Natalie F. Smith
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March 27, 2006

VIA HAND DELIVERY
Ms. Blanca S. Bayó, Director
Division of the Commission Clerk and
Administrative Services
Florida Public Service Commission
Betty Easley Conference Center
2540 Shumard Oak Boulevard, Room 110
Tallahassee, FL 32399-0850

Re: Docket No. 060286-EG
In re: Florida Power & Light Company's Petition for Approval of Revisions to its Residential and Business HVAC Programs

Dear Ms. Bayó:

Enclosed for filing on behalf of Florida Power & Light Company ("FPL") are the original and fifteen (15) copies of FPL's Petition for Approval of Revisions to its Residential and Business HVAC Programs.

Also included in this submittal is a computer diskette containing FPL's Petition in Word format. Please contact me if you or your Staff have any questions regarding this filing.

Sincerely,

Natalie F. Smith

NFS:ec
Enclosures

BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

In re: Florida Power & Light Company's Petition for Approval of Revisions to its Residential and Business HVAC Programs	))))	DOCKET NO. _____ Filed: March 27, 2006

FLORIDA POWER & LIGHT COMPANY'S PETITION FOR APPROVAL OF REVISIONS TO ITS RESIDENTIAL AND BUSINESS HVAC PROGRAMS

NOW BEFORE THIS COMMISSION, through undersigned counsel, comes Florida Power & Light Company ("FPL" or the "Company") and hereby requests approval for revisions to its Residential and Commercial/Industrial ("C/I") Heating, Ventilating, and Air Conditioning ("HVAC") Programs. In support of this Petition, FPL states as follows:

1. FPL's General Offices are located at 9250 West Flagler Street, Miami, FL 33174. Any pleading, motion, notice, order or other document required to be served upon the petitioner or filed by any party to this proceeding should be served upon the following individuals:

William G. Walker, III Florida Power & Light Company Vice President 215 South Monroe Street Suite 810 Tallahassee, Florida 32301-1859	Natalie F. Smith, Principal Attorney Florida Power & Light Company 700 Universe Boulevard Juno Beach, Florida 33408 Telephone: 561-691-7100 Facsimile: 561-691-7135

2. FPL is subject to the Florida Energy Efficiency and Conservation Act ("FEECA"), Sections 366.80-366.85 and 403.519. Pursuant to FEECA, the Commission established conservation goals for FPL for 2005 through 2014. Order No. PSC-04-0850-CO-EG, Docket

No. 040029-EG (issued Sept. 1, 2004). The Commission has also approved a demand side management ("DSM") plan for FPL for meeting FPL's Commission-approved conservation goals. Order No. PSC-PSC-05-0323-CO-EG, Docket No. 040029-EG (issued March 21, 2005); Order No. PSC-06-0025-FOF-EG, Docket No. 040029-EG (issued Jan. 10, 2006). Pursuant to Section 366.82 and Rule 25-17.015, FPL has an ECCR Clause through which it recovers its reasonable and prudent costs for conservation audits, conservation programs, and implementation of FPL's conservation plan. FPL has a substantial interest in achieving its Commission-approved conservation goals. FPL also has a substantial interest in amending its HVAC Programs and DSM Plan as proposed by this Petition. FPL also has a substantial interest in recovering the costs of the modified HVAC Programs through its ECCR Clause.

3. In March 2005, the Commission approved FPL's C/I HVAC and Residential Air Conditioning Programs as part of FPL's DSM Plan in Order Nos. PSC-05-0162-PAA-EG and PSC-05-0323-CO-EG. The C/I HVAC Program is designed to reduce current and future growth of coincident peak demand and energy consumption of commercial and industrial customers by increasing the use of high efficiency HVAC systems. The Residential Air Conditioning Program is designed to reduce the summer and winter coincident peak demand and energy attributable to HVAC equipment by encouraging customers, through the use of incentives, to purchase higher efficiency equipment.

4. As described in greater detail in the program descriptions attached as Appendix A (C/I HVAC Program) and Appendix B (Residential Program) to this petition and incorporated by reference, FPL proposes several modifications to its C/I HVAC and Residential Air Conditioning Programs. The modifications are primarily designed to adopt the updated minimum efficiency levels for Seasonal Energy Efficiency Ratio (SEER)-rated air conditioning equipment, as

mandated by recent revisions to the U.S. Department of Energy ("DOE") efficiencies standards. As a result of the standards changes, FPL proposes to expand the upper range of efficiency levels that qualify for incentives to encourage customers to install higher efficiency units. FPL also proposes to revise the incentives offered under the Programs as a result of updated cost-effectiveness runs. Further, FPL proposes to add new measures that are expected to result in additional demand and energy savings. Finally, FPL proposes to change the name of the C/I HVAC Program to the "Business HVAC Program" to clarify the program name and be consistent with the names of its other conservation offerings.

5. The Business HVAC and Residential Air Conditioning Programs as modified are cost-effective. FPL has enclosed as Appendix C a cost-effectiveness analysis of the modified Business HVAC and Residential Air Conditioning Programs using the Commission's approved methodology and based on planning assumptions out of FPL's 2005-2014 planning process, and it shows that the Business HVAC and Residential Air Conditioning Programs are clearly cost-effective. As can be seen from the cost-effectiveness runs in Appendix C, the Business HVAC Program's benefit-to-cost ratios are: 1.57 Participants, 1.38 RIM, and 1.90 Total Resource Cost (TRC). The Residential Air Conditioning Program's benefit-to-cost ratios are: 1.20 Participants, 1.12 RIM, and 1.01 TRC.

6. The Business HVAC and Residential Air Conditioning Programs are directly monitorable and yield measurable results, as they have for years. FPL will continue to monitor the results of the Business HVAC and Residential Air Conditioning Programs, as described in Appendices A and B.

7. Approval of the proposed revisions to the Business HVAC and Residential Air Conditioning Programs will help advance the policy objectives of FEECA and Rule 25-17.001.

The Programs, as modified, will satisfy the newly adopted minimum efficiency levels for SEER-rated units and enable FPL to reach its full potential of peak demand and energy savings, helping FPL to achieve its approved conservation goals.

8. The Commission has previously approved recovery of reasonable and prudent expenditures associated with the Business HVAC and Residential Air Conditioning Programs through the ECCR Clause. The ECCR Clause is the appropriate vehicle for recovery of the costs associated with the modified Programs.

9. FPL is not aware of any material facts that are in dispute as to FPL's Petition for Approval of Modifications to its Business HVAC and Residential Air Conditioning Programs.

WHEREFORE, for the above and foregoing reasons, Florida Power & Light Company respectfully requests that the Commission grant this Petition for Approval of Revisions to its Business HVAC and Residential Air Conditioning Programs.

Respectfully submitted,

By: _____

Natalie F. Smith, Principal Attorney
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APPENDIX A

Business Heating, Ventilating, and Air Conditioning Program

Program Description

FPL's Business Heating, Ventilating, Air Conditioning, (Bus HVAC) Program is designed to reduce the current and future growth of coincident peak demand and energy consumption of commercial and industrial customers by increasing the use of high-efficiency heating, ventilating, and air conditioning (HVAC) systems.

FPL will provide an incentive to customers, or their designees, who install qualifying HVAC equipment. The customers will also receive any operating savings from the installation of the equipment.

FPL proposes to make the following modifications to the existing Bus HVAC Program:

- Increase the maximum thermal storage incentive from $350 to $898 per summer kW and allow additional equipment selections (ie. refrigeration and direct expansion units) for the thermal storage systems.
- Increase the maximum incentive for chillers from $75 to $99 per summer kW.
- Increase the maximum incentive for direct expansion (DX) units from $100 to $168 per summer kW .
- Increase the maximum incentives for energy recovery ventilator (ERV) units from $399 to $417 per summer kW.

- Update the minimum qualifying Seasonal Energy Efficiency Ratio (SEER) levels for SEER rated units to reflect the minimum efficiencies mandated by the recent changes to the U. S. Department of Energy efficiency standards.
- Add efficient air conditioning room units to DX program with maximum incentives of $498 per summer kW.
- Add incentives for demand control ventilation (DCV) systems with a maximum incentive of $627 per summer kW.
- Add incentives for electronically commutated motors (ECM) for air conditioning systems with a maximum incentive of $102 per summer kW.

DCV is a strategy for managing the amount of fresh air deliberately introduced into buildings by the HVAC systems. DCV systems measure the need for additional fresh air in facilities and add outside air only when required. This technology substantially reduces the controlled ventilation air and the associated peak cooling and heating conditioning loads. DCV can be applied to most commercial customers that have code required outside air requirements.

ECM is the next generation in air conditioning fan motor technology and provides increased energy efficiency in two ways. First ECM motors optimize fan speeds as airflow restrictions occur due to dirty filters, coils, and undersized duct systems. Compressor system efficiency and low operating costs are maintained by assuring required airflow. Secondly, they operate far more efficiently than traditional permanent split capacitor motors when lower fan speeds are required.

FPL plans to make commercial and industrial customers aware of this program through dealers, distributors, contractors, other trade allies, appropriate advertising and promotion activities, as well as direct contact with potential participants by FPL personnel.

Description of Program Administration

All commercial and industrial customers are eligible for this program. The program applies to customers who are retrofitting/replacing existing or installing new HVAC equipment. They must also comply with the requirements specified in the FPL Program Standards.

The chiller and DX split/packaged electric equipment incentives are based on efficiency improvements above ASHRAE 90.1 2001 or Department of Energy efficiency standards. New high efficiency chillers may include adjustable speed drives. All thermal energy storage systems must use electricity as the primary energy source. The systems must be designed and operated to reduce FPL's summer and winter system peaks. Before the installation of the thermal energy storage system, the cooling load to be shifted must regularly operate, or be designed to operate, during FPL's on-peak hours as defined by the current or any subsequent applicable time-of-use rate tariff approved by the Commission.

The maximum incentive per summer kW will be as follows:

Chillers	$ 99 per kW
Electronically Commutated Motors	$102 per kW
Direct Expansion Units	$168 per kW
Energy Recovery Ventilator	$417 per kW
Room Units	$498 per kW

Demand Control Ventilation	$627 per kW
Thermal Energy Storage	$898 per kW

Incentives for thermal energy storage will include both rebates paid for installations and funding for other inducements such as feasibility studies, data logging, and post-commissioning.

These incentives are based on cost-effectiveness analyses, an average participant's payback to be not less than 2 years, and the assumption the load being reduced is associated with equipment that operates between the hours of 3:00 P.M. and 6:00 P.M., weekdays, for the months of April through October.

FPL will determine the incentive amount based on:

- heating and cooling equipment efficiency above the ASHRAE 90.1 2001 or Department of Energy efficiency standards with a minimum threshold;
- kW or tons removed from FPL's summer peak period for thermal energy storage.
- kW removed from FPL's peak periods for energy recovery ventilator based on the cubic feet per minute of ventilation or outside air .
- kW removed from FPL's peak periods for demand control ventilation based on the building square footage, occupancy, and cubic feet per minute of ventilation or outside air reduced.
- kW removed from FPL's peak periods for electronically commutated motors applied to air conditioning systems based on the capacity of the DX units.

In order to calculate incentives, the customer will supply FPL with the equipment specifications. FPL will calculate the incentive based on the customer's equipment specifications and FPL Program Standards. All incentive payments will be tracked by a computer system. This system will record a history of incentive payments made to customers.

FPL will do random post installation inspections to verify the proper installation of equipment. The participating customer shall allow FPL, at FPL's discretion, to access, monitor and/or analyze the customer's system.

FPL will file Program Standards for this program. The Program Standards will be subject to periodic review and may change over time based on factors such as, but not limited to, technological advances, operational needs, program results, application assumptions and incentive amounts.

Projected Participation and Savings

The projected demand and energy savings for a typical installation are shown on Attachments B and C. The energy consumption and demand reduction projections are based on evaluation results.

The projected participation in this program and associated savings are shown on Attachments A, B and C.

Cost-Effectiveness Analysis

FPL has used the Commission-approved cost-effectiveness methodologies required by Rule 25-17.008 to determine the cost-effectiveness of this program. These cost-effectiveness analyses can be found in Appendix A. These analyses show the following benefit-cost ratios: 1.57 Participant, 1.38 RIM, and 1.90 TRC for the Business Heating, Ventilating and Air Conditioning program.

Program Monitoring and Evaluation

With the adoption of ASHRAE 90.1 2001 into the energy efficiency code beginning in 2005, the State has embraced dramatic increases in the minimum energy efficiency of HVAC systems installed in Florida. Beginning in 2005, FPL adopted the new minimum efficiency levels as the baselines for calculating the impact of its HVAC incentive programs. The new code will serve as a suitable efficiency baseline for several years to come. Going forward, FPL will monitor how the next generation of more efficient HVAC equipment influences the commercial HVAC market.

As a result of continued monitoring and evaluation, FPL is introducing new measures called Demand Control Ventilation (DCV), Electronically Commutated Motors (ECM), and Room Units to this program.

Program Name: Business Heating, Ventilating and Air Conditioning

Attachment A

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Participants	(d) Cumulative Penetration Level %
2006	668,486	292,338	14,095	5%
2007	682,314	279,039	13,316	10%
2008	701,610	295,643	15,523	15%
2009	720,476	309,388	17,564	20%
2010	738,599	316,767	18,668	25%
2011	756,882	323,289	19,544	31%
2012	775,298	328,520	20,231	36%
2013	793,892	332,568	20,774	42%
2014	812,885	337,126	21,209	48%

Note: Column a - The total summer kw of all Bus HVAC equipment
Column b - The total summer kw of all eligible Bus HVAC equipment
Column d - Column c cumulative / Column b (does not reflect participation prior to 2006)

Attachment B - At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2006	1039	0.23	1.00	14,650,950	3,205	14,095
2007	896	0.43	1.00	11,930,457	5,789	13,316
2008	828	0.46	1.00	12,855,979	7,131	15,523
2009	791	0.49	1.00	13,884,488	8,616	17,564
2010	798	0.51	1.00	14,900,005	9,560	18,668
2011	817	0.54	1.00	15,959,364	10,462	19,544
2012	843	0.56	1.00	17,058,788	11,342	20,231
2013	876	0.59	1.00	18,195,878	12,196	20,774
2014	912	0.62	1.00	19,339,506	13,090	21,209

Attachment C - At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2006	1120	0.25	1.10	15,780,860	3,523	15,494
2007	965	0.48	1.10	12,850,557	6,363	14,638
2008	892	0.50	1.10	13,847,457	7,839	17,064
2009	851	0.54	1.10	14,955,286	9,472	19,307
2010	860	0.56	1.10	16,049,122	10,509	20,522
2011	880	0.59	1.10	17,190,181	11,500	21,484
2012	908	0.62	1.10	18,374,395	12,468	22,239
2013	943	0.65	1.10	19,599,179	13,407	22,836
2014	982	0.68	1.10	20,831,006	14,389	23,315

APPENDIX B

Residential Air Conditioning Program

Program Description

The Residential Air Conditioning Program is designed to reduce the summer and winter coincident peak demand and energy attributable to central heating, ventilating, and air conditioning (HVAC) equipment by encouraging customers, through the use of incentives, to purchase higher efficiency equipment.

FPL proposes to implement the following changes to the Residential Air Conditioning Program:

- Updating the minimum qualifying Seasonal Energy Efficiency Ratio (SEER) levels for SEER rated units to reflect the minimum efficiencies mandated by the recent changes to the U. S. Department of Energy efficiency standards.
- Expanding the upper range of SEER/EER levels that qualify for incentives to encourage customers to install higher efficiency units.
- Increase the program maximum incentive for straight cool and heat pump units from a range not exceeding $356 to $490 per summer kW to a range not to exceed $1429 to $1643 per summer kW, respectively.
- Add incentives for air-handler units with electronically commutated motors (ECM) with a maximum incentive of $208 per summer kW.
- Add incentives for units properly sized using an FPL approved sizing software with a maximum incentive of $272 per summer kW.

Description of Program Administration

The primary method of encouraging prospective customers to participate in the program will be the payment of incentives. The amount of the incentives will vary depending on several factors, including the size of the unit being installed and the Seasonal Energy Efficiency Ratio (SEER) or Energy Efficiency Ratio (EER) for central units, whether or not a plenum repair was performed, an ECM unit installed and/or the installation of properly sized units. Incentives will be included in FPL's Program Standards and will range from $208 to $1643 per summer kW based on cost-effectiveness analyses included in Appendix A. To be eligible for incentives for this program, the customer must make an installation at a residence which has had a Certificate of Occupancy or equivalent for at least one year.

FPL plans to make residential customers aware of this program through contractors, retail outlets and other trade allies, appropriate advertising and promotion activities, as well as direct contact with potential participants by FPL personnel.

The incentives certificate for central air conditioning systems will be issued to the customer at the time the customer purchases a qualifying HVAC unit or units from a qualifying contractor. The incentive certificate is then processed by FPL for payment.

FPL will perform random post installation inspection on a selected sample of participants prior to payment of incentives. All incentive requests will be tracked by a computer system, which will record a history of incentive payments made to customers/contractors.

FPL will file Program Standards for this program. The Program Standards will be subject to periodic review and may change over time based upon factors such as, but not limited to, technological advances, operational needs, program evaluation results, application assumptions, and incentive amounts.

Projected Participation and Savings

The projected demand and energy savings for a typical installation are shown on Attachments B and C. The energy consumption and demand reduction projections are based on evaluation results. The projected participation in this program and associated savings are shown on Attachments A, B and C

Cost-Effectiveness Analysis

FPL has used the Commission-approved cost-effectiveness methodologies required by Rule 25-17.008 to determine the cost-effectiveness of this program. These cost-effectiveness analyses can be found in Appendix A. These analyses show the following benefit-cost ratios: 1.20 Participant, 1.12 RIM, and 1.01 TRC for the Residential Air Conditioning program.

Program Monitoring and Evaluation

FPL continues to use all the major evaluation methods to determine impacts for this program. Metered studies are used to calibrate the engineering model estimates of peak hour demand. Statistical billing analysis is used to adjust the engineering model estimate of energy savings to reflect actual realized savings, which are effected by behavioral factors such as rebound. Rebound can be the result of some customers maintaining a lower temperature in the home once the HVAC system is replaced with a more efficient system, which has lower operating cost. Additionally, FPL adjusts the program-level impacts annually in response to changes in participation patterns in the various market segments. The efficiency levels of HVAC units installed outside FPL's rebate program are also periodically measured using non-participant surveys or other sources of efficiency sales data.

A metered field study of HVAC units with efficiencies of SEER 14 to 16 was completed in 2001 to supplement the metered results from the late 1990's. The next metered study being installed in 2006 will focus on the super-high efficiency systems with a SEER level of 17 to 19. As these evaluations proceed, the accuracy of the evaluation-based estimates will continue to be enhanced.

Program Name: Residential Air Conditioning Program

Attachment A

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Participants	(d) Cumulative Penetration Level %
2006	3,910,167	1,577,348	95,826	6%
2007	3,985,164	1,625,819	84,610	11%
2008	4,060,181	1,673,572	91,770	16%
2009	4,133,181	1,720,372	99,179	22%
2010	4,205,546	1,767,180	106,731	27%
2011	4,275,556	1,813,391	114,423	33%
2012	4,343,167	1,859,162	122,305	38%
2013	4,409,366	1,905,004	130,455	44%
2014	4,475,348	1,951,117	138,958	50%

Note: Column a - The total number of customers in residential rate class

Column b - The total number of eligible customers in residential rate class

Column d - Column c cumulative / Column b (does not reflect participation prior to 2006)

Attachment B - At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2006	558	0.07	0.27	53,490,963	6,681	25,824
2007	551	0.07	0.27	46,623,909	5,788	22,910
2008	538	0.07	0.27	49,414,379	6,272	24,493
2009	526	0.07	0.26	52,205,880	6,771	26,095
2010	515	0.07	0.26	54,941,460	7,279	27,686
2011	504	0.07	0.26	57,620,634	7,796	29,264
2012	493	0.07	0.25	60,270,247	8,325	30,841
2013	482	0.07	0.25	62,926,371	8,871	32,435
2014	472	0.07	0.25	65,624,922	9,440	34,062

Attachment C - At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2006	601.2568	0.08	0.30	57,616,289	7,344	28,387
2007	594	0.08	0.30	50,219,634	6,363	25,184
2008	580	0.08	0.29	53,225,311	6,894	26,925
2009	567	0.08	0.29	56,232,099	7,443	28,685
2010	554	0.07	0.29	59,178,651	8,002	30,434
2011	542	0.07	0.28	62,064,449	8,570	32,169
2012	531	0.07	0.28	64,918,405	9,151	33,903
2013	520	0.07	0.27	67,779,374	9,751	35,654
2014	509	0.07	0.27	70,686,043	10,378	37,443

APPENDIX C

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

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.92	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.24	kW
(3) kW LINE LOSS PERCENTAGE	9.03	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	2,161.74	kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.16	%
(6) GROUP LINE LOSS MULTIPLIER	1.00	
(7) CUSTOMER kWh INCREASE AT METER	1183.69	kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26	YEARS
(2) GENERATOR ECONOMIC LIFE	25	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.65312	
(5) K FACTOR FOR T & D	1.61194	

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	8.37	%
* (11) UTILITY AFUDC RATE	7.84	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2006	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2011	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2009-2013	
(4) BASE YEAR AVOIDED GENERATING COST	492.12	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	147.00	$/kW
(6) BASE YEAR DISTRIBUTION COST	17.27	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00	%**
(8) GENERATOR FIXED O & M COST	30.93	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.35	%**
(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	4.35	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.082	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.99	%**
(15) GENERATOR CAPACITY FACTOR	4%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	6.32	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.44	%**

V. NON-FUEL ENERGY AND DEMAND CHARGES

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

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

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

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES $(000)	(2) UTILITY INCENTIVES $(000)	(3) OTHER UTILITY COSTS $(000)	(4) TOTAL UTILITY PROGRAM COSTS $(000)	(5) ENERGY CHARGE REVENUE LOSSES $(000)	(6) DEMAND CHARGE REVENUE LOSSES $(000)	(7) PARTICIPANT EQUIPMENT COSTS $(000)	(8) PARTICIPANT O&M COSTS $(000)	(9) OTHER PARTICIPANT COSTS $(000)	(10) TOTAL PARTICIPANT COSTS $(000)
2006	0	0	0	0	0	0	0	0	0	0
2007	910	9,492	0	10,403	448	467	14,174	57	0	14,231
2008	1,087	11,210	0	12,297	1,371	1,462	16,839	185	0	17,023
2009	1,258	12,597	0	13,855	2,427	2,608	19,434	339	0	19,773
2010	1,368	13,386	0	14,754	3,610	3,621	21,181	518	0	21,699
2011	0	0	0	0	4,294	3,988	0	624	0	624
2012	0	0	0	0	4,350	3,988	0	640	0	640
2013	0	0	0	0	4,439	3,926	0	658	0	658
2014	0	0	0	0	4,495	3,898	0	675	0	675
2015	0	0	0	0	4,568	3,841	0	693	0	693
2016	0	0	0	0	4,642	3,745	0	712	0	712
2017	3	22	0	25	4,715	3,739	64	731	0	795
2018	3	22	0	25	4,807	3,739	67	751	0	818
2019	3	23	0	26	4,901	3,722	71	772	0	843
2020	4	24	0	27	4,998	3,716	75	794	0	868
2021	0	0	0	0	5,069	3,699	0	815	0	815
2022	179	938	0	1,117	5,213	3,790	3,862	838	0	4,700
2023	215	1,119	0	1,334	5,288	3,796	4,670	861	0	5,531
2024	252	1,292	0	1,544	5,391	3,801	5,489	884	0	6,374
2025	290	1,457	0	1,747	5,500	3,807	6,319	909	0	7,227
2026	0	0	0	0	5,611	3,813	0	933	0	933
2027	1,331	8,554	0	9,885	5,724	3,818	19,493	959	0	20,452
2028	1,598	10,092	0	11,690	5,840	3,824	23,231	985	0	24,217
2029	1,857	11,306	0	13,163	5,957	3,830	26,868	1,012	0	27,881
2030	2,009	11,929	0	13,938	6,077	3,836	29,012	1,040	0	30,053
2031	0	0	0	0	6,199	3,841	0	1,069	0	1,069
NOM	12,369	93,462	0	105,831	115,934	88,316	190,849	18,454	0	209,303
NPV	5,081	45,922	0	51,003	40,575	33,433	79,079	6,253	0	85,332

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

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

YEAR	(2) BEG-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) PROPERTY TAX $(000)	(8) PROPERTY INSURANCE $(000)	(9) DEPREC. $(000)	(10) DEFERRED TAXES $(000)	(11) TOTAL FIXED CHARGES $(000)	(12) PRESENT WORTH FIXED CHARGES $(000)	(13) CUMULATIVE PW FIXED CHARGES $(000)	(14) REPLACEMENT COST BASIS FOR PROPERTY INSURANCE $(000)
2011	49,288	1,530	0	3,185	2,086	0	0	1,935	(9)	8,727	8,727	8,727	48,369
2012	47,363	1,471	0	3,061	1,369	890	232	1,935	629	9,587	8,846	17,573	48,369
2013	44,799	1,391	0	2,895	1,365	851	239	1,935	530	9,206	7,838	25,412	49,820
2014	42,334	1,314	0	2,736	1,356	813	246	1,935	438	8,838	6,944	32,356	51,314
2015	39,962	1,241	0	2,583	1,346	774	254	1,935	352	8,484	6,151	38,507	52,854
2016	37,675	1,170	0	2,435	1,332	735	261	1,935	273	8,141	5,447	43,954	54,439
2017	35,467	1,101	0	2,292	1,315	697	269	1,935	200	7,809	4,821	48,775	56,073
2018	33,332	1,035	0	2,154	1,296	658	277	1,935	133	7,488	4,266	53,041	57,755
2019	31,264	971	0	2,020	1,223	619	286	1,935	122	7,176	3,772	56,813	59,488
2020	29,207	907	0	1,888	1,140	580	294	1,935	122	6,865	3,330	60,143	61,272
2021	27,151	843	0	1,755	1,056	542	303	1,935	122	6,555	2,934	63,077	63,110
2022	25,094	779	0	1,622	973	503	312	1,935	122	6,245	2,580	65,657	65,004
2023	23,038	715	0	1,489	889	464	321	1,935	122	5,936	2,262	67,919	66,954
2024	20,981	651	0	1,356	806	426	331	1,935	122	5,626	1,979	69,898	68,962
2025	18,925	588	0	1,223	722	387	341	1,935	122	5,318	1,726	71,624	71,031
2026	16,868	524	0	1,090	639	348	351	1,935	122	5,009	1,500	73,124	73,162
2027	14,812	460	0	957	555	310	362	1,935	122	4,700	1,299	74,423	75,357
2028	12,755	396	0	824	472	271	373	1,935	122	4,392	1,120	75,543	77,618
2029	10,699	332	0	691	389	232	384	1,935	122	4,085	961	76,504	79,946
2030	8,642	268	0	559	305	193	395	1,935	122	3,777	820	77,324	82,345
2031	6,586	204	0	426	632	155	407	1,935	(289)	3,470	695	78,019	84,815
2032	4,940	153	0	319	976	116	419	1,935	(700)	3,219	595	78,615	87,359
2033	3,705	115	0	239	926	77	432	1,935	(700)	3,025	516	79,131	89,980
2034	2,470	77	0	160	876	39	445	1,935	(700)	2,831	446	79,576	92,680
2035	1,235	38	0	80	826	0	458	1,935	(700)	2,637	383	79,960	95,460

IN SERVICE COST ($000)	48,369
IN SERVICE YEAR	2011
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.4%
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 = 1.65312

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

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION $(000)	ACCUMULATED TAX DEPRECIATION $(000)	BOOK DEPRECIATION $(000)	ACCUMULATED BOOK DEPRECIATION $(000)	BOOK DEPRECIATION FOR DEFERRED TAX $(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	DEFERRED TAX DUE TO DEPRECIATION $(000)	TOTAL EQUITY AFUDC $(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE $(000)	SALVAGE TAX RATE $(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)	ACCUMULATED DEFERRED TAX $(000)
2011	3.75%	1,790	1,790	1,935	1,935	1,814	1,814	(9)	3,031	0	0	0	(9)	(929)
2012	7.22%	3,445	5,235	1,935	3,870	1,814	3,627	629	3,031	0	0	0	629	(299)
2013	6.68%	3,186	8,421	1,935	5,804	1,814	5,441	530	3,031	0	0	0	530	230
2014	6.18%	2,949	11,370	1,935	7,739	1,814	7,254	438	3,031	0	0	0	438	668
2015	5.71%	2,726	14,096	1,935	9,674	1,814	9,068	352	3,031	0	0	0	352	1,020
2016	5.29%	2,522	16,618	1,935	11,609	1,814	10,881	273	3,031	0	0	0	273	1,294
2017	4.89%	2,333	18,951	1,935	13,543	1,814	12,695	200	3,031	0	0	0	200	1,494
2018	4.52%	2,158	21,109	1,935	15,478	1,814	14,508	133	3,031	0	0	0	133	1,627
2019	4.46%	2,129	23,238	1,935	17,413	1,814	16,322	122	3,031	0	0	0	122	1,749
2020	4.46%	2,129	25,367	1,935	19,348	1,814	18,135	122	3,031	0	0	0	122	1,870
2021	4.46%	2,129	27,497	1,935	21,282	1,814	19,949	122	3,031	0	0	0	122	1,992
2022	4.46%	2,129	29,625	1,935	23,217	1,814	21,762	122	3,031	0	0	0	122	2,114
2023	4.46%	2,129	31,755	1,935	25,152	1,814	23,576	122	3,031	0	0	0	122	2,236
2024	4.46%	2,129	33,884	1,935	27,087	1,814	25,389	122	3,031	0	0	0	122	2,357
2025	4.46%	2,129	36,013	1,935	29,021	1,814	27,203	122	3,031	0	0	0	122	2,479
2026	4.46%	2,129	38,142	1,935	30,956	1,814	29,016	122	3,031	0	0	0	122	2,601
2027	4.46%	2,129	40,271	1,935	32,891	1,814	30,830	122	3,031	0	0	0	122	2,723
2028	4.46%	2,129	42,400	1,935	34,826	1,814	32,643	122	3,031	0	0	0	122	2,844
2029	4.46%	2,129	44,529	1,935	36,760	1,814	34,457	122	3,031	0	0	0	122	2,966
2030	4.46%	2,129	46,658	1,935	38,695	1,814	36,270	122	3,031	0	0	0	122	3,088
2031	2.23%	1,065	47,723	1,935	40,630	1,814	38,084	(289)	3,031	0	0	0	(289)	2,799
2032	0.00%	0	47,723	1,935	42,565	1,814	39,897	(700)	3,031	0	0	0	(700)	2,099
2033	0.00%	0	47,723	1,935	44,499	1,814	41,711	(700)	3,031	0	0	0	(700)	1,400
2034	0.00%	0	47,723	1,935	46,434	1,814	43,524	(700)	3,031	0	0	0	(700)	700
2035	0.00%	0	47,723	1,935	48,369	1,814	45,338	(700)	3,031	0	0	0	(700)	1

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(920)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,031
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION $(000)	DEFERRED TAX $(000)	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)
2011	3.75%	1,790	(9)	46,434	1,935	(929)	49,288	47,363	48,326
2012	7.22%	3,445	629	44,499	3,870	(299)	47,363	44,799	46,081
2013	6.68%	3,186	530	42,565	5,804	230	44,799	42,334	43,567
2014	6.18%	2,949	438	40,630	7,739	668	42,334	39,962	41,148
2015	5.71%	2,726	352	38,695	9,674	1,020	39,962	37,675	38,818
2016	5.29%	2,522	273	36,760	11,609	1,294	37,675	35,467	36,571
2017	4.89%	2,333	200	34,826	13,543	1,494	35,467	33,332	34,399
2018	4.52%	2,158	133	32,891	15,478	1,627	33,332	31,264	32,298
2019	4.46%	2,129	122	30,956	17,413	1,749	31,264	29,207	30,236
2020	4.46%	2,129	122	29,021	19,348	1,870	29,207	27,151	28,179
2021	4.46%	2,129	122	27,087	21,282	1,992	27,151	25,094	26,123
2022	4.46%	2,129	122	25,152	23,217	2,114	25,094	23,038	24,066
2023	4.46%	2,129	122	23,217	25,152	2,236	23,038	20,981	22,010
2024	4.46%	2,129	122	21,282	27,087	2,357	20,981	18,925	19,953
2025	4.46%	2,129	122	19,348	29,021	2,479	18,925	16,868	17,897
2026	4.46%	2,129	122	17,413	30,956	2,601	16,868	14,812	15,840
2027	4.46%	2,129	122	15,478	32,891	2,723	14,812	12,755	13,784
2028	4.46%	2,129	122	13,543	34,826	2,844	12,755	10,699	11,727
2029	4.46%	2,129	122	11,609	36,760	2,966	10,699	8,642	9,671
2030	4.46%	2,129	122	9,674	38,695	3,088	8,642	6,586	7,614
2031	2.23%	1,065	(289)	7,739	40,630	2,799	6,586	4,940	5,763
2032	0.00%	0	(700)	5,804	42,565	2,099	4,940	3,705	4,323
2033	0.00%	0	(700)	3,870	44,499	1,400	3,705	2,470	3,087
2034	0.00%	0	(700)	1,935	46,434	700	2,470	1,235	1,852
2035	0.00%	0	(700)	0	48,369	1	1,235	-1	617

*** Column not specified in workbook**

(1)	(2)	(3)	(4)	(5)	(6)	(7)
YEAR	NO.YEARS BEFORE IN-SERVICE	PLANT ESCALATION RATE	CUMULATIVE ESCALATION FACTOR	YEARLY EXPENDITURE (%)	ANNUAL SPENDING ($/kW)	CUMULATIVE AVERAGE SPENDING ($/kW)
2006	-5	0.00%	1.000	0.00%	0.00	0.00
2007	-4	3.00%	1.030	0.00%	0.00	0.00
2008	-3	3.00%	1.061	17.00%	88.76	44.38
2009	-2	3.00%	1.093	59.00%	317.27	247.39
2010	-1	3.00%	1.126	24.00%	132.93	472.50
				100.00%	538.96	

YEAR	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)
2006	-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	44.38	1.38	1.38	3.48	3.48	3.06	3.06	(0.65)	(0.65)	92.23	92.23
2009	-2	250.87	7.81	9.19	19.72	23.20	17.28	20.34	(3.65)	(4.30)	336.99	429.23
2010	-1	495.69	15.52	24.71	39.20	62.40	34.01	54.35	(7.13)	(11.43)	172.13	601.36
			24.71		62.40		54.35		(11.43)		601.36	

IN SERVICE YEAR	2011
PLANT COSTS	492.12
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	43,350	43,350	43,350
EQUITY AFUDC	3,031		
DEBT AFUDC	1,988	1,988	
CPI			4,371
TOTAL	48,369	45,338	47,721

* Column not specified in workbook

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

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2006	0	0	7.71	9.50	8.58	0.00	1.00	1.00
2007	13,316	13,316	7.74	9.44	8.34	0.00	1.00	1.00
2008	28,839	28,839	6.46	8.27	7.05	0.00	1.00	1.00
2009	46,403	46,403	6.20	7.86	6.79	0.00	1.00	1.00
2010	65,071	65,071	5.58	7.09	6.11	0.00	1.00	1.00
2011	65,071	65,071	5.89	7.54	6.46	7.52	1.00	1.00
2012	65,071	65,071	6.06	7.77	6.65	6.80	1.00	1.00
2013	65,071	65,071	6.29	8.20	6.96	7.65	1.00	1.00
2014	65,071	65,071	6.43	8.55	7.12	8.10	1.00	1.00
2015	65,071	65,071	6.79	8.90	7.52	7.74	1.00	1.00
2016	65,071	65,071	7.14	9.61	7.88	9.08	1.00	1.00
2017	65,071	65,071	7.21	10.31	7.88	9.93	1.00	1.00
2018	65,071	65,071	7.67	11.09	8.37	9.87	1.00	1.00
2019	65,071	65,071	8.05	11.67	8.76	10.52	1.00	1.00
2020	65,071	65,071	8.30	12.07	8.98	10.44	1.00	1.00
2021	65,071	65,071	8.51	12.39	9.18	12.95	1.00	1.00
2022	65,071	65,071	8.73	12.45	9.37	10.56	1.00	1.00
2023	65,071	65,071	8.86	12.46	9.47	11.55	1.00	1.00
2024	65,071	65,071	8.91	12.02	9.41	15.91	1.00	1.00
2025	65,071	65,071	9.22	12.36	9.71	14.25	1.00	1.00
2026	65,071	65,071	9.42	12.41	9.88	15.42	1.00	1.00
2027	65,071	65,071	9.66	12.56	10.09	17.44	1.00	1.00
2028	65,071	65,071	9.85	12.43	10.22	15.36	1.00	1.00
2029	65,071	65,071	10.04	12.38	10.38	16.09	1.00	1.00
2030	65,071	65,071	10.24	12.38	10.55	18.01	1.00	1.00
2031	65,071	65,071	10.54	12.57	10.84	13.65	1.00	1.00

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

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

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST $(000)	(3) AVOIDED GEN UNIT FIXED O&M $(000)	(4) AVOIDED GEN UNIT VARIABLE O&M $(000)	(5) AVOIDED GEN UNIT FUEL COST $(000)	(6) REPLACEMENT FUEL COST $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	0	0	0	0	0	0
2011	8,727	3,091	27	1,880	2,235	11,490
2012	9,587	3,237	43	3,008	3,097	12,778
2013	9,206	3,389	88	6,288	6,910	12,061
2014	8,838	3,543	102	7,363	8,297	11,551
2015	8,484	3,701	164	11,909	12,354	11,904
2016	8,141	3,868	180	13,647	15,558	10,279
2017	7,809	4,045	135	10,669	12,403	10,257
2018	7,488	4,231	133	10,763	11,785	10,829
2019	7,176	4,424	119	9,879	10,945	10,652
2020	6,865	4,627	100	8,505	8,905	11,192
2021	6,555	4,839	101	8,639	10,861	9,273
2022	6,245	5,059	87	7,426	7,381	11,436
2023	5,936	5,284	80	6,932	7,288	10,945
2024	5,626	5,517	62	5,399	7,577	9,028
2025	5,318	5,759	64	5,555	6,755	9,940
2026	5,009	6,011	59	5,221	6,643	9,658
2027	4,700	6,275	56	4,941	6,897	9,076
2028	4,392	6,549	47	4,208	5,008	10,189
2029	4,085	6,836	45	4,044	4,888	10,122
2030	3,777	7,135	40	3,582	4,693	9,841
2031	3,470	7,447	38	3,391	3,257	11,088
NOM	137,434	104,867	1,772	143,249	163,735	223,587
NPV	52,198	31,064	641	50,370	56,765	77,509

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

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST $(000)	AVOIDED TRANSMISSION O&M COST $(000)	TOTAL AVOIDED TRANSMISSION COST $(000)	AVOIDED DISTRIBUTION CAP COST $(000)	AVOIDED DISTRIBUTION O&M COST $(000)	TOTAL AVOIDED DISTRIBUTION COST $(000)	PROGRAM FUEL SAVINGS $(000)	PROGRAM OFF-PEAK PAYBACK $(000)
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	1,445	657
2008	458	48	506	40	13	53	4,061	1,736
2009	979	109	1,088	86	29	115	6,863	2,972
2010	1,557	183	1,740	136	48	185	9,181	3,966
2011	2,160	268	2,428	189	71	260	11,428	4,890
2012	2,080	280	2,361	182	74	256	11,777	5,030
2013	2,000	294	2,294	175	78	253	12,479	5,219
2014	1,923	307	2,230	168	81	250	13,068	5,335
2015	1,848	321	2,169	162	85	247	13,568	5,632
2016	1,776	335	2,111	156	89	244	14,744	5,922
2017	1,706	351	2,056	149	93	242	16,043	5,981
2018	1,636	367	2,003	143	97	240	17,291	6,365
2019	1,567	383	1,950	137	101	239	18,205	6,682
2020	1,498	401	1,899	131	106	237	18,835	6,890
2021	1,429	419	1,849	125	111	236	19,354	7,063
2022	1,361	438	1,799	119	116	235	19,357	7,240
2023	1,292	458	1,750	113	121	234	19,302	7,355
2024	1,223	478	1,701	107	126	233	18,434	7,394
2025	1,154	499	1,653	101	132	233	18,932	7,645
2026	1,085	521	1,606	95	138	233	18,929	7,818
2027	1,016	544	1,560	89	144	233	19,097	8,011
2028	949	567	1,516	83	150	233	18,760	8,169
2029	886	592	1,478	78	157	234	18,571	8,327
2030	830	618	1,448	73	163	236	18,466	8,492
2031	781	645	1,426	68	171	239	18,691	8,745
NOM.	33,195	9,426	42,620	2,908	2,491	5,399	376,879	153,535
NPV	13,829	2,950	16,780	1,211	780	1,991	127,800	51,864

* 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 Heating, Ventilating and Air Conditioning**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS $(000)	UTILITY PROGRAM COSTS $(000)	PARTICIPANT PROGRAM COSTS $(000)	OTHER COSTS $(000)	TOTAL COSTS $(000)	AVOIDED GEN UNIT BENEFITS $(000)	AVOIDED T&D BENEFITS $(000)	PROGRAM FUEL SAVINGS $(000)	OTHER BENEFITS $(000)	TOTAL BENEFITS $(000)	NET BENEFITS $(000)	CUMULATIVE DISCOUNTED NET BENEFITS $(000)
2006	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	910	14,231	0	15,141	0	0	788	0	788	(14,354)	(13,245)
2008	0	1,087	17,023	0	18,110	0	559	2,325	0	2,884	(15,226)	(26,210)
2009	0	1,258	19,773	0	21,031	0	1,203	3,891	0	5,093	(15,938)	(38,733)
2010	0	1,368	21,699	0	23,067	0	1,925	5,216	0	7,141	(15,927)	(50,281)
2011	0	0	624	0	624	11,490	2,688	6,538	0	20,716	20,093	(36,838)
2012	0	0	640	0	640	12,778	2,617	6,747	0	22,142	21,502	(23,563)
2013	0	0	658	0	658	12,061	2,546	7,259	0	21,866	21,209	(11,481)
2014	0	0	675	0	675	11,551	2,479	7,733	0	21,763	21,088	(395)
2015	0	0	693	0	693	11,904	2,415	7,936	0	22,255	21,562	10,064
2016	0	0	712	0	712	10,279	2,355	8,821	0	21,455	20,744	19,349
2017	0	3	795	0	798	10,257	2,298	10,061	0	22,616	21,819	28,362
2018	0	3	818	0	822	10,829	2,243	10,927	0	23,998	23,177	37,195
2019	0	3	843	0	846	10,652	2,189	11,523	0	24,364	23,518	45,467
2020	0	4	868	0	872	11,192	2,136	11,946	0	25,274	24,403	53,386
2021	0	0	815	0	815	9,273	2,085	12,291	0	23,649	22,834	60,224
2022	0	179	4,700	0	4,879	11,436	2,034	12,116	0	25,586	20,707	65,947
2023	0	215	5,531	0	5,746	10,945	1,984	11,947	0	24,876	19,130	70,825
2024	0	252	6,374	0	6,626	9,028	1,934	11,040	0	22,002	15,376	74,443
2025	0	290	7,227	0	7,517	9,940	1,886	11,286	0	23,112	15,595	77,830
2026	0	0	933	0	933	9,658	1,839	11,111	0	22,607	21,674	82,172
2027	0	1,331	20,452	0	21,783	9,076	1,793	11,086	0	21,955	172	82,204
2028	0	1,598	24,217	0	25,815	10,189	1,749	10,591	0	22,529	(3,286)	81,643
2029	0	1,857	27,881	0	29,738	10,122	1,713	10,245	0	22,079	(7,659)	80,438
2030	0	2,009	30,053	0	32,062	9,841	1,684	9,974	0	21,499	(10,563)	78,903
2031	0	0	1,069	0	1,069	11,088	1,665	9,946	0	22,699	21,630	81,803
NOM	0	12,369	209,303	0	221,672	223,587	48,020	223,344	0	494,950	273,278	
NPV	0	5,081	85,332	0	90,413	77,509	18,771	75,936	0	172,215	81,803	

Discount Rate: 8.37 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 1.90

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

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
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)
2006	0	0	0	0	0	0	0	0	0	0	0
2007	1,073	0	9,492	0	10,565	14,174	57	0	14,231	(3,666)	(3,383)
2008	3,315	0	11,210	0	14,526	16,839	185	0	17,023	(2,498)	(5,510)
2009	5,888	0	12,597	0	18,485	19,434	339	0	19,773	(1,288)	(6,522)
2010	8,499	0	13,386	0	21,884	21,181	518	0	21,699	185	(6,388)
2011	9,791	0	0	0	9,791	0	624	0	624	9,167	(255)
2012	9,867	0	0	0	9,867	0	640	0	640	9,226	5,442
2013	9,924	0	0	0	9,924	0	658	0	658	9,267	10,721
2014	9,972	0	0	0	9,972	0	675	0	675	9,297	15,608
2015	10,014	0	0	0	10,014	0	693	0	693	9,321	20,130
2016	10,017	0	0	0	10,017	0	712	0	712	9,305	24,295
2017	10,111	0	22	0	10,133	64	731	0	795	9,338	28,152
2018	10,235	0	22	0	10,257	67	751	0	818	9,439	31,750
2019	10,345	0	23	0	10,368	71	772	0	843	9,525	35,100
2020	10,471	0	24	0	10,495	75	794	0	868	9,627	38,224
2021	10,550	0	0	0	10,550	0	815	0	815	9,734	41,139
2022	10,834	0	938	0	11,772	3,862	838	0	4,700	7,073	43,094
2023	10,942	0	1,119	0	12,061	4,670	861	0	5,531	6,530	44,759
2024	11,086	0	1,292	0	12,378	5,489	884	0	6,374	6,004	46,172
2025	11,239	0	1,457	0	12,696	6,319	909	0	7,227	5,469	47,359
2026	11,395	0	0	0	11,395	0	933	0	933	10,462	49,455
2027	11,554	0	8,554	0	20,108	19,493	959	0	20,452	(344)	49,392
2028	11,716	0	10,092	0	21,807	23,231	985	0	24,217	(2,409)	48,981
2029	11,880	0	11,306	0	23,186	26,868	1,012	0	27,881	(4,695)	48,242
2030	12,047	0	11,929	0	23,976	29,012	1,040	0	30,053	(6,076)	47,359
2031	12,218	0	0	0	12,218	0	1,069	0	1,069	11,149	48,853
NOM	244,983	0	93,462	0	338,445	190,849	18,454	0	209,303	129,142	
NPV	88,263	0	45,922	0	134,186	79,079	6,253	0	85,332	48,853	

In Service of Gen Unit: 2011
Discount Rate : 8.37 %
Benefit/Cost Ratio (Col(6) / Col(10)) 1.57

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

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS $(000)	UTILITY PROGRAM COSTS $(000)	INCENTIVES $(000)	REVENUE LOSSES $(000)	OTHER COSTS $(000)	TOTAL COSTS $(000)	AVOIDED GEN UNIT & FUEL BENEFITS $(000)	AVOIDED T&D BENEFITS $(000)	REVENUE GAINS $(000)	OTHER BENEFITS $(000)	TOTAL BENEFITS $(000)	NET BENEFITS $(000)	CUMULATIVE DISCOUNTED NET BENEFITS $(000)
2006	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	910	9,492	915	0	11,318	788	0	0	0	788	(10,530)	(9,717)
2008	0	1,087	11,210	2,833	0	15,131	2,325	559	0	0	2,884	(12,247)	(20,145)
2009	0	1,258	12,597	5,035	0	18,890	3,891	1,203	0	0	5,093	(13,797)	(30,986)
2010	0	1,368	13,386	7,230	0	21,984	5,216	1,925	0	0	7,141	(14,844)	(41,748)
2011	0	0	0	8,282	0	8,282	18,028	2,688	0	0	20,716	12,434	(33,429)
2012	0	0	0	8,338	0	8,338	19,525	2,617	0	0	22,142	13,804	(24,907)
2013	0	0	0	8,365	0	8,365	19,320	2,546	0	0	21,866	13,502	(17,215)
2014	0	0	0	8,393	0	8,393	19,284	2,479	0	0	21,763	13,370	(10,187)
2015	0	0	0	8,409	0	8,409	19,840	2,415	0	0	22,255	13,846	(3,470)
2016	0	0	0	8,386	0	8,386	19,100	2,355	0	0	21,455	13,069	2,380
2017	0	3	22	8,455	0	8,479	20,318	2,298	0	0	22,616	14,137	8,219
2018	0	3	22	8,546	0	8,571	21,755	2,243	0	0	23,998	15,427	14,099
2019	0	3	23	8,623	0	8,649	22,175	2,189	0	0	24,364	15,715	19,626
2020	0	4	24	8,715	0	8,742	23,138	2,136	0	0	25,274	16,532	24,991
2021	0	0	0	8,768	0	8,768	21,564	2,085	0	0	23,649	14,880	29,448
2022	0	179	938	9,003	0	10,120	23,552	2,034	0	0	25,586	15,466	33,722
2023	0	215	1,119	9,084	0	10,418	22,892	1,984	0	0	24,876	14,458	37,409
2024	0	252	1,292	9,192	0	10,736	20,068	1,934	0	0	22,002	11,266	40,060
2025	0	290	1,457	9,307	0	11,054	21,226	1,886	0	0	23,112	12,058	42,678
2026	0	0	0	9,424	0	9,424	20,769	1,839	0	0	22,607	13,184	45,319
2027	0	1,331	8,554	9,543	0	19,428	20,162	1,793	0	0	21,955	2,527	45,787
2028	0	1,598	10,092	9,664	0	21,354	20,780	1,749	0	0	22,529	1,176	45,987
2029	0	1,857	11,306	9,787	0	22,950	20,367	1,713	0	0	22,079	(871)	45,850
2030	0	2,009	11,929	9,912	0	23,850	19,815	1,684	0	0	21,499	(2,351)	45,508
2031	0	0	0	10,040	0	10,040	21,034	1,665	0	0	22,699	12,659	47,205
NOM.	0	12,369	93,462	204,250	0	310,081	446,931	48,020	0	0	494,950	184,869	
NPV	0	5,081	45,922	74,007	0	125,010	153,445	18,771	0	0	172,215	47,205	

Discount Rate 8.37 %

Benefit/Cost Ratio (Col(12) / Col(7)) : 1.38

Program Name: Residential Air Conditioning Program

Attachment A

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Participants	(d) Cumulative Penetration Level %
2006	3,910,167	1,577,348	95,826	6%
2007	3,985,164	1,625,819	84,610	11%
2008	4,060,181	1,673,572	91,770	16%
2009	4,133,181	1,720,372	99,179	22%
2010	4,205,546	1,767,180	106,731	27%
2011	4,275,556	1,813,391	114,423	33%
2012	4,343,167	1,859,162	122,305	38%
2013	4,409,366	1,905,004	130,455	44%
2014	4,475,348	1,951,117	138,958	50%

Note: Column a - The total number of customers in residential rate class

Column b - The total number of eligible customers in residential rate class

Column d - Column c cumulative / Column b (does not reflect participation prior to 2006)

Attachment B - At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2006	558	0.07	0.27	53,490,963	6,681	25,824
2007	551	0.07	0.27	46,623,909	5,788	22,910
2008	538	0.07	0.27	49,414,379	6,272	24,493
2009	526	0.07	0.26	52,205,880	6,771	26,095
2010	515	0.07	0.26	54,941,460	7,279	27,686
2011	504	0.07	0.26	57,620,634	7,796	29,264
2012	493	0.07	0.25	60,270,247	8,325	30,841
2013	482	0.07	0.25	62,926,371	8,871	32,435
2014	472	0.07	0.25	65,624,922	9,440	34,062

Attachment C - At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2006	601.2568	0.08	0.30	57,616,289	7,344	28,387
2007	594	0.08	0.30	50,219,634	6,363	25,184
2008	580	0.08	0.29	53,225,311	6,894	26,925
2009	567	0.08	0.29	56,232,099	7,443	28,685
2010	554	0.07	0.29	59,178,651	8,002	30,434
2011	542	0.07	0.28	62,064,449	8,570	32,169
2012	531	0.07	0.28	64,918,405	9,151	33,903
2013	520	0.07	0.27	67,779,374	9,751	35,654
2014	509	0.07	0.27	70,686,043	10,378	37,443

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Air Conditioning

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.24	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.32	kW
(3) kW LINE LOSS PERCENTAGE	9.03	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	572.49	kWh
(5) kWh LINE LOSS PERCENTAGE	7.16	%
(6) GROUP LINE LOSS MULTIPLIER	1.00	
(7) CUSTOMER kWh INCREASE AT METER	0.00	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	26	YEARS
(2) GENERATOR ECONOMIC LIFE	25	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.65312	
(5) K FACTOR FOR T & D	1.61194	

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	8.37	%
* (11) UTILITY AFUDC RATE	7.84	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RATE	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	2006	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2011	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	2009-2011	
(4) BASE YEAR AVOIDED GENERATING COST	492.12	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	147.00	$/kW
(6) BASE YEAR DISTRIBUTION COST	17.27	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	3.00	%**
(8) GENERATOR FIXED O & M COST	30.93	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	4.35	%**
(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	4.35	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.082	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	1.99	%**
(15) GENERATOR CAPACITY FACTOR	4%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	6.32	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.44	%**

V. NON-FUEL ENERGY AND DEMAND CHARGES

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

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

* INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: **Residential Air Conditioning**

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES $(000)	(2) UTILITY INCENTIVES $(000)	(3) OTHER UTILITY COSTS $(000)	(4) TOTAL UTILITY PROGRAM COSTS $(000)	(5) ENERGY CHARGE REVENUE LOSSES $(000)	(6) DEMAND CHARGE REVENUE LOSSES $(000)	(7) PARTICIPANT EQUIPMENT COSTS $(000)	(8) PARTICIPANT O&M COSTS $(000)	(9) OTHER PARTICIPANT COSTS $(000)	(10) TOTAL PARTICIPANT COSTS $(000)
2006	0	0	0	0	0	0	0	0	0	0
2007	2,404	30,606	0	33,010	2,032	0	65,381	0	0	65,381
2008	2,604	32,121	0	34,725	6,103	0	70,135	0	0	70,135
2009	2,813	33,604	0	36,417	10,572	0	75,060	0	0	75,060
2010	3,033	35,016	0	38,049	15,206	0	80,177	0	0	80,177
2011	0	0	0	0	17,716	0	0	0	0	0
2012	0	0	0	0	17,922	0	0	0	0	0
2013	0	0	0	0	18,190	0	0	0	0	0
2014	0	0	0	0	18,367	0	0	0	0	0
2015	0	0	0	0	18,583	0	0	0	0	0
2016	0	0	0	0	18,762	0	0	0	0	0
2017	0	0	0	0	19,024	0	0	0	0	0
2018	0	0	0	0	19,353	0	0	0	0	0
2019	0	0	0	0	19,677	0	0	0	0	0
2020	0	0	0	0	20,026	0	0	0	0	0
2021	0	0	0	0	20,269	0	0	0	0	0
2022	3,543	30,606	0	34,149	20,872	0	96,352	0	0	96,352
2023	3,860	32,121	0	35,981	21,148	0	103,977	0	0	103,977
2024	4,192	33,604	0	37,796	21,525	0	111,855	0	0	111,855
2025	4,533	35,016	0	39,549	21,908	0	119,847	0	0	119,847
2026	0	0	0	0	22,299	0	0	0	0	0
2027	0	0	0	0	22,696	0	0	0	0	0
2028	0	0	0	0	23,100	0	0	0	0	0
2029	0	0	0	0	23,512	0	0	0	0	0
2030	0	0	0	0	23,931	0	0	0	0	0
2031	0	0	0	0	24,357	0	0	0	0	0
NOM	26,982	262,694	0	289,675	467,152	0	722,785	0	0	722,785
NPV	12,779	139,544	0	152,322	165,507	0	342,644	0	0	342,644

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

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

YEAR	(2) BEG-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) PROPERTY TAX $(000)	(8) PROPERTY INSURANCE $(000)	(9) DEPREC. $(000)	(10) DEFERRED TAXES $(000)	(11) TOTAL FIXED CHARGES $(000)	(12) PRESENT WORTH FIXED CHARGES $(000)	(13) CUMULATIVE PW FIXED CHARGES $(000)	(14) REPLACEMENT COST BASIS FOR PROPERTY INSURANCE $(000)
2011	73,901	2,295	0	4,776	3,127	0	0	2,901	(14)	13,085	13,085	13,085	72,522
2012	71,014	2,205	0	4,589	2,053	1,334	348	2,901	944	14,374	13,264	26,348	72,522
2013	67,169	2,086	0	4,341	2,046	1,276	359	2,901	794	13,802	11,753	38,101	74,698
2014	63,474	1,971	0	4,102	2,033	1,218	369	2,901	657	13,252	10,412	48,513	76,939
2015	59,917	1,860	0	3,872	2,018	1,160	380	2,901	528	12,720	9,223	57,736	79,247
2016	56,488	1,754	0	3,651	1,997	1,102	392	2,901	410	12,206	8,166	65,903	81,624
2017	53,177	1,651	0	3,437	1,972	1,044	404	2,901	300	11,709	7,229	73,131	84,073
2018	49,976	1,552	0	3,230	1,943	986	416	2,901	199	11,227	6,396	79,527	86,595
2019	46,876	1,455	0	3,029	1,834	928	428	2,901	183	10,759	5,656	85,183	89,193
2020	43,792	1,360	0	2,830	1,709	870	441	2,901	182	10,293	4,993	90,176	91,869
2021	40,709	1,264	0	2,631	1,584	812	454	2,901	183	9,829	4,399	94,575	94,625
2022	37,626	1,168	0	2,432	1,459	754	468	2,901	182	9,364	3,868	98,443	97,464
2023	34,542	1,073	0	2,232	1,333	696	482	2,901	183	8,900	3,392	101,835	100,388
2024	31,459	977	0	2,033	1,209	638	496	2,901	182	8,436	2,967	104,802	103,399
2025	28,375	881	0	1,834	1,083	580	511	2,901	183	7,973	2,588	107,390	106,501
2026	25,292	785	0	1,634	958	522	527	2,901	182	7,510	2,249	109,639	109,696
2027	22,209	690	0	1,435	833	464	542	2,901	183	7,048	1,948	111,586	112,987
2028	19,125	594	0	1,236	708	406	559	2,901	182	6,586	1,679	113,266	116,377
2029	16,042	498	0	1,037	583	348	575	2,901	183	6,124	1,441	114,707	119,868
2030	12,958	402	0	837	458	290	593	2,901	182	5,663	1,230	115,937	123,464
2031	9,875	307	0	638	948	232	610	2,901	(433)	5,203	1,043	116,979	127,168
2032	7,407	230	0	479	1,464	174	629	2,901	(1,049)	4,827	892	117,872	130,983
2033	5,555	172	0	359	1,389	116	648	2,901	(1,049)	4,536	774	118,645	134,913
2034	3,703	115	0	239	1,313	58	667	2,901	(1,049)	4,245	668	119,314	138,960
2035	1,851	57	0	120	1,238	0	687	2,901	(1,049)	3,954	574	119,888	143,129

IN SERVICE COST ($000)	72,522
IN SERVICE YEAR	2011
BOOK LIFE (YRS)	25
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.4%
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 = 1.65312

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

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION $(000)	ACCUMULATED TAX DEPRECIATION $(000)	BOOK DEPRECIATION $(000)	ACCUMULATED BOOK DEPRECIATION $(000)	BOOK DEPRECIATION FOR DEFERRED TAX $(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	DEFERRED TAX DUE TO DEPRECIATION $(000)	TOTAL EQUITY AFUDC $(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE $(000)	SALVAGE TAX RATE $(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)	ACCUMULATED DEFERRED TAX $(000)
2011	3.75%	2,683	2,683	2,901	2,901	2,719	2,719	(14)	4,545	0	0	0	(14)	(1,393)
2012	7.22%	5,165	7,848	2,901	5,802	2,719	5,438	944	4,545	0	0	0	944	(449)
2013	6.68%	4,777	12,626	2,901	8,703	2,719	8,157	794	4,545	0	0	0	794	345
2014	6.18%	4,422	17,048	2,901	11,604	2,719	10,876	657	4,545	0	0	0	657	1,002
2015	5.71%	4,088	21,136	2,901	14,504	2,719	13,595	528	4,545	0	0	0	528	1,530
2016	5.29%	3,781	24,917	2,901	17,405	2,719	16,315	410	4,545	0	0	0	410	1,940
2017	4.89%	3,497	28,415	2,901	20,306	2,719	19,034	300	4,545	0	0	0	300	2,240
2018	4.52%	3,236	31,650	2,901	23,207	2,719	21,753	199	4,545	0	0	0	199	2,439
2019	4.46%	3,193	34,843	2,901	26,108	2,719	24,472	183	4,545	0	0	0	183	2,622
2020	4.46%	3,192	38,035	2,901	29,009	2,719	27,191	182	4,545	0	0	0	182	2,804
2021	4.46%	3,193	41,227	2,901	31,910	2,719	29,910	183	4,545	0	0	0	183	2,987
2022	4.46%	3,192	44,419	2,901	34,811	2,719	32,629	182	4,545	0	0	0	182	3,169
2023	4.46%	3,193	47,612	2,901	37,712	2,719	35,348	183	4,545	0	0	0	183	3,352
2024	4.46%	3,192	50,804	2,901	40,612	2,719	38,067	182	4,545	0	0	0	182	3,534
2025	4.46%	3,193	53,996	2,901	43,513	2,719	40,786	183	4,545	0	0	0	183	3,717
2026	4.46%	3,192	57,188	2,901	46,414	2,719	43,506	182	4,545	0	0	0	182	3,899
2027	4.46%	3,193	60,381	2,901	49,315	2,719	46,225	183	4,545	0	0	0	183	4,082
2028	4.46%	3,192	63,573	2,901	52,216	2,719	48,944	182	4,545	0	0	0	182	4,264
2029	4.46%	3,193	66,765	2,901	55,117	2,719	51,663	183	4,545	0	0	0	183	4,447
2030	4.46%	3,192	69,957	2,901	58,018	2,719	54,382	182	4,545	0	0	0	182	4,630
2031	2.23%	1,596	71,554	2,901	60,919	2,719	57,101	(433)	4,545	0	0	0	(433)	4,196
2032	0.00%	0	71,554	2,901	63,820	2,719	59,820	(1,049)	4,545	0	0	0	(1,049)	3,148
2033	0.00%	0	71,554	2,901	66,720	2,719	62,539	(1,049)	4,545	0	0	0	(1,049)	2,099
2034	0.00%	0	71,554	2,901	69,621	2,719	65,258	(1,049)	4,545	0	0	0	(1,049)	1,050
2035	0.00%	0	71,554	2,901	72,522	2,719	67,977	(1,049)	4,545	0	0	0	(1,049)	1

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,379)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	4,545
BOOK DEPR RATE - 1/USEFUL LIFE	4.00%

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

(1)	(2)	(3)	(4)	(5)	(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)
2011	3.75%	2,683	(14)	69,621	2,901	(1,393)	73,901	71,014	72,457
2012	7.22%	5,165	944	66,720	5,802	(449)	71,014	67,169	69,092
2013	6.68%	4,777	794	63,820	8,703	345	67,169	63,474	65,322
2014	6.18%	4,422	657	60,919	11,604	1,002	63,474	59,917	61,696
2015	5.71%	4,088	528	58,018	14,504	1,530	59,917	56,488	58,202
2016	5.29%	3,781	410	55,117	17,405	1,940	56,488	53,177	54,833
2017	4.89%	3,497	300	52,216	20,306	2,240	53,177	49,976	51,577
2018	4.52%	3,236	199	49,315	23,207	2,439	49,976	46,876	48,426
2019	4.46%	3,193	183	46,414	26,108	2,622	46,876	43,792	45,334
2020	4.46%	3,192	182	43,513	29,009	2,804	43,792	40,709	42,251
2021	4.46%	3,193	183	40,612	31,910	2,987	40,709	37,626	39,167
2022	4.46%	3,192	182	37,712	34,811	3,169	37,626	34,542	36,084
2023	4.46%	3,193	183	34,811	37,712	3,352	34,542	31,459	33,000
2024	4.46%	3,192	182	31,910	40,612	3,534	31,459	28,375	29,917
2025	4.46%	3,193	183	29,009	43,513	3,717	28,375	25,292	26,834
2026	4.46%	3,192	182	26,108	46,414	3,899	25,292	22,209	23,750
2027	4.46%	3,193	183	23,207	49,315	4,082	22,209	19,125	20,667
2028	4.46%	3,192	182	20,306	52,216	4,264	19,125	16,042	17,583
2029	4.46%	3,193	183	17,405	55,117	4,447	16,042	12,958	14,500
2030	4.46%	3,192	182	14,504	58,018	4,630	12,958	9,875	11,417
2031	2.23%	1,596	(433)	11,604	60,919	4,196	9,875	7,407	8,641
2032	0.00%	0	(1,049)	8,703	63,820	3,148	7,407	5,555	6,481
2033	0.00%	0	(1,049)	5,802	66,720	2,099	5,555	3,703	4,629
2034	0.00%	0	(1,049)	2,901	69,621	1,050	3,703	1,851	2,777
2035	0.00%	0	(1,049)	0	72,522	1	1,851	-1	925

* Column not specified in workbook

(1)	(2)	(3)	(4)	(5)	(6)	(7)
YEAR	NO.YEARS BEFORE IN-SERVICE	PLANT ESCALATION RATE	CUMULATIVE ESCALATION FACTOR	YEARLY EXPENDITURE (%)	ANNUAL SPENDING ($/kW)	CUMULATIVE AVERAGE SPENDING ($/kW)
2006	-5	0.00%	1.000	0.00%	0.00	0.00
2007	-4	3.00%	1.030	0.00%	0.00	0.00
2008	-3	3.00%	1.061	17.00%	88.76	44.38
2009	-2	3.00%	1.093	59.00%	317.27	247.39
2010	-1	3.00%	1.126	24.00%	132.93	472.50
				100.00%	538.96	

YEAR	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)
2006	-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	44.38	1.38	1.38	3.48	3.48	3.06	3.06	(0.65)	(0.65)	92.23	92.23
2009	-2	250.87	7.81	9.19	19.72	23.20	17.28	20.34	(3.65)	(4.30)	336.99	429.23
2010	-1	495.69	15.52	24.71	39.20	62.40	34.01	54.35	(7.13)	(11.43)	172.13	601.36
			24.71		62.40		54.35		(11.43)		601.36	

IN SERVICE YEAR	2011
PLANT COSTS	492.12
AFUDC RATE	7.84%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	64,997	64,997	64,997
EQUITY AFUDC	4,545		
DEBT AFUDC	2,980	2,980	
CPI			6,554
TOTAL	72,522	67,977	71,552

* Column not specified in workbook

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

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2006	0	0	7.71	9.50	8.58	0.00	1.00	1.00
2007	84,610	84,610	7.74	9.44	8.34	0.00	1.00	1.00
2008	176,380	176,380	6.46	8.27	7.05	0.00	1.00	1.00
2009	275,559	275,559	6.20	7.86	6.79	0.00	1.00	1.00
2010	382,290	382,290	5.58	7.09	6.11	0.00	1.00	1.00
2011	382,290	382,290	5.89	7.54	6.46	7.52	1.00	1.00
2012	382,290	382,290	6.06	7.77	6.65	6.80	1.00	1.00
2013	382,290	382,290	6.29	8.20	6.96	7.65	1.00	1.00
2014	382,290	382,290	6.43	8.55	7.12	8.10	1.00	1.00
2015	382,290	382,290	6.79	8.90	7.52	7.74	1.00	1.00
2016	382,290	382,290	7.14	9.61	7.88	9.08	1.00	1.00
2017	382,290	382,290	7.21	10.31	7.88	9.93	1.00	1.00
2018	382,290	382,290	7.67	11.09	8.37	9.87	1.00	1.00
2019	382,290	382,290	8.05	11.67	8.76	10.52	1.00	1.00
2020	382,290	382,290	8.30	12.07	8.98	10.44	1.00	1.00
2021	382,290	382,290	8.51	12.39	9.18	12.95	1.00	1.00
2022	382,290	382,290	8.73	12.45	9.37	10.56	1.00	1.00
2023	382,290	382,290	8.86	12.46	9.47	11.55	1.00	1.00
2024	382,290	382,290	8.91	12.02	9.41	15.91	1.00	1.00
2025	382,290	382,290	9.22	12.36	9.71	14.25	1.00	1.00
2026	382,290	382,290	9.42	12.41	9.88	15.42	1.00	1.00
2027	382,290	382,290	9.66	12.56	10.09	17.44	1.00	1.00
2028	382,290	382,290	9.85	12.43	10.22	15.36	1.00	1.00
2029	382,290	382,290	10.04	12.38	10.38	16.09	1.00	1.00
2030	382,290	382,290	10.24	12.38	10.55	18.01	1.00	1.00
2031	382,290	382,290	10.54	12.57	10.84	13.65	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 Air Conditioning**

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST $(000)	(3) AVOIDED GEN UNIT FIXED O&M $(000)	(4) AVOIDED GEN UNIT VARIABLE O&M $(000)	(5) AVOIDED GEN UNIT FUEL COST $(000)	(6) REPLACEMENT FUEL COST $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)
2006	0	0	0	0	0	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	0	0	0	0	0	0
2010	0	0	0	0	0	0
2011	13,085	4,635	41	2,818	3,351	17,228
2012	14,374	4,854	65	4,511	4,644	19,159
2013	13,802	5,082	132	9,428	10,361	18,083
2014	13,252	5,313	153	11,040	12,439	17,319
2015	12,720	5,549	245	17,856	18,523	17,848
2016	12,206	5,800	270	20,462	23,327	15,411
2017	11,709	6,066	203	15,997	18,596	15,378
2018	11,227	6,343	199	16,137	17,670	16,236
2019	10,759	6,633	178	14,811	16,411	15,971
2020	10,293	6,937	150	12,753	13,352	16,781
2021	9,829	7,255	152	12,953	16,284	13,903
2022	9,364	7,586	130	11,134	11,067	17,146
2023	8,900	7,923	120	10,394	10,927	16,410
2024	8,436	8,271	93	8,095	11,360	13,536
2025	7,973	8,635	95	8,329	10,127	14,904
2026	7,510	9,013	89	7,829	9,961	14,480
2027	7,048	9,408	84	7,409	10,341	13,608
2028	6,586	9,820	71	6,310	7,509	15,277
2029	6,124	10,249	68	6,063	7,329	15,176
2030	5,663	10,698	60	5,370	7,036	14,755
2031	5,203	11,165	57	5,084	4,884	16,625
NOM	206,062	157,234	2,656	214,782	245,498	335,237
NPV	78,264	46,576	961	75,523	85,111	116,214

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

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8a)*
YEAR	AVOIDED TRANSMISSION CAP COST $(000)	AVOIDED TRANSMISSION O&M COST $(000)	TOTAL AVOIDED TRANSMISSION COST $(000)	AVOIDED DISTRIBUTION CAP COST $(000)	AVOIDED DISTRIBUTION O&M COST $(000)	TOTAL AVOIDED DISTRIBUTION COST $(000)	PROGRAM FUEL SAVINGS $(000)	PROGRAM OFF-PEAK PAYBACK $(000)
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	2,550	0
2008	743	78	821	65	21	86	7,048	0
2009	1,528	170	1,697	134	45	179	11,534	0
2010	2,356	277	2,633	206	73	280	15,168	0
2011	3,233	402	3,634	283	106	389	18,820	0
2012	3,113	421	3,533	273	111	384	19,400	0
2013	2,993	440	3,433	262	116	379	20,618	0
2014	2,877	460	3,337	252	122	374	21,665	0
2015	2,765	481	3,246	242	127	369	22,442	0
2016	2,658	503	3,160	233	133	366	24,498	0
2017	2,552	526	3,078	224	139	362	26,917	0
2018	2,448	550	2,998	214	145	360	29,058	0
2019	2,344	575	2,919	205	152	357	30,604	0
2020	2,241	601	2,842	196	159	355	31,677	0
2021	2,138	629	2,767	187	166	353	32,559	0
2022	2,035	657	2,692	178	174	352	32,464	0
2023	1,932	686	2,619	169	181	351	32,296	0
2024	1,829	717	2,545	160	189	350	30,636	0
2025	1,725	748	2,473	151	198	349	31,434	0
2026	1,622	781	2,403	142	206	349	31,332	0
2027	1,519	815	2,334	133	215	349	31,540	0
2028	1,418	851	2,269	124	225	349	30,815	0
2029	1,325	888	2,213	116	235	351	30,371	0
2030	1,240	927	2,167	109	245	354	30,079	0
2031	1,167	967	2,135	102	256	358	30,362	0
NOM.	49,801	14,148	63,949	4,363	3,740	8,102	625,887	0
NPV	20,807	4,436	25,243	1,823	1,172	2,995	212,787	0

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

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

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
YEAR	INCREASED SUPPLY COSTS $(000)	UTILITY PROGRAM COSTS $(000)	PARTICIPANT PROGRAM COSTS $(000)	OTHER COSTS $(000)	TOTAL COSTS $(000)	AVOIDED GEN UNIT BENEFITS $(000)	AVOIDED T&D BENEFITS $(000)	PROGRAM FUEL SAVINGS $(000)	OTHER BENEFITS $(000)	TOTAL BENEFITS $(000)	NET BENEFITS $(000)	CUMULATIVE DISCOUNTED NET BENEFITS $(000)
2006	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	2,404	65,381	0	67,785	0	0	2,550	0	2,550	(65,235)	(60,197)
2008	0	2,604	70,135	0	72,739	0	907	7,048	0	7,955	(64,784)	(115,360)
2009	0	2,813	75,060	0	77,873	0	1,876	11,534	0	13,410	(64,463)	(166,010)
2010	0	3,033	80,177	0	83,210	0	2,913	15,168	0	18,081	(65,129)	(213,232)
2011	0	0	0	0	0	17,228	4,024	18,820	0	40,072	40,072	(186,422)
2012	0	0	0	0	0	19,159	3,917	19,400	0	42,476	42,476	(160,199)
2013	0	0	0	0	0	18,083	3,812	20,618	0	42,513	42,513	(135,979)
2014	0	0	0	0	0	17,319	3,711	21,665	0	42,695	42,695	(113,535)
2015	0	0	0	0	0	17,848	3,616	22,442	0	43,906	43,906	(92,237)
2016	0	0	0	0	0	15,411	3,526	24,498	0	43,435	43,435	(72,794)
2017	0	0	0	0	0	15,378	3,440	26,917	0	45,735	45,735	(53,904)
2018	0	0	0	0	0	16,236	3,357	29,058	0	48,651	48,651	(35,360)
2019	0	0	0	0	0	15,971	3,277	30,604	0	49,852	49,852	(17,827)
2020	0	0	0	0	0	16,781	3,198	31,677	0	51,655	51,655	(1,063)
2021	0	0	0	0	0	13,903	3,120	32,559	0	49,582	49,582	13,786
2022	0	3,543	96,352	0	99,895	17,146	3,044	32,464	0	52,654	(47,241)	731
2023	0	3,860	103,977	0	107,837	16,410	2,969	32,296	0	51,675	(56,162)	(13,590)
2024	0	4,192	111,855	0	116,047	13,536	2,895	30,636	0	47,067	(68,980)	(29,822)
2025	0	4,533	119,847	0	124,380	14,904	2,822	31,434	0	49,160	(75,221)	(46,155)
2026	0	0	0	0	0	14,480	2,751	31,332	0	48,563	48,563	(36,425)
2027	0	0	0	0	0	13,608	2,682	31,540	0	47,831	47,831	(27,581)
2028	0	0	0	0	0	15,277	2,618	30,815	0	48,710	48,710	(19,271)
2029	0	0	0	0	0	15,176	2,563	30,371	0	48,110	48,110	(11,697)
2030	0	0	0	0	0	14,755	2,521	30,079	0	47,356	47,356	(4,817)
2031	0	0	0	0	0	16,625	2,493	30,362	0	49,479	49,479	1,815
NOM	0	26,982	722,785	0	749,767	335,237	72,051	625,887	0	1,033,174	283,408	
NPV	0	12,779	342,644	0	355,423	116,214	28,238	212,787	0	357,238	1,815	

Discount Rate: 8.37 %
Benefit/Cost Ratio (Col(11) / Col(6)) : 1.01

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

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS $(000)	TAX CREDITS $(000)	UTILITY REBATES $(000)	OTHER BENEFITS $(000)	TOTAL BENEFITS $(000)	CUSTOMER EQUIPMENT COSTS $(000)	CUSTOMER O&M COSTS $(000)	OTHER COSTS $(000)	TOTAL COSTS $(000)	NET BENEFITS $(000)	CUMULATIVE DISCOUNTED NET BENEFITS $(000)
2006	0	0	0	0	0	0	0	0	0	0	0
2007	3,332	0	30,606	0	33,938	65,381	0	0	65,381	(31,443)	(29,015)
2008	10,005	0	32,121	0	42,127	70,135	0	0	70,135	(28,009)	(52,864)
2009	17,331	0	33,604	0	50,935	75,060	0	0	75,060	(24,126)	(71,820)
2010	24,927	0	35,016	0	59,943	80,177	0	0	80,177	(20,234)	(86,491)
2011	29,043	0	0	0	29,043	0	0	0	0	29,043	(67,060)
2012	29,380	0	0	0	29,380	0	0	0	0	29,380	(48,921)
2013	29,820	0	0	0	29,820	0	0	0	0	29,820	(31,933)
2014	30,110	0	0	0	30,110	0	0	0	0	30,110	(16,105)
2015	30,464	0	0	0	30,464	0	0	0	0	30,464	(1,327)
2016	30,758	0	0	0	30,758	0	0	0	0	30,758	12,441
2017	31,187	0	0	0	31,187	0	0	0	0	31,187	25,322
2018	31,726	0	0	0	31,726	0	0	0	0	31,726	37,415
2019	32,257	0	0	0	32,257	0	0	0	0	32,257	48,760
2020	32,829	0	0	0	32,829	0	0	0	0	32,829	59,414
2021	33,229	0	0	0	33,229	0	0	0	0	33,229	69,365
2022	34,216	0	30,606	0	64,822	96,352	0	0	96,352	(31,530)	60,652
2023	34,669	0	32,121	0	66,790	103,977	0	0	103,977	(37,187)	51,169
2024	35,287	0	33,604	0	68,890	111,855	0	0	111,855	(42,965)	41,059
2025	35,915	0	35,016	0	70,931	119,847	0	0	119,847	(48,916)	30,438
2026	36,555	0	0	0	36,555	0	0	0	0	36,555	37,763
2027	37,207	0	0	0	37,207	0	0	0	0	37,207	44,642
2028	37,870	0	0	0	37,870	0	0	0	0	37,870	51,103
2029	38,544	0	0	0	38,544	0	0	0	0	38,544	57,171
2030	39,231	0	0	0	39,231	0	0	0	0	39,231	62,870
2031	39,930	0	0	0	39,930	0	0	0	0	39,930	68,223
NOM	765,823	0	262,694	0	1,028,517	722,785	0	0	722,785	305,731	
NPV	271,323	0	139,544	0	410,867	342,644	0	0	342,644	68,223	

In Service of Gen Unit: 2011
Discount Rate : 8.37 %
Benefit/Cost Ratio (Col(6) / Col(10)) 1.20

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Residential Air Conditioning

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS $(000)	UTILITY PROGRAM COSTS $(000)	INCENTIVES $(000)	REVENUE LOSSES $(000)	OTHER COSTS $(000)	TOTAL COSTS $(000)	AVOIDED GEN UNIT & FUEL BENEFITS $(000)	AVOIDED T&D BENEFITS $(000)	REVENUE GAINS $(000)	OTHER BENEFITS $(000)	TOTAL BENEFITS $(000)	NET BENEFITS $(000)	CUMULATIVE DISCOUNTED NET BENEFITS $(000)
2006	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	2,404	30,606	2,032	0	35,042	2,550	0	0	0	2,550	(32,493)	(29,983)
2008	0	2,604	32,121	6,103	0	40,828	7,048	907	0	0	7,955	(32,873)	(57,974)
2009	0	2,813	33,604	10,572	0	46,988	11,534	1,876	0	0	13,410	(33,578)	(84,358)
2010	0	3,033	35,016	15,206	0	53,254	15,168	2,913	0	0	18,081	(35,174)	(109,860)
2011	0	0	0	17,716	0	17,716	36,048	4,024	0	0	40,072	22,355	(94,903)
2012	0	0	0	17,922	0	17,922	38,559	3,917	0	0	42,476	24,554	(79,744)
2013	0	0	0	18,190	0	18,190	38,702	3,812	0	0	42,513	24,323	(65,888)
2014	0	0	0	18,367	0	18,367	38,984	3,711	0	0	42,695	24,328	(53,099)
2015	0	0	0	18,583	0	18,583	40,291	3,616	0	0	43,906	25,324	(40,815)
2016	0	0	0	18,762	0	18,762	39,909	3,526	0	0	43,435	24,673	(29,771)
2017	0	0	0	19,024	0	19,024	42,295	3,440	0	0	45,735	26,711	(18,738)
2018	0	0	0	19,353	0	19,353	45,294	3,357	0	0	48,651	29,299	(7,571)
2019	0	0	0	19,677	0	19,677	46,575	3,277	0	0	49,852	30,175	3,042
2020	0	0	0	20,026	0	20,026	48,458	3,198	0	0	51,655	31,630	13,307
2021	0	0	0	20,269	0	20,269	46,462	3,120	0	0	49,582	29,313	22,085
2022	0	3,543	30,606	20,872	0	55,021	49,610	3,044	0	0	52,654	(2,367)	21,431
2023	0	3,860	32,121	21,148	0	57,129	48,706	2,969	0	0	51,675	(5,454)	20,041
2024	0	4,192	33,604	21,525	0	59,320	44,172	2,895	0	0	47,067	(12,253)	17,157
2025	0	4,533	35,016	21,908	0	61,458	46,338	2,822	0	0	49,160	(12,298)	14,487
2026	0	0	0	22,299	0	22,299	45,812	2,751	0	0	48,563	26,265	19,749
2027	0	0	0	22,696	0	22,696	45,148	2,682	0	0	47,831	25,134	24,397
2028	0	0	0	23,100	0	23,100	46,092	2,618	0	0	48,710	25,610	28,766
2029	0	0	0	23,512	0	23,512	45,547	2,563	0	0	48,110	24,598	32,638
2030	0	0	0	23,931	0	23,931	44,835	2,521	0	0	47,356	23,425	36,041
2031	0	0	0	24,357	0	24,357	46,986	2,493	0	0	49,479	25,122	39,409
NOM.	0	26,982	262,694	467,152	0	756,827	961,124	72,051	0	0	1,033,174	276,347	
NPV	0	12,779	139,544	165,507	0	317,830	329,001	28,238	0	0	357,238	39,409	

Discount Rate 8.37 %

Benefit/Cost Ratio (Col(12) / Col(7)) : 1.12