



ORIGINAL
07 JUL 12 PM 4:13
RECEIVED-FPSC
COMMISSION CLERK
BUN

July 11, 2007

Ms. Ann Cole
Office of the Clerk
Florida Public Service Commission
Betty Easley Conference Center
2540 Shumard Oak Boulevard, Room 110
Tallahassee, FL 32399-0850

Re: Docket No. 070376-EG – Petition for Approval of Residential Thermostat Load Control Pilot Project by Florida Power & Light Company

Dear Clerk Cole:

Enclosed for filing, please find attached the corrected cost-effectiveness run for the one filed on June 15, 2007 (Appendix C), with Florida Power & Light Company's Petition for Approval of Residential Thermostat Load Control Pilot Project. The corrected Rate Impact Measure test value is 1.49. The corrected Total Resource Cost test value is 1.81. The Participant test value remains infinite.

Thank you for your assistance in this matter. If you have any questions concerning the attached, please do not hesitate to contact me at (561) 691-7207.

Very truly yours,

Natalie F. Smith
Principal Attorney

- CMP _____
- COM _____
- CTR _____
- ECR _____
- GCL _____
- OPC _____
- RCA _____
- SCR _____
- SGA _____
- SEC _____
- OTH _____

NFS:bam
Attachment

cc: Katherine E. Fleming, Esquire
Senior Attorney
Office of the General Counsel

DOCUMENT NUMBER-DATE

05873 JUL 12 07

FPSC-COMMISSION CLERK

INPUT DATA -- PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Programmable Thermostat

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.19 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.61 kW
(3) kW LINE LOSS PERCENTAGE	9.57 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	260.97 kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.46 %
(6) GROUP LINE LOSS MULTIPLIER	1.09
(7) CUSTOMER kWh INCREASE AT METER	149.26 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	25 YEARS
(2) GENERATOR ECONOMIC LIFE	25 YEARS
(3) T&D ECONOMIC LIFE	25 YEARS
(4) K FACTOR FOR GENERATION	1.64075
(5) K FACTOR FOR T & D	1.92296

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	8.82 %
(11) UTILITY AFUDC RATE	7.47 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	*** %

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

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2007
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2011
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2010-2011
(4) BASE YEAR AVOIDED GENERATING COST	676.60 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	147.00 \$/kW
(6) BASE YEAR DISTRIBUTION COST	10.36 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00 %**
(8) GENERATOR FIXED O & M COST	30.55 \$/KWYR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.61 %**
(10) TRANSMISSION FIXED O & M COST	2.68 \$/KW
(11) DISTRIBUTION FIXED O & M COST	0.95 \$/KW
(12) T&D FIXED O&M ESCALATION RATE	3.61 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.048 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	3.09 %**
(15) GENERATOR CAPACITY FACTOR	3% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	5.55 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	7.97 %**

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	*** %

FPSC-COMMISSION CLERK

05873 JUL 12 5

DOCUMENT NUMBER-DATE

ORIGINAL

* INPUT DATA -- PART I CONTINUED
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Programmable Thermostat

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)
2007	0	0	0	0	0	0	0	0	0	
2008	1,632	14	0	1,647	90	0	0	0	0	
2009	4,630	57	0	4,687	331	0	0	0	0	
2010	6,945	105	0	7,049	591	0	0	0	0	
2011	5,417	124	0	5,541	653	0	0	0	0	
2012	5,108	124	0	5,232	662	0	0	0	0	
2013	4,300	124	0	4,424	689	0	0	0	0	
2014	3,066	124	0	3,190	705	0	0	0	0	
2015	2,252	124	0	2,376	727	0	0	0	0	
2016	2,132	124	0	2,256	776	0	0	0	0	
2017	2,035	124	0	2,159	813	0	0	0	0	
2018	2,091	124	0	2,215	859	0	0	0	0	
2019	2,149	124	0	2,273	906	0	0	0	0	
2020	2,208	124	0	2,332	938	0	0	0	0	
2021	2,269	124	0	2,393	957	0	0	0	0	
2022	2,331	124	0	2,455	979	0	0	0	0	
2023	2,395	124	0	2,519	999	0	0	0	0	
2024	6,311	124	0	6,434	1,023	0	0	0	0	
2025	7,926	124	0	8,050	1,039	0	0	0	0	
2026	6,989	124	0	7,112	1,066	0	0	0	0	
2027	6,640	124	0	6,763	1,092	0	0	0	0	
2028	6,321	124	0	6,444	1,116	0	0	0	0	
2029	4,429	124	0	4,553	1,138	0	0	0	0	
2030	3,376	124	0	3,500	1,164	0	0	0	0	
2031	3,202	124	0	3,325	1,189	0	0	0	0	
NOM	96,154	2,775	0	98,929	20,500	0	0	0	0	
NPV	38,146	1,047	0	39,193	6,988	0	0	0	0	

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

CALCULATION OF GHN K-FACTOR
 PROGRAM METHOD SELECTED REV. REQ
 PROGRAM NAME: Residential Programmable Thermostat

(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
YEAR	REQ-YEAR RATE BASE \$(000)	DEBT \$(000)	PREFERRED STOCK \$(000)	COMMON EQUITY \$(000)	INCOME TAXES \$(000)	PROPERTY TAX \$(000)	PROPERTY INSURANCE \$(000)	DEPREC. \$(000)	DEFERRED TAXES \$(000)	TOTAL FIXED CHARGES \$(000)	PRESENT WORTH FIXED CHARGES \$(000)	CUMULATIVE PW FIXED CHARGES \$(000)	REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2011	43,484	1,350	0	2,810	1,846	816	204	1,700	(1)	8,719	8,719	8,719	42,498
2012	41,785	1,297	0	2,700	1,207	782	204	1,700	562	8,453	7,768	16,487	42,498
2013	39,523	1,227	0	2,554	1,203	748	210	1,700	474	8,117	6,855	23,342	43,773
2014	37,349	1,160	0	2,414	1,196	714	216	1,700	394	7,793	6,048	29,389	45,066
2015	35,255	1,095	0	2,278	1,187	680	223	1,700	318	7,480	5,334	34,724	46,439
2016	33,237	1,032	0	2,148	1,174	646	230	1,700	248	7,178	4,704	39,428	47,832
2017	31,289	972	0	2,022	1,160	612	236	1,700	184	6,886	4,147	43,574	49,267
2018	29,406	913	0	1,900	1,143	578	244	1,700	124	6,602	3,634	47,228	50,745
2019	27,581	856	0	1,782	1,079	544	251	1,700	115	6,327	3,217	50,445	52,267
2020	25,767	800	0	1,665	1,005	510	258	1,700	114	6,053	2,829	53,274	53,835
2021	23,953	744	0	1,548	931	476	266	1,700	115	5,780	2,482	55,756	55,450
2022	22,138	687	0	1,431	858	442	274	1,700	114	5,506	2,173	57,929	57,114
2023	20,324	631	0	1,313	784	408	282	1,700	115	5,233	1,898	59,827	58,827
2024	18,510	575	0	1,196	711	374	291	1,700	114	4,961	1,653	61,480	60,592
2025	16,695	518	0	1,079	637	340	300	1,700	115	4,688	1,436	62,916	62,410
2026	14,881	462	0	962	563	306	309	1,700	114	4,416	1,243	64,159	64,282
2027	13,067	406	0	844	490	272	318	1,700	115	4,144	1,072	65,230	66,210
2028	11,252	349	0	727	416	238	327	1,700	114	3,872	920	66,151	68,197
2029	9,438	293	0	610	342	204	337	1,700	115	3,601	786	66,937	70,243
2030	7,624	237	0	493	269	170	347	1,700	114	3,330	668	67,605	72,350
2031	5,809	180	0	375	557	136	358	1,700	(248)	3,059	564	68,170	74,520
2032	4,357	135	0	282	861	102	368	1,700	(610)	2,838	481	68,650	76,756
2033	3,268	101	0	211	817	69	379	1,700	(610)	2,666	415	69,066	79,059
2034	2,178	68	0	141	773	34	391	1,700	(610)	2,495	357	69,423	81,431
2035	1,089	34	0	70	728	(0)	403	1,700	(610)	2,325	306	69,729	83,873

IN SERVICE COST	\$(000)	42,498
IN SERVICE YEAR		2011
BOOK LIFE (YRS)		25
EFFEC. TAX RATE		38.57%
DISCOUNT RATE		8.8%
PROPERTY TAX		2.00%
PROPERTY INSURANCE		0.48%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	
DEBT	45%	6.90	%
P/S	0%	0.00	%
C/S	55%	11.75	%

K-FACTOR = CPWFC / IN-SVC COST = 1.64075

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
 PROGRAM METHOD SELECTED: RBV_REQ
 PROGRAM NAME: Residential Programmable Thermostat

(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 L/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2011	3.75%	1,579	1,579	1,700	1,700	1,582	1,582	(1)	2,936	0	0	0	(1)	(987)
2012	7.22%	3,040	4,620	1,700	3,400	1,582	3,165	562	2,936	0	0	0	562	(425)
2013	6.68%	2,812	7,432	1,700	5,100	1,582	4,747	474	2,936	0	0	0	474	50
2014	6.18%	2,603	10,035	1,700	6,800	1,582	6,330	394	2,936	0	0	0	394	443
2015	5.71%	2,406	12,441	1,700	8,500	1,582	7,912	318	2,936	0	0	0	318	761
2016	5.29%	2,226	14,667	1,700	10,200	1,582	9,495	248	2,936	0	0	0	248	1,009
2017	4.89%	2,059	16,726	1,700	11,899	1,582	11,077	184	2,936	0	0	0	184	1,193
2018	4.52%	1,905	18,630	1,700	13,599	1,582	12,660	124	2,936	0	0	0	124	1,317
2019	4.46%	1,879	20,510	1,700	15,299	1,582	14,242	115	2,936	0	0	0	115	1,432
2020	4.46%	1,879	22,389	1,700	16,999	1,582	15,825	114	2,936	0	0	0	114	1,546
2021	4.46%	1,879	24,268	1,700	18,699	1,582	17,407	115	2,936	0	0	0	115	1,661
2022	4.46%	1,879	26,147	1,700	20,399	1,582	18,990	114	2,936	0	0	0	114	1,775
2023	4.46%	1,879	28,026	1,700	22,099	1,582	20,572	115	2,936	0	0	0	115	1,889
2024	4.46%	1,879	29,905	1,700	23,799	1,582	22,155	114	2,936	0	0	0	114	2,004
2025	4.46%	1,879	31,784	1,700	25,499	1,582	23,737	115	2,936	0	0	0	115	2,118
2026	4.46%	1,879	33,663	1,700	27,199	1,582	25,320	114	2,936	0	0	0	114	2,233
2027	4.46%	1,879	35,542	1,700	28,899	1,582	26,902	115	2,936	0	0	0	115	2,347
2028	4.46%	1,879	37,421	1,700	30,599	1,582	28,485	114	2,936	0	0	0	114	2,461
2029	4.46%	1,879	39,301	1,700	32,298	1,582	30,067	115	2,936	0	0	0	115	2,576
2030	4.46%	1,879	41,180	1,700	33,998	1,582	31,649	114	2,936	0	0	0	114	2,690
2031	2.23%	940	42,119	1,700	35,698	1,582	33,232	(248)	2,936	0	0	0	(248)	2,442
2032	0.00%	0	42,119	1,700	37,398	1,582	34,814	(610)	2,936	0	0	0	(610)	1,832
2033	0.00%	0	42,119	1,700	39,098	1,582	36,397	(610)	2,936	0	0	0	(610)	1,221
2034	0.00%	0	42,119	1,700	40,798	1,582	37,979	(610)	2,936	0	0	0	(610)	611
2035	0.00%	0	42,119	1,700	42,498	1,582	39,562	(610)	2,936	0	0	0	(610)	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(986)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	2,936
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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

(1)	(2)	(3)	(4)	(5) END OF YEAR NET PLANT IN SERVICE	(5a)* ACCUMULATED DEPRECIATION	(5b)* ACCUMULATED DEF TAXES	(6) BEGINNING YEAR RATE BASE	(7) ENDING OF YEAR RATE BASE	(8) MID-YEAR RATE BASE
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2011	3.75%	1,579	(1)	40,798	1,700	(987)	43,484	41,785	42,635
2012	7.22%	3,040	562	39,098	3,400	(425)	41,785	39,523	40,654
2013	6.68%	2,812	474	37,398	5,100	50	39,523	37,349	38,436
2014	6.18%	2,603	394	35,698	6,800	443	37,349	35,255	36,302
2015	5.71%	2,406	318	33,998	8,500	761	35,255	33,237	34,246
2016	5.29%	2,226	248	32,298	10,200	1,009	33,237	31,289	32,263
2017	4.89%	2,059	184	30,599	11,899	1,193	31,289	29,406	30,347
2018	4.52%	1,905	124	28,899	13,599	1,317	29,406	27,581	28,494
2019	4.46%	1,879	115	27,199	15,299	1,432	27,581	25,767	26,674
2020	4.46%	1,879	114	25,499	16,999	1,546	25,767	23,953	24,860
2021	4.46%	1,879	115	23,799	18,699	1,661	23,953	22,138	23,046
2022	4.46%	1,879	114	22,099	20,399	1,775	22,138	20,324	21,231
2023	4.46%	1,879	115	20,399	22,099	1,889	20,324	18,510	19,417
2024	4.46%	1,879	114	18,699	23,799	2,004	18,510	16,695	17,603
2025	4.46%	1,879	115	16,999	25,499	2,118	16,695	14,881	15,788
2026	4.46%	1,879	114	15,299	27,199	2,233	14,881	13,067	13,974
2027	4.46%	1,879	115	13,599	28,899	2,347	13,067	11,252	12,160
2028	4.46%	1,879	114	11,899	30,599	2,461	11,252	9,438	10,345
2029	4.46%	1,879	115	10,200	32,298	2,576	9,438	7,624	8,531
2030	4.46%	1,879	114	8,500	33,998	2,690	7,624	5,809	6,717
2031	2.23%	940	(248)	6,800	35,698	2,442	5,809	4,357	5,083
2032	0.00%	0	(610)	5,100	37,398	1,832	4,357	3,268	3,813
2033	0.00%	0	(610)	3,400	39,098	1,221	3,268	2,178	2,723
2034	0.00%	0	(610)	1,700	40,798	611	2,178	1,089	1,634
2035	0.00%	0	(610)	(0)	42,498	0	1,089	0	544

* 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)
2007	-4	0.00%	1.000	0.00%	0.00	0.00
2008	-3	3.00%	1.030	18.56%	129.37	64.68
2009	-2	3.00%	1.061	63.95%	459.05	358.89
2010	-1	3.00%	1.093	17.49%	129.27	653.06

100.00% 717.69

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)
2007	-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	-3	64.68	1.64	1.64	4.83	4.83	4.46	4.46	(1.09)	(1.09)	134.20	134.20
2009	-2	363.72	9.24	10.88	27.25	32.08	25.07	29.53	(6.11)	(7.19)	486.31	620.50
2010	-1	685.14	17.54	28.43	51.72	83.80	47.10	76.63	(11.40)	(18.60)	180.99	801.49

28.43

83.80

76.63

(18.60)

801.49

121.6013454

IN SERVICE YEAR	2011
PLANT COSTS	676.6042995
AFUDC RATE	7.47%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	38,055	38,055	38,055
EQUITY AFUDC	2,936		
DEBT AFUDC	1,507	1,507	
CPI			4,063
TOTAL	42,498	39,562	42,118

* Column not specified in workbook

INPUT DATA -- PART 2
 PROGRAM METHOD SELECTED : REV_RBQ
 PROGRAM NAME: Residential Programmable Thermostat

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (¢/kWh)	AVOIDED MARGINAL FUEL COST (¢/kWh)	INCREASED MARGINAL FUEL COST (¢/kWh)	REPLACEMENT FUEL COST (¢/kWh)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2007	0	0	7.43	8.47	7.58	0.00	1.00	2.67
2008	7,600	7,600	7.47	8.48	7.52	0.00	1.00	1.00
2009	22,840	22,840	6.19	8.03	6.23	0.00	1.00	1.00
2010	33,000	33,000	6.22	8.07	6.26	0.00	1.00	1.00
2011	33,000	33,000	5.65	7.49	5.69	14.86	1.00	1.00
2012	33,000	33,000	6.16	8.04	6.20	10.82	1.00	1.00
2013	33,000	33,000	6.41	8.19	6.45	10.44	1.00	1.00
2014	33,000	33,000	6.41	8.57	6.45	9.06	1.00	1.00
2015	33,000	33,000	6.55	9.09	6.59	11.92	1.00	1.00
2016	33,000	33,000	7.06	9.81	7.10	13.61	1.00	1.00
2017	33,000	33,000	7.51	10.45	7.55	10.08	1.00	1.00
2018	33,000	33,000	7.82	11.17	7.86	13.82	1.00	1.00
2019	33,000	33,000	8.03	11.81	8.06	15.37	1.00	1.00
2020	33,000	33,000	8.58	12.76	8.62	13.59	1.00	1.00
2021	33,000	33,000	9.10	13.36	9.15	17.15	1.00	1.00
2022	33,000	33,000	9.13	13.79	9.17	15.04	1.00	1.00
2023	33,000	33,000	9.34	14.20	9.38	13.73	1.00	1.00
2024	33,000	33,000	9.55	14.66	9.59	14.26	1.00	1.00
2025	33,000	33,000	9.80	15.18	9.84	15.64	1.00	1.00
2026	33,000	33,000	10.07	15.53	10.11	14.87	1.00	1.00
2027	33,000	33,000	10.33	15.80	10.37	14.82	1.00	1.00
2028	33,000	33,000	10.56	16.33	10.60	15.86	1.00	1.00
2029	33,000	33,000	10.87	16.71	10.91	15.30	1.00	1.00
2030	33,000	33,000	11.20	17.27	11.24	17.09	1.00	1.00
2031	33,000	33,000	11.44	17.59	11.48	17.56	1.00	1.00

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

AVOIDED GENERATING BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Programmable Thermostat

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
2007	0	0	0.0	0	0	0
2008	0	0	0.0	0	0	0
2009	0	0	0.0	0	0	0
2010	0	0	0.0	0	0	0
2011	8,719	1,693	6.3	785	1,781	9,422
2012	8,453	1,710	11.6	1,537	2,352	9,359
2013	8,117	1,726	12.9	1,619	2,473	9,002
2014	7,793	1,744	12.2	1,497	1,987	9,059
2015	7,480	1,761	15.6	2,014	3,283	7,989
2016	7,178	1,779	26.4	3,726	6,228	6,482
2017	6,886	1,797	39.8	5,791	6,838	7,675
2018	6,602	1,815	44.2	6,486	10,231	4,717
2019	6,327	1,834	35.5	5,409	8,966	4,639
2020	6,053	1,853	40.1	6,509	8,772	5,682
2021	5,780	1,871	64.6	10,584	17,514	786
2022	5,506	1,891	51.7	8,495	12,050	3,893
2023	5,233	1,910	51.6	8,542	10,782	4,955
2024	4,961	1,929	52.2	8,747	11,111	4,577
2025	4,688	1,948	50.2	8,521	11,486	3,722
2026	4,416	1,968	46.0	7,886	9,831	4,485
2027	4,144	1,988	39.6	6,798	8,251	4,718
2028	3,872	2,008	38.8	6,754	8,500	4,173
2029	3,601	2,029	37.0	6,534	7,656	4,544
2030	3,330	2,049	40.4	7,195	9,145	3,469
2031	3,059	2,070	35.1	6,304	7,993	3,475

NCM	122,198	39,374	751.6	121,732	167,231	116,825
NEV	48,613	13,297	217.9	33,951	48,310	47,769

AVOIDED T&D AND PROGRAM FUEL SAVINGS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Programmable Thermostat

(1) YEAR	(2) AVOIDED TRANSMISSION CAP COST \$(000)	(3) AVOIDED TRANSMISSION O&M COST \$(000)	(4) TOTAL AVOIDED TRANSMISSION COST \$(000)	(5) AVOIDED DISTRIBUTION CAP COST \$(000)	(6) AVOIDED DISTRIBUTION O&M COST \$(000)	(7) TOTAL AVOIDED DISTRIBUTION COST \$(000)	(8) PROGRAM FUEL SAVINGS \$(000)	(8a)* PROGRAM OFF-PEAK PAYBACK \$(000)
2007	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	91	46
2009	429	37	465	22	10	32	366	152
2010	1,303	114	1,417	68	30	98	674	280
2011	1,873	172	2,044	98	45	143	747	301
2012	1,815	178	1,993	95	47	142	796	328
2013	1,756	185	1,941	92	49	140	804	341
2014	1,700	192	1,892	89	50	139	857	341
2015	1,646	198	1,845	86	52	138	922	349
2016	1,594	205	1,799	83	54	137	996	376
2017	1,544	212	1,756	81	56	136	1,062	400
2018	1,495	219	1,714	78	58	136	1,147	416
2019	1,446	227	1,673	76	60	135	1,225	428
2020	1,398	235	1,632	73	62	135	1,329	457
2021	1,349	243	1,592	70	64	134	1,386	485
2022	1,300	252	1,552	68	66	134	1,445	486
2023	1,252	261	1,512	65	68	134	1,491	497
2024	1,203	270	1,473	63	71	134	1,544	509
2025	1,154	279	1,434	60	73	134	1,604	522
2026	1,106	289	1,395	58	76	134	1,638	536
2027	1,057	300	1,357	55	79	134	1,662	550
2028	1,009	311	1,319	53	82	134	1,724	562
2029	961	322	1,283	50	85	133	1,760	579
2030	919	333	1,252	48	88	136	1,821	597
2031	884	345	1,229	46	91	137	1,853	609
NOM.	30,193	5,379	35,572	1,577	1,413	2,991	28,943	10,148
NPV	12,348	1,758	14,106	645	462	1,107	9,298	3,418

* 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_RBQ
 PROGRAM NAME: Residential Programmable Thermostat

(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 CHN 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)
2007	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	1,632	0	0	1,632	0	0	45	0	45	(1,588)	(1,459)
2009	0	4,630	0	0	4,630	0	498	214	0	711	(3,919)	(4,768)
2010	0	6,945	0	0	6,945	0	1,515	394	0	1,909	(5,036)	(8,676)
2011	0	5,417	0	0	5,417	9,422	2,187	446	0	12,055	6,637	(3,943)
2012	0	5,108	0	0	5,108	9,359	2,135	468	0	11,962	6,853	548
2013	0	4,300	0	0	4,300	9,002	2,082	463	0	11,546	7,246	4,912
2014	0	3,066	0	0	3,066	9,059	2,031	515	0	11,605	8,539	9,637
2015	0	2,252	0	0	2,252	7,989	1,983	574	0	10,545	8,294	13,855
2016	0	2,132	0	0	2,132	6,482	1,936	621	0	9,039	6,906	17,082
2017	0	2,035	0	0	2,035	7,675	1,892	662	0	10,230	8,195	20,602
2018	0	2,091	0	0	2,091	4,717	1,850	730	0	7,297	5,206	22,656
2019	0	2,149	0	0	2,149	4,639	1,808	797	0	7,245	5,096	24,504
2020	0	2,208	0	0	2,208	5,682	1,767	872	0	8,321	6,113	26,541
2021	0	2,269	0	0	2,269	786	1,726	901	0	3,413	1,144	26,891
2022	0	2,331	0	0	2,331	3,893	1,686	959	0	6,538	4,207	28,075
2023	0	2,395	0	0	2,395	4,955	1,646	993	0	7,595	5,200	29,420
2024	0	6,311	0	0	6,311	4,577	1,607	1,035	0	7,220	909	29,636
2025	0	7,926	0	0	7,926	3,722	1,568	1,082	0	6,372	(1,554)	29,297
2026	0	6,989	0	0	6,989	4,485	1,529	1,101	0	7,115	127	29,322
2027	0	6,640	0	0	6,640	4,718	1,491	1,112	0	7,322	682	29,448
2028	0	6,321	0	0	6,321	4,173	1,453	1,162	0	6,788	468	29,527
2029	0	4,429	0	0	4,429	4,544	1,418	1,181	0	7,143	2,714	29,950
2030	0	3,376	0	0	3,376	3,469	1,388	1,224	0	6,081	2,705	30,337
2031	0	3,202	0	0	3,202	3,475	1,366	1,244	0	6,085	2,884	30,716

NCM	0	96,154	0	0	96,154	116,825	38,562	18,794	0	174,181	78,027	
NPV	0	38,146	0	0	38,146	47,769	15,213	5,880	0	68,863	30,716	

Discount Rate:

8.82 %

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

1.61

PARTICIPANT COSTS AND BENEFITS
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Programmable Thermostat

(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)
2007	0	0	0	0	0	0	0	0	0	0	0
2008	147	0	14	0	161	0	0	0	0	161	148
2009	543	0	57	0	600	0	0	0	0	600	655
2010	969	0	105	0	1,074	0	0	0	0	1,074	1,488
2011	1,071	0	124	0	1,194	0	0	0	0	1,194	2,340
2012	1,085	0	124	0	1,209	0	0	0	0	1,209	3,132
2013	1,129	0	124	0	1,253	0	0	0	0	1,253	3,886
2014	1,156	0	124	0	1,280	0	0	0	0	1,280	4,595
2015	1,192	0	124	0	1,315	0	0	0	0	1,315	5,263
2016	1,272	0	124	0	1,395	0	0	0	0	1,395	5,916
2017	1,332	0	124	0	1,456	0	0	0	0	1,456	6,541
2018	1,407	0	124	0	1,531	0	0	0	0	1,531	7,145
2019	1,486	0	124	0	1,610	0	0	0	0	1,610	7,729
2020	1,538	0	124	0	1,662	0	0	0	0	1,662	8,283
2021	1,569	0	124	0	1,692	0	0	0	0	1,692	8,801
2022	1,605	0	124	0	1,729	0	0	0	0	1,729	9,288
2023	1,638	0	124	0	1,762	0	0	0	0	1,762	9,743
2024	1,677	0	124	0	1,800	0	0	0	0	1,800	10,171
2025	1,703	0	124	0	1,827	0	0	0	0	1,827	10,570
2026	1,747	0	124	0	1,871	0	0	0	0	1,871	10,946
2027	1,790	0	124	0	1,914	0	0	0	0	1,914	11,299
2028	1,830	0	124	0	1,953	0	0	0	0	1,953	11,630
2029	1,865	0	124	0	1,989	0	0	0	0	1,989	11,939
2030	1,907	0	124	0	2,031	0	0	0	0	2,031	12,230
2031	1,949	0	124	0	2,073	0	0	0	0	2,073	12,503

NOM	33,606	0	2,775	0	36,381	0	0	0	0	36,381
NPV	11,456	0	1,047	0	12,503	0	0	0	0	12,503

In Service of Gen Unit:
 Discount Rate :
 Benefit/Cost Ratio (Col(5) / Col(10))

2011
 8.82 %
Infinite

RATE IMPACT TEST
 PROGRAM METHOD SELECTED: REV_REQ
 PROGRAM NAME: Residential Programmable Thermostat

(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)
2007	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	1,632	14	90	0	1,736	45	0	0	0	45	(1,691)	(1,554)
2009	0	4,430	57	331	0	5,018	214	498	0	0	711	(4,307)	(5,191)
2010	0	6,945	105	591	0	7,641	394	1,515	0	0	1,909	(5,732)	(9,639)
2011	0	5,417	124	653	0	6,194	9,867	2,187	0	0	12,055	5,860	(5,460)
2012	0	5,108	124	662	0	5,894	9,827	2,135	0	0	11,962	6,068	(1,484)
2013	0	4,300	124	689	0	5,113	9,464	2,082	0	0	11,546	6,433	2,390
2014	0	3,066	124	705	0	3,895	9,574	2,031	0	0	11,605	7,710	6,657
2015	0	2,252	124	727	0	3,102	8,563	1,983	0	0	10,545	7,443	10,442
2016	0	2,132	124	776	0	3,032	7,102	1,936	0	0	9,039	6,007	13,249
2017	0	2,035	124	813	0	2,971	8,338	1,892	0	0	10,230	7,259	16,366
2018	0	2,091	124	859	0	3,073	5,447	1,850	0	0	7,297	4,223	18,033
2019	0	2,149	124	906	0	3,179	5,437	1,808	0	0	7,245	4,065	19,508
2020	0	2,208	124	938	0	3,270	6,554	1,767	0	0	8,321	5,051	21,191
2021	0	2,269	124	957	0	3,350	1,687	1,726	0	0	3,413	64	21,210
2022	0	2,331	124	979	0	3,434	4,852	1,686	0	0	6,538	3,104	22,084
2023	0	2,395	124	999	0	3,518	5,948	1,646	0	0	7,595	4,077	23,138
2024	0	6,311	124	1,023	0	7,457	5,613	1,607	0	0	7,220	(237)	23,082
2025	0	7,926	124	1,039	0	9,089	4,804	1,568	0	0	6,372	(2,717)	22,488
2026	0	6,989	124	1,066	0	8,178	5,586	1,529	0	0	7,115	(1,063)	22,275
2027	0	6,640	124	1,092	0	7,855	5,831	1,491	0	0	7,322	(534)	22,177
2028	0	6,321	124	1,116	0	7,560	5,335	1,453	0	0	6,788	(772)	22,046
2029	0	4,429	124	1,138	0	5,690	5,725	1,418	0	0	7,143	1,453	22,272
2030	0	3,376	124	1,164	0	4,664	4,693	1,388	0	0	6,081	1,417	22,475
2031	0	3,202	124	1,189	0	4,514	4,719	1,366	0	0	6,085	1,571	22,682

NOM.	0	96,154	2,775	20,500	0	119,429	135,619	38,562	0	0	174,181	54,752	
NPV	0	38,146	1,047	6,988	0	46,181	53,649	15,213	0	0	68,863	22,682	

Discount Rate 8.82 %
 Benefit/Cost Ratio (Col(12) / Col(7)) : 1.49