3.01	3.68	3.49	3.34	1.00	1.00
2007	13,868	13,868	3.13	3.90	3.68	3.49	1.00	1.00
2008	13,868	13,868	3.07	3.82	3.59	3.45	1.00	1.00
2009	13,868	13,868	3.15	3.93	3.70	3.60	1.00	1.00
2010	13,868	13,868	3.14	3.97	3.69	3.57	1.00	1.00
2011	13,868	13,868	3.32	4.18	3.92	3.71	1.00	1.00
2012	13,868	13,868	3.38	4.28	4.00	3.77	1.00	1.00
2013	13,868	13,868	3.47	4.40	4.11	3.84	1.00	1.00
2014	13,868	13,868	3.55	4.50	4.18	3.92	1.00	1.00
2015	13,868	13,868	3.58	4.56	4.22	3.95	1.00	1.00
2016	13,868	13,868	3.62	4.61	4.25	4.00	1.00	1.00
2017	13,868	13,868	3.75	4.78	4.41	4.13	1.00	1.00
2018	13,868	13,868	3.93	5.04	4.66	4.35	1.00	1.00
2019	13,868	13,868	4.09	5.30	4.89	4.55	1.00	1.00
2020	13,868	13,868	4.23	5.49	5.07	4.79	1.00	1.00
2021	13,868	13,868	4.32	5.61	5.18	4.88	1.00	1.00
2022	13,868	13,868	4.41	5.75	5.30	4.97	1.00	1.00
2023	13,868	13,868	4.53	5.92	5.45	5.10	1.00	1.00
2024	13,868	13,868	4.64	6.09	5.59	5.23	1.00	1.00

000179

\* 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 CI Lighting Program: 2001 -2004 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	2,321	833	117	3,140	4,708	1,703
2006	2,248	866	124	3,290	4,981	1,548
2007	2,165	901	129	3,389	5,278	1,306
2008	2,088	937	132	3,429	5,208	1,376
2009	2,010	974	134	3,433	5,370	1,183
2010	1,937	1,013	133	3,342	5,128	1,297
2011	1,887	1,054	137	3,391	5,334	1,114
2012	1,799	1,096	141	3,489	5,419	1,108
2013	1,732	1,140	143	3,596	5,465	1,148
2014	1,666	1,185	146	3,701	5,523	1,175
2015	1,600	1,233	150	3,767	5,558	1,191
2016	1,533	1,282	153	3,830	5,576	1,223
2017	1,467	1,333	158	3,947	5,783	1,122
2018	1,401	1,387	163	4,067	6,109	909
2019	1,334	1,442	170	4,211	6,456	701
2020	1,268	1,500	174	4,337	6,799	481
2021	1,202	1,560	180	4,432	6,923	450
2022	1,135	1,622	185	4,535	7,055	422
2023	1,069	1,687	190	5,120	7,228	838
2024	1,003	1,755	196	5,120	7,415	657
<b>NOM</b>	<b>32,846</b>	<b>24,799</b>	<b>3054</b>	<b>77,567</b>	<b>117,316</b>	<b>20,949</b>
<b>NPV</b>	<b>9,883</b>	<b>6,069</b>	<b>778</b>	<b>19,889</b>	<b>30,191</b>	<b>6,518</b>

001000

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME CI Lighting Program: 2001 -2004 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	191	0
2002	50	12	63	33	52	85	559	0
2003	104	26	129	67	112	180	1,020	0
2004	168	44	212	109	190	300	1,668	0
2005	241	66	306	156	284	441	2,106	0
2006	232	68	300	151	296	446	2,171	0
2007	223	71	294	145	307	452	2,316	0
2008	214	74	288	139	320	459	2,266	0
2009	206	77	283	134	332	466	2,335	0
2010	198	80	278	129	346	475	2,364	0
2011	191	83	274	124	360	484	2,474	0
2012	183	86	269	119	374	493	2,552	0
2013	176	90	265	114	389	503	2,624	0
2014	168	93	262	109	404	514	2,683	0
2015	161	97	258	105	421	525	2,719	0
2016	154	101	254	100	437	537	2,750	0
2017	146	105	251	95	455	550	2,856	0
2018	139	109	248	90	473	563	3,015	0
2019	131	113	245	85	492	577	3,178	0
2020	124	118	242	80	512	592	3,292	0
2021	116	123	239	76	532	608	3,369	0
2022	109	128	237	71	554	625	3,458	0
2023	102	133	235	67	576	642	3,560	0
2024	97	138	235	63	599	662	3,663	0
NOM.	3,634	2,034	5,668	2,362	8,818	11,180	59,185	0
NPV	1,221	529	1,750	794	2,295	3,088	16,249	0

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

181000



**TOTAL RESOURCE COST TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAMI CI Lighting Program: 2001 -2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	233	3,942	0	4,175	0	0	191	0	191	(3,984)	(3,079)
2002	0	254	4,289	0	4,543	0	148	559	0	707	(3,836)	(5,799)
2003	0	320	5,381	0	5,701	0	309	1,020	0	1,329	(4,372)	(8,643)
2004	0	369	6,185	0	6,554	0	512	1,668	0	2,180	(4,373)	(11,254)
2005	0	0	0	0	0	1,703	747	2,106	0	4,556	4,556	(8,758)
2006	0	0	0	0	0	1,548	746	2,171	0	4,464	4,464	(6,514)
2007	0	0	0	0	0	1,306	746	2,316	0	4,369	4,369	(4,498)
2008	0	0	0	0	0	1,376	747	2,266	0	4,389	4,389	(2,840)
2009	0	0	0	0	0	1,183	749	2,335	0	4,267	4,267	(982)
2010	0	0	0	0	0	1,297	753	2,364	0	4,414	4,414	591
2011	0	0	0	0	0	1,114	757	2,474	0	4,345	4,345	2,013
2012	0	0	0	0	0	1,106	763	2,552	0	4,420	4,420	3,339
2013	0	0	0	0	0	1,146	769	2,624	0	4,539	4,539	4,590
2014	0	0	0	0	0	1,175	776	2,683	0	4,633	4,633	5,761
2015	0	0	0	0	0	1,191	783	2,719	0	4,693	4,693	6,649
2016	0	0	0	0	0	1,223	792	2,750	0	4,765	4,765	7,863
2017	0	0	0	0	0	1,122	801	2,856	0	4,779	4,779	8,797
2018	0	0	0	0	0	909	811	3,015	0	4,736	4,736	9,646
2019	0	0	0	0	0	701	822	3,178	0	4,701	4,701	10,419
2020	0	0	0	0	0	481	834	3,292	0	4,607	4,607	11,114
2021	0	0	0	0	0	450	847	3,369	0	4,666	4,666	11,760
2022	0	0	0	0	0	422	861	3,456	0	4,740	4,740	12,363
2023	0	0	0	0	0	838	878	3,560	0	5,275	5,275	12,978
2024	0	0	0	0	0	657	896	3,683	0	5,218	5,218	13,536

NOM	0	1,176	19,797	0	20,973	20,949	16,847	59,185	0	96,982	76,009
NPV	0	789	13,281	0	14,070	6,518	4,839	16,249	0	27,606	13,536

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(8)) : 1.96

000182

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME CI Lighting Program: 2001 -2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	449	0	345	0	794	3,942	0	0	3,942	(3,149)	(2,433)
2002	1,374	0	366	0	1,740	4,289	0	0	4,289	(2,550)	(4,241)
2003	2,479	0	446	0	2,925	5,381	0	0	5,381	(2,456)	(5,639)
2004	3,757	0	500	0	4,257	6,185	0	0	6,185	(1,928)	(8,990)
2005	4,483	0	0	0	4,483	0	0	0	0	4,483	(4,534)
2006	4,478	0	0	0	4,478	0	0	0	0	4,478	(2,282)
2007	4,506	0	0	0	4,506	0	0	0	0	4,506	(203)
2008	4,529	0	0	0	4,529	0	0	0	0	4,529	1,714
2009	4,525	0	0	0	4,525	0	0	0	0	4,525	3,472
2010	4,657	0	0	0	4,657	0	0	0	0	4,657	5,132
2011	4,660	0	0	0	4,660	0	0	0	0	4,660	6,656
2012	4,705	0	0	0	4,705	0	0	0	0	4,705	8,069
2013	4,741	0	0	0	4,741	0	0	0	0	4,741	9,375
2014	4,808	0	0	0	4,808	0	0	0	0	4,808	10,590
2015	4,841	0	0	0	4,841	0	0	0	0	4,841	11,713
2016	4,883	0	0	0	4,883	0	0	0	0	4,883	12,752
2017	4,891	0	0	0	4,891	0	0	0	0	4,891	13,707
2018	4,930	0	0	0	4,930	0	0	0	0	4,930	14,591
2019	4,969	0	0	0	4,969	0	0	0	0	4,969	15,408
2020	5,009	0	0	0	5,009	0	0	0	0	5,009	16,164
2021	5,051	0	0	0	5,051	0	0	0	0	5,051	16,864
2022	5,091	0	0	0	5,091	0	0	0	0	5,091	17,511
2023	5,134	0	0	0	5,134	0	0	0	0	5,134	18,109
2024	5,177	0	0	0	5,177	0	0	0	0	5,177	18,663

000183

NOM	104,124	0	1,657	0	105,782	19,797	0	0	19,797	85,985
NPV	30,829	0	1,115	0	31,944	13,281	0	0	13,281	18,663

In Service of Gen Unit: 2005  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) 2.41

RATE IMPACT TEST  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME CI Lighting Program: 2001 -2004 Installations

781000

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	233	345	370	0	948	191	0	0	0	191	(757)	(585)
2002	0	254	366	1,133	0	1,753	559	148	0	0	707	(1,046)	(1,327)
2003	0	320	446	2,041	0	2,807	1,020	309	0	0	1,329	(1,478)	(2,289)
2004	0	369	500	3,091	0	3,960	1,668	512	0	0	2,180	(1,780)	(3,351)
2005	0	0	0	3,683	0	3,683	3,809	747	0	0	4,556	873	(2,873)
2006	0	0	0	3,673	0	3,673	3,718	746	0	0	4,464	791	(2,475)
2007	0	0	0	3,693	0	3,693	3,623	746	0	0	4,369	675	(2,163)
2008	0	0	0	3,711	0	3,711	3,642	747	0	0	4,389	679	(1,878)
2009	0	0	0	3,707	0	3,707	3,518	749	0	0	4,267	560	(1,658)
2010	0	0	0	3,792	0	3,792	3,661	753	0	0	4,414	621	(1,437)
2011	0	0	0	3,785	0	3,785	3,588	757	0	0	4,345	559	(1,254)
2012	0	0	0	3,819	0	3,819	3,657	763	0	0	4,420	601	(1,074)
2013	0	0	0	3,842	0	3,842	3,770	769	0	0	4,539	696	(882)
2014	0	0	0	3,891	0	3,891	3,858	776	0	0	4,633	742	(694)
2015	0	0	0	3,915	0	3,915	3,909	783	0	0	4,693	778	(514)
2016	0	0	0	3,942	0	3,942	3,973	792	0	0	4,765	823	(339)
2017	0	0	0	3,948	0	3,948	3,978	801	0	0	4,779	831	(176)
2018	0	0	0	3,975	0	3,975	3,925	811	0	0	4,736	761	(40)
2019	0	0	0	4,003	0	4,003	3,879	822	0	0	4,701	699	75
2020	0	0	0	4,030	0	4,030	3,772	834	0	0	4,607	576	162
2021	0	0	0	4,060	0	4,060	3,819	847	0	0	4,666	606	246
2022	0	0	0	4,088	0	4,088	3,878	861	0	0	4,740	652	329
2023	0	0	0	4,118	0	4,118	4,398	878	0	0	5,275	1,157	464
2024	0	0	0	4,149	0	4,149	4,320	896	0	0	5,216	1,068	578

NOM.	0	1,176	1,657	84,460	0	87,293	80,135	16,847	0	0	96,982	9,688
NPV	0	789	1,115	25,124	0	27,028	22,767	4,839	0	0	27,606	578

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.02

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I EFFICIENT LIGHTING (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

FL8HP                      HID8HP

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: GS

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 1,160.00
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 129.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

RATE CLASS: GSD

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 1,160.00
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 102.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

000185

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I EFFICIENT LIGHTING (2001 - 2004)

RATE CLASS: GSLD	MEASURES	
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 1,160.00	\$ 1,847.00
(6) CUSTOMER O&M COST	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 111.00	\$ 189.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

981000

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: CI Lighting Program: 2005 -2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	1.02 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.31 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	4,017.7 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.81528
(5) K FACTOR FOR T & D.....	1.48985

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 .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT ....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2008
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.27 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE ....	1.45 %**

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

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\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: CI Lighting Program: 2005-2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	446	587	0	1,033	407	251	7,456	0	7,456	
2006	437	561	0	998	1,212	727	7,314	0	7,314	
2007	429	536	0	965	1,998	1,184	7,175	0	7,175	
2008	0	0	0	0	2,392	1,410	0	0	0	
2009	0	0	0	0	2,392	1,406	0	0	0	
2010	0	0	0	0	2,528	1,359	0	0	0	
2011	0	0	0	0	2,557	1,323	0	0	0	
2012	0	0	0	0	2,591	1,323	0	0	0	
2013	0	0	0	0	2,826	1,312	0	0	0	
2014	0	0	0	0	2,679	1,310	0	0	0	
2015	0	0	0	0	2,708	1,304	0	0	0	
2016	0	0	0	0	2,752	1,288	0	0	0	
2017	0	0	0	0	2,756	1,290	0	0	0	
2018	0	0	0	0	2,791	1,283	0	0	0	
2019	0	0	0	0	2,825	1,277	0	0	0	
2020	0	0	0	0	2,861	1,270	0	0	0	
2021	0	0	0	0	2,896	1,265	0	0	0	
2022	0	0	0	0	2,933	1,257	0	0	0	
2023	0	0	0	0	2,969	1,252	0	0	0	
2024	0	0	0	0	3,008	1,246	0	0	0	
2025	0	0	0	0	3,044	1,240	0	0	0	
2026	0	0	0	0	3,083	1,234	0	0	0	
2027	0	0	0	0	3,122	1,228	0	0	0	
NOM	1,312	1,684	0	2,996	59,129	28,039	21,946	0	21,946	
NPV	662	851	0	1,513	13,038	6,608	11,073	0	11,073	

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\* 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: CI Lighting Program: 2005 -2007 Installations

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2008	12,980	444	0	892	553	182	433	28	2,532	2,532	2,532
2009	12,435	425	0	855	381	182	433	196	2,452	2,250	4,782
2010	11,819	404	0	813	381	182	433	170	2,362	1,989	6,771
2011	11,228	384	0	772	359	182	433	146	2,276	1,759	8,530
2012	10,681	365	0	733	358	182	433	123	2,193	1,555	10,084
2013	10,115	346	0	695	355	182	433	102	2,113	1,375	11,459
2014	9,590	328	0	659	351	182	433	83	2,038	1,216	12,675
2015	9,083	311	0	624	347	182	433	65	1,982	1,075	13,750
2016	8,586	294	0	590	329	182	433	62	1,890	950	14,701
2017	8,091	277	0	556	307	182	433	62	1,817	838	15,539
2018	7,596	260	0	522	286	182	433	62	1,745	739	16,278
2019	7,101	243	0	488	265	182	433	62	1,673	650	16,928
2020	6,606	226	0	454	243	182	433	62	1,600	571	17,498
2021	6,111	209	0	420	222	182	433	62	1,528	500	17,998
2022	5,615	192	0	386	200	182	433	62	1,456	437	18,435
2023	5,120	175	0	352	179	182	433	62	1,383	381	18,816
2024	4,625	158	0	318	158	182	433	62	1,311	331	19,147
2025	4,130	141	0	284	136	182	433	62	1,239	287	19,435
2026	3,635	124	0	250	115	182	433	62	1,166	248	19,683
2027	3,140	107	0	216	94	182	433	62	1,094	214	19,896
2028	2,699	92	0	186	183	182	433	(46)	1,029	185	20,081
2029	2,366	81	0	163	277	182	433	(155)	981	161	20,242
2030	2,088	71	0	144	265	182	433	(155)	940	142	20,384
2031	1,809	62	0	124	253	182	433	(155)	899	125	20,509
2032	1,531	52	0	105	241	182	433	(155)	859	109	20,618
2033	1,253	43	0	86	229	182	433	(155)	818	95	20,713
2034	974	33	0	67	217	182	433	(155)	777	83	20,798
2035	696	24	0	48	205	182	433	(155)	737	72	20,869
2036	417	14	0	29	193	182	433	(155)	696	63	20,931
2037	139	5	0	10	181	182	433	(155)	655	54	20,986

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IN SERVICE COS (\$000)	12,992
IN SERVICE YEAR	2008
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61528



DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI CI Lighting Program: 2005 -200:

061000

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPR FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	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)
2008	3.75%	472	472	433	433	401	401	28	962	0	0	0	28	(191)
2009	7.22%	909	1,382	433	866	401	802	196	962	0	0	0	196	5
2010	6.68%	841	2,223	433	1,299	401	1,203	170	962	0	0	0	170	175
2011	6.18%	778	3,001	433	1,732	401	1,604	146	962	0	0	0	146	321
2012	5.71%	720	3,721	433	2,165	401	2,005	123	962	0	0	0	123	444
2013	5.29%	666	4,386	433	2,598	401	2,406	102	962	0	0	0	102	546
2014	4.89%	616	5,002	433	3,031	401	2,807	83	962	0	0	0	83	629
2015	4.52%	570	5,572	433	3,465	401	3,208	65	962	0	0	0	65	694
2016	4.48%	562	6,134	433	3,898	401	3,609	62	962	0	0	0	62	756
2017	4.46%	562	6,695	433	4,331	401	4,010	62	962	0	0	0	62	818
2018	4.46%	562	7,257	433	4,764	401	4,411	62	962	0	0	0	62	880
2019	4.46%	562	7,819	433	5,197	401	4,812	62	962	0	0	0	62	942
2020	4.46%	562	8,381	433	5,630	401	5,213	62	962	0	0	0	62	1,004
2021	4.46%	562	8,943	433	6,063	401	5,614	62	962	0	0	0	62	1,066
2022	4.46%	562	9,505	433	6,496	401	6,015	62	962	0	0	0	62	1,128
2023	4.46%	562	10,067	433	6,929	401	6,416	62	962	0	0	0	62	1,190
2024	4.46%	562	10,629	433	7,362	401	6,817	62	962	0	0	0	62	1,252
2025	4.46%	562	11,191	433	7,795	401	7,218	62	962	0	0	0	62	1,314
2026	4.46%	562	11,753	433	8,228	401	7,619	62	962	0	0	0	62	1,377
2027	4.46%	562	12,315	433	8,661	401	8,020	62	962	0	0	0	62	1,439
2028	2.23%	281	12,596	433	9,094	401	8,421	(46)	962	0	0	0	(46)	1,392
2029	0.00%	0	12,596	433	9,527	401	8,822	(155)	962	0	0	0	(155)	1,238
2030	0.00%	0	12,596	433	9,961	401	9,223	(155)	962	0	0	0	(155)	1,083
2031	0.00%	0	12,596	433	10,394	401	9,624	(155)	962	0	0	0	(155)	928
2032	0.00%	0	12,596	433	10,827	401	10,025	(155)	962	0	0	0	(155)	774
2033	0.00%	0	12,596	433	11,260	401	10,426	(155)	962	0	0	0	(155)	619
2034	0.00%	0	12,596	433	11,693	401	10,827	(155)	962	0	0	0	(155)	464
2035	0.00%	0	12,596	433	12,126	401	11,228	(155)	962	0	0	0	(155)	310
2036	0.00%	0	12,596	433	12,559	401	11,629	(155)	962	0	0	0	(155)	155
2037	0.00%	0	12,596	433	12,992	401	12,030	(155)	962	0	0	0	(155)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(218)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	962
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI CI Lighting Program: 2005 -2007 Installations

(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)
2008	3.75%	472	28	12,559	433	(191)	13,210	12,750	12,980
2009	7.22%	909	198	12,126	868	5	12,750	12,120	12,435
2010	6.68%	841	170	11,693	1,299	175	12,120	11,518	11,819
2011	6.18%	778	146	11,260	1,732	321	11,518	10,939	11,228
2012	5.71%	720	123	10,827	2,165	444	10,939	10,383	10,661
2013	5.29%	668	102	10,394	2,598	548	10,383	9,848	10,115
2014	4.89%	616	83	9,961	3,031	629	9,848	9,332	9,590
2015	4.52%	570	65	9,527	3,465	694	9,332	8,834	9,083
2016	4.46%	562	62	9,094	3,898	758	8,834	8,339	8,588
2017	4.46%	562	62	8,661	4,331	818	8,339	7,844	8,091
2018	4.46%	562	62	8,228	4,764	880	7,844	7,348	7,598
2019	4.46%	562	62	7,795	5,197	942	7,348	6,853	7,101
2020	4.46%	562	62	7,362	5,630	1,004	6,853	6,358	6,606
2021	4.46%	562	62	6,929	6,063	1,066	6,358	5,863	6,111
2022	4.46%	562	62	6,496	6,496	1,128	5,863	5,368	5,615
2023	4.46%	562	62	6,063	6,929	1,190	5,368	4,873	5,120
2024	4.46%	562	62	5,630	7,362	1,252	4,873	4,377	4,625
2025	4.46%	562	62	5,197	7,795	1,314	4,377	3,882	4,130
2026	4.46%	562	62	4,764	8,228	1,377	3,882	3,387	3,635
2027	4.46%	562	62	4,331	8,661	1,439	3,387	2,892	3,140
2028	2.23%	281	(48)	3,898	9,094	1,392	2,892	2,505	2,699
2029	0.00%	0	(155)	3,465	9,527	1,238	2,505	2,227	2,366
2030	0.00%	0	(155)	3,031	9,961	1,083	2,227	1,949	2,088
2031	0.00%	0	(155)	2,598	10,394	928	1,949	1,670	1,809
2032	0.00%	0	(155)	2,165	10,827	774	1,670	1,392	1,531
2033	0.00%	0	(155)	1,732	11,260	619	1,392	1,113	1,253
2034	0.00%	0	(155)	1,299	11,693	464	1,113	835	974
2035	0.00%	0	(155)	866	12,126	310	835	557	696
2036	0.00%	0	(155)	433	12,559	155	557	278	417
2037	0.00%	0	(155)	0	12,992	0	278	0	139

\* Column not specified in workbook

161000

(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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.82%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.85%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(8)	(8a)*	(8b)*	(9)	(9a)*	(9b)*	(9c)*	(9d)*	(9e)*	(10)	(11)	
NO. YEARS BEFORE IN-SERVICE	CUMULATIVE SPENDING WITH AFUDC (\$/kW)	DEBT AFUDC (\$/kW)	YEARLY TOTAL AFUDC (\$/kW)	CUMULATIVE TOTAL AFUDC (\$/kW)	CONSTRUCTION PERIOD INTEREST (\$/kW)	CUMULATIVE CPI (\$/kW)	DEFERRED TAXES (\$/kW)	DEFERRED TAXES (\$/kW)	INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	CUMULATIVE YEAR-END BOOK VALUE (\$/kW)	
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2003	-5	0.92	0.03	0.10	0.10	0.07	0.07	(0.01)	1.94	1.94	
2004	-4	3.86	0.13	0.16	0.40	0.49	0.29	0.36	(0.06)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	5.44	3.64	4.00	(0.77)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.08	28.50	15.37	19.37	(3.23)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	56.12	(7.65)	364.72	698.45
			25.72		77.43		56.12		(11.72)	698.45	

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IN SERVICE YEAR 2008  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS	BOOK BASIS	TAX BASIS
	FOR DEF TAX		
CONSTRUCTION CASH	11,552	11,552	11,552
EQUITY AFUDC	962		
DEBT AFUDC	478	478	
CPI			1,044
<b>TOTAL</b>	<b>12,992</b>	<b>12,030</b>	<b>12,596</b>

\* Column not specified in workbook

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME: CI Lighting Program: 2005 -2007 Installations

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE	ADJUSTED	UTILITY	AVOIDED	INCREASED	REPLACEMENT	PROGRAM kW	PROGRAM kWh
	TOTAL	CUMULATIVE	AVERAGE	MARGINAL	MARGINAL	FUEL COST	EFFECTIVENESS	EFFECTIVENESS
	PARTICIPATING	PARTICIPATING	SYSTEM	FUEL COST	FUEL COST	FUEL COST	FACTOR	FACTOR
	CUSTOMERS	CUSTOMERS	FUEL COST	(C/kWh)	(C/kWh)	(C/kWh)		
			(C/kWh)					
1998	0	0	2.00	2.20	2.13	0.00	1.00	1.00
1999	0	0	2.23	2.49	2.42	0.00	1.00	1.00
2000	0	0	2.45	2.76	2.68	0.00	1.00	1.00
2001	0	0	2.73	3.17	3.05	0.00	1.00	1.00
2002	0	0	2.61	3.03	2.94	0.00	1.00	1.00
2003	0	0	2.60	3.09	2.95	0.00	1.00	1.00
2004	0	0	2.78	3.34	3.18	0.00	1.00	1.00
2005	4,945	4,945	2.84	3.48	3.27	0.00	1.00	1.00
2006	9,669	9,669	2.91	3.56	3.36	0.00	1.00	1.00
2007	14,181	14,181	3.02	3.75	3.52	0.00	1.00	1.00
2008	14,181	14,181	3.07	3.82	3.59	3.49	1.00	1.00
2009	14,181	14,181	3.14	3.93	3.69	3.69	1.00	1.00
2010	14,181	14,181	3.14	3.97	3.69	3.64	1.00	1.00
2011	14,181	14,181	3.31	4.16	3.92	3.75	1.00	1.00
2012	14,181	14,181	3.38	4.28	3.99	3.81	1.00	1.00
2013	14,181	14,181	3.47	4.40	4.10	3.86	1.00	1.00
2014	14,181	14,181	3.55	4.50	4.18	3.92	1.00	1.00
2015	14,181	14,181	3.58	4.55	4.22	3.94	1.00	1.00
2016	14,181	14,181	3.62	4.61	4.25	3.98	1.00	1.00
2017	14,181	14,181	3.75	4.78	4.41	4.12	1.00	1.00
2018	14,181	14,181	3.93	5.04	4.66	4.33	1.00	1.00
2019	14,181	14,181	4.09	5.30	4.89	4.54	1.00	1.00
2020	14,181	14,181	4.23	5.49	5.07	4.76	1.00	1.00
2021	14,181	14,181	4.34	5.64	5.20	4.88	1.00	1.00
2022	14,181	14,181	4.45	5.80	5.34	5.00	1.00	1.00
2023	14,181	14,181	4.58	5.96	5.48	5.13	1.00	1.00
2024	14,181	14,181	4.67	6.13	5.63	5.27	1.00	1.00
2025	14,181	14,181	4.80	6.32	5.80	5.42	1.00	1.00
2026	14,181	14,181	4.94	6.52	5.98	5.59	1.00	1.00
2027	14,181	14,181	5.07	6.52	5.98	5.59	1.00	1.00

000193

\* 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 CI Lighting Program: 2005 -2007 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	2,532	951	132	3,421	5,258	1,777
2009	2,452	989	131	3,343	5,344	1,570
2010	2,362	1,028	130	3,281	5,115	1,686
2011	2,276	1,069	137	3,411	5,413	1,481
2012	2,193	1,112	141	3,504	5,485	1,456
2013	2,113	1,157	147	3,684	5,614	1,487
2014	2,036	1,203	152	3,856	5,735	1,511
2015	1,962	1,251	156	3,924	5,788	1,528
2016	1,890	1,301	161	4,036	5,835	1,552
2017	1,817	1,353	166	4,144	6,036	1,445
2018	1,745	1,407	171	4,261	6,370	1,214
2019	1,673	1,464	176	4,392	6,702	1,003
2020	1,600	1,522	182	4,524	7,028	800
2021	1,528	1,583	187	4,643	7,197	743
2022	1,456	1,646	192	4,784	7,377	681
2023	1,383	1,712	198	4,881	7,570	604
2024	1,311	1,781	204	4,994	7,777	512
2025	1,239	1,852	210	5,111	8,006	405
2026	1,166	1,926	216	5,230	8,258	279
2027	1,094	2,003	222	5,349	8,258	410
NOM	35,829	28,311	3408	84,753	130,158	22,143
NPV	8,423	5,353	662	16,589	25,468	5,560

761000

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME CI Lighting Program: 2005 -2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	365	0
2006	94	24	118	61	105	166	1,113	0
2007	182	49	232	118	214	333	1,919	0
2008	264	75	340	172	327	499	2,326	0
2009	255	78	333	165	340	505	2,395	0
2010	245	82	326	159	354	513	2,425	0
2011	235	85	320	153	368	521	2,539	0
2012	226	88	315	147	382	530	2,618	0
2013	218	92	310	142	398	539	2,692	0
2014	209	95	305	136	414	550	2,752	0
2015	201	99	301	131	430	561	2,788	0
2016	193	103	296	126	447	573	2,821	0
2017	185	107	293	120	465	586	2,930	0
2018	177	112	289	115	484	599	3,084	0
2019	169	116	285	110	503	613	3,262	0
2020	161	121	282	105	523	628	3,377	0
2021	153	126	278	99	544	644	3,475	0
2022	145	131	275	94	566	660	3,575	0
2023	137	136	273	89	589	678	3,678	0
2024	129	141	270	84	612	696	3,786	0
2025	121	147	268	78	637	715	3,903	0
2026	113	153	266	73	662	736	4,032	0
2027	106	159	265	69	689	758	4,005	0
NOM.	3,919	2,319	6,238	2,547	10,054	12,601	65,871	0
NPV	995	460	1,455	647	1,992	2,639	13,746	0

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

000195

TOTAL RESOURCE COST TEST  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME CI Lighting Program: 2005 -2007 installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	446	7,456	0	7,902	0	0	365	0	365	(7,537)	(4,129)
2006	0	437	7,314	0	7,752	0	285	1,113	0	1,398	(6,354)	(7,324)
2007	0	429	7,175	0	7,604	0	564	1,919	0	2,484	(5,121)	(9,686)
2008	0	0	0	0	0	1,777	838	2,326	0	4,941	4,941	(7,595)
2009	0	0	0	0	0	1,570	838	2,395	0	4,803	4,803	(5,729)
2010	0	0	0	0	0	1,686	839	2,425	0	4,950	4,950	(3,964)
2011	0	0	0	0	0	1,481	841	2,539	0	4,861	4,861	(2,374)
2012	0	0	0	0	0	1,458	844	2,618	0	4,918	4,918	(898)
2013	0	0	0	0	0	1,487	849	2,692	0	5,027	5,027	487
2014	0	0	0	0	0	1,511	855	2,752	0	5,118	5,118	1,781
2015	0	0	0	0	0	1,526	862	2,788	0	5,176	5,176	2,982
2016	0	0	0	0	0	1,552	869	2,821	0	5,243	5,243	4,097
2017	0	0	0	0	0	1,445	878	2,930	0	5,253	5,253	5,123
2018	0	0	0	0	0	1,214	888	3,094	0	5,196	5,196	6,055
2019	0	0	0	0	0	1,003	898	3,262	0	5,163	5,163	6,904
2020	0	0	0	0	0	800	910	3,377	0	5,087	5,087	7,672
2021	0	0	0	0	0	743	922	3,475	0	5,141	5,141	8,384
2022	0	0	0	0	0	681	936	3,575	0	5,192	5,192	9,043
2023	0	0	0	0	0	604	950	3,678	0	5,232	5,232	9,653
2024	0	0	0	0	0	512	966	3,786	0	5,263	5,263	10,217
2025	0	0	0	0	0	405	983	3,903	0	5,291	5,291	10,736
2026	0	0	0	0	0	279	1,001	4,032	0	5,313	5,313	11,215
2027	0	0	0	0	0	410	1,023	4,005	0	5,437	5,437	11,665
NOM	0	1,312	21,946	0	23,258	22,143	18,839	65,871	0	106,853	83,585	
NPV	0	662	11,073	0	11,735	5,560	4,084	13,746	0	23,399	11,665	

961000

Discount Rate: 8.88 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.99

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: CI Lighting Program: 2005 -2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	801	0	587	0	1,388	7,456	0	0	7,456	(6,068)	(3,325)
2006	2,365	0	561	0	2,926	7,314	0	0	7,314	(4,389)	(5,531)
2007	3,884	0	538	0	4,420	7,175	0	0	7,175	(2,755)	(6,802)
2008	4,643	0	0	0	4,643	0	0	0	0	4,643	(4,837)
2009	4,639	0	0	0	4,639	0	0	0	0	4,639	(3,034)
2010	4,775	0	0	0	4,775	0	0	0	0	4,775	(1,332)
2011	4,778	0	0	0	4,778	0	0	0	0	4,778	231
2012	4,824	0	0	0	4,824	0	0	0	0	4,824	1,679
2013	4,861	0	0	0	4,861	0	0	0	0	4,861	3,018
2014	4,929	0	0	0	4,929	0	0	0	0	4,929	4,264
2015	4,964	0	0	0	4,964	0	0	0	0	4,964	5,415
2016	5,007	0	0	0	5,007	0	0	0	0	5,007	6,481
2017	5,015	0	0	0	5,015	0	0	0	0	5,015	7,460
2018	5,055	0	0	0	5,055	0	0	0	0	5,055	8,386
2019	5,095	0	0	0	5,095	0	0	0	0	5,095	9,204
2020	5,136	0	0	0	5,136	0	0	0	0	5,136	9,979
2021	5,179	0	0	0	5,179	0	0	0	0	5,179	10,697
2022	5,220	0	0	0	5,220	0	0	0	0	5,220	11,360
2023	5,264	0	0	0	5,264	0	0	0	0	5,264	11,974
2024	5,309	0	0	0	5,309	0	0	0	0	5,309	12,542
2025	5,353	0	0	0	5,353	0	0	0	0	5,353	13,068
2026	5,399	0	0	0	5,399	0	0	0	0	5,399	13,554
2027	5,447	0	0	0	5,447	0	0	0	0	5,447	14,005
<b>NOM</b>	<b>107,943</b>	<b>0</b>	<b>1,684</b>	<b>0</b>	<b>109,627</b>	<b>21,946</b>	<b>0</b>	<b>0</b>	<b>21,946</b>	<b>87,680</b>	
<b>NPV</b>	<b>24,227</b>	<b>0</b>	<b>851</b>	<b>0</b>	<b>25,078</b>	<b>11,073</b>	<b>0</b>	<b>0</b>	<b>11,073</b>	<b>14,005</b>	

000197

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

2008  
 8.98 %  
2.28



**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME: CI Lighting Program: 2005 -2007 Installations**

861000

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	446	587	658	0	1,691	365	0	0	0	365	(1,325)	(726)
2006	0	437	561	1,939	0	2,937	1,113	285	0	0	1,398	(1,539)	(1,500)
2007	0	429	538	3,182	0	4,147	1,919	584	0	0	2,484	(1,664)	(2,268)
2008	0	0	0	3,802	0	3,802	4,102	838	0	0	4,941	1,138	(1,786)
2009	0	0	0	3,799	0	3,799	3,965	838	0	0	4,803	1,004	(1,396)
2010	0	0	0	3,887	0	3,887	4,111	839	0	0	4,950	1,083	(1,016)
2011	0	0	0	3,880	0	3,880	4,020	841	0	0	4,861	982	(695)
2012	0	0	0	3,914	0	3,914	4,074	844	0	0	4,918	1,004	(394)
2013	0	0	0	3,938	0	3,938	4,178	849	0	0	5,027	1,089	(94)
2014	0	0	0	3,988	0	3,988	4,264	855	0	0	5,118	1,130	192
2015	0	0	0	4,012	0	4,012	4,314	862	0	0	5,176	1,164	462
2016	0	0	0	4,040	0	4,040	4,374	869	0	0	5,243	1,203	718
2017	0	0	0	4,046	0	4,046	4,375	878	0	0	5,253	1,207	953
2018	0	0	0	4,074	0	4,074	4,308	888	0	0	5,196	1,121	1,154
2019	0	0	0	4,102	0	4,102	4,265	898	0	0	5,183	1,080	1,329
2020	0	0	0	4,131	0	4,131	4,178	910	0	0	5,087	956	1,473
2021	0	0	0	4,181	0	4,181	4,219	922	0	0	5,141	979	1,609
2022	0	0	0	4,190	0	4,190	4,258	936	0	0	5,192	1,002	1,736
2023	0	0	0	4,221	0	4,221	4,282	950	0	0	5,232	1,011	1,854
2024	0	0	0	4,253	0	4,253	4,298	966	0	0	5,263	1,011	1,962
2025	0	0	0	4,283	0	4,283	4,308	983	0	0	5,281	1,008	2,061
2026	0	0	0	4,316	0	4,316	4,312	1,001	0	0	5,313	997	2,151
2027	0	0	0	4,350	0	4,350	4,414	1,023	0	0	5,437	1,087	2,241
NOM.	0	1,312	1,684	87,168	0	90,163	88,014	18,839	0	0	106,853	16,689	
NPV	0	662	851	19,646	0	21,159	19,306	4,094	0	0	23,399	2,241	

Discount Rate

8.98 %

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

1.11

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I EFFICIENT LIGHTING (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

FL8HP                      HID8HP

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: GS

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 1,160.00
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 129.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

RATE CLASS: GSD

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 1,160.00
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 102.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

Blended  
CPI      Cap Rate

1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

661000

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I EFFICIENT LIGHTING (2005 - 2007)

RATE CLASS: GSLD

MEASURES

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 1,160.00	\$ 1,847.00
(6) CUSTOMER O&M COST	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 111.00	\$ 189.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000200

000201

**C/I BUILDING ENVELOPE**

NPV END 1998 (\$000)

<u>YEARS</u>	<u>RATE IMPACT TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 26,625	\$ 24,759	1.08

<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
\$ 26,033	\$ 19,767	1.32

<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
\$ 26,625	\$ 21,619	1.23

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Commercial / Industrial Building Envelope : 2001 - 2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.88 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.13 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1,174.7 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	6.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.61524
(5) K FACTOR FOR T & D.....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	*** CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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

000202

\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Commercial / Industrial Building Envelope : 2001 - 2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	306	1,140	0	1,445	97	112	3,264	0	3,264	
2002	311	1,131	0	1,442	289	327	3,320	0	3,320	
2003	317	1,122	0	1,439	491	540	3,381	0	3,381	
2004	322	1,114	0	1,436	688	749	3,439	0	3,439	
2005	0	0	0	0	797	849	0	0	0	
2006	0	0	0	0	801	834	0	0	0	
2007	0	0	0	0	808	833	0	0	0	
2008	0	0	0	0	813	834	0	0	0	
2009	0	0	0	0	813	832	0	0	0	
2010	0	0	0	0	853	804	0	0	0	
2011	33	46	0	78	861	783	366	0	366	
2012	32	44	0	77	871	783	365	0	365	
2013	32	43	0	76	882	776	365	0	365	
2014	32	42	0	74	898	775	364	0	364	
2015	0	0	0	0	907	772	0	0	0	
2016	24	51	0	75	920	763	326	0	326	
2017	25	51	0	76	921	764	335	0	335	
2018	26	51	0	77	931	760	344	0	344	
2019	27	51	0	77	942	756	354	0	354	
2020	0	0	0	0	952	752	0	0	0	
2021	504	1,089	0	1,593	963	749	5,306	0	5,306	
2022	514	1,080	0	1,594	974	745	5,410	0	5,410	
2023	524	1,071	0	1,595	984	742	5,517	0	5,517	
2024	534	1,063	0	1,597	996	738	5,625	0	5,625	
NOM	3,563	9,187	0	12,750	19,449	17,371	38,080	0	38,080	
NPV	1,165	3,693	0	4,858	5,728	5,478	12,473	0	12,473	

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

000203

**CALCULATION OF GEN K-FACTOR**  
**PROGRAM METHOD SELECTED REV\_REQ**  
**PROGRAM NAME: Commercial / Industrial Building Envelope : 2001 - 2004 Installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2005	10,970	375	0	754	467	154	366	23	2,140	2,140	2,140
2006	10,509	359	0	723	305	154	366	166	2,072	1,902	4,041
2007	9,989	342	0	687	305	154	366	143	1,996	1,681	5,722
2008	9,489	325	0	652	304	154	366	123	1,923	1,486	7,209
2009	9,010	308	0	619	302	154	366	104	1,853	1,314	8,523
2010	8,549	292	0	588	300	154	366	86	1,786	1,162	9,685
2011	8,105	277	0	557	297	154	366	70	1,721	1,028	10,712
2012	7,676	263	0	528	293	154	366	55	1,658	909	11,621
2013	7,256	248	0	499	278	154	366	52	1,597	803	12,424
2014	6,838	234	0	470	280	154	366	52	1,536	709	13,132
2015	6,420	220	0	441	242	154	366	52	1,475	624	13,757
2016	6,001	205	0	413	224	154	366	52	1,414	549	14,306
2017	5,583	191	0	384	206	154	366	52	1,352	482	14,788
2018	5,164	177	0	355	188	154	366	52	1,291	422	15,210
2019	4,746	162	0	326	169	154	366	52	1,230	369	15,580
2020	4,327	148	0	297	151	154	366	52	1,169	322	15,902
2021	3,909	134	0	269	133	154	366	52	1,108	280	16,182
2022	3,490	119	0	240	115	154	366	52	1,047	243	16,425
2023	3,072	105	0	211	97	154	366	52	986	210	16,634
2024	2,653	91	0	182	79	154	366	52	924	181	16,815
2025	2,281	78	0	157	155	154	366	(39)	870	156	16,971
2026	2,000	68	0	137	234	154	366	(131)	829	136	17,107
2027	1,764	60	0	121	224	154	366	(131)	795	120	17,227
2028	1,529	52	0	105	214	154	366	(131)	760	105	17,332
2029	1,294	44	0	89	204	154	366	(131)	726	92	17,425
2030	1,059	36	0	73	193	154	366	(131)	691	81	17,505
2031	823	28	0	57	183	154	366	(131)	657	70	17,576
2032	588	20	0	40	173	154	366	(131)	623	61	17,637
2033	353	12	0	24	163	154	366	(131)	588	53	17,690
2034	118	4	0	8	153	154	366	(131)	554	46	17,736

000204

IN SERVICE COS (\$000) 10,980  
 IN SERVICE YEAR 2005  
 BOOK LIFE (YRS) 30  
 EFFEC. TAX RATE 38.575  
 DISCOUNT RATE 8.98%  
 OTAX & INS RATE 1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial Building

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPR FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	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)
2005	3.75%	399	399	366	366	339	339	23	812	0	0	0	23	(161)
2006	7.22%	768	1,168	366	732	339	678	166	812	0	0	0	166	5
2007	6.68%	711	1,878	366	1,098	339	1,017	143	812	0	0	0	143	148
2008	6.18%	658	2,536	366	1,464	339	1,356	123	812	0	0	0	123	271
2009	5.71%	608	3,145	366	1,830	339	1,695	104	812	0	0	0	104	375
2010	5.29%	563	3,707	366	2,196	339	2,034	86	812	0	0	0	86	461
2011	4.89%	520	4,227	366	2,562	339	2,372	70	812	0	0	0	70	531
2012	4.52%	481	4,709	366	2,928	339	2,711	55	812	0	0	0	55	586
2013	4.46%	475	5,184	366	3,294	339	3,050	52	812	0	0	0	52	639
2014	4.46%	475	5,659	366	3,660	339	3,389	52	812	0	0	0	52	691
2015	4.46%	475	6,134	366	4,026	339	3,728	52	812	0	0	0	52	744
2016	4.46%	475	6,609	366	4,392	339	4,067	52	812	0	0	0	52	796
2017	4.46%	475	7,084	366	4,758	339	4,406	52	812	0	0	0	52	849
2018	4.46%	475	7,558	366	5,124	339	4,745	52	812	0	0	0	52	901
2019	4.46%	475	8,033	366	5,490	339	5,084	52	812	0	0	0	52	954
2020	4.46%	475	8,508	366	5,856	339	5,423	52	812	0	0	0	52	1,006
2021	4.46%	475	8,983	366	6,222	339	5,762	52	812	0	0	0	52	1,059
2022	4.46%	475	9,458	366	6,588	339	6,101	52	812	0	0	0	52	1,111
2023	4.46%	475	9,933	366	6,954	339	6,440	52	812	0	0	0	52	1,163
2024	4.46%	475	10,408	366	7,320	339	6,779	52	812	0	0	0	52	1,216
2025	2.23%	237	10,646	366	7,686	339	7,117	(39)	812	0	0	0	(39)	1,177
2026	0.00%	0	10,646	366	8,052	339	7,456	(131)	812	0	0	0	(131)	1,046
2027	0.00%	0	10,646	366	8,418	339	7,795	(131)	812	0	0	0	(131)	915
2028	0.00%	0	10,646	366	8,784	339	8,134	(131)	812	0	0	0	(131)	785
2029	0.00%	0	10,646	366	9,150	339	8,473	(131)	812	0	0	0	(131)	654
2030	0.00%	0	10,646	366	9,516	339	8,812	(131)	812	0	0	0	(131)	523
2031	0.00%	0	10,646	366	9,882	339	9,151	(131)	812	0	0	0	(131)	392
2032	0.00%	0	10,646	366	10,248	339	9,490	(131)	812	0	0	0	(131)	262
2033	0.00%	0	10,646	366	10,614	339	9,829	(131)	812	0	0	0	(131)	131
2034	0.00%	0	10,646	366	10,980	339	10,168	(131)	812	0	0	0	(131)	0

000205

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(184)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	812
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%



DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial Building Envelope : 2001 - 2004 Installations

(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)
2005	3.75%	399	23	10,614	366	(161)	11,164	10,775	10,970
2006	7.22%	768	166	10,248	732	5	10,775	10,243	10,509
2007	6.68%	711	143	9,882	1,098	148	10,243	9,734	9,989
2008	6.18%	658	123	9,516	1,464	271	9,734	9,245	9,489
2009	5.71%	608	104	9,150	1,830	375	9,245	8,775	9,010
2010	5.29%	563	86	8,784	2,196	461	8,775	8,323	8,549
2011	4.89%	520	70	8,418	2,562	531	8,323	7,887	8,105
2012	4.52%	481	55	8,052	2,928	588	7,887	7,466	7,676
2013	4.46%	475	52	7,686	3,294	639	7,466	7,047	7,256
2014	4.46%	475	52	7,320	3,660	691	7,047	6,629	6,838
2015	4.46%	475	52	6,954	4,026	744	6,629	6,210	6,420
2016	4.46%	475	52	6,588	4,392	796	6,210	5,792	6,001
2017	4.46%	475	52	6,222	4,758	849	5,792	5,373	5,583
2018	4.46%	475	52	5,856	5,124	901	5,373	4,955	5,164
2019	4.46%	475	52	5,490	5,490	954	4,955	4,536	4,746
2020	4.46%	475	52	5,124	5,856	1,006	4,536	4,118	4,327
2021	4.46%	475	52	4,758	6,222	1,059	4,118	3,699	3,909
2022	4.46%	475	52	4,392	6,588	1,111	3,699	3,281	3,490
2023	4.46%	475	52	4,026	6,954	1,163	3,281	2,863	3,072
2024	4.46%	475	52	3,660	7,320	1,216	2,863	2,444	2,653
2025	2.23%	237	(39)	3,294	7,686	1,177	2,444	2,117	2,281
2026	0.00%	0	(131)	2,928	8,052	1,046	2,117	1,882	2,000
2027	0.00%	0	(131)	2,562	8,418	915	1,882	1,647	1,764
2028	0.00%	0	(131)	2,196	8,784	785	1,647	1,411	1,529
2029	0.00%	0	(131)	1,830	9,150	654	1,411	1,176	1,294
2030	0.00%	0	(131)	1,464	9,516	523	1,176	941	1,059
2031	0.00%	0	(131)	1,098	9,882	392	941	706	823
2032	0.00%	0	(131)	732	10,248	262	706	470	588
2033	0.00%	0	(131)	366	10,614	131	470	235	353
2034	0.00%	0	(131)	0	10,980	0	235	0	118

000206

\* 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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.061	0.65%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00% 582.24

(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)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	5.09	3.40	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	24.80	14.39	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	72.53	34.44	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	9,764	9,764	9,764
EQUITY AFUDC	812		
DEBT AFUDC	404	404	
CPI			882
<b>TOTAL</b>	<b>10,980</b>	<b>10,168</b>	<b>10,645</b>

IN SERVICE YEAR 2005  
PLANT COSTS 519  
AFUDC RATE 10.30%

\* Column not specified in workbook

000207

INPUT DATA – PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Commercial / Industrial Building Envelope : 2001 - 2004 Installations

(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
1998	0	0	2.00	2.51	2.03	0.00	1.00	1.00
1999	0	0	2.23	2.83	2.29	0.00	1.00	1.00
2000	0	0	2.45	3.18	2.52	0.00	1.00	1.00
2001	3,766	3,766	2.73	3.84	2.83	0.00	1.00	1.00
2002	7,500	7,500	2.61	3.25	2.69	0.00	1.00	1.00
2003	11,202	11,202	2.60	3.39	2.67	0.00	1.00	1.00
2004	14,873	14,873	2.78	3.67	2.86	0.00	1.00	1.00
2005	14,873	14,873	2.93	4.03	3.02	3.25	1.00	1.00
2006	14,873	14,873	3.01	4.11	3.11	3.34	1.00	1.00
2007	14,873	14,873	3.13	4.54	3.24	3.49	1.00	1.00
2008	14,873	14,873	3.07	4.25	3.17	3.45	1.00	1.00
2009	14,873	14,873	3.15	4.37	3.26	3.60	1.00	1.00
2010	14,873	14,873	3.14	4.55	3.25	3.57	1.00	1.00
2011	14,873	14,873	3.32	4.67	3.43	3.71	1.00	1.00
2012	14,873	14,873	3.38	4.80	3.50	3.77	1.00	1.00
2013	14,873	14,873	3.47	4.97	3.60	3.84	1.00	1.00
2014	14,873	14,873	3.55	5.14	3.67	3.92	1.00	1.00
2015	14,873	14,873	3.58	5.24	3.70	3.95	1.00	1.00
2016	14,873	14,873	3.62	5.36	3.74	4.00	1.00	1.00
2017	14,873	14,873	3.75	5.59	3.87	4.13	1.00	1.00
2018	14,873	14,873	3.93	5.90	4.07	4.35	1.00	1.00
2019	14,873	14,873	4.09	6.30	4.24	4.55	1.00	1.00
2020	14,873	14,873	4.23	6.53	4.39	4.79	1.00	1.00
2021	14,873	14,873	4.32	6.72	4.48	4.88	1.00	1.00
2022	14,873	14,873	4.41	6.92	4.58	4.97	1.00	1.00
2023	14,873	14,873	4.53	7.15	4.71	5.10	1.00	1.00
2024	14,873	14,873	4.64	7.39	4.82	5.23	1.00	1.00

000208

\* 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 Building Envelope : 2001 - 2004 Installations**

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	2,140	768	108	2,895	4,340	1,570
2006	2,072	798	114	3,033	4,591	1,427
2007	1,996	830	119	3,125	4,866	1,204
2008	1,923	864	122	3,161	4,801	1,269
2009	1,853	898	124	3,165	4,950	1,090
2010	1,786	934	122	3,081	4,728	1,196
2011	1,721	971	126	3,126	4,918	1,027
2012	1,658	1,010	130	3,217	4,996	1,020
2013	1,597	1,051	132	3,315	5,038	1,057
2014	1,536	1,093	135	3,411	5,092	1,083
2015	1,475	1,136	138	3,472	5,124	1,098
2016	1,414	1,182	141	3,531	5,140	1,127
2017	1,352	1,229	146	3,638	5,331	1,035
2018	1,291	1,278	151	3,750	5,631	838
2019	1,230	1,329	156	3,882	5,951	646
2020	1,169	1,383	161	3,998	6,268	443
2021	1,108	1,438	165	4,086	6,382	415
2022	1,047	1,495	170	4,181	6,504	389
2023	986	1,555	175	4,720	6,663	772
2024	924	1,617	180	4,720	6,836	606
<b>NOM</b>	<b>30,280</b>	<b>22,862</b>	<b>2815</b>	<b>71,507</b>	<b>108,151</b>	<b>19,312</b>
<b>NPV</b>	<b>9,213</b>	<b>5,595</b>	<b>717</b>	<b>18,317</b>	<b>27,832</b>	<b>6,009</b>

000209

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial Building Envelope : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	93	0
2002	57	14	71	37	59	96	230	0
2003	113	28	141	73	122	195	403	0
2004	167	44	211	108	190	298	611	0
2005	220	60	280	143	262	405	772	0
2006	211	63	274	137	272	410	785	0
2007	203	65	269	132	283	416	879	0
2008	196	68	264	127	295	422	816	0
2009	188	71	259	122	306	429	838	0
2010	181	74	254	118	319	436	881	0
2011	174	76	250	113	331	445	899	0
2012	167	80	247	109	345	453	925	0
2013	160	83	243	104	359	463	959	0
2014	153	86	239	100	373	473	997	0
2015	147	89	236	95	388	483	1,017	0
2016	140	93	233	91	403	494	1,043	0
2017	133	97	230	86	419	506	1,090	0
2018	126	101	227	82	436	518	1,152	0
2019	119	105	224	78	454	531	1,235	0
2020	113	109	221	73	472	545	1,283	0
2021	106	113	219	69	491	559	1,320	0
2022	99	118	217	64	510	575	1,363	0
2023	93	122	215	61	531	591	1,410	0
2024	88	127	215	57	552	609	1,460	0

NOM.	3,354	1,885	5,238	2,180	8,172	10,352	22,463	0
NPV	1,141	494	1,635	741	2,144	2,885	6,110	0

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

000210

**TOTAL RESOURCE COST TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAMI Commercial / Industrial Building Envelope : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	306	3,264	0	3,570	0	0	93	0	93	(3,476)	(2,686)
2002	0	311	3,320	0	3,631	0	167	230	0	397	(3,234)	(4,980)
2003	0	317	3,381	0	3,697	0	336	403	0	740	(2,958)	(6,904)
2004	0	322	3,439	0	3,761	0	509	611	0	1,120	(2,641)	(8,481)
2005	0	0	0	0	0	1,570	685	772	0	3,027	3,027	(6,823)
2006	0	0	0	0	0	1,427	684	785	0	2,896	2,896	(5,367)
2007	0	0	0	0	0	1,204	684	879	0	2,768	2,768	(4,090)
2008	0	0	0	0	0	1,269	685	816	0	2,770	2,770	(2,917)
2009	0	0	0	0	0	1,090	688	838	0	2,616	2,616	(1,901)
2010	0	0	0	0	0	1,196	691	881	0	2,768	2,768	(914)
2011	0	33	366	0	398	1,027	695	899	0	2,620	2,222	(187)
2012	0	32	365	0	398	1,020	700	925	0	2,645	2,247	487
2013	0	32	365	0	397	1,057	706	959	0	2,722	2,324	1,127
2014	0	32	364	0	397	1,083	712	997	0	2,792	2,395	1,733
2015	0	0	0	0	0	1,098	719	1,017	0	2,834	2,834	2,390
2016	0	24	326	0	350	1,127	727	1,043	0	2,897	2,547	2,933
2017	0	25	335	0	360	1,035	736	1,090	0	2,860	2,500	3,421
2018	0	26	344	0	370	838	745	1,152	0	2,736	2,366	3,845
2019	0	27	354	0	380	646	755	1,235	0	2,637	2,257	4,216
2020	0	0	0	0	0	443	766	1,283	0	2,492	2,492	4,592
2021	0	504	5,306	0	5,810	415	778	1,320	0	2,514	(3,296)	4,136
2022	0	514	5,410	0	5,924	389	792	1,363	0	2,544	(3,380)	3,706
2023	0	524	5,517	0	6,040	772	807	1,410	0	2,989	(3,052)	3,350
2024	0	534	5,625	0	6,160	606	824	1,460	0	2,891	(3,269)	3,000

000211

NOM	0	3,563	38,080	0	41,643	19,312	15,591	22,463	0	57,366	15,723
NPV	0	1,165	12,473	0	13,638	6,009	4,520	6,110	0	16,639	3,000

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 1.22

**PARTICIPANT COSTS AND BENEFITS**  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME Commercial / Industrial Building Envelope : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	243	0	1,140	0	1,382	3,264	0	0	3,264	(1,882)	(1,454)
2002	717	0	1,131	0	1,848	3,320	0	0	3,320	(1,472)	(2,498)
2003	1,203	0	1,122	0	2,325	3,381	0	0	3,381	(1,056)	(3,185)
2004	1,678	0	1,114	0	2,792	3,439	0	0	3,439	(647)	(3,571)
2005	1,926	0	0	0	1,926	0	0	0	0	1,926	(2,516)
2006	1,916	0	0	0	1,916	0	0	0	0	1,916	(1,552)
2007	1,925	0	0	0	1,925	0	0	0	0	1,925	(664)
2008	1,932	0	0	0	1,932	0	0	0	0	1,932	154
2009	1,930	0	0	0	1,930	0	0	0	0	1,930	904
2010	1,956	0	0	0	1,956	0	0	0	0	1,956	1,601
2011	1,946	0	46	0	1,992	366	0	0	366	1,626	2,133
2012	1,960	0	44	0	2,005	365	0	0	365	1,639	2,625
2013	1,968	0	43	0	2,011	365	0	0	365	1,646	3,079
2014	1,988	0	42	0	2,030	364	0	0	364	1,666	3,500
2015	1,997	0	0	0	1,997	0	0	0	0	1,997	3,963
2016	2,005	0	51	0	2,056	326	0	0	326	1,731	4,331
2017	2,008	0	51	0	2,059	335	0	0	335	1,724	4,668
2018	2,019	0	51	0	2,069	344	0	0	344	1,725	4,977
2019	2,028	0	51	0	2,079	354	0	0	354	1,726	5,261
2020	2,039	0	0	0	2,039	0	0	0	0	2,039	5,569
2021	2,050	0	1,089	0	3,139	5,306	0	0	5,306	(2,167)	5,269
2022	2,060	0	1,080	0	3,140	5,410	0	0	5,410	(2,270)	4,980
2023	2,072	0	1,071	0	3,143	5,517	0	0	5,517	(2,373)	4,703
2024	2,084	0	1,063	0	3,146	5,625	0	0	5,625	(2,479)	4,438

000212

NOM	43,653	0	9,187	0	52,840	38,080	0	0	38,080	14,760
NPV	13,219	0	3,693	0	16,912	12,473	0	0	12,473	4,438

In Service of Gen Unit: 2005  
Discount Rate : 8.98 %  
Benefit/Cost Ratio ( Col(6) / Col(10)) 1.36

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Commercial / Industrial Building Envelope : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	306	1,140	209	0	1,654	93	0	0	0	93	(1,560)	(1,206)
2002	0	311	1,131	616	0	2,057	230	167	0	0	397	(1,661)	(2,383)
2003	0	317	1,122	1,031	0	2,469	403	336	0	0	740	(1,730)	(3,509)
2004	0	322	1,114	1,437	0	2,873	611	509	0	0	1,120	(1,753)	(4,555)
2005	0	0	0	1,646	0	1,646	2,342	685	0	0	3,027	1,381	(3,799)
2006	0	0	0	1,635	0	1,635	2,212	684	0	0	2,896	1,261	(3,165)
2007	0	0	0	1,641	0	1,641	2,084	684	0	0	2,768	1,127	(2,645)
2008	0	0	0	1,647	0	1,647	2,085	685	0	0	2,770	1,123	(2,169)
2009	0	0	0	1,644	0	1,644	1,928	688	0	0	2,616	971	(1,792)
2010	0	0	0	1,657	0	1,657	2,077	691	0	0	2,768	1,111	(1,396)
2011	0	33	46	1,643	0	1,722	1,925	695	0	0	2,620	898	(1,102)
2012	0	32	44	1,654	0	1,731	1,945	700	0	0	2,645	914	(828)
2013	0	32	43	1,658	0	1,733	2,016	706	0	0	2,722	988	(556)
2014	0	32	42	1,673	0	1,747	2,080	712	0	0	2,792	1,045	(291)
2015	0	0	0	1,678	0	1,678	2,115	719	0	0	2,834	1,156	(23)
2016	0	24	51	1,682	0	1,758	2,170	727	0	0	2,897	1,140	219
2017	0	25	51	1,685	0	1,761	2,125	736	0	0	2,860	1,099	434
2018	0	26	51	1,691	0	1,768	1,991	745	0	0	2,736	968	607
2019	0	27	51	1,698	0	1,775	1,882	755	0	0	2,637	862	749
2020	0	0	0	1,705	0	1,705	1,726	766	0	0	2,492	788	868
2021	0	504	1,089	1,712	0	3,305	1,735	778	0	0	2,514	(791)	759
2022	0	514	1,080	1,718	0	3,312	1,752	792	0	0	2,544	(768)	661
2023	0	524	1,071	1,726	0	3,321	2,182	807	0	0	2,989	(332)	622
2024	0	534	1,063	1,734	0	3,331	2,066	824	0	0	2,891	(440)	575

000213

NOM.	0	3,563	9,167	36,819	0	49,570	41,775	15,591	0	0	57,366	7,796
NPV	0	1,165	3,693	11,206	0	16,064	12,119	4,520	0	0	16,639	575

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.04



INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I BUILDING ENVELOPE (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: GS

	SCD-18	SCD-19	SCD-22	SCD-23	SCD-26	SCD-27
(1) UTILITY NON RECURRING COST PER CUSTOMER		\$ 75.00		\$ 75.00		\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER		\$ -		\$ -		\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)		\$ 625.03		\$ 879.73		\$ 1,500.00
(6) CUSTOMER O&M COST		\$ -		\$ -		\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE		\$ 417.50		\$ 295.00		\$ 300.00
(13) UTILITY RECURRING REBATE/INCENTIVE		\$ -		\$ -		\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE		0%		0%		0%

RATE CLASS: GSD

	SCD-18	SCD-19	SCD-22	SCD-23	SCD-26	SCD-27
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 971.18	\$ 695.48	\$ 839.00	\$ 822.85	\$ 910.00	\$ 895.00
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 270.68	\$ 247.00	\$ 80.28	\$ 80.00	\$ 200.00	\$ 200.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%	0%

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

000214

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I BUILDING ENVELOPE (2001 - 2004)

RATE CLASS: GSLD	MEASURES					
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 855.73	\$ 629.29	\$ 839.00	\$ 812.92	\$ 940.00	\$ 890.00
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 393.00	\$ 359.00	\$ 190.00	\$ 189.66	\$ 340.00	\$ 300.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000215

INPUT DATA -- PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Commercial / Industrial Building Envelope : 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.88 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.13 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1,171.8 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	
(7) CUSTOMER kWh INCREASE AT METER .....	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	YEARS
(4) K FACTOR FOR GENERATION .....	1.61528
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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

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\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Commercial / Industrial Building Envelope : 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	328	1,106	0	1,434	97	108	3,474	0	3,474	
2006	334	1,098	0	1,432	292	309	3,538	0	3,538	
2007	340	1,089	0	1,430	490	510	3,603	0	3,603	
2008	0	0	0	0	590	607	0	0	0	
2009	0	0	0	0	590	605	0	0	0	
2010	0	0	0	0	619	585	0	0	0	
2011	0	0	0	0	625	570	0	0	0	
2012	0	0	0	0	632	570	0	0	0	
2013	0	0	0	0	640	565	0	0	0	
2014	0	0	0	0	651	564	0	0	0	
2015	32	41	0	73	658	562	355	0	355	
2016	32	39	0	72	667	555	355	0	355	
2017	32	38	0	70	668	556	354	0	354	
2018	0	0	0	0	676	553	0	0	0	
2019	0	0	0	0	683	550	0	0	0	
2020	27	52	0	79	691	548	331	0	331	
2021	28	52	0	80	699	545	341	0	341	
2022	29	52	0	81	707	542	350	0	350	
2023	0	0	0	0	715	540	0	0	0	
2024	0	0	0	0	723	537	0	0	0	
2025	545	1,054	0	1,599	731	535	5,725	0	5,725	
2026	556	1,046	0	1,602	739	532	5,838	0	5,838	
2027	567	1,038	0	1,605	748	530	5,954	0	5,954	
NOM	2,851	6,705	0	9,556	14,330	12,080	30,218	0	30,218	
NPV	687	1,991	0	2,678	3,171	2,845	7,294	0	7,294	

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\* 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 Building Envelope : 2005 - 2007 Installations

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2008	8,519	291	0	586	363	119	284	18	1,662	1,662	1,662
2009	8,161	279	0	561	237	119	284	129	1,609	1,477	3,138
2010	7,757	265	0	533	237	119	284	111	1,550	1,305	4,444
2011	7,369	252	0	507	236	119	284	96	1,494	1,154	5,598
2012	6,997	239	0	481	235	119	284	81	1,439	1,020	6,618
2013	6,639	227	0	456	233	119	284	67	1,387	902	7,521
2014	6,294	215	0	433	231	119	284	54	1,336	798	8,319
2015	5,961	204	0	410	228	119	284	43	1,288	706	9,024
2016	5,635	193	0	387	216	119	284	41	1,240	624	9,648
2017	5,310	182	0	365	202	119	284	41	1,193	550	10,198
2018	4,985	170	0	343	188	119	284	41	1,145	485	10,683
2019	4,660	159	0	320	174	119	284	41	1,098	426	11,110
2020	4,335	148	0	298	160	119	284	41	1,050	374	11,484
2021	4,010	137	0	276	146	119	284	41	1,003	328	11,812
2022	3,685	126	0	253	132	119	284	41	955	287	12,099
2023	3,360	115	0	231	118	119	284	41	908	250	12,349
2024	3,035	104	0	209	104	119	284	41	860	217	12,566
2025	2,710	93	0	186	90	119	284	41	813	189	12,755
2026	2,385	82	0	164	75	119	284	41	765	163	12,918
2027	2,061	70	0	142	61	119	284	41	718	140	13,058
2028	1,771	61	0	122	120	119	284	(30)	676	121	13,179
2029	1,553	53	0	107	182	119	284	(102)	644	106	13,285
2030	1,370	47	0	94	174	119	284	(102)	617	93	13,378
2031	1,187	41	0	82	166	119	284	(102)	590	82	13,460
2032	1,005	34	0	69	158	119	284	(102)	564	72	13,531
2033	822	28	0	57	150	119	284	(102)	537	63	13,594
2034	639	22	0	44	142	119	284	(102)	510	55	13,649
2035	457	16	0	31	134	119	284	(102)	484	47	13,696
2036	274	9	0	19	127	119	284	(102)	457	41	13,737
2037	91	3	0	6	119	119	284	(102)	430	36	13,773

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IN SERVICE COS (\$000) 8,527  
 IN SERVICE YEAR 2008  
 BOOK LIFE (YRS) 30  
 EFFEC. TAX RATE 38.575  
 DISCOUNT RATE 8.98%  
 OTAX & INS RATE 1.40%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial Building

(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 DEFERRED \$(000)	ACCUMULATED BOOK DEPR FOR \$(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)
2008	3.75%	310	310	284	284	263	263	18	631	0	0	0	18	(125)
2009	7.22%	597	907	284	568	263	526	129	631	0	0	0	129	4
2010	6.68%	552	1,459	284	853	263	790	111	631	0	0	0	111	115
2011	6.18%	511	1,970	284	1,137	263	1,053	96	631	0	0	0	96	211
2012	5.71%	472	2,442	284	1,421	263	1,316	81	631	0	0	0	81	291
2013	5.29%	437	2,879	284	1,705	263	1,579	67	631	0	0	0	67	358
2014	4.89%	404	3,283	284	1,990	263	1,842	54	631	0	0	0	54	413
2015	4.52%	374	3,657	284	2,274	263	2,105	43	631	0	0	0	43	455
2016	4.46%	369	4,025	284	2,558	263	2,369	41	631	0	0	0	41	496
2017	4.46%	369	4,394	284	2,842	263	2,632	41	631	0	0	0	41	537
2018	4.46%	369	4,763	284	3,126	263	2,895	41	631	0	0	0	41	577
2019	4.46%	369	5,132	284	3,411	263	3,158	41	631	0	0	0	41	618
2020	4.46%	369	5,501	284	3,695	263	3,421	41	631	0	0	0	41	659
2021	4.46%	369	5,869	284	3,979	263	3,685	41	631	0	0	0	41	700
2022	4.46%	369	6,238	284	4,263	263	3,948	41	631	0	0	0	41	740
2023	4.46%	369	6,607	284	4,548	263	4,211	41	631	0	0	0	41	781
2024	4.46%	369	6,976	284	4,832	263	4,474	41	631	0	0	0	41	822
2025	4.46%	369	7,345	284	5,116	263	4,737	41	631	0	0	0	41	863
2026	4.46%	369	7,713	284	5,400	263	5,000	41	631	0	0	0	41	903
2027	4.46%	369	8,082	284	5,684	263	5,264	41	631	0	0	0	41	944
2028	2.23%	184	8,267	284	5,969	263	5,527	(30)	631	0	0	0	(30)	914
2029	0.00%	0	8,267	284	6,253	263	5,790	(102)	631	0	0	0	(102)	812
2030	0.00%	0	8,267	284	6,537	263	6,053	(102)	631	0	0	0	(102)	711
2031	0.00%	0	8,267	284	6,821	263	6,316	(102)	631	0	0	0	(102)	609
2032	0.00%	0	8,267	284	7,106	263	6,579	(102)	631	0	0	0	(102)	508
2033	0.00%	0	8,267	284	7,390	263	6,843	(102)	631	0	0	0	(102)	406
2034	0.00%	0	8,267	284	7,674	263	7,106	(102)	631	0	0	0	(102)	305
2035	0.00%	0	8,267	284	7,958	263	7,369	(102)	631	0	0	0	(102)	203
2036	0.00%	0	8,267	284	8,242	263	7,632	(102)	631	0	0	0	(102)	102
2037	0.00%	0	8,267	284	8,527	263	7,895	(102)	631	0	0	0	(102)	0

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SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(143)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	631
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial Building Envelope : 2005 - 2007 Installations

(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)
2008	3.75%	310	18	8,242	284	(125)	8,670	8,368	8,519
2009	7.22%	597	129	7,958	568	4	8,368	7,955	8,161
2010	6.68%	552	111	7,674	853	115	7,955	7,559	7,757
2011	6.18%	511	96	7,390	1,137	211	7,559	7,179	7,369
2012	5.71%	472	81	7,106	1,421	291	7,179	6,814	6,997
2013	5.29%	437	67	6,821	1,705	358	6,814	6,463	6,639
2014	4.89%	404	54	6,537	1,990	413	6,463	6,125	6,294
2015	4.52%	374	43	6,253	2,274	455	6,125	5,798	5,961
2016	4.46%	369	41	5,969	2,558	496	5,798	5,473	5,635
2017	4.46%	369	41	5,684	2,842	537	5,473	5,148	5,310
2018	4.46%	369	41	5,400	3,126	577	5,148	4,823	4,985
2019	4.46%	369	41	5,116	3,411	618	4,823	4,498	4,660
2020	4.46%	369	41	4,832	3,695	659	4,498	4,173	4,335
2021	4.46%	369	41	4,548	3,979	700	4,173	3,848	4,010
2022	4.46%	369	41	4,263	4,263	740	3,848	3,523	3,685
2023	4.46%	369	41	3,979	4,548	781	3,523	3,198	3,360
2024	4.46%	369	41	3,695	4,832	822	3,198	2,873	3,035
2025	4.46%	369	41	3,411	5,116	863	2,873	2,548	2,710
2026	4.46%	369	41	3,126	5,400	903	2,548	2,223	2,385
2027	4.46%	369	41	2,842	5,684	944	2,223	1,898	2,061
2028	2.23%	184	(30)	2,558	5,969	914	1,898	1,644	1,771
2029	0.00%	0	(102)	2,274	6,253	812	1,644	1,462	1,553
2030	0.00%	0	(102)	1,990	6,537	711	1,462	1,279	1,370
2031	0.00%	0	(102)	1,705	6,821	609	1,279	1,096	1,187
2032	0.00%	0	(102)	1,421	7,106	508	1,096	913	1,005
2033	0.00%	0	(102)	1,137	7,390	406	913	731	822
2034	0.00%	0	(102)	853	7,674	305	731	548	639
2035	0.00%	0	(102)	568	7,958	203	548	365	457
2036	0.00%	0	(102)	284	8,242	102	365	183	274
2037	0.00%	0	(102)	(0)	8,527	0	183	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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.07	0.07	(0.01)	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.29	0.36	(0.06)	(0.08)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	3.64	4.00	(0.77)	(0.85)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	15.37	19.37	(3.23)	(4.08)	238.86	333.73
2007	-1	490.63	16.92	25.72	50.93	36.75	56.12	(7.65)	(11.72)	364.72	698.45
			25.72		77.43	56.12		(11.72)		698.45	

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IN SERVICE YEAR 2008  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS	
	BOOK BASIS	TAX BASIS
CONSTRUCTION CASH	7,581	7,581
EQUITY AFUDC	631	
DEBT AFUDC	314	314
CPI		685
<b>TOTAL</b>	<b>8,527</b>	<b>8,266</b>

\* Column not specified in workbook



INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Commercial / Industrial Building Envelope : 2005 - 2007 Installations

(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
1998	0	0	2.00	2.51	2.03	0.00	1.00	1.00
1999	0	0	2.23	2.83	2.29	0.00	1.00	1.00
2000	0	0	2.45	3.18	2.52	0.00	1.00	1.00
2001	0	0	2.73	3.84	2.83	0.00	1.00	1.00
2002	0	0	2.61	3.25	2.69	0.00	1.00	1.00
2003	0	0	2.60	3.39	2.67	0.00	1.00	1.00
2004	0	0	2.78	3.67	2.86	0.00	1.00	1.00
2005	3,640	3,640	2.84	3.86	2.92	0.00	1.00	1.00
2006	7,249	7,249	2.91	3.95	3.00	0.00	1.00	1.00
2007	10,827	10,827	3.02	4.28	3.12	0.00	1.00	1.00
2008	10,827	10,827	3.07	4.26	3.17	3.49	1.00	1.00
2009	10,827	10,827	3.14	4.37	3.25	3.69	1.00	1.00
2010	10,827	10,827	3.14	4.55	3.25	3.64	1.00	1.00
2011	10,827	10,827	3.31	4.67	3.43	3.75	1.00	1.00
2012	10,827	10,827	3.38	4.80	3.50	3.81	1.00	1.00
2013	10,827	10,827	3.47	4.96	3.59	3.86	1.00	1.00
2014	10,827	10,827	3.55	5.14	3.67	3.92	1.00	1.00
2015	10,827	10,827	3.58	5.24	3.70	3.94	1.00	1.00
2016	10,827	10,827	3.62	5.36	3.74	3.98	1.00	1.00
2017	10,827	10,827	3.75	5.59	3.87	4.12	1.00	1.00
2018	10,827	10,827	3.93	5.90	4.07	4.33	1.00	1.00
2019	10,827	10,827	4.09	6.30	4.24	4.54	1.00	1.00
2020	10,827	10,827	4.23	6.53	4.39	4.76	1.00	1.00
2021	10,827	10,827	4.34	6.75	4.50	4.88	1.00	1.00
2022	10,827	10,827	4.45	6.99	4.62	5.00	1.00	1.00
2023	10,827	10,827	4.56	7.23	4.73	5.13	1.00	1.00
2024	10,827	10,827	4.67	7.48	4.85	5.27	1.00	1.00
2025	10,827	10,827	4.80	7.75	4.99	5.42	1.00	1.00
2026	10,827	10,827	4.94	8.05	5.13	5.59	1.00	1.00
2027	10,827	10,827	5.07	8.05	5.13	5.59	1.00	1.00

000222

\* 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 Building Envelope : 2005 - 2007 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	1,662	624	87	2,245	3,451	1,166
2009	1,609	649	86	2,194	3,507	1,030
2010	1,550	675	85	2,153	3,357	1,107
2011	1,494	702	90	2,239	3,553	972
2012	1,439	730	93	2,300	3,606	956
2013	1,387	759	96	2,418	3,685	976
2014	1,336	790	100	2,530	3,764	992
2015	1,288	821	102	2,576	3,785	1,002
2016	1,240	854	106	2,649	3,830	1,019
2017	1,193	888	109	2,720	3,961	948
2018	1,145	924	112	2,796	4,181	796
2019	1,098	961	116	2,882	4,399	658
2020	1,050	999	119	2,969	4,612	525
2021	1,003	1,039	123	3,047	4,724	488
2022	955	1,081	126	3,127	4,842	447
2023	908	1,124	130	3,203	4,968	397
2024	860	1,169	134	3,277	5,104	336
2025	813	1,215	137	3,354	5,254	266
2026	765	1,264	141	3,432	5,420	183
2027	718	1,315	146	3,511	5,420	269
NOM	23,514	18,581	2,237	55,623	85,422	14,532
NPV	5,528	3,513	435	10,887	16,714	3,649

000223

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial Building Envelope : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	90	0
2006	59	15	75	39	67	105	276	0
2007	117	32	149	76	138	214	500	0
2008	174	49	223	113	215	327	593	0
2009	167	51	219	109	223	332	608	0
2010	161	54	214	105	232	337	640	0
2011	155	56	210	101	241	342	653	0
2012	149	58	207	97	251	348	672	0
2013	143	60	203	93	261	354	696	0
2014	138	63	200	89	271	361	724	0
2015	132	65	197	86	282	368	739	0
2016	127	68	195	83	294	376	757	0
2017	122	70	192	79	305	384	792	0
2018	116	73	190	76	318	393	837	0
2019	111	76	187	72	330	403	897	0
2020	106	79	185	69	343	412	931	0
2021	101	82	183	65	357	423	965	0
2022	95	86	181	62	372	433	1,000	0
2023	90	89	179	58	386	445	1,037	0
2024	85	93	177	55	402	457	1,075	0
2025	79	96	176	52	418	469	1,116	0
2026	74	100	175	48	435	483	1,160	0
2027	70	104	174	45	452	497	1,153	0
NOM.	2,572	1,521	4,092	1,671	6,593	8,265	17,910	0
NPV	652	301	953	424	1,305	1,729	3,655	0

000224

\* 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 Building Envelope : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	328	3,474	0	3,802	0	0	90	0	90	(3,713)	(2,034)
2006	0	334	3,538	0	3,872	0	180	276	0	456	(3,417)	(3,752)
2007	0	340	3,603	0	3,943	0	364	500	0	864	(3,080)	(5,173)
2008	0	0	0	0	0	1,166	551	593	0	2,310	2,310	(4,195)
2009	0	0	0	0	0	1,030	551	608	0	2,189	2,189	(3,344)
2010	0	0	0	0	0	1,107	551	640	0	2,298	2,298	(2,525)
2011	0	0	0	0	0	972	552	653	0	2,177	2,177	(1,813)
2012	0	0	0	0	0	956	554	672	0	2,182	2,182	(1,158)
2013	0	0	0	0	0	976	557	696	0	2,229	2,229	(544)
2014	0	0	0	0	0	992	561	724	0	2,277	2,277	32
2015	0	32	355	0	387	1,002	566	739	0	2,306	1,919	477
2016	0	32	355	0	387	1,019	571	757	0	2,347	1,960	894
2017	0	32	354	0	386	948	577	792	0	2,316	1,930	1,271
2018	0	0	0	0	0	796	583	837	0	2,216	2,216	1,668
2019	0	0	0	0	0	658	590	897	0	2,145	2,145	2,021
2020	0	27	331	0	359	525	597	931	0	2,054	1,695	2,277
2021	0	28	341	0	369	488	606	965	0	2,058	1,690	2,511
2022	0	29	350	0	379	447	614	1,000	0	2,062	1,683	2,725
2023	0	0	0	0	0	397	624	1,037	0	2,057	2,057	2,965
2024	0	0	0	0	0	336	634	1,075	0	2,045	2,045	3,183
2025	0	545	5,725	0	6,270	266	645	1,116	0	2,026	(4,243)	2,767
2026	0	556	5,838	0	6,394	183	657	1,160	0	2,000	(4,393)	2,371
2027	0	567	5,954	0	6,521	269	672	1,153	0	2,094	(4,427)	2,005
NOM	0	2,851	30,218	0	33,069	14,532	12,357	17,910	0	44,799	11,730	
NPV	0	687	7,294	0	7,981	3,649	2,682	3,655	0	9,986	2,005	

000225

Discount Rate: 8.98 %  
Benefit/Cost Ratio (Col(11) / Col(6)) : 1.25

PARTICIPANT COSTS AND BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial Building Envelope : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	239	0	1,106	0	1,346	3,474	0	0	3,474	(2,129)	(1,166)
2006	704	0	1,098	0	1,802	3,538	0	0	3,538	(1,736)	(2,039)
2007	1,171	0	1,089	0	2,261	3,603	0	0	3,603	(1,342)	(2,658)
2008	1,404	0	0	0	1,404	0	0	0	0	1,404	(2,064)
2009	1,403	0	0	0	1,403	0	0	0	0	1,403	(1,519)
2010	1,422	0	0	0	1,422	0	0	0	0	1,422	(1,012)
2011	1,414	0	0	0	1,414	0	0	0	0	1,414	(550)
2012	1,424	0	0	0	1,424	0	0	0	0	1,424	(122)
2013	1,430	0	0	0	1,430	0	0	0	0	1,430	272
2014	1,445	0	0	0	1,445	0	0	0	0	1,445	637
2015	1,451	0	41	0	1,492	355	0	0	355	1,137	900
2016	1,457	0	39	0	1,497	355	0	0	355	1,142	1,143
2017	1,459	0	38	0	1,497	354	0	0	354	1,143	1,367
2018	1,467	0	0	0	1,467	0	0	0	0	1,467	1,630
2019	1,474	0	0	0	1,474	0	0	0	0	1,474	1,872
2020	1,482	0	52	0	1,533	331	0	0	331	1,202	2,053
2021	1,490	0	52	0	1,542	341	0	0	341	1,201	2,220
2022	1,497	0	52	0	1,549	350	0	0	350	1,199	2,372
2023	1,505	0	0	0	1,505	0	0	0	0	1,505	2,548
2024	1,514	0	0	0	1,514	0	0	0	0	1,514	2,710
2025	1,522	0	1,054	0	2,577	5,725	0	0	5,725	(3,148)	2,401
2026	1,531	0	1,046	0	2,577	5,838	0	0	5,838	(3,261)	2,107
2027	1,540	0	1,038	0	2,578	5,954	0	0	5,954	(3,376)	1,828
NOM	31,445	0	6,705	0	38,150	30,218	0	0	30,218	7,932	
NPV	7,130	0	1,991	0	9,121	7,294	0	0	7,294	1,828	

000226

In Service of Gen Unit: 2008  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) 1.25

RATE IMPACT TEST  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Commercial / Industrial Building Envelope : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	0	0	0	
2005	0	328	1,106	205	0	1,639	90	0	0	90	(1,550)	(849)	
2006	0	334	1,098	602	0	2,033	276	180	0	456	(1,578)	(1,642)	
2007	0	340	1,089	999	0	2,429	500	364	0	864	(1,565)	(2,364)	
2008	0	0	0	1,197	0	1,197	1,759	551	0	2,310	1,113	(1,893)	
2009	0	0	0	1,195	0	1,195	1,639	551	0	2,189	994	(1,507)	
2010	0	0	0	1,204	0	1,204	1,747	551	0	2,298	1,094	(1,117)	
2011	0	0	0	1,194	0	1,194	1,625	552	0	2,177	983	(796)	
2012	0	0	0	1,202	0	1,202	1,628	554	0	2,182	980	(502)	
2013	0	0	0	1,205	0	1,205	1,672	557	0	2,229	1,024	(219)	
2014	0	0	0	1,216	0	1,216	1,716	561	0	2,277	1,061	49	
2015	0	32	41	1,220	0	1,293	1,741	566	0	2,306	1,014	284	
2016	0	32	39	1,223	0	1,294	1,776	571	0	2,347	1,053	508	
2017	0	32	38	1,224	0	1,295	1,740	577	0	2,316	1,021	707	
2018	0	0	0	1,229	0	1,229	1,633	583	0	2,216	987	884	
2019	0	0	0	1,234	0	1,234	1,556	590	0	2,145	912	1,034	
2020	0	27	52	1,239	0	1,318	1,456	597	0	2,054	736	1,145	
2021	0	28	52	1,244	0	1,324	1,453	606	0	2,058	734	1,247	
2022	0	29	52	1,249	0	1,329	1,447	614	0	2,062	732	1,340	
2023	0	0	0	1,254	0	1,254	1,433	624	0	2,057	803	1,434	
2024	0	0	0	1,260	0	1,260	1,410	634	0	2,045	785	1,518	
2025	0	545	1,054	1,265	0	2,865	1,381	645	0	2,026	(838)	1,435	
2026	0	556	1,046	1,271	0	2,873	1,343	657	0	2,000	(873)	1,357	
2027	0	567	1,038	1,277	0	2,882	1,422	672	0	2,094	(788)	1,292	
NOM.	0	2,851	6,705	26,410	0	35,966	32,443	12,357	0	44,799	8,833		
NPV	0	687	1,991	6,016	0	8,695	7,304	2,682	0	9,986	1,292		

000227

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.15

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I BUILDING ENVELOPE (2005 - 2007)

	MEASURES					
	SCD-18	SCD-19	SCD-22	SCD-23	SCD-26	SCD-27
<b>III. UTILITY &amp; CUSTOMER COSTS - \$ PER CUSTOMER)</b>						
RATE CLASS: GS						
(1) UTILITY NON RECURRING COST PER CUSTOMER		\$ 75.00		\$ 75.00		\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER		\$ -		\$ -		\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)		\$ 625.03		\$ 879.73		\$ 1,385.00
(6) CUSTOMER O&M COST		\$ -		\$ -		\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE		\$ 417.50		\$ 295.00		\$ 305.00
(13) UTILITY RECURRING REBATE/INCENTIVE		\$ -		\$ -		\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE		0%		0%		0%
RATE CLASS: GSD						
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 971.18	\$ 895.48	\$ 839.00	\$ 807.00	\$ 830.00	\$ 810.00
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 270.68	\$ 247.00	\$ 80.28	\$ 80.00	\$ 200.00	\$ 200.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%	0%

**III. (3,5,7,9) ESCALATION RATES**

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

000228

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: C/I BUILDING ENVELOPE (2005 - 2007)

RATE CLASS: GSLD	MEASURES					
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 855.73	\$ 629.29	\$ 780.00	\$ 779.50	\$ 860.00	\$ 810.00
(6) CUSTOMER O&M COST	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 393.00	\$ 359.00	\$ 190.00	\$ 189.66	\$ 345.00	\$ 300.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000229



000230

**BUSINESS CUSTOM INCENTIVE  
(C/I OFF PEAK BATTERY CHARGING)**

NPV END 1998 (\$000)

<u>YEARS</u>	<u>RATE IMPACT TEST</u>			<u>PARTICIPANT TEST</u>			<u>TOTAL RESOURCE COST TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 668	\$ 343	1.95	\$ 301	\$ 180	1.67	\$ 668	\$ 223	3.00

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Off-Peak Battery Charging: 2001-2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.86 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.11 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	348.5 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	324.0 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.61524
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.17 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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.

000231

\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Off-Peak Battery Charging: 2001-2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	9	18	0	27	0	3	33	0	33	
2002	10	22	0	32	0	8	40	1	41	
2003	9	18	0	27	0	14	34	1	35	
2004	11	22	0	33	0	19	42	1	44	
2005	0	0	0	0	0	22	0	2	2	
2006	0	0	0	0	0	22	0	2	2	
2007	0	0	0	0	0	22	0	2	2	
2008	0	0	0	0	0	22	0	2	2	
2009	0	0	0	0	0	22	0	2	2	
2010	0	0	0	0	0	21	0	2	2	
2011	0	0	0	0	0	21	0	2	2	
2012	0	0	0	0	0	21	0	2	2	
2013	0	0	0	0	0	20	0	2	2	
2014	0	0	0	0	0	20	0	2	2	
2015	0	0	0	0	0	20	0	2	2	
2016	0	0	0	0	0	20	0	2	2	
2017	0	0	0	0	0	20	0	2	2	
2018	0	0	0	0	0	20	0	2	2	
2019	0	0	0	0	0	20	0	2	2	
2020	0	0	0	0	0	20	0	2	2	
2021	0	0	0	0	0	20	0	2	2	
2022	0	0	0	0	0	20	0	2	2	
2023	0	0	0	0	0	19	0	3	3	
2024	0	0	0	0	0	19	0	3	3	

000232

NDM	39	79	0	118	0	456	150	44	0	193
NPV	26	54	0	80	0	143	101	12	0	113

\* 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: Off-Peak Battery Charging: 2001-2004 Installations

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2005	400	14	0	27	17	6	13	1	78	78	78
2006	383	13	0	26	11	6	13	6	76	69	147
2007	364	12	0	25	11	6	13	5	73	61	208
2008	346	12	0	24	11	6	13	4	70	54	263
2009	328	11	0	23	11	6	13	4	68	48	311
2010	311	11	0	21	11	6	13	3	65	42	353
2011	295	10	0	20	11	6	13	3	63	37	390
2012	280	10	0	19	11	6	13	2	60	33	423
2013	264	9	0	18	10	6	13	2	58	29	453
2014	249	9	0	17	9	6	13	2	56	26	478
2015	234	8	0	16	9	6	13	2	54	23	501
2016	219	7	0	15	8	6	13	2	52	20	521
2017	203	7	0	14	7	6	13	2	49	18	539
2018	188	6	0	13	7	6	13	2	47	15	554
2019	173	6	0	12	6	6	13	2	45	13	568
2020	158	5	0	11	6	6	13	2	43	12	579
2021	142	5	0	10	5	6	13	2	40	10	590
2022	127	4	0	9	4	6	13	2	38	9	598
2023	112	4	0	8	4	6	13	2	36	8	606
2024	97	3	0	7	3	6	13	2	34	7	613
2025	83	3	0	6	6	6	13	(1)	32	6	618
2026	73	2	0	5	9	6	13	(5)	30	5	623
2027	64	2	0	4	8	6	13	(5)	29	4	628
2028	56	2	0	4	8	6	13	(5)	28	4	632
2029	47	2	0	3	7	6	13	(5)	26	3	635
2030	39	1	0	3	7	6	13	(5)	25	3	638
2031	30	1	0	2	7	6	13	(5)	24	3	640
2032	21	1	0	1	6	6	13	(5)	23	2	643
2033	13	0	0	1	6	6	13	(5)	21	2	645
2034	4	0	0	0	6	6	13	(5)	20	2	646

000233

IN SERVICE COS (\$000) 400  
 IN SERVICE YEAR 2005  
 BOOK LIFE (YRS) 30  
 EFFEC. TAX RATE 38.575  
 DISCOUNT RATE 8.98%  
 OTAX & INS RATE 1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Off-Peak Battery Charging: 200'

(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 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)
2005	3.75%	15	15	13	13	12	12	1	30	0	0	0	1	(6)
2006	7.22%	28	43	13	27	12	25	6	30	0	0	0	6	0
2007	6.68%	26	68	13	40	12	37	5	30	0	0	0	5	5
2008	6.18%	24	92	13	53	12	49	4	30	0	0	0	4	10
2009	5.71%	22	115	13	67	12	62	4	30	0	0	0	4	14
2010	5.29%	20	135	13	80	12	74	3	30	0	0	0	3	17
2011	4.89%	19	154	13	93	12	86	3	30	0	0	0	3	19
2012	4.52%	18	172	13	107	12	99	2	30	0	0	0	2	21
2013	4.46%	17	189	13	120	12	111	2	30	0	0	0	2	23
2014	4.46%	17	206	13	133	12	123	2	30	0	0	0	2	25
2015	4.46%	17	223	13	147	12	136	2	30	0	0	0	2	27
2016	4.46%	17	241	13	160	12	148	2	30	0	0	0	2	29
2017	4.46%	17	258	13	173	12	161	2	30	0	0	0	2	31
2018	4.46%	17	275	13	187	12	173	2	30	0	0	0	2	33
2019	4.46%	17	293	13	200	12	185	2	30	0	0	0	2	35
2020	4.46%	17	310	13	213	12	198	2	30	0	0	0	2	37
2021	4.46%	17	327	13	227	12	210	2	30	0	0	0	2	39
2022	4.46%	17	345	13	240	12	222	2	30	0	0	0	2	40
2023	4.46%	17	362	13	253	12	235	2	30	0	0	0	2	42
2024	4.46%	17	379	13	267	12	247	2	30	0	0	0	2	44
2025	2.23%	9	388	13	280	12	259	(1)	30	0	0	0	(1)	43
2026	0.00%	0	388	13	293	12	272	(5)	30	0	0	0	(5)	38
2027	0.00%	0	388	13	307	12	284	(5)	30	0	0	0	(5)	33
2028	0.00%	0	388	13	320	12	296	(5)	30	0	0	0	(5)	29
2029	0.00%	0	388	13	333	12	309	(5)	30	0	0	0	(5)	24
2030	0.00%	0	388	13	347	12	321	(5)	30	0	0	0	(5)	19
2031	0.00%	0	388	13	360	12	333	(5)	30	0	0	0	(5)	14
2032	0.00%	0	388	13	373	12	346	(5)	30	0	0	0	(5)	10
2033	0.00%	0	388	13	387	12	358	(5)	30	0	0	0	(5)	5
2034	0.00%	0	388	13	400	12	370	(5)	30	0	0	0	(5)	0

000234

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)	30
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Off-Peak Battery Charging: 2001-2004 Installations

(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)
2005	3.75%	15	1	387	13	(6)	407	393	400
2006	7.22%	28	6	373	27	0	393	373	383
2007	6.68%	26	5	360	40	5	373	355	364
2008	6.18%	24	4	347	53	10	355	337	346
2009	5.71%	22	4	333	67	14	337	320	328
2010	5.29%	20	3	320	80	17	320	303	311
2011	4.89%	19	3	307	93	19	303	287	295
2012	4.52%	18	2	293	107	21	287	272	280
2013	4.46%	17	2	280	120	23	272	257	264
2014	4.46%	17	2	267	133	25	257	242	249
2015	4.46%	17	2	253	147	27	242	226	234
2016	4.46%	17	2	240	160	29	226	211	219
2017	4.46%	17	2	227	173	31	211	196	203
2018	4.46%	17	2	213	187	33	196	181	188
2019	4.46%	17	2	200	200	35	181	165	173
2020	4.46%	17	2	187	213	37	165	150	158
2021	4.46%	17	2	173	227	39	150	135	142
2022	4.46%	17	2	160	240	40	135	120	127
2023	4.46%	17	2	147	253	42	120	104	112
2024	4.46%	17	2	133	267	44	104	89	97
2025	2.23%	9	(1)	120	280	43	89	77	83
2026	0.00%	0	(5)	107	293	38	77	69	73
2027	0.00%	0	(5)	93	307	33	69	60	64
2028	0.00%	0	(5)	80	320	29	60	51	56
2029	0.00%	0	(5)	67	333	24	51	43	47
2030	0.00%	0	(5)	53	347	19	43	34	39
2031	0.00%	0	(5)	40	360	14	34	26	30
2032	0.00%	0	(5)	27	373	10	26	17	21
2033	0.00%	0	(5)	13	387	5	17	9	13
2034	0.00%	0	(5)	(0)	400	0	9	0	4

\* Column not specified in workbook

000235

(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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.061	0.65%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00% 582.24

(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) YEAR-END BOOK VALUE (\$/kW)	(11) YEAR-END CUMULATIVE BOOK VALUE (\$/kW)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	24.80	14.39	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	72.53	34.44	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

IN SERVICE YEAR 2005  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS	BOOK BASIS	BOOK BASIS
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	356	356	356
EQUITY AFUDC	30		
DEBT AFUDC	15	15	
CPI			32
<b>TOTAL</b>	<b>400</b>	<b>370</b>	<b>388</b>

\* Column not specified in workbook

000236

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Off-Peak Battery Charging: 2001-2004 Installations

(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
1998	0	0	2.00	2.96	2.01	0.00	1.00	1.00
1999	0	0	2.23	3.26	2.25	0.00	1.00	1.00
2000	0	0	2.45	3.73	2.47	0.00	1.00	1.00
2001	125	125	2.73	4.55	2.76	0.00	1.00	1.00
2002	275	275	2.61	3.40	2.63	0.00	1.00	1.00
2003	400	400	2.60	3.57	2.62	0.00	1.00	1.00
2004	550	550	2.78	3.94	2.80	0.00	1.00	1.00
2005	550	550	2.93	4.51	2.96	3.25	1.00	1.00
2006	550	550	3.01	4.53	3.04	3.34	1.00	1.00
2007	550	550	3.13	5.18	3.16	3.49	1.00	1.00
2008	550	550	3.07	4.58	3.10	3.45	1.00	1.00
2009	550	550	3.15	4.67	3.18	3.60	1.00	1.00
2010	550	550	3.14	4.93	3.17	3.57	1.00	1.00
2011	550	550	3.32	5.07	3.35	3.71	1.00	1.00
2012	550	550	3.38	5.15	3.41	3.77	1.00	1.00
2013	550	550	3.47	5.29	3.51	3.84	1.00	1.00
2014	550	550	3.55	5.44	3.58	3.92	1.00	1.00
2015	550	550	3.58	5.48	3.62	3.95	1.00	1.00
2016	550	550	3.62	5.57	3.66	4.00	1.00	1.00
2017	550	550	3.75	6.02	3.78	4.13	1.00	1.00
2018	550	550	3.93	6.69	3.97	4.35	1.00	1.00
2019	550	550	4.09	7.48	4.13	4.55	1.00	1.00
2020	550	550	4.23	7.84	4.28	4.79	1.00	1.00
2021	550	550	4.32	8.05	4.36	4.88	1.00	1.00
2022	550	550	4.41	8.35	4.46	4.97	1.00	1.00
2023	550	550	4.53	8.70	4.58	5.10	1.00	1.00
2024	550	550	4.64	9.09	4.69	5.23	1.00	1.00

000237

\* 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: Off-Peak Battery Charging: 2001-2004 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	78	28	4	105	158	57
2006	76	29	4	111	167	52
2007	73	30	4	114	177	44
2008	70	31	4	115	175	46
2009	68	33	5	115	180	40
2010	65	34	4	112	172	44
2011	63	35	5	114	179	37
2012	60	37	5	117	182	37
2013	58	38	5	121	184	39
2014	56	40	5	124	186	39
2015	54	41	5	127	187	40
2016	52	43	5	129	187	41
2017	49	45	5	133	194	38
2018	47	47	5	137	205	31
2019	45	48	6	141	217	24
2020	43	50	6	146	228	16
2021	40	52	6	149	233	15
2022	38	54	6	152	237	14
2023	36	57	6	172	243	28
2024	34	59	7	172	249	22

000238

NOM	1,103	833	103	2,605	3,941	704
NPV	336	204	26	667	1,014	219

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Off-Peak Battery Charging: 2001-2004 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	1	1
2002	2	0	2	1	2	3	3	2
2003	4	1	5	3	4	7	5	3
2004	6	2	7	4	7	10	7	5
2005	8	2	10	5	10	15	10	6
2006	8	2	10	5	10	15	10	6
2007	7	2	10	5	10	15	11	6
2008	7	2	10	5	11	15	10	6
2009	7	3	9	4	11	16	10	6
2010	7	3	9	4	12	16	11	6
2011	6	3	9	4	12	16	11	6
2012	6	3	9	4	13	17	11	6
2013	6	3	9	4	13	17	11	7
2014	6	3	9	4	14	17	12	7
2015	5	3	9	3	14	18	12	7
2016	5	3	9	3	15	18	12	7
2017	5	4	8	3	15	18	13	7
2018	5	4	8	3	16	19	15	8
2019	4	4	8	3	17	19	17	8
2020	4	4	8	3	17	20	17	8
2021	4	4	8	3	18	20	18	8
2022	4	4	8	2	19	21	19	8
2023	3	4	8	2	19	22	19	9
2024	3	5	8	2	20	22	20	9

000239

NOM.	122	69	191	79	297	377	284	150
NPV	41	18	59	27	78	105	75	42

\* 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 Off-Peak Battery Charging: 2001-2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	9	33	0	41	0	0	1	0	1	(41)	(32)
2002	0	10	41	0	51	0	5	1	0	6	(45)	(63)
2003	0	9	35	0	44	0	12	2	0	14	(31)	(83)
2004	0	11	44	0	55	0	18	3	0	21	(34)	(104)
2005	0	0	2	0	2	57	25	4	0	86	85	(57)
2006	0	0	2	0	2	52	25	4	0	81	79	(17)
2007	0	0	2	0	2	44	25	5	0	74	73	16
2008	0	0	2	0	2	46	25	4	0	75	73	47
2009	0	0	2	0	2	40	25	4	0	69	67	73
2010	0	0	2	0	2	44	25	5	0	73	72	99
2011	0	0	2	0	2	37	25	5	0	67	65	120
2012	0	0	2	0	2	37	26	5	0	67	65	140
2013	0	0	2	0	2	39	26	5	0	69	67	158
2014	0	0	2	0	2	39	26	5	0	70	68	176
2015	0	0	2	0	2	40	26	5	0	71	69	192
2016	0	0	2	0	2	41	27	5	0	73	71	207
2017	0	0	2	0	2	38	27	6	0	70	68	220
2018	0	0	2	0	2	31	27	7	0	65	63	231
2019	0	0	2	0	2	24	28	9	0	60	58	241
2020	0	0	2	0	2	16	28	9	0	53	51	248
2021	0	0	2	0	2	15	28	10	0	53	51	255
2022	0	0	2	0	2	14	29	10	0	53	51	262
2023	0	0	3	0	3	28	29	11	0	68	66	269
2024	0	0	3	0	3	22	30	12	0	64	61	276

000240

NOM	0	39	193	0	232	704	567	133	0	1,404	1,172
NPV	0	26	113	0	140	219	164	33	0	416	276

Discount Rate: 8.98 %  
Benefit/Cost Ratio (Col(11) / Col(6)) : 2.97

PARTICIPANT COSTS AND BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Off-Peak Battery Charging: 2001-2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	18	0	21	33	0	0	33	(12)	(9)
2002	8	0	22	0	30	40	1	0	41	(11)	(17)
2003	14	0	18	0	32	34	1	0	35	(3)	(19)
2004	19	0	22	0	41	42	1	0	44	(3)	(21)
2005	22	0	0	0	22	0	2	0	2	21	(9)
2006	22	0	0	0	22	0	2	0	2	20	1
2007	22	0	0	0	22	0	2	0	2	20	10
2008	22	0	0	0	22	0	2	0	2	20	19
2009	22	0	0	0	22	0	2	0	2	20	27
2010	21	0	0	0	21	0	2	0	2	19	34
2011	21	0	0	0	21	0	2	0	2	19	40
2012	21	0	0	0	21	0	2	0	2	19	45
2013	20	0	0	0	20	0	2	0	2	18	50
2014	20	0	0	0	20	0	2	0	2	18	55
2015	20	0	0	0	20	0	2	0	2	18	59
2016	20	0	0	0	20	0	2	0	2	18	63
2017	20	0	0	0	20	0	2	0	2	18	67
2018	20	0	0	0	20	0	2	0	2	18	70
2019	20	0	0	0	20	0	2	0	2	18	73
2020	20	0	0	0	20	0	2	0	2	17	75
2021	20	0	0	0	20	0	2	0	2	17	78
2022	20	0	0	0	20	0	2	0	2	17	80
2023	19	0	0	0	19	0	3	0	3	17	82
2024	19	0	0	0	19	0	3	0	3	17	84

000241

NOM	456	0	79	0	535	150	44	0	193	342
NPV	143	0	54	0	197	101	12	0	113	84

In Service of Gen Unit: 2005  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) 1.74

RATE IMPACT TEST  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Off-Peak Battery Charging: 2001-2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	9	18	3	0	29	1	0	0	0	1	(29)	(22)
2002	0	10	22	8	0	40	1	5	0	0	6	(34)	(46)
2003	0	9	18	14	0	41	2	12	0	0	14	(27)	(64)
2004	0	11	22	19	0	52	3	18	0	0	21	(32)	(83)
2005	0	0	0	22	0	22	61	25	0	0	86	64	(48)
2006	0	0	0	22	0	22	56	25	0	0	81	59	(18)
2007	0	0	0	22	0	22	49	25	0	0	74	52	6
2008	0	0	0	22	0	22	50	25	0	0	75	53	28
2009	0	0	0	22	0	22	44	25	0	0	69	47	47
2010	0	0	0	21	0	21	48	25	0	0	73	52	65
2011	0	0	0	21	0	21	42	25	0	0	67	47	81
2012	0	0	0	21	0	21	42	26	0	0	67	47	95
2013	0	0	0	20	0	20	43	26	0	0	69	49	108
2014	0	0	0	20	0	20	44	26	0	0	70	50	121
2015	0	0	0	20	0	20	45	26	0	0	71	51	132
2016	0	0	0	20	0	20	46	27	0	0	73	53	143
2017	0	0	0	20	0	20	44	27	0	0	70	50	153
2018	0	0	0	20	0	20	38	27	0	0	65	45	161
2019	0	0	0	20	0	20	32	28	0	0	60	40	168
2020	0	0	0	20	0	20	25	28	0	0	53	34	173
2021	0	0	0	20	0	20	25	28	0	0	53	33	178
2022	0	0	0	20	0	20	24	29	0	0	53	34	182
2023	0	0	0	19	0	19	39	29	0	0	68	49	188
2024	0	0	0	19	0	19	34	30	0	0	64	44	192

000242

NOM	0	39	79	456	0	574	837	567	0	0	1,404	830
NPV	0	26	54	143	0	224	252	164	0	0	416	192

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.86

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: OFF PEAK BATTERY CHARGING (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

OPBC

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: GS

- (1) UTILITY NON RECURRING COST PER CUSTOMER
- (2) UTILITY RECURRING COST PER CUSTOMER
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)
- (6) CUSTOMER O&M COST
- (12) UTILITY NON RECURRING REBATE/INCENTIVE
- (13) UTILITY RECURRING REBATE/INCENTIVE
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE

RATE CLASS: GSD

- (1) UTILITY NON RECURRING COST PER CUSTOMER      \$ 63.00
- (2) UTILITY RECURRING COST PER CUSTOMER            \$ -
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)        \$ 241.28
- (6) CUSTOMER O&M COST                                    \$ 2.33
- (12) UTILITY NON RECURRING REBATE/INCENTIVE       \$ 144.00
- (13) UTILITY RECURRING REBATE/INCENTIVE            \$ -
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE      0%

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

000243

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: OFF PEAK BATTERY CHARGING (2001 - 2004)

RATE CLASS: GSLD	MEASURES		
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$		63.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$		-
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$		241.28
(6) CUSTOMER O&M COST	\$		2.33
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$		144.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$		-
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE			0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (¢/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000244

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Off-Peak Battery Charging : 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER .....	0.86 kW
(2) GENERATOR KW REDUCTION PER CUSTOMER .....	1.11 kW
(3) KW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	348.5 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER.....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	324.0 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.61528
(5) K FACTOR FOR T & D.....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE.....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2008
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	50 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.27 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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.

000245



\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Off-Peak Battery Charging : 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	9	18	0	27	0	3	36	0	36	
2006	12	22	0	33	0	8	45	1	45	
2007	10	18	0	28	0	14	38	1	39	
2008	0	0	0	0	0	16	0	1	1	
2009	0	0	0	0	0	16	0	1	1	
2010	0	0	0	0	0	15	0	1	1	
2011	0	0	0	0	0	15	0	1	1	
2012	0	0	0	0	0	15	0	1	1	
2013	0	0	0	0	0	15	0	1	1	
2014	0	0	0	0	0	15	0	1	1	
2015	0	0	0	0	0	15	0	1	1	
2016	0	0	0	0	0	15	0	2	2	
2017	0	0	0	0	0	15	0	2	2	
2018	0	0	0	0	0	15	0	2	2	
2019	0	0	0	0	0	14	0	2	2	
2020	0	0	0	0	0	14	0	2	2	
2021	0	0	0	0	0	14	0	2	2	
2022	0	0	0	0	0	14	0	2	2	
2023	0	0	0	0	0	14	0	2	2	
2024	0	0	0	0	0	14	0	2	2	
2025	0	0	0	0	0	14	0	2	2	
2026	0	0	0	0	0	14	0	2	2	
2027	0	0	0	0	0	14	0	2	2	
NOM	31	58	0	89	0	317	119	34	0	153
NPV	16	29	0	45	0	75	60	7	0	67

000246

\* 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: Off-Peak Battery Charging : 2005 - 2007 Installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2008	310	11	0	21	13	4	10	1	60	60	60
2009	297	10	0	20	9	4	10	5	59	54	114
2010	282	10	0	19	9	4	10	4	56	48	162
2011	268	9	0	18	9	4	10	3	54	42	204
2012	255	9	0	18	9	4	10	3	52	37	241
2013	242	8	0	17	8	4	10	2	50	33	274
2014	229	8	0	16	8	4	10	2	49	29	303
2015	217	7	0	15	8	4	10	2	47	26	328
2016	205	7	0	14	8	4	10	1	45	23	351
2017	193	7	0	13	7	4	10	1	43	20	371
2018	181	6	0	12	7	4	10	1	42	18	389
2019	170	6	0	12	6	4	10	1	40	16	404
2020	158	5	0	11	6	4	10	1	38	14	418
2021	146	5	0	10	5	4	10	1	37	12	430
2022	134	5	0	9	5	4	10	1	35	10	440
2023	122	4	0	8	4	4	10	1	33	9	449
2024	110	4	0	8	4	4	10	1	31	8	457
2025	99	3	0	7	3	4	10	1	30	7	464
2026	87	3	0	6	3	4	10	1	28	6	470
2027	75	3	0	5	2	4	10	1	26	5	475
2028	64	2	0	4	4	4	10	(1)	25	4	480
2029	57	2	0	4	7	4	10	(4)	23	4	484
2030	50	2	0	3	6	4	10	(4)	22	3	487
2031	43	1	0	3	6	4	10	(4)	21	3	490
2032	37	1	0	3	6	4	10	(4)	21	3	493
2033	30	1	0	2	5	4	10	(4)	20	2	495
2034	23	1	0	2	5	4	10	(4)	19	2	497
2035	17	1	0	1	5	4	10	(4)	18	2	499
2036	10	0	0	1	5	4	10	(4)	17	1	500
2037	3	0	0	0	4	4	10	(4)	16	1	501

000247

IN SERVICE COS (\$000)	310
IN SERVICE YEAR	2008
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Off-Peak Battery Charging : 200

(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)
2008	3.75%	11	11	10	10	10	10	1	23	0	0	0	1	(5)
2009	7.22%	22	33	10	21	10	19	5	23	0	0	0	5	0
2010	6.68%	20	53	10	31	10	29	4	23	0	0	0	4	4
2011	6.18%	19	72	10	41	10	38	3	23	0	0	0	3	8
2012	5.71%	17	89	10	52	10	48	3	23	0	0	0	3	11
2013	5.29%	16	105	10	62	10	57	2	23	0	0	0	2	13
2014	4.89%	15	119	10	72	10	67	2	23	0	0	0	2	15
2015	4.52%	14	133	10	83	10	77	2	23	0	0	0	2	17
2016	4.46%	13	147	10	93	10	86	1	23	0	0	0	1	18
2017	4.46%	13	160	10	103	10	96	1	23	0	0	0	1	20
2018	4.46%	13	173	10	114	10	105	1	23	0	0	0	1	21
2019	4.46%	13	187	10	124	10	115	1	23	0	0	0	1	23
2020	4.46%	13	200	10	134	10	125	1	23	0	0	0	1	24
2021	4.46%	13	214	10	145	10	134	1	23	0	0	0	1	25
2022	4.46%	13	227	10	155	10	144	1	23	0	0	0	1	27
2023	4.46%	13	240	10	166	10	153	1	23	0	0	0	1	28
2024	4.46%	13	254	10	176	10	163	1	23	0	0	0	1	30
2025	4.46%	13	267	10	186	10	172	1	23	0	0	0	1	31
2026	4.46%	13	281	10	197	10	182	1	23	0	0	0	1	33
2027	4.46%	13	294	10	207	10	192	1	23	0	0	0	1	34
2028	2.23%	7	301	10	217	10	201	(1)	23	0	0	0	(1)	33
2029	0.00%	0	301	10	228	10	211	(4)	23	0	0	0	(4)	30
2030	0.00%	0	301	10	238	10	220	(4)	23	0	0	0	(4)	26
2031	0.00%	0	301	10	248	10	230	(4)	23	0	0	0	(4)	22
2032	0.00%	0	301	10	259	10	239	(4)	23	0	0	0	(4)	18
2033	0.00%	0	301	10	269	10	249	(4)	23	0	0	0	(4)	15
2034	0.00%	0	301	10	279	10	259	(4)	23	0	0	0	(4)	11
2035	0.00%	0	301	10	290	10	268	(4)	23	0	0	0	(4)	7
2036	0.00%	0	301	10	300	10	278	(4)	23	0	0	0	(4)	4
2037	0.00%	0	301	10	310	10	287	(4)	23	0	0	0	(4)	0

000248

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(5)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	23
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Off-Peak Battery Charging : 2005 - 2007 Installations

000249

(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 YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2008	3.75%	11	1	300	10	(5)	316	305	310
2009	7.22%	22	5	290	21	0	305	290	297
2010	6.68%	20	4	279	31	4	290	275	282
2011	6.18%	19	3	269	41	8	275	261	268
2012	5.71%	17	3	259	52	11	261	248	255
2013	5.29%	16	2	248	62	13	248	235	242
2014	4.89%	15	2	238	72	15	235	223	229
2015	4.52%	14	2	228	83	17	223	211	217
2016	4.46%	13	1	217	93	18	211	199	205
2017	4.46%	13	1	207	103	20	199	187	193
2018	4.46%	13	1	197	114	21	187	176	181
2019	4.46%	13	1	186	124	23	176	164	170
2020	4.46%	13	1	176	134	24	164	152	158
2021	4.46%	13	1	166	145	25	152	140	146
2022	4.46%	13	1	155	155	27	140	128	134
2023	4.46%	13	1	145	166	28	128	116	122
2024	4.46%	13	1	134	176	30	116	105	110
2025	4.46%	13	1	124	186	31	105	93	99
2026	4.46%	13	1	114	197	33	93	81	87
2027	4.46%	13	1	103	207	34	81	69	75
2028	2.23%	7	(1)	93	217	33	69	60	64
2029	0.00%	0	(4)	83	228	30	60	53	57
2030	0.00%	0	(4)	72	238	26	53	47	50
2031	0.00%	0	(4)	62	248	22	47	40	43
2032	0.00%	0	(4)	52	259	18	40	33	37
2033	0.00%	0	(4)	41	269	15	33	27	30
2034	0.00%	0	(4)	31	279	11	27	20	23
2035	0.00%	0	(4)	21	290	7	20	13	17
2036	0.00%	0	(4)	10	300	4	13	7	10
2037	0.00%	0	(4)	(0)	310	0	7	0	3

\* 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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.07	0.07	(0.01)	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.29	0.36	(0.06)	(0.08)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	3.64	4.00	(0.77)	(0.85)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	15.37	19.37	(3.23)	(4.08)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	36.75	56.12	(7.65)	(11.72)	364.72	698.45
			25.72		77.43		56.12		(11.72)		698.45

000250

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	276	276	276
EQUITY AFUDC	23		
DEBT AFUDC	11	11	
CPI			25
<b>TOTAL</b>	<b>310</b>	<b>287</b>	<b>301</b>

\* Column not specified in workbook

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Off-Peak Battery Charging : 2005 - 2007 Installations

(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
1998	0	0	2.00	2.96	2.01	0.00	1.00	1.00
1999	0	0	2.23	3.26	2.25	0.00	1.00	1.00
2000	0	0	2.45	3.73	2.47	0.00	1.00	1.00
2001	0	0	2.73	4.55	2.76	0.00	1.00	1.00
2002	0	0	2.61	3.40	2.63	0.00	1.00	1.00
2003	0	0	2.60	3.57	2.62	0.00	1.00	1.00
2004	0	0	2.78	3.94	2.80	0.00	1.00	1.00
2005	125	125	2.84	4.17	2.86	0.00	1.00	1.00
2006	275	275	2.91	4.21	2.94	0.00	1.00	1.00
2007	400	400	3.02	4.73	3.05	0.00	1.00	1.00
2008	400	400	3.07	4.58	3.10	3.49	1.00	1.00
2009	400	400	3.14	4.66	3.17	3.69	1.00	1.00
2010	400	400	3.14	4.93	3.17	3.64	1.00	1.00
2011	400	400	3.31	5.07	3.35	3.75	1.00	1.00
2012	400	400	3.38	5.15	3.41	3.81	1.00	1.00
2013	400	400	3.47	5.29	3.51	3.86	1.00	1.00
2014	400	400	3.55	5.44	3.58	3.92	1.00	1.00
2015	400	400	3.58	5.48	3.61	3.94	1.00	1.00
2016	400	400	3.62	5.57	3.66	3.98	1.00	1.00
2017	400	400	3.75	6.02	3.78	4.12	1.00	1.00
2018	400	400	3.93	6.69	3.97	4.33	1.00	1.00
2019	400	400	4.09	7.48	4.13	4.54	1.00	1.00
2020	400	400	4.23	7.84	4.28	4.76	1.00	1.00
2021	400	400	4.34	8.18	4.38	4.88	1.00	1.00
2022	400	400	4.45	8.57	4.49	5.00	1.00	1.00
2023	400	400	4.56	9.00	4.60	5.13	1.00	1.00
2024	400	400	4.67	9.46	4.72	5.27	1.00	1.00
2025	400	400	4.80	9.99	4.85	5.42	1.00	1.00
2026	400	400	4.94	10.59	4.99	5.59	1.00	1.00
2027	400	400	5.07	10.59	4.99	5.59	1.00	1.00

000251

\* 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: Off-Peak Battery Charging : 2005 - 2007 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	60	23	3	82	126	42
2009	59	24	3	80	128	38
2010	56	25	3	78	122	40
2011	54	26	3	81	129	35
2012	52	27	3	84	131	35
2013	50	28	4	88	134	36
2014	49	29	4	92	137	36
2015	47	30	4	94	138	36
2016	45	31	4	96	139	37
2017	43	32	4	99	144	35
2018	42	34	4	102	152	29
2019	40	35	4	105	160	24
2020	38	36	4	108	168	19
2021	37	38	4	111	172	18
2022	35	39	5	114	176	16
2023	33	41	5	117	181	14
2024	31	43	5	119	186	12
2025	30	44	5	122	191	10
2026	28	46	5	125	197	7
2027	26	48	5	128	197	10
NOM	856	676	81	2,025	3,109	529
NPV	201	128	16	396	608	133

000252

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Off-Peak Battery Charging : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	1	1
2006	2	1	3	1	2	4	3	2
2007	4	1	6	3	5	8	6	4
2008	6	2	8	4	8	12	7	4
2009	6	2	8	4	8	12	7	4
2010	6	2	8	4	8	12	8	4
2011	6	2	8	4	9	12	8	5
2012	5	2	8	4	9	13	8	5
2013	5	2	7	3	10	13	8	5
2014	5	2	7	3	10	13	9	5
2015	5	2	7	3	10	13	9	5
2016	5	2	7	3	11	14	9	5
2017	4	3	7	3	11	14	10	5
2018	4	3	7	3	12	14	11	5
2019	4	3	7	3	12	15	12	6
2020	4	3	7	3	13	15	13	6
2021	4	3	7	2	13	15	13	6
2022	3	3	7	2	14	16	14	6
2023	3	3	7	2	14	16	15	6
2024	3	3	6	2	15	17	16	7
2025	3	4	6	2	15	17	16	7
2026	3	4	6	2	16	18	18	7
2027	3	4	6	2	16	18	17	7
NOM.	94	55	149	61	240	301	237	116
NPV	24	11	35	15	47	63	46	25

000253

\* 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 Off-Peak Battery Charging : 2005 - 2007 installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	9	38	0	46	0	0	0	0	0	(45)	(25)
2006	0	12	45	0	57	0	6	1	0	7	(50)	(50)
2007	0	10	39	0	49	0	14	3	0	16	(33)	(65)
2008	0	0	1	0	1	42	20	3	0	65	64	(38)
2009	0	0	1	0	1	38	20	3	0	60	59	(15)
2010	0	0	1	0	1	40	20	3	0	64	62	7
2011	0	0	1	0	1	35	20	3	0	59	57	26
2012	0	0	1	0	1	35	20	3	0	58	57	43
2013	0	0	1	0	1	38	20	3	0	59	58	59
2014	0	0	1	0	1	36	20	4	0	60	59	74
2015	0	0	1	0	1	36	21	4	0	61	59	88
2016	0	0	2	0	2	37	21	4	0	62	60	101
2017	0	0	2	0	2	35	21	4	0	60	58	112
2018	0	0	2	0	2	29	21	5	0	55	54	122
2019	0	0	2	0	2	24	21	6	0	52	50	130
2020	0	0	2	0	2	19	22	7	0	48	46	137
2021	0	0	2	0	2	18	22	7	0	47	45	143
2022	0	0	2	0	2	16	22	8	0	46	45	149
2023	0	0	2	0	2	14	23	8	0	48	44	154
2024	0	0	2	0	2	12	23	9	0	44	42	158
2025	0	0	2	0	2	10	23	10	0	43	41	162
2026	0	0	2	0	2	7	24	11	0	41	39	166
2027	0	0	2	0	2	10	24	10	0	45	43	169
NOM	0	31	153	0	184	529	450	120	0	1,099	915	
NPV	0	16	67	0	83	133	98	22	0	252	169	

000254

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 3.08

**PARTICIPANT COSTS AND BENEFITS**  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Off-Peak Battery Charging : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	3	0	18	0	21	36	0	0	36	(16)	(9)
2006	8	0	22	0	30	45	1	0	45	(16)	(16)
2007	14	0	18	0	32	38	1	0	39	(8)	(20)
2008	16	0	0	0	16	0	1	0	1	15	(14)
2009	16	0	0	0	16	0	1	0	1	15	(8)
2010	15	0	0	0	15	0	1	0	1	14	(3)
2011	15	0	0	0	15	0	1	0	1	14	1
2012	15	0	0	0	15	0	1	0	1	14	6
2013	15	0	0	0	15	0	1	0	1	13	9
2014	15	0	0	0	15	0	1	0	1	13	13
2015	15	0	0	0	15	0	1	0	1	13	16
2016	15	0	0	0	15	0	2	0	2	13	18
2017	15	0	0	0	15	0	2	0	2	13	21
2018	15	0	0	0	15	0	2	0	2	13	23
2019	14	0	0	0	14	0	2	0	2	13	25
2020	14	0	0	0	14	0	2	0	2	13	27
2021	14	0	0	0	14	0	2	0	2	13	29
2022	14	0	0	0	14	0	2	0	2	12	31
2023	14	0	0	0	14	0	2	0	2	12	32
2024	14	0	0	0	14	0	2	0	2	12	33
2025	14	0	0	0	14	0	2	0	2	12	35
2026	14	0	0	0	14	0	2	0	2	12	36
2027	14	0	0	0	14	0	2	0	2	12	37
<b>NOM</b>	<b>317</b>	<b>0</b>	<b>58</b>	<b>0</b>	<b>375</b>	<b>119</b>	<b>34</b>	<b>0</b>	<b>153</b>	<b>222</b>	
<b>NPV</b>	<b>75</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>104</b>	<b>60</b>	<b>7</b>	<b>0</b>	<b>67</b>	<b>37</b>	

000255

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

2008  
8.98 %  
1.68

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Off-Peak Battery Charging : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	0	0	0	
2005	0	9	18	3	0	30	0	0	0	0	(30)	(16)	
2006	0	12	22	8	0	41	1	6	0	7	(34)	(33)	
2007	0	10	18	14	0	42	3	14	0	16	(25)	(45)	
2008	0	0	0	16	0	18	45	20	0	85	49	(24)	
2009	0	0	0	16	0	16	40	20	0	80	44	(7)	
2010	0	0	0	15	0	15	44	20	0	64	48	10	
2011	0	0	0	15	0	15	39	20	0	59	44	25	
2012	0	0	0	15	0	15	38	20	0	58	43	38	
2013	0	0	0	15	0	15	39	20	0	59	44	50	
2014	0	0	0	15	0	15	40	20	0	60	45	61	
2015	0	0	0	15	0	15	40	21	0	61	46	72	
2016	0	0	0	15	0	15	41	21	0	62	47	82	
2017	0	0	0	15	0	15	39	21	0	60	45	91	
2018	0	0	0	15	0	15	34	21	0	55	41	98	
2019	0	0	0	14	0	14	30	21	0	52	37	104	
2020	0	0	0	14	0	14	26	22	0	48	33	109	
2021	0	0	0	14	0	14	25	22	0	47	33	114	
2022	0	0	0	14	0	14	24	22	0	46	32	118	
2023	0	0	0	14	0	14	23	23	0	46	31	122	
2024	0	0	0	14	0	14	21	23	0	44	30	125	
2025	0	0	0	14	0	14	18	23	0	43	29	128	
2026	0	0	0	14	0	14	17	24	0	41	27	130	
2027	0	0	0	14	0	14	20	24	0	45	31	133	
NOM.	0	31	56	317	0	408	649	450	0	1,099	693		
NPV	0	16	29	75	0	119	155	98	0	252	133		

000256

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) :

2.11

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: OFF PEAK BATTERY CHARGING (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

OPBC

RATE CLASS: GS

- (1) UTILITY NON RECURRING COST PER CUSTOMER
- (2) UTILITY RECURRING COST PER CUSTOMER
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)
- (6) CUSTOMER O&M COST
- (12) UTILITY NON RECURRING REBATE/INCENTIVE
- (13) UTILITY RECURRING REBATE/INCENTIVE
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE

RATE CLASS: GSD

- (1) UTILITY NON RECURRING COST PER CUSTOMER      \$ 63.00
- (2) UTILITY RECURRING COST PER CUSTOMER            \$ -
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)        \$ 241.28
- (6) CUSTOMER O&M COST                                    \$ 2.33
- (12) UTILITY NON RECURRING REBATE/INCENTIVE        \$ 144.00
- (13) UTILITY RECURRING REBATE/INCENTIVE            \$ -
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE        0%

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2008	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

000257

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: OFF PEAK BATTERY CHARGING (2005 - 2007)

RATE CLASS: GSLD

MEASURES

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(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 63.00
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ 241.28
(6) CUSTOMER O&M COST	\$ 2.33
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ 144.00
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ -
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000258

000259

**BUSINESS ON CALL**

NPV END 1998 (\$000)

YEARS	RATE IMPACT TEST		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 16.551	\$ 12.925	1.28

PARTICIPANT TEST		
<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
\$ 7.167	\$ -	INFINITE

TOTAL RESOURCE COST TEST		
<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
\$ 16.551	\$ 6.080	2.72

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Business On Call : 2001 - 2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	0.85 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.09 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	94.6 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	
(7) CUSTOMER kWh INCREASE AT METER .....	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	30 YEARS
(4) K FACTOR FOR GENERATION .....	1.61524
(5) K FACTOR FOR T & D .....	1.46985

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 .....	*** \$/CUSTYR
(7) CUSTOMER O & M COST ESCALATION RATE .....	*** %**
(8) INCREASED SUPPLY COSTS .....	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES.....	*** %**
(10) UTILITY DISCOUNT RATE .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	30 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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

000260

\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV. REQ  
 PROGRAM NAME: Business On Call : 2001 - 2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	456	89	0	546	9	0	0	0	0	0
2002	685	250	0	935	21	0	0	0	0	0
2003	928	393	0	1,320	18	0	0	0	0	0
2004	1,160	536	0	1,696	40	0	0	0	0	0
2005	980	607	0	1,587	61	0	0	0	0	0
2006	788	607	0	1,396	99	0	0	0	0	0
2007	571	607	0	1,179	100	0	0	0	0	0
2008	382	607	0	990	100	0	0	0	0	0
2009	205	607	0	813	100	0	0	0	0	0
2010	148	607	0	755	103	0	0	0	0	0
2011	152	607	0	760	103	0	0	0	0	0
2012	157	607	0	764	104	0	0	0	0	0
2013	161	607	0	768	105	0	0	0	0	0
2014	166	607	0	773	106	0	0	0	0	0
2015	171	607	0	778	107	0	0	0	0	0
2016	176	607	0	783	108	0	0	0	0	0
2017	181	607	0	788	108	0	0	0	0	0
2018	186	607	0	793	108	0	0	0	0	0
2019	191	607	0	799	109	0	0	0	0	0
2020	197	607	0	804	110	0	0	0	0	0
2021	199	607	0	806	111	0	0	0	0	0
2022	208	607	0	816	112	0	0	0	0	0
2023	214	607	0	822	112	0	0	0	0	0
2024	221	607	0	828	113	0	0	0	0	0

000261

NOM	8,884	13,412	0	22,296	2,167	0	0	0	0	0
NPV	4,118	4,137	0	8,255	603	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\_REQ  
 PROGRAM NAME: Business On Call : 2001 - 2004 Installations

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2005	11,146	381	0	766	475	156	372	24	2,174	2,174	2,174
2006	10,678	365	0	734	310	156	372	168	2,106	1,932	4,106
2007	10,149	347	0	698	310	156	372	146	2,028	1,708	5,814
2008	9,642	330	0	663	309	156	372	125	1,954	1,510	7,324
2009	9,154	313	0	629	307	156	372	106	1,883	1,335	8,659
2010	8,686	297	0	597	305	156	372	88	1,815	1,181	9,840
2011	8,235	282	0	566	302	156	372	71	1,749	1,044	10,884
2012	7,799	267	0	536	298	156	372	56	1,685	923	11,807
2013	7,373	252	0	507	282	156	372	53	1,623	816	12,623
2014	6,948	238	0	478	264	156	372	53	1,561	720	13,343
2015	6,523	223	0	448	246	156	372	53	1,498	634	13,977
2016	6,097	209	0	419	227	156	372	53	1,436	558	14,535
2017	5,672	194	0	390	209	156	372	53	1,374	490	15,025
2018	5,247	179	0	361	191	156	372	53	1,312	429	15,454
2019	4,822	165	0	331	172	156	372	53	1,250	375	15,830
2020	4,397	150	0	302	154	156	372	53	1,188	327	16,157
2021	3,971	136	0	273	135	156	372	53	1,126	285	16,441
2022	3,546	121	0	244	117	156	372	53	1,064	247	16,688
2023	3,121	107	0	215	99	156	372	53	1,001	213	16,901
2024	2,696	92	0	185	80	156	372	53	939	183	17,085
2025	2,317	79	0	159	157	156	372	(40)	884	158	17,243
2026	2,032	69	0	140	238	156	372	(133)	842	139	17,382
2027	1,793	61	0	123	228	156	372	(133)	807	122	17,503
2028	1,554	53	0	107	217	156	372	(133)	772	107	17,610
2029	1,315	45	0	90	207	156	372	(133)	737	94	17,704
2030	1,076	37	0	74	197	156	372	(133)	702	82	17,788
2031	836	29	0	58	186	156	372	(133)	668	71	17,857
2032	597	20	0	41	176	156	372	(133)	633	62	17,920
2033	358	12	0	25	166	156	372	(133)	598	54	17,973
2034	119	4	0	8	155	156	372	(133)	563	47	18,020

090262

IN SERVICE COS (\$000)	11,156
IN SERVICE YEAR	2005
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Business On Call : 2001 - 2004

000263

(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)	DEFERRED TAX DEPRECIATION FOR \$(000)	ACCUMULATED DEFERRED TAX DEPRECIATION FOR \$(000)	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)
2005	3.75%	406	406	372	372	344	344	24	825	0	0	0	24	(164)
2006	7.22%	781	1,186	372	744	344	689	168	825	0	0	0	168	5
2007	6.68%	722	1,909	372	1,116	344	1,033	146	825	0	0	0	146	151
2008	6.18%	668	2,577	372	1,487	344	1,377	125	825	0	0	0	125	276
2009	5.71%	618	3,195	372	1,859	344	1,722	106	825	0	0	0	106	381
2010	5.29%	572	3,767	372	2,231	344	2,066	88	825	0	0	0	88	469
2011	4.89%	529	4,295	372	2,603	344	2,411	71	825	0	0	0	71	540
2012	4.52%	489	4,784	372	2,975	344	2,755	56	825	0	0	0	56	596
2013	4.46%	483	5,267	372	3,347	344	3,099	53	825	0	0	0	53	649
2014	4.46%	483	5,749	372	3,719	344	3,444	53	825	0	0	0	53	702
2015	4.46%	483	6,232	372	4,091	344	3,788	53	825	0	0	0	53	756
2016	4.46%	483	6,715	372	4,462	344	4,132	53	825	0	0	0	53	809
2017	4.46%	483	7,197	372	4,834	344	4,477	53	825	0	0	0	53	862
2018	4.46%	483	7,680	372	5,206	344	4,821	53	825	0	0	0	53	916
2019	4.46%	483	8,162	372	5,578	344	5,165	53	825	0	0	0	53	969
2020	4.46%	483	8,645	372	5,950	344	5,510	53	825	0	0	0	53	1,022
2021	4.46%	483	9,127	372	6,322	344	5,854	53	825	0	0	0	53	1,076
2022	4.46%	483	9,610	372	6,694	344	6,199	53	825	0	0	0	53	1,129
2023	4.46%	483	10,093	372	7,066	344	6,543	53	825	0	0	0	53	1,182
2024	4.46%	483	10,575	372	7,437	344	6,887	53	825	0	0	0	53	1,235
2025	2.23%	241	10,816	372	7,809	344	7,232	(40)	825	0	0	0	(40)	1,196
2026	0.00%	0	10,816	372	8,181	344	7,576	(133)	825	0	0	0	(133)	1,063
2027	0.00%	0	10,816	372	8,553	344	7,920	(133)	825	0	0	0	(133)	930
2028	0.00%	0	10,816	372	8,925	344	8,265	(133)	825	0	0	0	(133)	797
2029	0.00%	0	10,816	372	9,297	344	8,609	(133)	825	0	0	0	(133)	664
2030	0.00%	0	10,816	372	9,669	344	8,953	(133)	825	0	0	0	(133)	531
2031	0.00%	0	10,816	372	10,041	344	9,298	(133)	825	0	0	0	(133)	399
2032	0.00%	0	10,816	372	10,412	344	9,642	(133)	825	0	0	0	(133)	266
2033	0.00%	0	10,816	372	10,784	344	9,987	(133)	825	0	0	0	(133)	133
2034	0.00%	0	10,816	372	11,156	344	10,331	(133)	825	0	0	0	(133)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(187)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	825
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Business On Call : 2001 - 2004 Installations

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	PLANT IN SERVICE NET END OF YEAR \$(000)	ACCUMULATE DEPRECIATION \$(000)	ACCUMULATE DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2005	3.75%	406	24	10,784	372	(164)	11,343	10,948	11,146
2006	7.22%	781	168	10,412	744	5	10,948	10,408	10,678
2007	6.68%	722	146	10,041	1,116	151	10,408	9,890	10,149
2008	6.18%	668	125	9,669	1,487	276	9,890	9,393	9,642
2009	5.71%	618	106	9,297	1,859	381	9,393	8,916	9,154
2010	5.29%	572	88	8,925	2,231	469	8,916	8,456	8,686
2011	4.89%	529	71	8,553	2,603	540	8,456	8,013	8,235
2012	4.52%	489	56	8,181	2,975	596	8,013	7,585	7,799
2013	4.46%	483	53	7,809	3,347	649	7,585	7,160	7,373
2014	4.46%	483	53	7,437	3,719	702	7,160	6,735	6,948
2015	4.46%	483	53	7,066	4,091	756	6,735	6,310	6,523
2016	4.46%	483	53	6,694	4,462	809	6,310	5,885	6,097
2017	4.46%	483	53	6,322	4,834	862	5,885	5,460	5,672
2018	4.46%	483	53	5,950	5,206	916	5,460	5,034	5,247
2019	4.46%	483	53	5,578	5,578	969	5,034	4,609	4,822
2020	4.46%	483	53	5,206	5,950	1,022	4,609	4,184	4,397
2021	4.46%	483	53	4,834	6,322	1,076	4,184	3,759	3,971
2022	4.46%	483	53	4,462	6,694	1,129	3,759	3,334	3,546
2023	4.46%	483	53	4,091	7,066	1,182	3,334	2,908	3,121
2024	4.46%	483	53	3,719	7,437	1,235	2,908	2,483	2,696
2025	2.23%	241	(40)	3,347	7,809	1,196	2,483	2,151	2,317
2026	0.00%	0	(133)	2,975	8,181	1,063	2,151	1,912	2,032
2027	0.00%	0	(133)	2,603	8,553	930	1,912	1,673	1,793
2028	0.00%	0	(133)	2,231	8,925	797	1,673	1,434	1,554
2029	0.00%	0	(133)	1,859	9,297	664	1,434	1,195	1,315
2030	0.00%	0	(133)	1,487	9,669	531	1,195	956	1,076
2031	0.00%	0	(133)	1,116	10,041	399	956	717	836
2032	0.00%	0	(133)	744	10,412	266	717	478	597
2033	0.00%	0	(133)	372	10,784	133	478	239	358
2034	0.00%	0	(133)	(0)	11,156	0	239	0	119

000264

\* Column not specified in workbook

(1) YEAR	(2) NO YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY ESCALATION (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.061	0.65%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

100.00% 582.24

000265

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)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.46	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	5.09	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	24.80	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	72.53	34.44	52.57	(7.17)	(10.98)	342.23	654.77

24.09

72.53

52.57

(10.98)

654.77

IN SERVICE YEAR		BOOK BASIS		
		BOOK BASIS	FOR DEF TAX	TAX BASIS
2005	CONSTRUCTION CASH	9,920	9,920	9,920
	EQUITY AFUDC	825		
	DEBT AFUDC	411	411	
	CPI			896
	<b>TOTAL</b>	<b>11,156</b>	<b>10,331</b>	<b>10,816</b>

\* Column not specified in workbook

INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Business On Call : 2001 - 2004 Installations

(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
1998	0	0	2.00	4.01	2.00	0.00	1.00	0.43
1999	0	0	2.23	3.92	2.23	0.00	1.00	0.43
2000	0	0	2.45	4.75	2.45	0.00	1.00	0.46
2001	4,585	4,585	2.73	5.52	2.73	0.00	1.00	0.68
2002	8,253	8,253	2.61	3.63	2.61	0.00	1.00	0.54
2003	11,921	11,921	2.60	3.97	2.60	0.00	1.00	0.29
2004	15,589	15,589	2.78	4.48	2.78	0.00	1.00	0.46
2005	15,589	15,589	2.93	5.33	2.93	3.25	1.00	0.61
2006	15,589	15,589	3.01	5.42	3.01	3.34	1.00	1.00
2007	15,589	15,589	3.13	6.29	3.13	3.49	1.00	1.00
2008	15,589	15,589	3.07	5.47	3.07	3.45	1.00	1.00
2009	15,589	15,589	3.15	5.57	3.15	3.60	1.00	1.00
2010	15,589	15,589	3.14	6.05	3.14	3.57	1.00	1.00
2011	15,589	15,589	3.32	6.31	3.32	3.71	1.00	1.00
2012	15,589	15,589	3.38	6.42	3.38	3.77	1.00	1.00
2013	15,589	15,589	3.47	6.48	3.47	3.84	1.00	1.00
2014	15,589	15,589	3.55	6.62	3.55	3.92	1.00	1.00
2015	15,589	15,589	3.58	6.63	3.58	3.95	1.00	1.00
2016	15,589	15,589	3.62	6.58	3.62	4.00	1.00	1.00
2017	15,589	15,589	3.75	7.54	3.75	4.13	1.00	1.00
2018	15,589	15,589	3.93	8.80	3.93	4.35	1.00	1.00
2019	15,589	15,589	4.09	10.25	4.09	4.55	1.00	1.00
2020	15,589	15,589	4.23	10.47	4.23	4.79	1.00	1.00
2021	15,589	15,589	4.32	10.81	4.32	4.88	1.00	1.00
2022	15,589	15,589	4.41	11.31	4.41	4.97	1.00	1.00
2023	15,589	15,589	4.53	11.92	4.53	5.10	1.00	1.00
2024	15,589	15,589	4.64	12.54	4.64	5.23	1.00	1.00

000266

\* 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 Business On Cell : 2001 - 2004 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	2,174	780	110	2,941	4,410	1,595
2006	2,106	811	116	3,082	4,665	1,449
2007	2,028	844	121	3,175	4,944	1,224
2008	1,954	877	124	3,212	4,878	1,289
2009	1,883	913	126	3,216	5,029	1,108
2010	1,815	949	124	3,131	4,803	1,215
2011	1,749	987	128	3,176	4,997	1,043
2012	1,685	1,026	132	3,268	5,076	1,036
2013	1,623	1,068	134	3,368	5,119	1,074
2014	1,561	1,110	137	3,466	5,173	1,100
2015	1,498	1,155	141	3,528	5,206	1,116
2016	1,436	1,201	143	3,588	5,223	1,145
2017	1,374	1,249	148	3,697	5,417	1,051
2018	1,312	1,299	153	3,810	5,722	852
2019	1,250	1,351	159	3,944	6,047	657
2020	1,188	1,405	163	4,062	6,368	450
2021	1,126	1,461	168	4,152	6,485	422
2022	1,064	1,519	173	4,248	6,608	396
2023	1,001	1,580	178	4,795	6,770	785
2024	939	1,643	183	4,795	6,946	616

000267

NOM	30,765	23,228	2860	72,654	109,885	19,622
NPV	9,360	5,684	728	18,610	28,278	6,105

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Business On Call : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	10	0
2002	67	16	83	26	70	96	13	0
2003	120	30	150	47	130	177	12	0
2004	171	45	217	67	196	263	30	0
2005	222	61	284	87	266	353	56	0
2006	214	64	278	83	277	360	93	0
2007	206	66	272	80	288	368	109	0
2008	198	69	267	77	299	377	93	0
2009	190	72	262	74	311	386	95	0
2010	183	75	258	71	324	395	104	0
2011	176	78	254	69	337	405	109	0
2012	169	81	250	66	350	416	111	0
2013	162	84	246	63	364	427	111	0
2014	155	87	243	61	379	439	114	0
2015	148	91	239	58	394	452	114	0
2016	141	95	236	55	410	465	112	0
2017	134	98	233	52	426	479	131	0
2018	127	102	230	50	443	493	155	0
2019	121	106	227	47	461	508	183	0
2020	114	111	224	44	479	524	187	0
2021	107	115	222	42	499	540	193	0
2022	100	120	220	39	519	558	203	0
2023	94	124	218	37	539	576	214	0
2024	89	129	218	35	561	595	226	0

000268

NOM.	3,409	1,919	5,328	1,329	8,322	9,652	2,777	0
NPV	1,166	505	1,671	455	2,191	2,645	675	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 Business On Call : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	456	0	0	456	0	0	10	0	10	(447)	(345)
2002	0	685	0	0	685	0	179	13	0	192	(493)	(695)
2003	0	928	0	0	928	0	327	12	0	339	(588)	(1,078)
2004	0	1,160	0	0	1,160	0	479	30	0	510	(650)	(1,466)
2005	0	980	0	0	980	1,595	636	56	0	2,287	1,308	(749)
2006	0	788	0	0	788	1,449	638	93	0	2,180	1,392	(50)
2007	0	571	0	0	571	1,224	640	109	0	1,973	1,402	597
2008	0	382	0	0	382	1,289	643	93	0	2,026	1,643	1,293
2009	0	205	0	0	205	1,108	648	95	0	1,850	1,645	1,932
2010	0	148	0	0	148	1,215	653	104	0	1,972	1,824	2,582
2011	0	152	0	0	152	1,043	659	109	0	1,811	1,658	3,124
2012	0	157	0	0	157	1,036	666	111	0	1,812	1,656	3,621
2013	0	161	0	0	161	1,074	674	111	0	1,858	1,697	4,089
2014	0	166	0	0	166	1,100	682	114	0	1,896	1,730	4,526
2015	0	171	0	0	171	1,116	691	114	0	1,920	1,749	4,932
2016	0	176	0	0	176	1,145	701	112	0	1,959	1,783	5,312
2017	0	181	0	0	181	1,051	711	131	0	1,894	1,713	5,646
2018	0	186	0	0	186	852	723	155	0	1,729	1,544	5,923
2019	0	191	0	0	191	657	735	183	0	1,575	1,383	6,150
2020	0	197	0	0	197	450	748	187	0	1,385	1,188	6,329
2021	0	199	0	0	199	422	762	193	0	1,377	1,178	6,493
2022	0	208	0	0	208	396	777	203	0	1,376	1,167	6,641
2023	0	214	0	0	214	785	794	214	0	1,793	1,579	6,825
2024	0	221	0	0	221	616	814	226	0	1,655	1,435	6,979

000269

NOM	0	8,884	0	0	8,884	19,622	14,980	2,777	0	37,379	28,495
NPV	0	4,118	0	0	4,118	6,105	4,316	675	0	11,097	6,979

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 2.69



PARTICIPANT COSTS AND BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Business On Call : 2001 - 2004 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	13	0	89	0	102	0	0	0	0	102	79
2002	29	0	250	0	279	0	0	0	0	279	276
2003	25	0	393	0	418	0	0	0	0	418	548
2004	54	0	536	0	590	0	0	0	0	590	900
2005	82	0	607	0	689	0	0	0	0	689	1,278
2006	134	0	607	0	741	0	0	0	0	741	1,650
2007	135	0	607	0	742	0	0	0	0	742	1,993
2008	136	0	607	0	743	0	0	0	0	743	2,307
2009	135	0	607	0	743	0	0	0	0	743	2,596
2010	139	0	607	0	746	0	0	0	0	746	2,862
2011	139	0	607	0	747	0	0	0	0	747	3,106
2012	141	0	607	0	748	0	0	0	0	748	3,330
2013	142	0	607	0	749	0	0	0	0	749	3,537
2014	143	0	607	0	750	0	0	0	0	750	3,726
2015	144	0	607	0	751	0	0	0	0	751	3,901
2016	145	0	607	0	753	0	0	0	0	753	4,061
2017	146	0	607	0	753	0	0	0	0	753	4,208
2018	147	0	607	0	754	0	0	0	0	754	4,343
2019	148	0	607	0	755	0	0	0	0	755	4,467
2020	149	0	607	0	756	0	0	0	0	756	4,581
2021	150	0	607	0	757	0	0	0	0	757	4,686
2022	151	0	607	0	758	0	0	0	0	758	4,782
2023	152	0	607	0	759	0	0	0	0	759	4,871
2024	153	0	607	0	760	0	0	0	0	760	4,952

000270

NOM	2,929	0	13,412	0	16,340	0	0	0	0	16,340
NPV	815	0	4,137	0	4,952	0	0	0	0	4,952

In Service of Gen Unit: 2005  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) Infinite

RATE IMPACT TEST  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Business On Call : 2001 - 2004 Installations

000271

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	456	89	9	0	555	10	0	0	0	10	(546)	(422)
2002	0	685	250	21	0	957	13	179	0	0	192	(764)	(963)
2003	0	928	393	18	0	1,339	12	327	0	0	339	(999)	(1,614)
2004	0	1,160	536	40	0	1,735	30	479	0	0	510	(1,226)	(2,346)
2005	0	980	607	61	0	1,647	1,651	636	0	0	2,287	640	(1,995)
2006	0	788	607	99	0	1,495	1,542	638	0	0	2,180	685	(1,651)
2007	0	571	607	100	0	1,278	1,333	640	0	0	1,973	695	(1,330)
2008	0	382	607	100	0	1,090	1,382	643	0	0	2,026	936	(934)
2009	0	205	607	100	0	913	1,203	648	0	0	1,850	937	(570)
2010	0	148	607	103	0	858	1,320	653	0	0	1,972	1,114	(173)
2011	0	152	607	103	0	863	1,152	659	0	0	1,811	948	138
2012	0	157	607	104	0	868	1,146	666	0	0	1,812	944	421
2013	0	161	607	105	0	873	1,185	674	0	0	1,858	985	692
2014	0	166	607	106	0	879	1,214	682	0	0	1,896	1,017	949
2015	0	171	607	107	0	885	1,229	691	0	0	1,920	1,036	1,190
2016	0	176	607	108	0	890	1,258	701	0	0	1,959	1,068	1,417
2017	0	181	607	108	0	896	1,182	711	0	0	1,894	998	1,612
2018	0	186	607	108	0	902	1,007	723	0	0	1,729	828	1,760
2019	0	191	607	109	0	908	840	735	0	0	1,575	667	1,870
2020	0	197	607	110	0	914	637	748	0	0	1,385	471	1,941
2021	0	199	607	111	0	917	615	762	0	0	1,377	460	2,005
2022	0	208	607	112	0	927	598	777	0	0	1,376	448	2,062
2023	0	214	607	112	0	934	999	794	0	0	1,793	859	2,162
2024	0	221	607	113	0	941	842	814	0	0	1,655	714	2,238

NOM.	0	8,884	13,412	2,167	0	24,463	22,399	14,980	0	0	37,379	12,916
NPV	0	4,118	4,137	603	0	8,859	6,780	4,316	0	0	11,097	2,238

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.26

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: BUSINESS ON CALL (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

CILM

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: GS

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 29.21
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ -
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ -
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ 38.95
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

RATE CLASS: GSD

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 29.21
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ -
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ -
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ 38.95
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

000272

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: BUSINESS ON CALL (2001 - 2004)

MEASURES

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RATE CLASS: GSLD

- (1) UTILITY NON RECURRING COST PER CUSTOMER
- (2) UTILITY RECURRING COST PER CUSTOMER
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)
- (6) CUSTOMER O&M COST
- (12) UTILITY NON RECURRING REBATE/INCENTIVE
- (13) UTILITY RECURRING REBATE/INCENTIVE
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000273

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Business On Call : 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER KW REDUCTION AT METER .....	0.85 kW
(2) GENERATOR KW REDUCTION PER CUSTOMER .....	1.09 kW
(3) KW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	94.6 kWh
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	30 YEARS
(4) K FACTOR FOR GENERATION .....	1.61528
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	30 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(10) TRANSMISSION FIXED O & M COST .....	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	13.01 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	... CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.45 %**

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

000274

\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Business On Call : 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	405	71	0	477	7	0	0	0	0	
2006	588	196	0	785	33	0	0	0	0	
2007	789	304	0	1,092	52	0	0	0	0	
2008	652	357	0	1,010	61	0	0	0	0	
2009	606	357	0	963	61	0	0	0	0	
2010	456	357	0	813	63	0	0	0	0	
2011	286	357	0	643	63	0	0	0	0	
2012	142	357	0	499	64	0	0	0	0	
2013	95	357	0	452	64	0	0	0	0	
2014	98	357	0	455	65	0	0	0	0	
2015	100	357	0	458	65	0	0	0	0	
2016	103	357	0	460	66	0	0	0	0	
2017	106	357	0	463	66	0	0	0	0	
2018	109	357	0	467	66	0	0	0	0	
2019	113	357	0	470	67	0	0	0	0	
2020	116	357	0	473	67	0	0	0	0	
2021	117	357	0	474	68	0	0	0	0	
2022	123	357	0	480	68	0	0	0	0	
2023	126	357	0	483	69	0	0	0	0	
2024	130	357	0	487	69	0	0	0	0	
2025	134	357	0	491	70	0	0	0	0	
2026	137	357	0	495	70	0	0	0	0	
2027	141	357	0	499	71	0	0	0	0	
NOM	5,674	7,715	0	13,389	1,417	0	0	0	0	
NPV	1,962	1,785	0	3,747	318	0	0	0	0	

000275

\* 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 On Call : 2005 - 2007 Installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2008	6,994	239	0	481	298	98	233	15	1,364	1,364	1,364
2009	6,700	229	0	461	194	98	233	106	1,321	1,212	2,577
2010	6,368	218	0	438	194	98	233	91	1,273	1,072	3,648
2011	6,050	207	0	416	194	98	233	78	1,226	948	4,596
2012	5,744	196	0	395	193	98	233	66	1,182	838	5,434
2013	5,450	186	0	375	191	98	233	55	1,139	741	6,174
2014	5,167	177	0	355	189	98	233	45	1,097	655	6,830
2015	4,894	167	0	336	187	98	233	35	1,057	579	7,409
2016	4,626	158	0	318	177	98	233	33	1,018	512	7,921
2017	4,360	149	0	300	166	98	233	33	979	452	8,373
2018	4,093	140	0	281	154	98	233	33	940	398	8,771
2019	3,826	131	0	263	143	98	233	33	901	350	9,121
2020	3,559	122	0	245	131	98	233	33	862	307	9,428
2021	3,292	113	0	226	120	98	233	33	823	269	9,698
2022	3,026	103	0	208	108	98	233	33	784	235	9,933
2023	2,759	94	0	190	97	98	233	33	745	205	10,138
2024	2,492	85	0	171	85	98	233	33	706	179	10,317
2025	2,225	76	0	153	73	98	233	33	667	155	10,472
2026	1,958	67	0	135	62	98	233	33	628	134	10,605
2027	1,692	58	0	116	50	98	233	33	589	115	10,720
2028	1,454	50	0	100	99	98	233	(25)	555	99	10,820
2029	1,275	44	0	88	149	98	233	(83)	528	87	10,907
2030	1,125	38	0	77	143	98	233	(83)	507	76	10,983
2031	975	33	0	67	136	98	233	(83)	485	67	11,050
2032	825	28	0	57	130	98	233	(83)	463	59	11,109
2033	675	23	0	46	123	98	233	(83)	441	51	11,161
2034	525	18	0	36	117	98	233	(83)	419	45	11,205
2035	375	13	0	26	110	98	233	(83)	397	39	11,244
2036	225	8	0	15	104	98	233	(83)	375	34	11,278
2037	75	3	0	5	97	98	233	(83)	353	29	11,307

000276

IN SERVICE COS (\$000)	7,000
IN SERVICE YEAR	2008
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

**CAPITAL STRUCTURE**

SOURCE	WEIGHT	COST	
DEBT	45%	7.60	%
P/S	0%	0.00	%
C/S	55%	12.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Business On Call : 2005 - 2007

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPR FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	TAX DUE TO DEFERRED TAX \$(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)
2008	3.75%	254	254	233	233	216	216	15	518	0	0	0	15	(103)
2009	7.22%	490	744	233	467	216	432	106	518	0	0	0	106	3
2010	6.68%	453	1,198	233	700	216	648	91	518	0	0	0	91	94
2011	6.18%	419	1,617	233	933	216	864	78	518	0	0	0	78	173
2012	5.71%	388	2,005	233	1,167	216	1,080	66	518	0	0	0	66	239
2013	5.29%	359	2,363	233	1,400	216	1,296	55	518	0	0	0	55	294
2014	4.89%	332	2,695	233	1,633	216	1,512	45	518	0	0	0	45	339
2015	4.52%	307	3,002	233	1,867	216	1,729	35	518	0	0	0	35	374
2016	4.46%	303	3,305	233	2,100	216	1,945	33	518	0	0	0	33	407
2017	4.46%	303	3,608	233	2,333	216	2,161	33	518	0	0	0	33	441
2018	4.46%	303	3,910	233	2,567	216	2,377	33	518	0	0	0	33	474
2019	4.46%	303	4,213	233	2,800	216	2,593	33	518	0	0	0	33	508
2020	4.46%	303	4,516	233	3,033	216	2,809	33	518	0	0	0	33	541
2021	4.46%	303	4,819	233	3,267	216	3,025	33	518	0	0	0	33	574
2022	4.46%	303	5,122	233	3,500	216	3,241	33	518	0	0	0	33	608
2023	4.46%	303	5,424	233	3,733	216	3,457	33	518	0	0	0	33	641
2024	4.46%	303	5,727	233	3,967	216	3,673	33	518	0	0	0	33	675
2025	4.46%	303	6,030	233	4,200	216	3,889	33	518	0	0	0	33	708
2026	4.46%	303	6,333	233	4,434	216	4,105	33	518	0	0	0	33	742
2027	4.46%	303	6,635	233	4,667	216	4,321	33	518	0	0	0	33	775
2028	2.23%	151	6,787	233	4,900	216	4,537	(25)	518	0	0	0	(25)	750
2029	0.00%	0	6,787	233	5,134	216	4,753	(83)	518	0	0	0	(83)	667
2030	0.00%	0	6,787	233	5,367	216	4,970	(83)	518	0	0	0	(83)	584
2031	0.00%	0	6,787	233	5,600	216	5,186	(83)	518	0	0	0	(83)	500
2032	0.00%	0	6,787	233	5,834	216	5,402	(83)	518	0	0	0	(83)	417
2033	0.00%	0	6,787	233	6,067	216	5,618	(83)	518	0	0	0	(83)	333
2034	0.00%	0	6,787	233	6,300	216	5,834	(83)	518	0	0	0	(83)	250
2035	0.00%	0	6,787	233	6,534	216	6,050	(83)	518	0	0	0	(83)	167
2036	0.00%	0	6,787	233	6,767	216	6,266	(83)	518	0	0	0	(83)	83
2037	0.00%	0	6,787	233	7,000	216	6,482	(83)	518	0	0	0	(83)	0

000277

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(118)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	518
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%



DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Business On Call : 2005 - 2007 Installations

(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)
2008	3.75%	254	15	6,767	233	(103)	7,118	6,870	6,994
2009	7.22%	490	106	6,534	467	3	6,870	6,531	6,700
2010	6.68%	453	91	6,300	700	94	6,531	6,206	6,368
2011	6.18%	419	78	6,067	933	173	6,206	5,894	6,050
2012	5.71%	388	66	5,834	1,167	239	5,894	5,594	5,744
2013	5.29%	359	55	5,600	1,400	294	5,594	5,306	5,450
2014	4.89%	332	45	5,367	1,633	339	5,306	5,028	5,167
2015	4.52%	307	35	5,134	1,867	374	5,028	4,760	4,894
2016	4.46%	303	33	4,900	2,100	407	4,760	4,493	4,626
2017	4.46%	303	33	4,667	2,333	441	4,493	4,226	4,360
2018	4.46%	303	33	4,434	2,567	474	4,226	3,959	4,093
2019	4.46%	303	33	4,200	2,800	508	3,959	3,693	3,826
2020	4.46%	303	33	3,967	3,033	541	3,693	3,426	3,559
2021	4.46%	303	33	3,733	3,267	574	3,426	3,159	3,292
2022	4.46%	303	33	3,500	3,500	608	3,159	2,892	3,026
2023	4.46%	303	33	3,267	3,733	641	2,892	2,625	2,759
2024	4.46%	303	33	3,033	3,967	675	2,625	2,359	2,492
2025	4.46%	303	33	2,800	4,200	708	2,359	2,092	2,225
2026	4.46%	303	33	2,567	4,434	742	2,092	1,825	1,958
2027	4.46%	303	33	2,333	4,667	775	1,825	1,558	1,692
2028	2.23%	151	(25)	2,100	4,900	750	1,558	1,350	1,454
2029	0.00%	0	(83)	1,867	5,134	667	1,350	1,200	1,275
2030	0.00%	0	(83)	1,633	5,367	584	1,200	1,050	1,125
2031	0.00%	0	(83)	1,400	5,600	500	1,050	900	975
2032	0.00%	0	(83)	1,167	5,834	417	900	750	825
2033	0.00%	0	(83)	933	6,067	333	750	600	675
2034	0.00%	0	(83)	700	6,300	250	600	450	525
2035	0.00%	0	(83)	467	6,534	167	450	300	375
2036	0.00%	0	(83)	233	6,767	83	300	150	225
2037	0.00%	0	(83)	0	7,000	0	150	0	75

000278

\* 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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.64	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.10	0.07	0.07	(0.01)	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.49	0.29	0.36	(0.06)	(0.08)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	5.44	3.64	4.00	(0.77)	(0.85)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	26.50	15.37	19.37	(3.23)	(4.08)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	56.12	(7.65)	(11.72)	364.72	698.45
			25.72		77.43		56.12		(11.72)		698.45	

000279

IN SERVICE YEAR 2008  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	6,224	6,224	6,224
EQUITY AFUDC	518		
DEBT AFUDC	258	258	
CPI			562
<b>TOTAL</b>	<b>7,000</b>	<b>6,482</b>	<b>6,787</b>

\* Column not specified in workbook

INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Business On Call : 2005 - 2007 Installations

(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
1998	0	0	2.00	4.01	2.00	0.00	1.00	0.43
1999	0	0	2.23	3.92	2.23	0.00	1.00	0.43
2000	0	0	2.45	4.75	2.45	0.00	1.00	0.46
2001	0	0	2.73	5.52	2.73	0.00	1.00	0.68
2002	0	0	2.61	3.63	2.61	0.00	1.00	0.54
2003	0	0	2.60	3.97	2.60	0.00	1.00	0.29
2004	0	0	2.78	4.48	2.78	0.00	1.00	0.46
2005	3,668	3,668	2.84	4.72	2.84	0.00	1.00	0.61
2006	6,419	6,419	2.91	4.86	2.91	0.00	1.00	1.00
2007	9,170	9,170	3.02	5.69	3.02	0.00	1.00	1.00
2008	9,170	9,170	3.07	5.47	3.07	3.49	1.00	1.00
2009	9,170	9,170	3.14	5.55	3.14	3.69	1.00	1.00
2010	9,170	9,170	3.14	6.06	3.14	3.64	1.00	1.00
2011	9,170	9,170	3.31	6.32	3.31	3.75	1.00	1.00
2012	9,170	9,170	3.38	6.42	3.38	3.81	1.00	1.00
2013	9,170	9,170	3.47	6.46	3.47	3.86	1.00	1.00
2014	9,170	9,170	3.55	6.62	3.55	3.92	1.00	1.00
2015	9,170	9,170	3.58	6.64	3.58	3.94	1.00	1.00
2016	9,170	9,170	3.62	6.58	3.62	3.98	1.00	1.00
2017	9,170	9,170	3.75	7.55	3.75	4.12	1.00	1.00
2018	9,170	9,170	3.93	8.80	3.93	4.33	1.00	1.00
2019	9,170	9,170	4.09	10.27	4.09	4.54	1.00	1.00
2020	9,170	9,170	4.23	10.47	4.23	4.76	1.00	1.00
2021	9,170	9,170	4.34	11.01	4.34	4.88	1.00	1.00
2022	9,170	9,170	4.45	11.62	4.45	5.00	1.00	1.00
2023	9,170	9,170	4.56	12.32	4.56	5.13	1.00	1.00
2024	9,170	9,170	4.67	13.11	4.67	5.27	1.00	1.00
2025	9,170	9,170	4.80	14.04	4.80	5.42	1.00	1.00
2026	9,170	9,170	4.94	15.14	4.94	5.59	1.00	1.00
2027	9,170	9,170	5.07	15.14	4.94	5.59	1.00	1.00

000280

\* 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 Business On Call : 2005 - 2007 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	1,364	512	71	1,843	2,833	957
2009	1,321	533	70	1,801	2,879	846
2010	1,273	554	70	1,768	2,756	909
2011	1,226	576	74	1,838	2,917	798
2012	1,182	599	76	1,888	2,961	785
2013	1,139	623	79	1,985	3,025	801
2014	1,097	648	82	2,077	3,090	814
2015	1,057	674	84	2,115	3,108	822
2016	1,018	701	87	2,175	3,144	836
2017	979	729	89	2,233	3,252	778
2018	940	758	92	2,296	3,432	654
2019	901	789	95	2,366	3,611	540
2020	862	820	98	2,437	3,787	431
2021	823	853	101	2,502	3,878	401
2022	784	887	104	2,567	3,975	367
2023	745	923	107	2,630	4,079	326
2024	706	959	110	2,691	4,191	276
2025	667	998	113	2,754	4,314	218
2026	628	1,038	116	2,818	4,450	151
2027	589	1,079	120	2,882	4,450	221
NOM	19,305	15,255	1836	45,666	70,131	11,931
NPV	4,539	2,885	357	8,938	13,722	2,996

000281

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Business On Call : 2005 - 2007 Installations

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9a)*
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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	6	0
2006	58	15	73	23	65	88	26	0
2007	100	27	128	39	119	158	49	0
2008	142	41	182	55	176	231	55	0
2009	137	42	179	53	183	236	56	0
2010	131	44	175	51	191	242	61	0
2011	126	46	172	49	198	247	64	0
2012	122	48	169	47	206	253	65	0
2013	117	49	166	46	214	260	65	0
2014	112	51	164	44	223	267	67	0
2015	108	53	162	42	232	274	67	0
2016	104	56	159	40	241	281	66	0
2017	99	58	157	39	251	289	77	0
2018	95	60	155	37	261	298	91	0
2019	91	63	153	35	271	307	108	0
2020	86	65	151	34	282	316	110	0
2021	82	68	150	32	293	325	116	0
2022	78	70	148	30	305	335	123	0
2023	73	73	146	29	317	346	131	0
2024	69	76	145	27	330	357	140	0
2025	65	79	144	25	343	368	150	0
2026	61	82	143	24	357	380	163	0
2027	57	86	143	22	371	393	162	0
NOM	2,113	1,252	3,365	824	5,429	6,252	2,017	0
NPV	539	249	788	210	1,079	1,289	381	0

000282

\* 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 NAMI Business On Call : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	405	0	0	405	0	0	6	0	6	(400)	(219)
2006	0	588	0	0	588	0	161	26	0	187	(401)	(421)
2007	0	789	0	0	789	0	285	49	0	334	(454)	(630)
2008	0	652	0	0	652	957	414	55	0	1,426	774	(303)
2009	0	606	0	0	606	846	415	56	0	1,317	711	(27)
2010	0	456	0	0	456	909	417	61	0	1,387	931	305
2011	0	286	0	0	286	798	419	64	0	1,281	995	631
2012	0	142	0	0	142	785	422	65	0	1,272	1,130	970
2013	0	95	0	0	95	801	426	65	0	1,292	1,198	1,300
2014	0	98	0	0	98	814	431	67	0	1,312	1,214	1,607
2015	0	100	0	0	100	822	435	67	0	1,325	1,224	1,891
2016	0	103	0	0	103	836	441	66	0	1,343	1,240	2,155
2017	0	106	0	0	106	778	447	77	0	1,302	1,196	2,388
2018	0	109	0	0	109	654	453	91	0	1,198	1,089	2,583
2019	0	113	0	0	113	540	460	108	0	1,108	995	2,747
2020	0	116	0	0	116	431	467	110	0	1,008	892	2,882
2021	0	117	0	0	117	401	475	116	0	991	874	3,003
2022	0	123	0	0	123	367	483	123	0	973	851	3,111
2023	0	126	0	0	126	326	492	131	0	948	822	3,207
2024	0	130	0	0	130	276	502	140	0	917	787	3,291
2025	0	134	0	0	134	218	512	150	0	880	747	3,364
2026	0	137	0	0	137	151	523	163	0	836	699	3,427
2027	0	141	0	0	141	221	536	162	0	919	777	3,492
NOM	0	5,674	0	0	5,674	11,931	9,617	2,017	0	23,565	17,891	
NPV	0	1,962	0	0	1,962	2,996	2,077	381	0	5,454	3,492	

000283

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 2.78

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Business On Call : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	10	0	71	0	81	0	0	0	0	81	44
2006	44	0	196	0	241	0	0	0	0	241	166
2007	70	0	304	0	374	0	0	0	0	374	338
2008	83	0	357	0	440	0	0	0	0	440	524
2009	83	0	357	0	440	0	0	0	0	440	695
2010	85	0	357	0	442	0	0	0	0	442	853
2011	85	0	357	0	443	0	0	0	0	443	998
2012	86	0	357	0	443	0	0	0	0	443	1,131
2013	87	0	357	0	444	0	0	0	0	444	1,253
2014	88	0	357	0	445	0	0	0	0	445	1,366
2015	88	0	357	0	445	0	0	0	0	445	1,469
2016	89	0	357	0	446	0	0	0	0	446	1,564
2017	89	0	357	0	446	0	0	0	0	446	1,651
2018	90	0	357	0	447	0	0	0	0	447	1,731
2019	90	0	357	0	448	0	0	0	0	448	1,805
2020	91	0	357	0	448	0	0	0	0	448	1,872
2021	92	0	357	0	449	0	0	0	0	449	1,935
2022	92	0	357	0	449	0	0	0	0	449	1,992
2023	93	0	357	0	450	0	0	0	0	450	2,044
2024	94	0	357	0	451	0	0	0	0	451	2,093
2025	94	0	357	0	451	0	0	0	0	451	2,137
2026	95	0	357	0	452	0	0	0	0	452	2,178
2027	96	0	357	0	453	0	0	0	0	453	2,215
<b>NOM</b>	<b>1,915</b>	<b>0</b>	<b>7,715</b>	<b>0</b>	<b>9,630</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,630</b>	
<b>NPV</b>	<b>430</b>	<b>0</b>	<b>1,785</b>	<b>0</b>	<b>2,215</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,215</b>	

000284

In Service of Gen Unit:

Discount Rate :

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

2008

8.98 %

**Infinite**

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAMI Business On Call : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	0	0	0	
2005	0	405	71	7	0	484	6	0	0	6	(478)	(262)	
2006	0	588	196	33	0	818	26	161	0	187	(630)	(579)	
2007	0	789	304	52	0	1,144	49	285	0	334	(810)	(953)	
2008	0	652	357	61	0	1,071	1,012	414	0	1,426	355	(802)	
2009	0	606	357	61	0	1,025	902	415	0	1,317	292	(689)	
2010	0	456	357	63	0	876	970	417	0	1,387	511	(507)	
2011	0	286	357	63	0	707	862	419	0	1,281	575	(319)	
2012	0	142	357	64	0	563	849	422	0	1,272	709	(106)	
2013	0	95	357	64	0	516	866	426	0	1,292	776	108	
2014	0	98	357	65	0	520	881	431	0	1,312	792	308	
2015	0	100	357	65	0	523	889	435	0	1,325	802	494	
2016	0	103	357	66	0	526	903	441	0	1,343	817	668	
2017	0	106	357	66	0	529	856	447	0	1,302	773	819	
2018	0	109	357	66	0	533	745	453	0	1,198	665	938	
2019	0	113	357	67	0	537	648	460	0	1,108	571	1,032	
2020	0	116	357	67	0	540	541	467	0	1,008	468	1,103	
2021	0	117	357	68	0	542	516	475	0	991	449	1,165	
2022	0	123	357	68	0	548	490	483	0	973	425	1,219	
2023	0	126	357	69	0	552	456	492	0	948	396	1,265	
2024	0	130	357	69	0	556	415	502	0	917	361	1,304	
2025	0	134	357	70	0	561	368	512	0	880	320	1,335	
2026	0	137	357	70	0	565	313	523	0	836	271	1,360	
2027	0	141	357	71	0	569	383	536	0	919	349	1,388	
NOM	0	5,674	7,715	1,417	0	14,805	13,948	9,617	0	23,565	8,759		
NPV	0	1,962	1,785	318	0	4,066	3,377	2,077	0	5,454	1,388		

000285

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.34



INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: BUSINESS ON CALL (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

CILM

RATE CLASS: GS

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 29.21
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ -
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ -
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ 38.95
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

RATE CLASS: GSD

(1) UTILITY NON RECURRING COST PER CUSTOMER	\$ 29.21
(2) UTILITY RECURRING COST PER CUSTOMER	\$ -
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$ -
(6) CUSTOMER O&M COST	\$ -
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$ -
(13) UTILITY RECURRING REBATE/INCENTIVE	\$ 38.95
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

III. (3,5,7,9) ESCALATION RATES

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

000286

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: BUSINESS ON CALL (2005 - 2007)

MEASURES

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RATE CLASS: GSLD

- (1) UTILITY NON RECURRING COST PER CUSTOMER
- (2) UTILITY RECURRING COST PER CUSTOMER
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)
- (6) CUSTOMER O&M COST
- (12) UTILITY NON RECURRING REBATE/INCENTIVE
- (13) UTILITY RECURRING REBATE/INCENTIVE
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000287

000288

**COMMERCIAL/INDUSTRIAL DEMAND REDUCTION**

NPV END 1998 (\$000)

<u>YEARS</u>	<u>RATE IMPACT TEST</u>			<u>PARTICIPANT TEST</u>			<u>TOTAL RESOURCE COST TEST</u>		
	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>	<u>BENEFITS</u>	<u>COSTS</u>	<u>RATIO</u>
2001-2007	\$ 16.931	\$ 15.047	1.13	\$ 12.720	\$ -	INFINITE	\$ 16.931	\$ 2.327	7.28

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Commercial / Industrial Demand Reduction : 2001 - 2004 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	1.00 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.29 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	85.4 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	31.8 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	27 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.81524
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2005
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2005
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	0 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	0 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(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 .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	91% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.17 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	1.75 %**

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.

000289

\* INPUT DATA -- PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Commercial / Industrial Demand Reduction : 2001 - 2004 Installations

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)
1998	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	
2000	0	0	0	0	0	0	0	0	0	
2001	45	157	0	202	0	1	0	0	0	
2002	91	471	0	562	0	1	0	0	0	
2003	140	784	0	924	0	1	0	0	0	
2004	188	1,098	0	1,286	0	3	0	0	0	
2005	189	1,255	0	1,444	0	4	0	0	0	
2006	190	1,255	0	1,445	0	8	0	0	0	
2007	191	1,255	0	1,446	0	8	0	0	0	
2008	196	1,255	0	1,451	0	9	0	0	0	
2009	201	1,255	0	1,456	0	9	0	0	0	
2010	206	1,255	0	1,461	0	9	0	0	0	
2011	212	1,255	0	1,467	0	9	0	0	0	
2012	218	1,255	0	1,473	0	9	0	0	0	
2013	225	1,255	0	1,479	0	10	0	0	0	
2014	231	1,255	0	1,486	0	10	0	0	0	
2015	238	1,255	0	1,493	0	10	0	0	0	
2016	245	1,255	0	1,500	0	10	0	0	0	
2017	252	1,255	0	1,507	0	10	0	0	0	
2018	259	1,255	0	1,514	0	10	0	0	0	
2019	267	1,255	0	1,522	0	10	0	0	0	
2020	274	1,255	0	1,529	0	11	0	0	0	
2021	282	1,255	0	1,537	0	11	0	0	0	
2022	290	1,255	0	1,545	0	11	0	0	0	
2023	299	1,255	0	1,554	0	11	0	0	0	
2024	308	1,255	0	1,562	0	11	0	0	0	

000290

NOM	5,236	27,608	0	32,843	0	195	0	0	0	0
NPV	1,511	8,472	0	9,983	0	52	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\_REQ**  
**PROGRAM NAME: Commercial / Industrial Demand Reduction : 2001 - 2004 Installations**

YEAR	(2) MID-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) OTHER TAXES & INSURANCE \$(000)	(8) DEPREC. \$(000)	(9) DEFERRED TAXES \$(000)	(10) TOTAL FIXED CHARGES \$(000)	(11) PRESENT WORTH FIXED CHARGES \$(000)	(12) CUMULATIVE PW FIXED CHARGES \$(000)
2005	18,512	633	0	1,273	789	259	618	39	3,611	3,611	3,611
2006	17,735	607	0	1,219	515	259	618	280	3,497	3,209	6,820
2007	16,856	576	0	1,159	514	259	618	242	3,369	2,837	9,657
2008	16,014	548	0	1,101	512	259	618	208	3,246	2,508	12,165
2009	15,205	520	0	1,045	510	259	618	175	3,128	2,218	14,382
2010	14,426	493	0	992	506	259	618	146	3,014	1,961	16,343
2011	13,677	468	0	940	501	259	618	118	2,904	1,734	18,077
2012	12,954	443	0	891	495	259	618	93	2,799	1,533	19,611
2013	12,246	419	0	842	469	259	618	89	2,695	1,355	20,966
2014	11,539	395	0	793	438	259	618	89	2,592	1,196	22,161
2015	10,833	370	0	745	408	259	618	89	2,489	1,054	23,215
2016	10,127	346	0	696	377	259	618	89	2,386	927	24,142
2017	9,421	322	0	648	347	259	618	89	2,282	814	24,955
2018	8,715	298	0	599	316	259	618	89	2,179	713	25,668
2019	8,009	274	0	551	286	259	618	89	2,076	623	26,291
2020	7,302	250	0	502	255	259	618	89	1,973	543	26,835
2021	6,596	226	0	453	225	259	618	89	1,870	473	27,307
2022	5,890	201	0	405	194	259	618	89	1,766	410	27,717
2023	5,184	177	0	356	164	259	618	89	1,663	354	28,071
2024	4,478	153	0	308	134	259	618	89	1,560	305	28,376
2025	3,849	132	0	265	261	259	618	(66)	1,468	263	28,639
2026	3,374	115	0	232	395	259	618	(221)	1,399	230	28,869
2027	2,977	102	0	205	378	259	618	(221)	1,341	202	29,071
2028	2,580	88	0	177	361	259	618	(221)	1,283	178	29,249
2029	2,183	75	0	150	344	259	618	(221)	1,225	156	29,405
2030	1,786	61	0	123	326	259	618	(221)	1,167	136	29,541
2031	1,389	48	0	96	309	259	618	(221)	1,109	119	29,659
2032	992	34	0	68	292	259	618	(221)	1,051	103	29,763
2033	595	20	0	41	275	259	618	(221)	993	89	29,852
2034	198	7	0	14	258	259	618	(221)	935	77	29,929

000291

IN SERVICE COS (\$000) 18,529  
 IN SERVICE YEAR 2005  
 BOOK LIFE (YRS) 30  
 EFFEC. TAX RATE 38.575  
 DISCOUNT RATE 8.98%  
 OTAX & INS RATE 1.40%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61524

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial Demanc

(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 DEPR FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	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)
	2005	3.75%	674	674	618	618	572	572	39	1,371	0	0	0	39
2006	7.22%	1,297	1,971	618	1,235	572	1,144	280	1,371	0	0	0	280	8
2007	6.68%	1,199	3,170	618	1,853	572	1,716	242	1,371	0	0	0	242	250
2008	6.18%	1,110	4,280	618	2,471	572	2,288	208	1,371	0	0	0	208	458
2009	5.71%	1,028	5,308	618	3,088	572	2,860	175	1,371	0	0	0	175	633
2010	5.29%	949	6,256	618	3,706	572	3,432	146	1,371	0	0	0	146	779
2011	4.89%	878	7,134	618	4,324	572	4,004	118	1,371	0	0	0	118	897
2012	4.52%	812	7,946	618	4,941	572	4,576	93	1,371	0	0	0	93	989
2013	4.46%	802	8,748	618	5,559	572	5,148	89	1,371	0	0	0	89	1,078
2014	4.46%	801	9,549	618	6,176	572	5,720	89	1,371	0	0	0	89	1,167
2015	4.46%	802	10,351	618	6,794	572	6,291	89	1,371	0	0	0	89	1,255
2016	4.46%	801	11,152	618	7,412	572	6,863	89	1,371	0	0	0	89	1,344
2017	4.46%	802	11,954	618	8,029	572	7,435	89	1,371	0	0	0	89	1,432
2018	4.46%	801	12,755	618	8,647	572	8,007	89	1,371	0	0	0	89	1,521
2019	4.46%	802	13,557	618	9,265	572	8,579	89	1,371	0	0	0	89	1,609
2020	4.46%	801	14,358	618	9,882	572	9,151	89	1,371	0	0	0	89	1,698
2021	4.46%	802	15,160	618	10,500	572	9,723	89	1,371	0	0	0	89	1,786
2022	4.46%	801	15,961	618	11,118	572	10,295	89	1,371	0	0	0	89	1,875
2023	4.46%	802	16,763	618	11,735	572	10,867	89	1,371	0	0	0	89	1,963
2024	4.46%	801	17,564	618	12,353	572	11,439	89	1,371	0	0	0	89	2,052
2025	2.23%	401	17,965	618	12,971	572	12,011	(66)	1,371	0	0	0	(66)	1,986
2026	0.00%	0	17,965	618	13,588	572	12,583	(221)	1,371	0	0	0	(221)	1,765
2027	0.00%	0	17,965	618	14,206	572	13,155	(221)	1,371	0	0	0	(221)	1,545
2028	0.00%	0	17,965	618	14,823	572	13,727	(221)	1,371	0	0	0	(221)	1,324
2029	0.00%	0	17,965	618	15,441	572	14,299	(221)	1,371	0	0	0	(221)	1,103
2030	0.00%	0	17,965	618	16,058	572	14,871	(221)	1,371	0	0	0	(221)	883
2031	0.00%	0	17,965	618	16,676	572	15,443	(221)	1,371	0	0	0	(221)	662
2032	0.00%	0	17,965	618	17,294	572	16,015	(221)	1,371	0	0	0	(221)	441
2033	0.00%	0	17,965	618	17,912	572	16,587	(221)	1,371	0	0	0	(221)	221
2034	0.00%	0	17,965	618	18,529	572	17,159	(221)	1,371	0	0	0	(221)	0

000292

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(311)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,371
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial Demand Reduction : 2001 - 2004 Installations

(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)
2005	3.75%	674	39	17,912	618	(272)	18,840	18,183	18,512
2006	7.22%	1,297	280	17,294	1,235	8	18,183	17,286	17,735
2007	6.68%	1,199	242	16,676	1,853	250	17,286	16,426	16,856
2008	6.18%	1,110	208	16,059	2,471	458	16,426	15,601	16,014
2009	5.71%	1,026	175	15,441	3,088	633	15,601	14,808	15,205
2010	5.29%	949	146	14,823	3,706	779	14,808	14,045	14,426
2011	4.89%	878	118	14,206	4,324	897	14,045	13,309	13,677
2012	4.52%	812	93	13,588	4,941	989	13,309	12,599	12,954
2013	4.48%	802	89	12,971	5,559	1,078	12,599	11,892	12,246
2014	4.46%	801	89	12,353	6,176	1,167	11,892	11,186	11,539
2015	4.46%	802	89	11,735	6,794	1,255	11,186	10,480	10,833
2016	4.46%	801	89	11,118	7,412	1,344	10,480	9,774	10,127
2017	4.46%	802	89	10,500	8,029	1,432	9,774	9,068	9,421
2018	4.46%	801	89	9,882	8,647	1,521	9,068	8,362	8,715
2019	4.46%	802	89	9,265	9,265	1,609	8,362	7,655	8,009
2020	4.46%	801	89	8,647	9,882	1,698	7,655	6,949	7,302
2021	4.46%	802	89	8,029	10,500	1,786	6,949	6,243	6,596
2022	4.46%	801	89	7,412	11,118	1,875	6,243	5,537	5,890
2023	4.46%	802	89	6,794	11,735	1,963	5,537	4,831	5,184
2024	4.46%	801	89	6,176	12,353	2,052	4,831	4,125	4,478
2025	2.23%	401	(66)	5,559	12,971	1,986	4,125	3,573	3,849
2026	0.00%	0	(221)	4,941	13,588	1,765	3,573	3,176	3,374
2027	0.00%	0	(221)	4,324	14,206	1,545	3,176	2,779	2,977
2028	0.00%	0	(221)	3,706	14,823	1,324	2,779	2,382	2,580
2029	0.00%	0	(221)	3,088	15,441	1,103	2,382	1,985	2,183
2030	0.00%	0	(221)	2,471	16,059	883	1,985	1,588	1,786
2031	0.00%	0	(221)	1,853	16,676	662	1,588	1,191	1,389
2032	0.00%	0	(221)	1,235	17,294	441	1,191	794	992
2033	0.00%	0	(221)	618	17,912	221	794	397	595
2034	0.00%	0	(221)	(0)	18,529	0	397	0	198

000293

\* 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)
1998	-7	0.00%	1.000	0.00%	0.00	0.00
1999	-6	1.78%	1.018	0.00%	0.00	0.00
2000	-5	1.53%	1.033	0.32%	1.72	0.86
2001	-4	2.64%	1.061	0.65%	3.58	3.51
2002	-3	2.62%	1.088	13.85%	78.24	44.42
2003	-2	2.28%	1.113	35.34%	204.20	185.63
2004	-1	2.27%	1.139	49.84%	294.50	434.98

000294

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)* DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	0.86	0.03	0.03	0.09	0.09	0.07	0.07	(0.01)	(0.01)	1.80	1.80
2001	-4	3.59	0.12	0.15	0.37	0.46	0.27	0.34	(0.06)	(0.07)	3.95	5.75
2002	-3	44.88	1.54	1.69	4.63	5.09	3.40	3.74	(0.72)	(0.79)	82.87	88.62
2003	-2	190.72	6.55	8.24	19.72	24.80	14.39	18.13	(3.03)	(3.82)	223.91	312.54
2004	-1	459.79	15.86	24.09	47.73	72.53	34.44	52.57	(7.17)	(10.98)	342.23	654.77
			24.09		72.53		52.57		(10.98)		654.77	

	BOOK BASIS		
	BOOK BASIS	FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	16,477	16,477	16,477
EQUITY AFUDC	1,371		
DEBT AFUDC	682	682	
CPI			1,488
<b>TOTAL</b>	<b>18,529</b>	<b>17,159</b>	<b>17,964</b>

\* Column not specified in workbook

INPUT DATA -- PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Commercial / Industrial Demand Reduction : 2001 - 2004 Installations

(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 PROGRAM FUEL COST (C/kWh)	PROGRAM EFFECTIVENESS FACTOR	PROGRAM EFFECTIVENESS FACTOR
1998	0	0	2.00	4.01	2.00	0.00	1.00	0.29
1999	0	0	2.23	3.92	2.23	0.00	1.00	0.29
2000	0	0	2.45	4.75	2.45	0.00	1.00	0.29
2001	5,502	5,502	2.73	5.52	2.73	0.00	1.00	0.57
2002	11,004	11,004	2.61	3.83	2.61	0.00	1.00	0.36
2003	16,506	16,506	2.60	3.97	2.60	0.00	1.00	0.14
2004	22,008	22,008	2.78	4.48	2.78	0.00	1.00	0.36
2005	22,008	22,008	2.93	5.33	2.93	3.25	1.00	0.50
2006	22,008	22,008	3.01	5.42	3.01	3.34	1.00	1.00
2007	22,008	22,008	3.13	6.29	3.13	3.49	1.00	1.00
2008	22,008	22,008	3.07	5.47	3.07	3.45	1.00	1.00
2009	22,008	22,008	3.15	5.57	3.15	3.60	1.00	1.00
2010	22,008	22,008	3.14	6.05	3.14	3.57	1.00	1.00
2011	22,008	22,008	3.32	6.31	3.32	3.71	1.00	1.00
2012	22,008	22,008	3.38	6.42	3.38	3.77	1.00	1.00
2013	22,008	22,008	3.47	6.48	3.47	3.84	1.00	1.00
2014	22,008	22,008	3.55	6.62	3.55	3.92	1.00	1.00
2015	22,008	22,008	3.58	6.63	3.58	3.95	1.00	1.00
2016	22,008	22,008	3.62	6.58	3.62	4.00	1.00	1.00
2017	22,008	22,008	3.75	7.54	3.75	4.13	1.00	1.00
2018	22,008	22,008	3.93	8.80	3.93	4.35	1.00	1.00
2019	22,008	22,008	4.09	10.25	4.09	4.55	1.00	1.00
2020	22,008	22,008	4.23	10.47	4.23	4.79	1.00	1.00
2021	22,008	22,008	4.32	10.81	4.32	4.88	1.00	1.00
2022	22,008	22,008	4.41	11.31	4.41	4.97	1.00	1.00
2023	22,008	22,008	4.53	11.92	4.53	5.10	1.00	1.00
2024	22,008	22,008	4.64	12.54	4.64	5.23	1.00	1.00

000295

\* 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 Demand Reduction : 2001 - 2004 Installations

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	3,611	1,296	182	4,885	7,324	2,649
2006	3,497	1,347	192	5,119	7,748	2,407
2007	3,369	1,401	201	5,273	8,211	2,032
2008	3,246	1,457	206	5,335	8,103	2,141
2009	3,128	1,516	209	5,341	8,353	1,840
2010	3,014	1,576	207	5,200	7,978	2,018
2011	2,904	1,639	213	5,275	8,299	1,732
2012	2,799	1,705	219	5,428	8,431	1,721
2013	2,695	1,773	223	5,594	8,502	1,783
2014	2,592	1,844	227	5,757	8,593	1,827
2015	2,489	1,918	233	5,860	8,647	1,853
2016	2,386	1,994	238	5,959	8,674	1,902
2017	2,282	2,074	246	6,140	8,996	1,746
2018	2,179	2,157	254	6,328	9,503	1,415
2019	2,076	2,244	264	6,551	10,043	1,091
2020	1,973	2,333	271	6,747	10,577	748
2021	1,870	2,427	279	6,895	10,770	701
2022	1,766	2,524	287	7,055	10,975	657
2023	1,663	2,625	296	7,964	11,244	1,304
2024	1,560	2,730	304	7,964	11,536	1,022

000296

NOM	51,098	38,580	4751	120,670	182,508	32,591
NPV	15,547	9,441	1210	30,910	46,968	10,140

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial Demand Reduction : 2001 - 2004 Installations

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9a)*
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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	9	1
2002	0	0	0	0	0	0	10	3
2003	0	0	0	0	0	0	7	2
2004	0	0	0	0	0	0	30	7
2005	0	0	0	0	0	0	58	11
2006	0	0	0	0	0	0	118	23
2007	0	0	0	0	0	0	139	24
2008	0	0	0	0	0	0	119	23
2009	0	0	0	0	0	0	121	24
2010	0	0	0	0	0	0	133	24
2011	0	0	0	0	0	0	138	25
2012	0	0	0	0	0	0	141	25
2013	0	0	0	0	0	0	142	26
2014	0	0	0	0	0	0	145	27
2015	0	0	0	0	0	0	145	27
2016	0	0	0	0	0	0	143	27
2017	0	0	0	0	0	0	167	28
2018	0	0	0	0	0	0	197	30
2019	0	0	0	0	0	0	233	31
2020	0	0	0	0	0	0	238	32
2021	0	0	0	0	0	0	246	32
2022	0	0	0	0	0	0	258	33
2023	0	0	0	0	0	0	273	34
2024	0	0	0	0	0	0	288	35

000297

NOM.	0	0	0	0	0	0	3,496	552
NPV	0	0	0	0	0	0	835	143

\* 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 : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	45	0	0	45	0	0	7	0	7	(38)	(29)
2002	0	91	0	0	91	0	0	7	0	7	(84)	(88)
2003	0	140	0	0	140	0	0	6	0	6	(134)	(176)
2004	0	188	0	0	188	0	0	23	0	23	(164)	(274)
2005	0	189	0	0	189	2,849	0	47	0	2,896	2,508	1,100
2006	0	190	0	0	190	2,407	0	95	0	2,503	2,313	2,263
2007	0	191	0	0	191	2,032	0	115	0	2,148	1,957	3,166
2008	0	196	0	0	196	2,141	0	96	0	2,237	2,041	4,030
2009	0	201	0	0	201	1,840	0	97	0	1,937	1,736	4,704
2010	0	206	0	0	206	2,018	0	109	0	2,128	1,921	5,389
2011	0	212	0	0	212	1,732	0	113	0	1,846	1,634	5,923
2012	0	218	0	0	218	1,721	0	115	0	1,836	1,618	6,409
2013	0	225	0	0	225	1,783	0	115	0	1,899	1,674	6,870
2014	0	231	0	0	231	1,827	0	118	0	1,945	1,714	7,303
2015	0	238	0	0	238	1,853	0	118	0	1,971	1,733	7,705
2016	0	245	0	0	245	1,902	0	116	0	2,018	1,774	8,083
2017	0	252	0	0	252	1,746	0	139	0	1,885	1,633	8,402
2018	0	259	0	0	259	1,415	0	168	0	1,583	1,324	8,639
2019	0	267	0	0	267	1,091	0	202	0	1,293	1,026	8,808
2020	0	274	0	0	274	748	0	206	0	954	679	8,910
2021	0	282	0	0	282	701	0	213	0	914	632	8,998
2022	0	290	0	0	290	657	0	225	0	882	592	9,073
2023	0	299	0	0	299	1,304	0	239	0	1,542	1,243	9,218
2024	0	308	0	0	308	1,022	0	253	0	1,275	968	9,322

000298

NOM	0	5,236	0	0	5,236	32,591	0	2,944	0	35,534	30,299
NPV	0	1,511	0	0	1,511	10,140	0	692	0	10,832	9,322

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 7.17

**PARTICIPANT COSTS AND BENEFITS**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Commercial / Industrial Demand Reduction : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	1	0	157	0	157	0	0	0	0	157	122
2002	1	0	471	0	472	0	0	0	0	472	456
2003	1	0	784	0	785	0	0	0	0	785	967
2004	3	0	1,098	0	1,101	0	0	0	0	1,101	1,624
2005	4	0	1,255	0	1,259	0	0	0	0	1,259	2,314
2006	8	0	1,255	0	1,263	0	0	0	0	1,263	2,949
2007	8	0	1,255	0	1,263	0	0	0	0	1,263	3,532
2008	9	0	1,255	0	1,263	0	0	0	0	1,263	4,067
2009	9	0	1,255	0	1,263	0	0	0	0	1,263	4,557
2010	9	0	1,255	0	1,264	0	0	0	0	1,264	5,008
2011	9	0	1,255	0	1,264	0	0	0	0	1,264	5,422
2012	9	0	1,255	0	1,264	0	0	0	0	1,264	5,801
2013	10	0	1,255	0	1,264	0	0	0	0	1,264	6,149
2014	10	0	1,255	0	1,265	0	0	0	0	1,265	6,469
2015	10	0	1,255	0	1,265	0	0	0	0	1,265	6,763
2016	10	0	1,255	0	1,265	0	0	0	0	1,265	7,032
2017	10	0	1,255	0	1,265	0	0	0	0	1,265	7,279
2018	10	0	1,255	0	1,265	0	0	0	0	1,265	7,506
2019	10	0	1,255	0	1,265	0	0	0	0	1,265	7,714
2020	11	0	1,255	0	1,265	0	0	0	0	1,265	7,905
2021	11	0	1,255	0	1,266	0	0	0	0	1,266	8,080
2022	11	0	1,255	0	1,266	0	0	0	0	1,266	8,241
2023	11	0	1,255	0	1,266	0	0	0	0	1,266	8,388
2024	11	0	1,255	0	1,266	0	0	0	0	1,266	8,524
NOM	195	0	27,608	0	27,803	0	0	0	0	27,803	
NPV	52	0	8,472	0	8,524	0	0	0	0	8,524	

000299

In Service of Gen Unit: 2005  
 Discount Rate : 8.98 %  
 Benefit/Cost Ratio ( Col(6) / Col(10)) Infinite

**RATE IMPACT TEST**  
**PROGRAM METHOD SELECTED: REV\_REQ**  
**PROGRAM NAME Commercial / Industrial Demand Reduction : 2001 - 2004 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	45	157	1	0	202	7	0	0	0	7	(195)	(151)
2002	0	91	471	1	0	563	7	0	0	0	7	(556)	(545)
2003	0	140	784	1	0	925	6	0	0	0	6	(919)	(1,143)
2004	0	188	1,098	3	0	1,288	23	0	0	0	23	(1,265)	(1,898)
2005	0	189	1,255	4	0	1,448	2,696	0	0	0	2,696	1,249	(1,214)
2006	0	190	1,255	8	0	1,453	2,503	0	0	0	2,503	1,050	(686)
2007	0	191	1,255	8	0	1,454	2,148	0	0	0	2,148	693	(366)
2008	0	196	1,255	9	0	1,459	2,237	0	0	0	2,237	777	(37)
2009	0	201	1,255	9	0	1,464	1,937	0	0	0	1,937	473	147
2010	0	206	1,255	9	0	1,470	2,128	0	0	0	2,128	657	381
2011	0	212	1,255	9	0	1,476	1,846	0	0	0	1,846	369	502
2012	0	218	1,255	9	0	1,483	1,836	0	0	0	1,836	353	608
2013	0	225	1,255	10	0	1,489	1,899	0	0	0	1,899	410	721
2014	0	231	1,255	10	0	1,496	1,945	0	0	0	1,945	450	834
2015	0	238	1,255	10	0	1,503	1,971	0	0	0	1,971	468	943
2016	0	245	1,255	10	0	1,510	2,018	0	0	0	2,018	509	1,051
2017	0	252	1,255	10	0	1,517	1,885	0	0	0	1,885	368	1,123
2018	0	259	1,255	10	0	1,524	1,583	0	0	0	1,583	58	1,133
2019	0	267	1,255	10	0	1,532	1,293	0	0	0	1,293	(239)	1,094
2020	0	274	1,255	11	0	1,540	954	0	0	0	954	(586)	1,006
2021	0	282	1,255	11	0	1,548	914	0	0	0	914	(634)	918
2022	0	290	1,255	11	0	1,556	882	0	0	0	882	(674)	832
2023	0	299	1,255	11	0	1,565	1,542	0	0	0	1,542	(23)	830
2024	0	308	1,255	11	0	1,574	1,275	0	0	0	1,275	(298)	798

000300

NOM.	0	5,236	27,608	195	0	33,039	35,534	0	0	0	35,534	2,495
NPV	0	1,511	8,472	52	0	10,035	10,832	0	0	0	10,832	798

Discount Rate 8.98 %  
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.08

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: COMMERCIAL/INDUSTRIAL DEMAND REDUCTION (2001 - 2004)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: GS

- (1) UTILITY NON RECURRING COST PER CUSTOMER
- (2) UTILITY RECURRING COST PER CUSTOMER
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)
- (6) CUSTOMER O&M COST
- (12) UTILITY NON RECURRING REBATE/INCENTIVE
- (13) UTILITY RECURRING REBATE/INCENTIVE
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02

RATE CLASS: GSD

- (1) UTILITY NON RECURRING COST PER CUSTOMER      \$    6.81
- (2) UTILITY RECURRING COST PER CUSTOMER
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)      \$    -
- (6) CUSTOMER O&M COST      \$    -
- (12) UTILITY NON RECURRING REBATE/INCENTIVE      \$    -
- (13) UTILITY RECURRING REBATE/INCENTIVE      \$ 57.02
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE      0%

000301



INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: COMMERCIAL/INDUSTRIAL DEMAND REDUCTION (2001 - 2004)

RATE CLASS: GSLD	MEASURES	
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$	6.81
(2) UTILITY RECURRING COST PER CUSTOMER		
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$	-
(6) CUSTOMER O&M COST	\$	-
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$	-
(13) UTILITY RECURRING REBATE/INCENTIVE	\$	57.02
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE		0%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000302

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Commercial / Industrial Demand Reduction : 2005 - 2007 Installations

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	1.00 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.29 kW
(3) kW LINE LOSS PERCENTAGE .....	9.01 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	85.4 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	7.02 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.0000
(7) CUSTOMER kWh INCREASE AT METER .....	31.8 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM ....	30 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.81528
(5) K FACTOR FOR T & D .....	1.46985

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 .....	8.98 %
(11) UTILITY AFUDC RATE .....	10.30 %
(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 .....	1998
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT ....	2008
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2001-2008
(4) BASE YEAR AVOIDED GENERATING COST .....	519 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	0 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	0 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	1.78 %**
(8) GENERATOR FIXED O & M COST .....	34 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	4.10 %**
(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 .....	4.10 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.067 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.70 %**
(15) GENERATOR CAPACITY FACTOR .....	92% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	2.27 CENTS PER kWh** (In-service y
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE ....	1.45 %**

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.

000303

\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Commercial / Industrial Demand Reduction : 2005 - 2007 Installations

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)
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0
2005	50	157	0	207	0	1	0	0	0	0
2006	93	444	0	537	0	3	0	0	0	0
2007	138	706	0	844	0	5	0	0	0	0
2008	138	837	0	974	0	6	0	0	0	0
2009	138	837	0	975	0	6	0	0	0	0
2010	138	837	0	975	0	6	0	0	0	0
2011	142	837	0	979	0	6	0	0	0	0
2012	146	837	0	982	0	6	0	0	0	0
2013	150	837	0	986	0	6	0	0	0	0
2014	154	837	0	991	0	7	0	0	0	0
2015	159	837	0	995	0	7	0	0	0	0
2016	163	837	0	1,000	0	7	0	0	0	0
2017	168	837	0	1,004	0	7	0	0	0	0
2018	173	837	0	1,009	0	7	0	0	0	0
2019	178	837	0	1,014	0	7	0	0	0	0
2020	183	837	0	1,019	0	7	0	0	0	0
2021	188	837	0	1,025	0	7	0	0	0	0
2022	194	837	0	1,030	0	7	0	0	0	0
2023	199	837	0	1,036	0	7	0	0	0	0
2024	205	837	0	1,042	0	7	0	0	0	0
2025	211	837	0	1,048	0	8	0	0	0	0
2026	217	837	0	1,054	0	8	0	0	0	0
2027	223	837	0	1,060	0	8	0	0	0	0
NOM	3,747	18,039	0	21,786	0	144	0	0	0	0
NPV	816	4,164	0	4,980	0	31	0	0	0	0

000304

\* 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 Demand Reduction : 2005 - 2007 Installations

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
MID-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	OTHER TAXES & INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)
2008	13,165	450	0	905	561	184	439	28	2,568	2,568
2009	12,612	431	0	867	366	184	439	199	2,487	4,850
2010	11,987	410	0	824	368	184	439	172	2,396	6,867
2011	11,388	389	0	783	364	184	439	148	2,308	8,651
2012	10,813	370	0	743	363	184	439	125	2,224	10,228
2013	10,259	351	0	705	360	184	439	104	2,143	11,623
2014	9,728	333	0	669	358	184	439	84	2,065	12,856
2015	9,212	315	0	633	352	184	439	66	1,990	13,946
2016	8,709	298	0	599	333	184	439	63	1,917	14,910
2017	8,206	281	0	564	312	184	439	63	1,843	15,780
2018	7,704	263	0	530	290	184	439	63	1,770	16,509
2019	7,202	246	0	495	268	184	439	63	1,697	17,169
2020	6,700	229	0	461	247	184	439	63	1,623	17,747
2021	6,198	212	0	426	225	184	439	63	1,550	18,254
2022	5,695	195	0	392	203	184	439	63	1,476	18,697
2023	5,193	178	0	357	182	184	439	63	1,403	19,084
2024	4,691	160	0	323	160	184	439	63	1,330	19,420
2025	4,189	143	0	288	138	184	439	63	1,256	19,711
2026	3,687	126	0	253	117	184	439	63	1,183	19,963
2027	3,184	109	0	219	95	184	439	63	1,109	20,180
2028	2,737	94	0	188	186	184	439	(47)	1,044	20,367
2029	2,400	82	0	165	281	184	439	(157)	995	20,530
2030	2,117	72	0	146	269	184	439	(157)	954	20,674
2031	1,835	63	0	128	257	184	439	(157)	912	20,801
2032	1,553	53	0	107	244	184	439	(157)	871	20,911
2033	1,270	43	0	87	232	184	439	(157)	830	21,008
2034	988	34	0	68	220	184	439	(157)	789	21,093
2035	706	24	0	49	208	184	439	(157)	747	21,166
2036	423	14	0	29	196	184	439	(157)	706	21,230
2037	141	5	0	10	183	184	439	(157)	665	21,284

000305

IN SERVICE COS (\$000)	13,177
IN SERVICE YEAR	2008
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.98%
OTAX & INS RATE	1.40%

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	45%	7.60 %
P/S	0%	0.00 %
C/S	55%	12.50 %

K-FACTOR = CPWFC / IN-SVC COST = 1.61528

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial Demand

(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)
2008	3.75%	479	479	439	439	407	407	28	976	0	0	0	28	(193)
2009	7.22%	922	1,401	439	878	407	813	199	976	0	0	0	199	6
2010	6.68%	853	2,254	439	1,318	407	1,220	172	976	0	0	0	172	178
2011	6.18%	789	3,044	439	1,757	407	1,627	148	976	0	0	0	148	325
2012	5.71%	730	3,774	439	2,196	407	2,034	125	976	0	0	0	125	450
2013	5.29%	675	4,449	439	2,635	407	2,440	104	976	0	0	0	104	554
2014	4.89%	624	5,073	439	3,075	407	2,847	84	976	0	0	0	84	638
2015	4.52%	578	5,651	439	3,514	407	3,254	66	976	0	0	0	66	703
2016	4.46%	570	6,221	439	3,953	407	3,660	63	976	0	0	0	63	766
2017	4.46%	570	6,791	439	4,392	407	4,067	63	976	0	0	0	63	829
2018	4.46%	570	7,361	439	4,832	407	4,474	63	976	0	0	0	63	892
2019	4.46%	570	7,931	439	5,271	407	4,881	63	976	0	0	0	63	955
2020	4.46%	570	8,501	439	5,710	407	5,287	63	976	0	0	0	63	1,018
2021	4.46%	570	9,071	439	6,149	407	5,694	63	976	0	0	0	63	1,081
2022	4.46%	570	9,641	439	6,588	407	6,101	63	976	0	0	0	63	1,144
2023	4.46%	570	10,210	439	7,028	407	6,507	63	976	0	0	0	63	1,207
2024	4.46%	570	10,780	439	7,467	407	6,914	63	976	0	0	0	63	1,270
2025	4.46%	570	11,350	439	7,906	407	7,321	63	976	0	0	0	63	1,333
2026	4.46%	570	11,920	439	8,345	407	7,728	63	976	0	0	0	63	1,396
2027	4.46%	570	12,490	439	8,785	407	8,134	63	976	0	0	0	63	1,459
2028	2.23%	285	12,775	439	9,224	407	8,541	(47)	976	0	0	0	(47)	1,412
2029	0.00%	0	12,775	439	9,663	407	8,948	(157)	976	0	0	0	(157)	1,255
2030	0.00%	0	12,775	439	10,102	407	9,354	(157)	976	0	0	0	(157)	1,098
2031	0.00%	0	12,775	439	10,542	407	9,761	(157)	976	0	0	0	(157)	941
2032	0.00%	0	12,775	439	10,981	407	10,168	(157)	976	0	0	0	(157)	785
2033	0.00%	0	12,775	439	11,420	407	10,575	(157)	976	0	0	0	(157)	628
2034	0.00%	0	12,775	439	11,859	407	10,981	(157)	976	0	0	0	(157)	471
2035	0.00%	0	12,775	439	12,299	407	11,388	(157)	976	0	0	0	(157)	314
2036	0.00%	0	12,775	439	12,738	407	11,795	(157)	976	0	0	0	(157)	157
2037	0.00%	0	12,775	439	13,177	407	12,201	(157)	976	0	0	0	(157)	0

000306

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(221)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	976
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAI Commercial / Industrial Demand Reduction : 2005 - 2007 Installations

(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)	ACCUMULATE DEPRECIATION \$(000)	ACCUMULATE DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2008	3.75%	479	28	12,738	439	(193)	13,398	12,931	13,165
2009	7.22%	922	199	12,299	878	6	12,931	12,293	12,612
2010	6.68%	853	172	11,859	1,318	178	12,293	11,682	11,987
2011	6.18%	789	148	11,420	1,757	325	11,682	11,095	11,388
2012	5.71%	730	125	10,981	2,196	450	11,095	10,531	10,813
2013	5.29%	675	104	10,542	2,635	554	10,531	9,988	10,259
2014	4.89%	624	84	10,102	3,075	638	9,988	9,465	9,726
2015	4.52%	578	66	9,663	3,514	703	9,465	8,960	9,212
2016	4.46%	570	63	9,224	3,953	766	8,960	8,457	8,709
2017	4.46%	570	63	8,785	4,392	829	8,457	7,955	8,206
2018	4.46%	570	63	8,345	4,832	892	7,955	7,453	7,704
2019	4.46%	570	63	7,906	5,271	955	7,453	6,951	7,202
2020	4.46%	570	63	7,467	5,710	1,018	6,951	6,449	6,700
2021	4.46%	570	63	7,028	6,149	1,081	6,449	5,946	6,198
2022	4.46%	570	63	6,588	6,588	1,144	5,946	5,444	5,695
2023	4.46%	570	63	6,149	7,028	1,207	5,444	4,942	5,193
2024	4.46%	570	63	5,710	7,467	1,270	4,942	4,440	4,691
2025	4.46%	570	63	5,271	7,906	1,333	4,440	3,938	4,189
2026	4.46%	570	63	4,832	8,345	1,396	3,938	3,435	3,687
2027	4.46%	570	63	4,392	8,785	1,459	3,435	2,933	3,184
2028	2.23%	285	(47)	3,953	9,224	1,412	2,933	2,541	2,737
2029	0.00%	0	(157)	3,514	9,663	1,255	2,541	2,259	2,400
2030	0.00%	0	(157)	3,075	10,102	1,098	2,259	1,976	2,117
2031	0.00%	0	(157)	2,635	10,542	941	1,976	1,694	1,835
2032	0.00%	0	(157)	2,196	10,981	785	1,694	1,412	1,553
2033	0.00%	0	(157)	1,757	11,420	628	1,412	1,129	1,270
2034	0.00%	0	(157)	1,318	11,859	471	1,129	847	988
2035	0.00%	0	(157)	878	12,299	314	847	565	706
2036	0.00%	0	(157)	439	12,738	157	565	282	423
2037	0.00%	0	(157)	(0)	13,177	0	282	0	141

000307

\* 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)
1998	-10	0.00%	1.000	0.00%	0.00	0.00
1999	-9	1.78%	1.018	0.00%	0.00	0.00
2000	-8	1.53%	1.033	0.00%	0.00	0.00
2001	-7	2.64%	1.061	0.00%	0.00	0.00
2002	-6	2.62%	1.088	0.00%	0.00	0.00
2003	-5	2.28%	1.113	0.32%	1.85	0.92
2004	-4	2.27%	1.139	0.65%	3.84	3.77
2005	-3	2.19%	1.164	13.85%	83.63	47.51
2006	-2	2.11%	1.188	35.34%	217.90	198.28
2007	-1	2.11%	1.213	49.84%	313.79	464.12

100.00% 621.01

(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)
1998	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	-5	0.92	0.03	0.03	0.10	0.10	0.07	(0.01)	1.94	1.94
2004	-4	3.86	0.13	0.16	0.40	0.49	0.29	(0.06)	4.24	6.18
2005	-3	48.00	1.64	1.81	4.95	5.44	3.64	(0.77)	88.58	94.77
2006	-2	203.72	7.00	8.80	21.06	28.50	15.37	(3.23)	238.96	333.73
2007	-1	490.63	16.92	25.72	50.93	77.43	36.75	(7.65)	364.72	698.45
		25.72		77.43		56.12		(11.72)	698.45	

000308

IN SERVICE YEAR 2008  
PLANT COSTS 519  
AFUDC RATE 10.30%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	11,716	11,716	11,716
EQUITY AFUDC	976		
DEBT AFUDC	485	485	
CPI			1,059
<b>TOTAL</b>	<b>13,177</b>	<b>12,201</b>	<b>12,775</b>

\* Column not specified in workbook

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME Commercial / Industrial Demand Reduction : 2005 - 2007 Installations

(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 PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR	
1998	0	0	2.00	4.01	2.00	0.00	1.00	0.29
1999	0	0	2.23	3.92	2.23	0.00	1.00	0.29
2000	0	0	2.45	4.75	2.45	0.00	1.00	0.29
2001	0	0	2.73	5.52	2.73	0.00	1.00	0.57
2002	0	0	2.61	3.63	2.61	0.00	1.00	0.36
2003	0	0	2.80	3.97	2.60	0.00	1.00	0.14
2004	0	0	2.78	4.48	2.78	0.00	1.00	0.36
2005	5,502	5,502	2.84	4.72	2.84	0.00	1.00	0.50
2006	10,087	10,087	2.91	4.86	2.91	0.00	1.00	1.00
2007	14,672	14,672	3.02	5.69	3.02	0.00	1.00	1.00
2008	14,672	14,672	3.07	5.47	3.07	3.49	1.00	1.00
2009	14,672	14,672	3.14	5.55	3.14	3.69	1.00	1.00
2010	14,672	14,672	3.14	6.06	3.14	3.64	1.00	1.00
2011	14,672	14,672	3.31	6.32	3.31	3.75	1.00	1.00
2012	14,672	14,672	3.38	6.42	3.38	3.81	1.00	1.00
2013	14,672	14,672	3.47	6.46	3.47	3.86	1.00	1.00
2014	14,672	14,672	3.55	6.62	3.55	3.92	1.00	1.00
2015	14,672	14,672	3.58	6.64	3.58	3.94	1.00	1.00
2016	14,672	14,672	3.62	6.58	3.62	3.98	1.00	1.00
2017	14,672	14,672	3.75	7.55	3.75	4.12	1.00	1.00
2018	14,672	14,672	3.93	8.80	3.93	4.33	1.00	1.00
2019	14,672	14,672	4.09	10.27	4.09	4.54	1.00	1.00
2020	14,672	14,672	4.23	10.47	4.23	4.76	1.00	1.00
2021	14,672	14,672	4.34	11.01	4.34	4.88	1.00	1.00
2022	14,672	14,672	4.45	11.62	4.45	5.00	1.00	1.00
2023	14,672	14,672	4.56	12.32	4.56	5.13	1.00	1.00
2024	14,672	14,672	4.67	13.11	4.67	5.27	1.00	1.00
2025	14,672	14,672	4.80	14.04	4.80	5.42	1.00	1.00
2026	14,672	14,672	4.94	15.14	4.94	5.59	1.00	1.00
2027	14,672	14,672	5.07	15.14	4.94	5.59	1.00	1.00

000309

\* 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 Demand Reduction : 2005 - 2007 Installations**

YEAR	(2) AVOIDED GEN UNIT CAPACITY COS \$(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)
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	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	2,568	964	134	3,469	5,333	1,802
2009	2,487	1,003	132	3,390	5,420	1,592
2010	2,396	1,043	132	3,327	5,188	1,710
2011	2,308	1,085	139	3,460	5,490	1,502
2012	2,224	1,128	143	3,554	5,573	1,477
2013	2,143	1,173	149	3,737	5,694	1,508
2014	2,065	1,220	154	3,910	5,817	1,533
2015	1,990	1,269	158	3,980	5,850	1,548
2016	1,917	1,320	163	4,093	5,918	1,574
2017	1,843	1,372	168	4,203	6,122	1,465
2018	1,770	1,427	173	4,322	6,461	1,231
2019	1,697	1,484	179	4,455	6,797	1,017
2020	1,623	1,544	184	4,588	7,128	812
2021	1,550	1,606	190	4,709	7,300	754
2022	1,476	1,670	195	4,832	7,482	691
2023	1,403	1,737	201	4,951	7,678	613
2024	1,330	1,806	207	5,065	7,888	519
2025	1,256	1,878	212	5,184	8,120	411
2026	1,183	1,953	219	5,304	8,376	283
2027	1,109	2,032	225	5,425	8,376	416
NOM	36,339	28,714	3457	85,960	132,011	22,458
NPV	8,543	5,430	672	16,825	25,830	5,639

000310

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial Demand Reduction : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	6	1
2006	0	0	0	0	0	0	37	8
2007	0	0	0	0	0	0	70	13
2008	0	0	0	0	0	0	79	15
2009	0	0	0	0	0	0	80	16
2010	0	0	0	0	0	0	89	16
2011	0	0	0	0	0	0	92	17
2012	0	0	0	0	0	0	94	17
2013	0	0	0	0	0	0	94	17
2014	0	0	0	0	0	0	96	18
2015	0	0	0	0	0	0	97	18
2016	0	0	0	0	0	0	96	18
2017	0	0	0	0	0	0	111	19
2018	0	0	0	0	0	0	132	20
2019	0	0	0	0	0	0	156	21
2020	0	0	0	0	0	0	159	21
2021	0	0	0	0	0	0	167	22
2022	0	0	0	0	0	0	177	22
2023	0	0	0	0	0	0	189	23
2024	0	0	0	0	0	0	201	23
2025	0	0	0	0	0	0	216	24
2026	0	0	0	0	0	0	235	25
2027	0	0	0	0	0	0	234	25
NOM.	0	0	0	0	0	0	2,906	418
NPV	0	0	0	0	0	0	548	88

000311

\* 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 : 2005 - 2007 Installations**

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	50	0	0	50	0	0	5	0	5	(45)	(24)
2006	0	93	0	0	93	0	0	29	0	29	(64)	(57)
2007	0	138	0	0	138	0	0	57	0	57	(81)	(94)
2008	0	138	0	0	138	1,802	0	64	0	1,866	1,728	638
2009	0	138	0	0	138	1,592	0	64	0	1,657	1,519	1,228
2010	0	138	0	0	138	1,710	0	73	0	1,783	1,645	1,814
2011	0	142	0	0	142	1,502	0	76	0	1,578	1,436	2,284
2012	0	146	0	0	146	1,477	0	77	0	1,554	1,408	2,706
2013	0	150	0	0	150	1,508	0	77	0	1,584	1,435	3,102
2014	0	154	0	0	154	1,533	0	79	0	1,612	1,458	3,470
2015	0	159	0	0	159	1,548	0	79	0	1,627	1,468	3,811
2016	0	163	0	0	163	1,574	0	77	0	1,652	1,489	4,128
2017	0	168	0	0	168	1,465	0	93	0	1,558	1,390	4,399
2018	0	173	0	0	173	1,231	0	112	0	1,343	1,170	4,609
2019	0	178	0	0	178	1,017	0	135	0	1,152	975	4,769
2020	0	183	0	0	183	812	0	137	0	949	766	4,885
2021	0	188	0	0	188	754	0	146	0	900	711	4,983
2022	0	194	0	0	194	691	0	155	0	846	652	5,066
2023	0	199	0	0	199	613	0	166	0	779	579	5,134
2024	0	205	0	0	205	519	0	178	0	697	492	5,186
2025	0	211	0	0	211	411	0	192	0	603	392	5,225
2026	0	217	0	0	217	283	0	210	0	493	276	5,250
2027	0	223	0	0	223	416	0	209	0	624	401	5,283
NOM	0	3,747	0	0	3,747	22,458	0	2,488	0	24,947	21,200	
NPV	0	816	0	0	816	5,639	0	460	0	6,099	5,283	

000312

Discount Rate: 8.98 %  
 Benefit/Cost Ratio (Col(11) / Col(6)) : 7.47

PARTICIPANT COSTS AND BENEFITS  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Commercial / Industrial Demand Reduction : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0
2005	1	0	157	0	157	0	0	0	0	157	86
2006	3	0	444	0	447	0	0	0	0	447	311
2007	5	0	706	0	711	0	0	0	0	711	639
2008	6	0	837	0	842	0	0	0	0	842	996
2009	6	0	837	0	842	0	0	0	0	842	1,323
2010	6	0	837	0	843	0	0	0	0	843	1,623
2011	6	0	837	0	843	0	0	0	0	843	1,899
2012	6	0	837	0	843	0	0	0	0	843	2,152
2013	6	0	837	0	843	0	0	0	0	843	2,384
2014	7	0	837	0	843	0	0	0	0	843	2,597
2015	7	0	837	0	843	0	0	0	0	843	2,793
2016	7	0	837	0	843	0	0	0	0	843	2,972
2017	7	0	837	0	843	0	0	0	0	843	3,137
2018	7	0	837	0	843	0	0	0	0	843	3,268
2019	7	0	837	0	844	0	0	0	0	844	3,427
2020	7	0	837	0	844	0	0	0	0	844	3,554
2021	7	0	837	0	844	0	0	0	0	844	3,671
2022	7	0	837	0	844	0	0	0	0	844	3,778
2023	7	0	837	0	844	0	0	0	0	844	3,877
2024	7	0	837	0	844	0	0	0	0	844	3,967
2025	8	0	837	0	844	0	0	0	0	844	4,050
2026	8	0	837	0	844	0	0	0	0	844	4,126
2027	8	0	837	0	844	0	0	0	0	844	4,196
NOM	144	0	18,039	0	18,183	0	0	0	0	18,183	
NPV	31	0	4,164	0	4,196	0	0	0	0	4,196	

000313

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

2008  
 8.98 %  
Infinite

**RATE IMPACT TEST**  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME Commercial / Industrial Demand Reduction : 2005 - 2007 Installations

(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)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	50	157	1	0	207	5	0	0	0	5	(202)	(111)
2006	0	93	444	3	0	540	29	0	0	0	29	(511)	(368)
2007	0	138	706	5	0	849	57	0	0	0	57	(791)	(733)
2008	0	138	837	6	0	980	1,866	0	0	0	1,866	886	(358)
2009	0	138	837	6	0	980	1,657	0	0	0	1,657	676	(95)
2010	0	138	837	6	0	981	1,783	0	0	0	1,783	802	191
2011	0	142	837	6	0	985	1,578	0	0	0	1,578	593	385
2012	0	146	837	6	0	988	1,554	0	0	0	1,554	565	555
2013	0	150	837	6	0	993	1,584	0	0	0	1,584	592	718
2014	0	154	837	7	0	997	1,612	0	0	0	1,612	614	873
2015	0	159	837	7	0	1,002	1,627	0	0	0	1,627	625	1,018
2016	0	163	837	7	0	1,006	1,652	0	0	0	1,652	645	1,155
2017	0	168	837	7	0	1,011	1,558	0	0	0	1,558	547	1,262
2018	0	173	837	7	0	1,016	1,343	0	0	0	1,343	327	1,320
2019	0	178	837	7	0	1,021	1,152	0	0	0	1,152	131	1,342
2020	0	183	837	7	0	1,027	949	0	0	0	949	(78)	1,330
2021	0	188	837	7	0	1,032	900	0	0	0	900	(132)	1,312
2022	0	194	837	7	0	1,038	846	0	0	0	846	(192)	1,288
2023	0	199	837	7	0	1,043	779	0	0	0	779	(265)	1,257
2024	0	205	837	7	0	1,049	697	0	0	0	697	(352)	1,219
2025	0	211	837	8	0	1,055	603	0	0	0	603	(452)	1,175
2026	0	217	837	8	0	1,061	493	0	0	0	493	(568)	1,123
2027	0	223	837	8	0	1,068	624	0	0	0	624	(443)	1,087
NOM	0	3,747	18,039	144	0	21,930	24,947	0	0	0	24,947	3,016	
NPV	0	816	4,164	31	0	5,012	6,099	0	0	0	6,099	1,087	

413000

Discount Rate 8.98 %  
Benefit/Cost Ratio (Col(12) / Col(7)) : 1.22

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: COMMERCIAL/INDUSTRIAL DEMAND REDUCTION (2005 - 2007)

MEASURES

III. UTILITY & CUSTOMER COSTS - \$ PER CUSTOMER)

III. (3,5,7,9) ESCALATION RATES

RATE CLASS: GS

- (1) UTILITY NON RECURRING COST PER CUSTOMER
- (2) UTILITY RECURRING COST PER CUSTOMER
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)
- (6) CUSTOMER O&M COST
- (12) UTILITY NON RECURRING REBATE/INCENTIVE
- (13) UTILITY RECURRING REBATE/INCENTIVE
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE

RATE CLASS: GSD

- (1) UTILITY NON RECURRING COST PER CUSTOMER      \$ 6.81
- (2) UTILITY RECURRING COST PER CUSTOMER
- (4) CUSTOMER EQUIPMENT COST (INCREMENTAL)      \$ -
- (6) CUSTOMER O&M COST      \$ -
- (12) UTILITY NON RECURRING REBATE/INCENTIVE      \$ -
- (13) UTILITY RECURRING REBATE/INCENTIVE      \$ 57.02
- (14) UTILITY REBATE/INCENTIVE ESCALATION RATE      0%

	CPI	Blended Cap Rate
1998	2.30	1.00
1999	2.70	1.78
2000	2.70	1.53
2001	2.60	2.64
2002	2.60	2.62
2003	2.70	2.28
2004	2.60	2.27
2005	2.70	2.19
2006	2.70	2.11
2007	2.70	2.11
2008	2.80	2.02
2009	2.80	2.19
2010	2.80	2.02
2011	2.80	2.02
2012	2.90	2.02
2013	2.90	2.02
2014	2.90	2.02
2015	2.90	2.02
2016	2.90	2.02
2017	2.90	2.02
2018	2.90	2.02
2019	2.90	2.02
2020	2.90	2.02
2021	2.90	2.02
2022	2.90	2.02
2023	2.90	2.02
2024	2.90	2.02
2025	2.90	2.02
2026	2.90	2.02
2027	2.90	2.02

000315

INPUT DATA - CONTINUED  
PROGRAM METHOD SELECTED: REV REQ  
PROGRAM NAME: COMMERCIAL/INDUSTRIAL DEMAND REDUCTION (2005 - 2007)

RATE CLASS: GSLD	MEASURES		
(1) UTILITY NON RECURRING COST PER CUSTOMER	\$	6.81	
(2) UTILITY RECURRING COST PER CUSTOMER			
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	\$	-	
(6) CUSTOMER O&M COST	\$	-	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	\$	-	
(13) UTILITY RECURRING REBATE/INCENTIVE	\$	57.02	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE		0%	

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD
(1) NON FUEL COST IN CUSTOMER BILL (c/KWH)	4.572	1.893	1.585
(2) NON FUEL ESCALATION RATE	0.0%	0.0%	0.0%
(3) DEMAND CHARGE IN CUSTOMER BILL (\$/KW/Month)	N/A	7.74	7.78
(4) DEMAND CHARGE ESCALATION RATE	N/A	-0.5%	-0.5%

000316