Steel Hector & Davis
Tallahassee, Florida

Charles A. Guyton
(904) 222-3423

January 31, 1995

By Hand Delivery

Blanca S. Bayó, Director
Records and Reporting
Florida Public Service Commission
101 East Gaines Street
Tallahassee, Florida 32399

Re: Approval of Demand Side Management Plan
Docket No. 941170-EG

Dear Ms. Bayó:

Enclosed for filing on behalf of Florida Power & Light Company ("FPL") in Docket No. 941170-EG are the original and fifteen (15) copies of the Petition For Approval Of Modifications To Florida Power & Light Company's Demand Side Management Plan, the Demand Side Management Plan of Florida Power & Light Company Plan Document, and the Demand Side Management Plan of Florida Power & Light Company Plan Appendix A.

Attached as Appendices A and B to FPL's petition are the new and revised rate schedules necessary to implement the modifications to FPL's DSM Plan. These rate schedules are for General Service Load Control ("GSLC") and Commercial Industrial Load Control ("CILC"), and the following tariff sheets are being filed:

Original Sheet No. 8.109
Original Sheet No. 8.110
Fifth Revised Sheet No. 8.650
Sixth Revised Sheet No. 8.651
Second Revised Sheet No. 8.652
Second Revised Sheet No. 8.653
First Revised Sheet No. 8.654
First Revised Sheet No. 8.655
Original Sheet No. 8.656
Original Sheet No. 8.657
Original Sheet No. 8.658
Original Sheet No. 8.659
Second Revised Sheet No. 9.490
Second Revised Sheet No. 9.491
First Revised Sheet No. 9.492

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Tallahassee Office
215 South Monroe
Suite 601
Tallahassee, FL 32301-1804
(904) 222-2300
Fax. (904) 222-8410

4000 Southeast Financial Center
Miami, FL 33131-2398
(305) 577-7000
Fax. (305) 358-1418

1900 Phillips Point West
777 South Flagler Drive
West Palm Beach, FL 33401-6198
(407) 650-7200
Fax. (407) 655-1509

The changes to the CILC rate will not change the typical bill, and the GSLC rate is a new rate. The estimated number of customers and the estimated gross decrease in annual revenues for these rates are shown in the Plan Document or on their respective cost-effectiveness analyses in the Plan Appendix A.

A description of the service offered under each rate schedule and the justification and supporting documentation for the changes to CILC are in the Plan Document. The tariff sheets in final form are in Appendix A to the petition. The CILC sheets in legislative format are in Appendix B to the petition.

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

Very truly yours,

Charles A. Guyton

Charles A. Guyton

CAG/sh
encs.
cc: All Parties of Record

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of (1) the Petition For Approval Of Modifications To Florida Power & Light Company's Demand Side Management Plan, (2) the Demand Side Management Plan of Florida Power & Light Company Plan Document, and (3) the Demand Side Management Plan of Florida Power & Light Company Plan Appendix A, were served by Hand Delivery (when indicated with an *) or mailed this 31st day of January, 1995 to the following:

Michael A. Palecki, Esq.*
Division of Legal Services
Florida Public Service Commission
101 East Gaines Street, Room 226
Tallahassee, Florida 32301

James A. McGee, Esq.
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733-4042

G. Edison Holland, Jr., Esq.
Beggs & Lane
Post Office Box 12950
Pensacola, Florida 32576-2950

Lee L. Willis, Esq.*
James D. Beasley, Esq.
Macfarlane, Ausley, et al.
227 South Calhoun Street
Tallahassee, Florida 32302

Debra Swim, Esq.*
Legal Environmental
Assistance Foundation, Inc.
1115 North Gadsden Street
Tallahassee, Florida 32303

Jack Shreve, Esquire*
John Roger Howe, Esquire
Office of Public Counsel
111 West Madison Street, Room 812
Tallahassee, Florida 32399-1400

Robert Scheffel Wright, Esq.*
Landers & Parsons
310 West College Avenue
Third Floor
Tallahassee, Florida 32301

Charles A. Guyton

Charles A. Guyton

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B. DETAILED PROGRAM DESCRIPTIONS

COMMERCIAL/INDUSTRIAL HEATING, VENTILATING, AND AIR CONDITIONING PROGRAM

I. Program Description

FPL's Commercial/Industrial Heating, Ventilating, and Air Conditioning (C/I 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 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.

FPL currently offers the following approved programs:

- Water Cooled Chiller Retrofit Program
- Commercial/Industrial Thermal Energy Storage Program
- Air Cooled Chiller Efficiency Enhancement Program
- Commercial High Efficiency DX HVAC Program

FPL proposes to combine these individual programs into one program and make the following major modifications:

1) allow incentives for water cooled chillers in new construction. The existing Water Cooled Chiller Retrofit Program excludes new construction.

2) allow the minimum eligible efficiency rating to be based on a level more efficient than the Florida Energy Efficiency Code. The existing Water Cooled Chiller Retrofit Program uses the existing equipment efficiency as the baseline.

3) increase the existing Air Cooled Chiller Efficiency Enhancement Program size limits for new construction to allow any size water cooled chiller. The existing program limits water cooled chillers to less than or equal to 120 tons.

4) establish minimum efficiencies based on a level more efficient than the Florida Energy Efficiency Code. The existing Air Cooled Chiller Efficiency Enhancement Program has a minimum Energy Efficiency Ratio (EER) of 10.6.

5) establish $77/kw as the maximum allowable incentive for all heating and air conditioning equipment except for Thermal Energy Storage.

6) increase the maximum allowable incentive for Thermal Energy Storage from $290/kw to $333/kw.

7) allow ventilation measures to receive incentives, not to exceed $112/kw. Presently, there are no ventilation measures offered.

8) allow participation in all programs without requiring a "Business Energy Evaluation".

FPL proposes to implement the above modifications in the third quarter of 1995 based on Commission approval in June 1995.

II. 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 participation rules and regulations specified in the FPL Program Standards.

To qualify, the commercial/industrial customer must submit equipment specifications to FPL. These specifications must meet or exceed FPL's Program Standards. FPL's Program Standards shall consist of both equipment and installation requirements. The Standards will be subject to periodic review and change based on factors such as equipment efficiencies, energy code, program

results and operational considerations. If changed, they will be submitted to the Commission Staff for review as a change in the Program Standards.

The chiller and DX split/packaged electric equipment incentives are based on efficiency improvements above the Florida Energy Efficiency Code. New high efficiency chillers may include adjustable speed drives. Ventilation measures provide the opportunity to reduce kw by improving the HVAC system for eligible customers. The incentive for ventilation measures will not exceed $112/kw for reduced air conditioning load. 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 incentive for heating and air conditioning equipment will not exceed $77/kw, except for thermal energy storage. The incentive for thermal energy storage will not exceed $333/kw. Incentives for thermal energy storage will include both rebates paid for installations and funding for other inducements such as feasibility studies, additional design expenses or maintenance agreements. These incentives are based on cost-effectiveness analyses, an

III. Projected Participation and Savings

The projected demand and energy savings for a typical installation are shown in Attachments B and C. The energy and demand reduction projections are based on engineering assumptions and calculations. These savings are typical for the combined HVAC measures.

The projected participation in this program and resulting savings are shown in Attachments A, B and C. Projected participation is based upon market analyses developed by FPL and includes an estimate of the savings filed in FPL's Cost Effectiveness Goals Results Reporting (CEGRR).

IV. 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. The benefit cost ratios for these analyses are: 1.13 for RIM, 1.97 for TRC, and 2.43 for the Participant Test.

V. Program Monitoring and Evaluation

The impact of this program on demand and energy consumption will be evaluated over time by FPL. Data will be collected from non-participants in order to establish a non-DSM technology baseline. Participants' data will be compared against nonparticipants' data

to establish usage patterns, demand impacts and to validate engineering assumptions.

FPL will utilize any or all three major impact evaluation analysis methods in a manner that most cost-effectively meets the overall impact evaluation objectives--engineering analysis, statistical billing analysis and on-site metering research. As these evaluations proceed, the components to be analyzed and the periods for which data is available will increase, resulting in continual enhancements in the scope and accuracy of reported evaluation results.

Attachment B

Program Name: **Commercial/Industrial Heating, Ventilating and Air Conditioning**

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
1995	6,410	.09	3.4	31,904,254	425	16,918
1996	6,410	.09	3.4	36,204,162	480	19,046
1997	6,363	.09	3.6	41,527,411	512	21,026
1998	6,363	.09	3.6	48,663,572	561	23,720
1999	6,363	.09	3.6	47,797,208	809	29,387
2000	6,363	.09	3.6	47,797,208	809	29,387
2001	5,481	.21	6.2	16,439,185	625	18,514
2002	5,481	.21	6.2	10,964,206	416	12,343
2003	5,481	.21	6.2	5,472,409	209	6,169
2004	TBD	TBD	TBD	0	0	0

Attachment C

Program Name: **Commercial/Industrial Heating, Ventilating and Air Conditioning**

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
1995	6,954	0.1	3.8	34,610,820	475	18,920
1996	6,954	0.1	3.8	39,275,507	537	21,299
1997	6,903	0.1	4.0	45,050,348	573	23,515
1998	6,903	0.1	4.0	52,791,898	627	26,526
1999	6,903	0.1	4.0	51,852,038	905	32,864
2000	6,903	0.1	4.0	51,852,037	905	32,864
2001	5,946	0.23	6.9	17,833,787	698	20,704
2002	5,946	0.23	6.9	11,894,344	466	13,804
2003	5,946	0.23	6.9	5,936,655	233	6,899
2004	TBD	TBD	TBD	0	0	0

$20.00/kw - $250.00/kw reduction to 10.00/kw - $250.00/kw reduction.

FPL proposes to implement the above modifications to the program in the third quarter of 1995 based on the Commission approval in June 1995.

II. Program Participation Standards

This program will be available to commercial and industrial customers whose facilities have received their certificate of occupancy and are ready to receive service from FPL and who replace existing lighting measures (measures are units of qualifying lighting technology--i.e., an electronic ballast, a T-8 lamp, etc.) with higher efficiency lighting measures that meet the technical requirements, are cost-effective, and reduce on-peak summer load. For customers with facilities that have twenty (20) or less lighting fixtures (a self-contained combination of luminaire, lamp and, if necessary, ballast), all qualifying measures must be performed at the same time and included on the same application. For customers with more than twenty (20) lighting fixtures, multiple incentive applications can be submitted as long as a minimum of twenty (20) measures are installed with each application.

All proposed measures must meet minimum power quality specifications for power factor and total harmonic distortion

established by FPL, which will be listed in the Program Standards. Product specific power quality ratings reflecting test results from an accredited independent testing facility must be provided. The lighting levels resulting from the installation of measures must meet or exceed standard levels recommended by the Illuminating Engineering Society of North America.

Installations can be performed by either the customer or a contractor. Installations must result in a net installed kw reduction, and the customer must provide assurance that the lighting fixtures for which lighting measures are provided an incentive will operate at some point during the hours 3 p.m. to 6 p.m. on weekdays from April 1 through October 31.

Incentives will be paid to customers or their designees and will be based upon the net installed kw reduction for specific measures. Measures will be aggregated into groups reflecting permanence and other factors, and incentives will vary among the groups, with incentives ranging from $10 per kw reduced to a maximum of $250.00 per kw reduced. The average incentive per kw will range from $115 to $118. Within cost-effectiveness parameters, incentives will be adjusted over time in response to changing market conditions and the emergence of new measures. Current incentive values will be listed in the approved Program Standards.

All installations shall be open to inspections before and after installation and prior to payment of incentives. Qualifying measures must be purchased and installed on or after the date the modified program is approved. Proof of purchase and purchase price must be provided to FPL prior to an incentive being paid.

All incentive requests will be tracked by a computer system, which will record a history of incentive payments made to customers.

III. Program Benefits and Costs

The projected kw demand reduction and annual energy reduction for a typical high efficiency lighting installation over a standard efficiency lighting installation are shown in Attachments B and C. The energy and demand projections are based on Electric Power Research Institute (EPRI) DSM market potential data, manufacturers information, and FPL demographic and end use data on commercial/industrial customers.

The projected participation for the program and associated savings are shown in Attachments A, B and C. These projections are based on the analysis performed for FPL's Cost Effectiveness Goals Results Report (CEGRR).

IV. Cost-Effectiveness Methodology

FPL has used the Commission approved cost-effectiveness methodology to determine the cost-effectiveness of this program. These cost-

effectiveness analyses can be found in Appendix A. The analyses show the following benefit/cost ratios: 2.79 Participants, 1.08 RIM and 2.04 TRC for this program.

V. Program Monitoring and Evaluation

The impact of this program on demand and energy consumption will be evaluated over time by FPL. Data will be collected from nonparticipants in order to establish a non-DSM technology baseline. Participants' data will be compared against nonparticipants' data to establish usage patterns, demand impacts and to validate engineering assumptions.

FPL will utilize any or all three major impact evaluation analysis methods in a manner that most cost-effectively meets the overall impact evaluation objectives - engineering analysis, statistical billing analysis and on-site metering research. As these evaluations proceed, the components to be analyzed and the periods for which data is available will increase, resulting in continual enhancements in the scope and accuracy of reported evaluation results.

Attachment A

Program Name: **Commercial/Industrial Efficient Lighting**

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Program Participants	(d) Cumulative Penetration Level %
1995	10,019,780	8,462,560	68,328	0.8
1996	10,288,195	8,689,259	68,328	1.6
1997	10,580,755	8,936,351	68,328	2.3
1998	10,876,052	9,185,755	68,328	3.0
1999	11,161,814	9,427,105	68,328	3.6
2000	11,436,674	9,659,248	68,328	4.2
2001	11,700,499	9,882,071	129,397	5.5
2002	11,960,439	10,101,612	258,778	7.9
2003	12,226,780	10,326,560	388,190	11.5
2004	12,499,052	10,556,517	0	11.2

Note:

Column a - The total number of lighting fixtures in the facilities of commercial/industrial customers.

Column b - The total number of eligible lighting fixtures in the facilities of commercial/industrial customers.

Column c - The annual number of lighting fixtures in the facilities of commercial/industrial customers projected to participate in the program.

Attachment B

Program Name: **Commercial/Industrial Efficient Lighting**

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
1995	312	0.04	0.06	21,425,381	2,750	4,373
1996	312	0.04	0.06	21,425,381	2,750	4,373
1997	312	0.04	0.06	21,425,381	2,750	4,373
1998	312	0.04	0.06	21,425,381	2,750	4,373
1999	312	0.04	0.06	21,425,381	2,750	4,373
2000	312	0.04	0.06	21,425,382	2,751	4,373
2001	297	0.04	0.06	38,520,839	5,119	8,152
2002	297	0.04	0.06	77,036,016	10,237	16,303
2003	297	0.04	0.06	115,561,490	15,356	24,456
2004	TBD	TBD	TBD	0	0	0

NOTE: Customer expressed in lighting fixtures.

Attachment C

Program Name: **Commercial/Industrial Efficient Lighting**

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
1995	338	0.04	0.07	23,242,982	3,075	4,890
1996	338	0.04	0.07	23,242,884	3,075	4,890
1997	338	0.04	0.07	23,243,082	3,075	4,890
1998	338	0.04	0.07	23,242,982	3,075	4,890
1999	338	0.04	0.07	23,242,982	3,075	4,890
2000	338	0.04	0.07	23,242,983	3,075	4,890
2001	322	0.04	0.07	41,788,717	5,724	9,117
2002	322	0.04	0.07	83,571,291	11,448	18,232
2003	322	0.04	0.07	125,365,036	17,173	27,350
2004	TBD	TBD	TBD	0	0	0

NOTE: Customer expressed in lighting fixtures.

COMMERCIAL/INDUSTRIAL EFFICIENT MOTORS PROGRAM

I. Program Description

The Commercial/Industrial Efficient Motors (CIEM) Program is designed to reduce the summer and winter coincident peak demand and energy attributable to three phase motor loads. This program will encourage small commercial/industrial customers to select a three phase, premium efficiency motor over a standard efficiency motor, at replacement or for new installations. This program modifies the current CIEM program which was originally filed June 3, 1992, and approved on October 5, 1992. Material changes from the existing CIEM program are:

1) limiting participation in the program to General Service (GS) customers only, as this is the only rate class for which the program was shown to be cost effective;

2) reducing the program qualifying motor horsepower size from an integral horsepower in the 1-100 HP range to an integral horsepower in the 1-25 HP range, as this is the size range of motors which will not exceed the General Service rate requirements;

3) increasing the minimum nominal full load efficiency required per qualifying motor size, as it was found that manufacturers have been increasing their motor nominal full load efficiencies; and

4) reducing the prescribed incentive level per qualifying motor, because both the cost and efficiency differential between standard and premium efficiency motors has decreased.

FPL proposes to implement the above modifications in the third quarter of 1995 based on FPSC approval in June, 1995.

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

II. Description of Program Administration

This program will be available to FPL's GS customers purchasing any AC, three phase, design B, induction, electric motors ranging in size from 1 HP through 25 HP. Larger sized premium efficiency motors and their particular applications may qualify under FPL's Business Custom Incentive Program.

This program will provide direct incentives to the customers or their designee in the form of either a post-purchase mail-in rebate or an up-front discount from a motor outlet at the time of purchase. The participating customer will also receive all energy and operating savings derived from the installation of the higher

efficiency motors. The program will alco help offset motor outlet costs incurred in the processing of up-front discounts.

For post-purchase rebates, the customer completes a program rebate certificate, attaches the required documentation, and forwards the certificate with documentation to FPL for processing. For up-front discounts, the customer receives a discount at the time of purchase from the outlet equal to the prescribed rebate amount for the size motor being purchased. The motor outlet then prepares a program rebate reimbursement form, attaches all required documentation, and forwards the reimbursement form and attachments to FPL for processing. The motor outlets participating in the up-front purchase discount option will be able to group multiple transactions in one reimbursement form and forward these to FPL on a periodic basis, not to exceed 90 days. The outlet will receive a processing fee for each qualifying motor sold in accordance with the latest version of the Program Standards.

Incentive tables will be included in FPL's Program Standards and will not exceed an average of $250 per kw. This is based on cost-effectiveness analyses found in Appendix A.

FPL will perform post installation inspections on a random basis for a sample of participants prior to payment of incentives.

A customer does not need a Business Energy Evaluation to participate in the C/I Efficient Motors Program.

FPL will provide 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.

III. 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 industry motor efficiency rating data as contained in the Washington State Energy Office's (WSEO) Motor Master Software, FPL's distribution by motor size, and FPL usage and consumption data. These values represent reductions based on a weighted average of the efficient motor installations expected from program participation and derived from the data.

The projected participation in this program and associated savings are shown on Attachments A, B and C. Projected participation is based upon the number of three phase motors in FPL's system for the eligible sizes, estimates of motor failures and sales, the American Council for an Energy-Efficient Economy (ACEEE) estimates of efficient motor purchase patterns, and engineering estimates of increased market penetration for premium efficiency motors as a

result of improving customer payback. Per motor savings are being used instead of the per participant numbers used in FPL's Cost Effectiveness Goals Results Report. This change is designed to facilitate program administration and monitoring of motor outlet performance and their impacts on the program.

IV. 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: 2.82 Participants, 1.13 RIM, 2.13 TRC for the CIEM Program.

V. Program Monitoring and Evaluation

The impact of this program on demand and energy consumption will be evaluated over time by FPL. Data will be collected from nonparticipants in order to establish a non-DSM technology baseline. Participants' data will be compared against nonparticipants' data to establish usage patterns, demand impacts and to validate engineering assumptions.

FPL will utilize any or all three major impact evaluation analysis methods in a manner that most cost-effectively meets the overall impact evaluation objectives--engineering analysis, statistical billing analysis and on-site metering research. As these

evaluations proceed, the components to be analyzed and the periods for which data is available will increase, resulting in continual enhancements in the scope and accuracy of reported evaluation results.

Attachment A

Program Name: **COMMERCIAL/INDUSTRIAL EFFICIENT MOTORS PROGRAM**

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Participants	(d) Cumulative Penetration Level %
1995	1,959,519	472,584	7,302	2 %
1996	1,959,739	495,267	8,254	3 %
1997	1,960,024	518,557	9,365	5 %
1998	1,960,345	542,468	10,952	7 %
1999	1,960,659	566,999	5,397	7 %
2000	1,960,923	592,127	5,397	8 %
2001	1,961,133	617,827	6,243	9 %
2002	1,961,300	644,082	6,243	9 %
2003	1,961,446	670,882	6,243	10 %
2004	1,961,592	698,791	0	9 %

Note:

Column a - The total number of motors in the GS rate class.

Column b - The total number of eligible motors in the GS rate class.

Column c - The annual number of motors in the program.

Attachment C

Program Name: **COMMERCIAL/INDUSTRIAL EFFICIENT MOTORS PROGRAM**

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
1995	199	0.7	0.7	1,449,627	514	514
1996	199	0.7	0.7	1,638,622	582	582
1997	199	0.7	0.7	1,859,183	660	660
1998	199	0.7	0.7	2,174,242	772	772
1999	199	0.7	0.7	1,071,437	380	380
2000	199	0.7	0.7	1,071,437	380	380
2001	199	0.7	0.7	1,239,389	439	439
2002	199	0.7	0.7	1,239,389	439	439
2003	199	0.7	0.7	1,239,389	439	439
2004	TBD	TBD	TBD	0	0	0

Note:

Customers are expressed in terms of GS motors instead of customers to concur with proposed program changes. The changes are designed to facilitate program administration and monitoring of motor outlet performance and their impacts on the program.

OFF PEAK BATTERY CHARGING PROGRAM

I. Program Description

The Off Peak Battery Charging Program is designed to reduce the current coincident peak demand and the future growth of coincident peak demand by shifting from on-peak to off-peak time periods the demand from battery charging applications. This is accomplished by the installation of a control system that will restrict a participating customer's battery charging to off-peak periods.

FPL will provide an incentive to customers (or their designees) who install an FPL approved control system. The participating customers will also receive any operating savings derived from the installation of the control equipment.

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

FPL currently offers the Off-Peak Battery Charging Program for golf-cart charging, which was approved on November 9, 1993. The program was implemented in February 1994. This program is a modification of that program. The major modifications proposed are to allow:

1) other battery charging applications (i.e., electric material handling equipment and electric vehicles) to be evaluated under the Off Peak Battery Charging Program. Applications other than golf cart charging would be evaluated based on the applications' load reduction capability, average diversity associated with multiple battery chargers, and the operating hours.

2) a reduction in the maximum incentive level from $75 to $57 per kw. The change is based on cost effectiveness analyses which are included in Appendix A, an average participant's payback of 2 years, and the assumption that the load being shifted is associated with equipment that would otherwise operate between the hours of 3 P.M. and 6 P.M., weekdays for the months of April through October.

FPL proposes to implement the above modifications in the third quarter of 1995 based on the Florida Public Service Commission providing approval of this program in June, 1995.

II. Description of Program Administration

The program will be available to FPL commercial and industrial customers who are demand billed and have facilities with electric battery charging loads that can be effectively shifted, through the use of a control system, from FPL's daily on-peak time periods. A

minimum of 70 percent of the battery charging load must be controlled by the control system.

To qualify, the control system being considered by the customer shall meet or exceed to FPL's satisfaction, the functional specifications developed by FPL. The functional specifications shall consist of both the equipment and installation requirements, which will be made a part of FPL's Program Standards. 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.

The customer will have the option to select existing eligible control equipment (i.e., equipment that has met or exceeded the program's functional specifications) or have FPL review other control equipment the customer desires to install. For customers who desire to install equipment not currently eligible to participate in the program, the customer will provide to FPL manufacturer literature, contractor documentation and any other supporting literature which clearly indicates how the proposed system will perform as required to meet or exceed FPL's functional specifications. Upon submission and review of the information, FPL will determine whether the customer and the equipment are eligible to participate in the program.

The incentive listed by the Program Standards shall not exceed $57 per kw controlled. No incentive amount shall exceed the purchase price of the equipment which would be installed in order to effectively perform the required load shifting.

The customer's kw controlled amount derived by FPL is an engineering estimate based upon customers with similar load characteristics that can be grouped into a typical category/application (i.e., golf courses) and will be defined by the Program Standard. Alternatively, for loads without a typical category/application, the kw controlled amount derived by FPL will be an engineering estimate of a customer's individual load characteristics.

Prior to an incentive being issued, the participant must provide to FPL an itemized invoice for the completed installation. FPL will do post-installation inspections to verify the proper operation of controllers and the actual number of circuits being controlled.

A customer receiving an incentive under this program shall repay the incentive plus interest to FPL if the customer: 1) takes service at the customer's facility under a non-qualifying rate as specified in the Program Standard within five years of receiving the incentive; 2) fails to maintain and operate the equipment (i.e., the control or battery charging equipment); or 3) removes or disconnects the equipment.

The participating customer will allow FPL, at FPL's discretion, to access, monitor and/or analyze the customer's load (total, and battery charging, etc.), and conduct post-installation inspections.

All incentive requests will be tracked by a computer system, which will record a history of the incentive payments made to customers.

III. Projected Participation and Savings

The projected FPL demand and energy savings for a typical golf course installation are shown on Attachments B and C. The energy and demand reduction projections are based on field data, which was obtained from golf cart battery charging facilities.

The projected participation in this program and associated savings are shown on Attachments A, B and C. Projected participation is based upon FPL customers with battery charging equipment and includes a revised estimate of the savings filed in FPL's Cost Effectiveness Goals Results Reporting (CEGRR). The revised estimate of savings provides a more accurate summer and winter coincident peak demand reduction for a typical participating customer.

IV. 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: 3.08 Participants, 1.77 RIM, and 3.66 TRC for the Off-Peak Battery Charging program.

V. Program Monitoring and Evaluation

The impact of this program on demand and energy consumption will be evaluated over time by FPL. Data will be collected from nonparticipants in order to establish a non-DSM technology baseline. Participants' data will be compared against nonparticipants' data to establish usage patterns, demand impacts and to validate engineering assumptions.

FPL will utilize any or all three major impact evaluation analysis methods in a manner that most cost-effectively meets the overall impact evaluation objectives - engineering analysis, statistical billing analysis and on-site metering research. As these evaluations proceed, the components to be analyzed and the periods for which data is available will increase, resulting in continual enhancements in the scope and accuracy of reported evaluation results.

Attachment A

Program Name: **Off Peak Battery Charging**

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Program Participants	(d) Cumulative Penetration Level %
1995	74,410	188	15	8.0
1996	76,403	192	17	16.7
1997	78,576	196	19	26.2
1998	80,769	200	23	37.0
1999	82,891	204	23	47.3
2000	84,932	208	23	57.2
2001	86,892	212	8	60.1
2002	88,822	216	6	61.5
2003	90,800	220	3	61.6
2004	92,822	224	0	60.5

Note:

Column a - The total number of customers in FPL's demand billed commercial/industrial rate classes.

Column b - The total number of eligible golf courses in FPL's demand billed commercial/industrial rate classes.

Column c - The annual number of participants in the program.

Attachment B

Program Name: **Off Peak Battery Charging**

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
1995	0	4	43	0	61	650
1996	0	4	43	0	68	730
1997	0	4	43	0	77	830
1998	0	4	43	0	90	970
1999	0	4	43	0	90	970
2000	0	4	43	0	90	970
2001	0	4	43	0	33	355
2002	0	4	43	0	22	237
2003	0	4	43	0	11	118
2004	TBD	TBD	TBD	0	0	0

Attachment C

Program Name: **Off Peak Battery Charging**

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
1995	0	4.47	48.09	0	68	727
1996	0	4.47	48.09	0	76	816
1997	0	4.47	48.09	0	86	928
1998	0	4.47	48.09	0	101	1085
1999	0	4.47	48.09	0	101	1085
2000	0	4.47	48.09	0	101	1085
2001	0	4.47	48.09	0	36	397
2002	0	4.47	48.09	0	25	265
2003	0	4.47	48.09	0	12	132
2004	TBD	TBD	TBD	0	0	0

BUSINESS CUSTOM INCENTIVE PROGRAM

I. Program Description

The Business Custom Incentive (BCI)Program is designed to encourage the implementation by FPL's commercial and industrial customers of unique energy conservation measures or projects not covered by other FPL programs, but which cost-effectively reduce or shift electric demand from FPL's system peak.

FPL plans to make commercial and industrial customers aware of this program through direct contact between FPL field representatives and FPL's commercial/industrial customers.

FPL currently operates a Business Custom Incentive Program, which was approved on March 31, 1993. The proposed modifications to this program are:

1) Increase the minimum allowable payback from one to two years; this is the payback restriction which applies to all of FPL's Commercial/Industrial programs to minimize free riders.

2) Eliminate the incentive cap of $250 per kw so that the incentive will be limited only by the cost-effectiveness calculation and the 2-year payback restriction; this will permit incentives up to the cost-effective level, as long as the resulting payback is two years or greater.

3) Allow new-construction projects to qualify when the associated measure(s) is(are) not addressed by or necessary to meet the requirements of any applicable federal, state or local municipal building or energy codes. This will permit new construction projects when the measure is unique, such as part of an industrial process.

4) Allow measures for which a program is currently being developed by FPL to qualify; FPL has, up to this time, excluded from this program any measures for which a new program is being developed.

5) No longer require a Business Energy Evaluation for participation in this program. The Business Custom Incentive Program requires extensive analysis of any participating project; a BEE survey does not enhance the specific project or the program.

FPL proposes to implement the above modifications in the third quarter of 1995 based on Commission approval in June, 1995.

II. Description of Program Administration

The program is available to all of FPL's commercial and industrial customers. In order for a conservation measure or project to be eligible, it must not be covered by another of FPL's conservation programs, and it must reduce or shift at least 25 kw from FPL's system peak demand, which occurs summer weekdays from 3:00 p.m. to 6:00 p.m. The demand and energy savings attributable to the conservation project must be verifiable through monitoring. Both retrofit and new construction projects are eligible. In order to qualify for an incentive, the Rate Impact Measure (RIM) Test benefit-to-cost ratio of a project, including the incentive, must be at least 1.01. The project must also pass the Participants Test.

Incentives are paid based on the cost-effectiveness achieved under the RIM Test. To determine the incentive amount available, the project will be evaluated utilizing the assumptions of the current integrated resource plan, either as a replacement of a portion of existing DSM resources included in the resource plan, or as an addition of resources beyond the needs satisfied by DSM in the current resource plan. If it is determined that the project is a replacement of some existing DSM resources, it will have, with the incentive, at least the same net benefits per kw under RIM as the competing DSM, as well as a minimum 1.01 benefit-to-cost ratio against the same generation resource deferred by the competing DSM. If the project is positioned as an addition, it will, with the

incentive, have at least a 1.01 RIM benefit-to-cost ratio against the next required generation resource beyond the needs satisfied by DSM in the current resource plan. FPL will determine whether the project is a replacement or addition of resources based on all project and resource plan information available at the time.

In addition, the incentive amount shall not cause the customer's payback to be less than two years.

The number and timing of payments toward the total incentive amount will be determined by FPL for each project on an individual basis.

Any customer receiving an incentive under this program must remain served by FPL for its electricity-related needs for at least five years from the date of payment of the incentive, or the customer shall refund the incentive amount in full to FPL. FPL will be solely responsible for determining the eligibility of any measure or project, performing the RIM and Participant cost-effectiveness tests of any measure or project, and determining the available incentive.

The program is not available for: operational or maintenance improvements that are not permanent, equipment eligible under other FPL programs (unless bundled with and related to equipment not eligible under another FPL program), equipment or measures which

FPL is actively researching, fuel switching, power generation technologies, or wheeling of any type.

III. Projected Participation and Savings

FPL has incorporated into the Business Custom Incentive Program the projected DSM contributions of the Refrigeration measures included in its Cost Effective Goals Results Report. FPL anticipates measures other than Refrigeration in the Program, but cannot meaningfully quantify the projected contributions from these measures at this time. Therefore, the projections for the Business Custom Incentive Program are those for the Refrigeration measures. These projections are shown in Attachment A, B and C.

IV. 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 for the Refrigeration measures. The analyses for the Refrigeration measures show the following benefit-cost ratios: 1.69 Participants, 1.09 RIM, and 1.36 TRC. For other measures, FPL cannot predict at this time the demand or energy reduction profiles that will result, so cost effectiveness evaluations will be performed at the time such measures are proposed for participation in the program.

V. Program Monitoring and Evaluation

All BCI projects will be monitored. Monitoring will consist of one of two levels of activity based on FPL's determination:

1) **High-Moderate confidence projects** - measures with which FPL has significant experience and/or confidence as to the performance characteristics. For these projects, FPL will require, at a minimum, an engineering analysis with relevant calculations. FPL, at its determination, may also require a feasibility study performed by an independent, registered professional engineer, and/or field monitoring of the project.

2) **Innovative projects** - measures with which FPL has no significant experience or confidence with the performance characteristics. For these projects, FPL will require field monitoring/measurement of the project's performance.

The costs for all monitoring equipment and activities will be recognized in the cost-effectiveness determination for each project.

FPL will maintain a database of the kw and kwh savings for participants in the program.

Attachment A

Program Name: **Business Custom Incentive Program**

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Program Participants	(d) Cumulative Penetration Level %
1995	1,500,932	20,800	3	0.01
1996	1,541,104	21,356	3	0.03
1997	1,584,915	21,965	3	0.04
1998	1,629,183	22,578	3	0.05
1999	1,672,014	23,171	3	0.06
2000	1,713,118	23,742	3	0.08
2001	1,752,724	24,290	154	0.71
2002	1,791,591	24,829	102	1.10
2003	1,831,504	25,382	51	1.28
2004	1,872,215	25,946	0	1.25

Note:

Column a - The total square footage of commercial and industrial building space expressed in units of 1,000 square feet.

Column b - The total eligible square footage of commercial and industrial building space with refrigeration expressed in units of 1,000 square feet.

Column c - The annual square footage of commercial and industrial building space expressed in units of 1,000 square feet projected to participate in the program.

Attachment B

Program Name: **Business Custom Incentive Program**

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
1995	83,684	8.6	9.3	251,052	26	28
1996	83,684	8.6	9.3	251,052	26	28
1997	83,684	8.6	9.3	251,052	26	28
1998	83,684	8.6	9.3	251,052	26	28
1999	83,684	8.6	9.3	251,052	26	28
2000	83,684	8.6	9.3	251,052	26	28
2001	40,551	4.3	4.8	6,178,008	656	737
2002	40,551	4.3	4.8	4,094,495	436	489
2003	40,551	4.3	4.8	2,076,026	220	247
2004	TBD	TBD	TBD	0	0	0

NOTE: Customer expressed in 1,000 square feet.

Attachment C

Program Name: **Business Custom Incentive Program**

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
1995	90,783	9.7	10.4	272,350	29	31
1996	90,783	9.7	10.4	272,350	29	31
1997	90,783	9.7	10.4	272,350	29	31
1998	90,783	9.7	10.4	272,350	29	31
1999	90,783	9.7	10.4	272,350	29	31
2000	90,783	9.7	10.4	272,350	29	31
2001	43,991	4.8	5.4	6,702,113	734	824
2002	43,991	4.8	5.4	4,441,847	489	547
2003	43,991	4.8	5.4	2,252,144	247	276
2004	43,991	4.8	5.4	0	0	0

NOTE: Customer expressed in 1,000 square feet.

COMMERCIAL/INDUSTRIAL LOAD CONTROL

I. Program Description

The Commercial/Industrial Load Control (CILC) program is designed to reduce peak demand by controlling customer loads of 200 kw or greater during periods of extreme demand or capacity shortages. The permanent CILC program began in November 1990.

FPL makes eligible commercial and industrial customers aware of this program through direct contact with their FPL Account Managers.

II. Description of Program Administration

The CILC Program is available to customers that allow FPL to control 200 kw or more of their load. Customers can participate by allowing FPL to control directly selected switchgear in the customer's facility or to transfer the load to the customer's standby generator.

The customer receives service under a lower rate in return for allowing FPL to control its load. The incentive is the difference between their prior rate and the CILC rate. The customer begins service on the CILC rate after successfully demonstrating its load can be reduced to the contracted Firm Demand during a one hour load control test conducted and monitored by FPL.

FPL provides advance notification of load control events via an FPL provided printer/alarm. Compliance with contracted Firm Demands is verified after each event on an individual customer basis. The causes of exceeding Firm Demand are investigated to determine if they meet allowed exclusions to the penalty or if they are to be penalized. A "Continuity of Service Provision" is available which allows customers to continue using power during load control events when power is available from non-FPL providers. Customers are allowed to exit CILC under certain conditions but will be penalized for returning to Firm Service without meeting those conditions.

The following changes are proposed in this filing:

1) Customers, particularly those with generators choosing to operate in parallel with the FPL grid, will be allowed to designate a specific amount of demand reduction. This controllable demand level will be subtracted from the customer's monthly on-peak demand to determine the Firm Demand to be used for billing each month. This allows these customers to receive full credit for their demand reduction contribution.

2) Customers participating in FPL DSM programs, FPL Research Projects, or installing other permanent and quantifiable efficiency measures, including fuel substitution, resulting in permanently reduced electric demand will be allowed to

adjust their ratchet demand. This allows the customer to receive the full benefit of their investment.

3) The "Application" section of the tariff has been changed to require customers to have an on-peak demand at least 200 kw greater than their Firm Demand in at least three of twelve consecutive months in order to qualify for the program. This will prevent low load factor, seasonal customers from realizing program savings without providing the corresponding benefits.

4) Language regarding initial testing has been added and the annual testing requirement has been changed to occur on a single date each year rather than at a mutually agreeable time and date. This will ease the administrative burden of testing the program population in excess of 350 participants.

5) The "Exceptions to Charges for Exceeding Firm Demand" section of the tariff has been retitled to "Provisions for Energy Use During Control Periods". The item in this section pertaining to space launches has been revised to define those conditions which trigger the provision more precisely. There is language added to this section which clarifies how customers using power during control periods will be billed for that power when the power under the Continuity of Service Provision is no longer available.

6) The formula for billing 200-499 kw Distribution customers has been changed for customers with Firm Demands from 1 kw to 10 kw.

7) The "Term of Service" section of the tariff has been divided to create a new section titled "Provisions for Early Termination". The notice of termination is shortened to four (4) years. The backbilling under the penalty provisions is similarly shortened to four (4) years. In addition, an initial one (1) year term of service has been added which allows customers to return to firm service after the first year without penalty.

8) Interconnection of the FPL control circuit and customer's energy management system will be allowed under special circumstances where prevention of human intervention in control activities can be assured.

9) A definition for On-Peak Demand has been added.

The revised tariff sheets reflecting all changes follow Attachments A, B and C.

III. Projected Participation and Savings

The projected demand and energy savings are shown in Attachments B and C. The types of customers include office buildings, water and sewer plants, hospitals, computer centers and industrial process

customers such as steel mills. Because the demand and energy savings for these customers vary, per customer participation levels are not appropriate. However, they have been projected in order to complete the tables in the attachments as required. Further, the per customer energy and demand reduction, are based on the average reduction for CILC Program participants as of 12/31/94 in order to comply with the data requirements of the tables.

The demand reduction projections will be targeted regardless of the number of customers required to do so since customer demands vary from 200 kw to 44,564 kw. While existing executed CILC Agreements provide an indication of future participants, the targets are based on their expected demand reductions rather than the specific customers.

IV. 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: 1.36 RIM, 38.85 TRC and 163.40 Participants for the CILC program.

V. Program Monitoring and Evaluation

The impact of this program on demand and energy consumption will be evaluated annually by FPL using census rate load research from load profile metering at all participant locations.

Attachment A

Program Name: **Commercial/Industrial Load Control**

Year	(a) Total Number of Customers	(b) Total Number of Target Customers	(c) Annual Number of Program Participants	(d) Cumulative Penetration Level %
1995	6,356	4,972	60	8.5
1996	6,529	5,106	20	8.7
1997	6,709	5,247	17	8.8
1998	6,890	5,389	17	8.9
1999	7,071	5,530	17	9.0
2000	7,247	5,666	17	9.1
2001	7,417	5,798	0	8.9
2002	7,585	5,929	0	8.7
2003	7,743	6,052	0	8.5
2004	7,898	6,172	0	8.3

Note:

Since the demand reductions from participants vary from 200 kw to 44,564 kw, the program projections are expressed in MWs. The customer participation levels projected are done to satisfy filing requirements but the MW projections will be targeted regardless of the number of customers required to do so. The "Total Number of Eligible Customers" has been changed to "Total Number of Target Customers" to reflect those market segments that have been most responsive to the CILC program to date.

Column a - The total number of commercial/industrial customers with demand over 200 kw.

Column b - The total number of eligible commercial/industrial with demand over 200 kw.

Column c - The annual number of participants in the program.

Attachment B

Program Name: **Commercial/Industrial Load Control**

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 MW Reduction	Total Annual Summer MW Reduction
1995	87	917	917	5,225.0	55	55
1996	87	917	917	1,748.0	18.4	18.4
1997	87	917	917	1,510.5	15.9	15.9
1998	87	917	917	1,510.5	15.9	15.9
1999	87	917	917	1,510.5	15.9	15.9
2000	87	917	917	1,510.5	15.9	15.9
2001	87	917	917	0	0	0
2002	87	971	917	0	0	0
2003	87	971	917	0	0	0
2004	TBD	TBD	TBD	0	0	0

Attachment C

Program Name: **Commercial/Industrial Load Control**

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 Mw Reduction	Total Annual Summer Mw Reduction
1995	**94**	**988**	**988**	**5,549**	**59.269**	**59.269**
1996	**94**	**988**	**988**	**1,856**	**19.828**	**19.828**
1997	**94**	**988**	**988**	**1,604**	**17.133**	**17.133**
1998	**94**	**988**	**988**	**1,604**	**17.133**	**17.133**
1999	**94**	**988**	**988**	**1,604**	**17.133**	**17.133**
2000	**94**	**988**	**988**	**1,604**	**17.133**	**17.133**
2001	**94**	**988**	**988**	**0**	**0**	**0**
2002	**94**	**988**	**988**	**0**	**0**	**0**
2003	**94**	**988**	**988**	**0**	**0**	**0**
2004	**TBD**	**TBD**	**TBD**	**0**	**0**	**0**

RATE SCHEDULE CILC-1

COMMERCIAL/INDUSTRIAL LOAD CONTROL PROGRAM
(OPTIONAL)

RATE SCHEDULE: CILC-1

AVAILABLE:

In all territory served. Available to any commercial or industrial customer to which the load control provisions of this schedule can feasibly be applied, through the execution of a Commercial/Industrial Load Control Program Agreement with the Company.

LIMITATION OF AVAILABILITY:

This schedule may be modified or withdrawn subject to determinations made under Commission Rules 25-17.0021(4), F.A.C., Goals for Electric Utilities and 25-6.0438, F.A.C., Non-Firm Electric Service - Terms and Conditions or any other Commission determination.

APPLICATION:

For electric service provided to any commercial or industrial customer as a part of the Commercial/Industrial Load Control Program Agreement between the Customer and the Company, who agrees to allow the Company to control at least 200 kw of the Customer's load, or agrees to operate backup generation equipment (see Definitions) and designate (if applicable) additional controllable demand to serve at least 200 kw of the Customer's own load during periods when the Company is controlling load. A Customer shall enter into a "Commercial/Industrial Load Control Program Agreement" with the Company for service under this schedule. To establish the initial qualification for service under this schedule, the Customer must have had an On-Peak Demand (as defined below) for at least three of the previous twelve (12) months of at least 200 kw greater than the Firm Demand or Controllable Demand (as applicable) level specified in Section 4 of the Commercial/Industrial Load Control Program Agreement. This controlled load shall not be served on a firm service basis unless it is transferred to firm service within at least thirty (30) days prior to the end of the initial term of service or until service has been terminated under this rate schedule.

SERVICE:

Three phase, 60 hertz at any available standard voltage.

A designated portion of the Customer's load served under this schedule is subject to control by the Company. Transformation Rider-TR, where applicable, shall only apply to the Customer's Maximum Demand for delivery voltage below 69 kv. Standby Service is not provided hereunder. Resale of service is not permitted hereunder.

MONTHLY RATE:

Delivery Voltage Level:	Distribution below 69 kv		Transmission 69 kv & above
Maximum Demand Level:	200-499 kw	500 kw & above	
Customer Charge:	$ 600.00	$ 600.00	$ 3,200.00
Demand Charge:			
per kw of Maximum Demand in excess of 10 kw	$ 2.43	$ 2.43	None
per kw of Maximum Demand			
per kw of Load Control On-Peak Demand. Where Firm kw is < 10 kw, the Load Control On-Peak Demand shall be adjusted by the difference between 10 kw and Firm kw	$ 1.16	$ 1.16	$ 1.15
per kw of Load Control On-Peak Demand			
per kw of Firm On-Peak Demand in excess of 10 kw	$ 5.85	$ 5.85	$ 6.25
per kw of Firm On-Peak Demand			
Energy Charge:			
On-Peak Period:			
Non-fuel charge per kwh	1.448¢	1.133¢	0.942¢
Off-Peak Period:			
Non-fuel charge per kwh	1.448¢	1.133¢	0.942¢

Minimum: The Customer Charge plus the Demand Charge.

Fuel Charge	See Sheet No. 8.830
Tax Clause	See Sheet No. 8.840
Conservation Charge	See Sheet No. 8.860
Capacity Payment Charge	See Sheet No. 8.870
Environmental Cost Recovery Clause	See Sheet No. 8.875
Oil Backout Charge	See Sheet No. 8.880
Franchise Fee	See Sheet No. 8.890

LOAD CONTROL:

Control Condition:

The Customer's controllable load served under this rate schedule is subject to control when such control alleviates any emergency conditions or capacity shortages, either power supply or transmission, or whenever system load, actual or projected, would otherwise require the peaking operation of the Company's generators. Peaking operation entails taking base loaded units, cycling units or combustion turbines above the continuous rated output, which may overstress the generators. ~~These conditions will typically result in less than fifteen (15) control periods per year, will typically allow advance notice of four (4) hours or more prior to a control period and will typically result in control periods of four (4) hours' duration. The operating limits under this tariff are described below.~~

Frequency: The Control Conditions ~~frequency of control~~ will typically result in less than fifteen (15) control periods per year and will not exceed twenty-five (25) control periods per year. Typically, the Company will not initiate a control period within six (6) hours of a previous control period.

Notice: The Company will provide one (1) hour's advance notice or more to a Customer prior to controlling the Customer's controllable load. Typically, the Company will provide advance notice of four (4) hours or more prior to a control period.

Duration: The duration of a single period of load control will typically be four (4) hours and will not exceed six (6) hours.

In the event of an emergency, such as a Generating Capacity Emergency (see Definitions) or a major disturbance, greater frequency, less notice, or longer duration than listed above may occur. If such an emergency develops, the Customer will be given 15 minutes' notice. Less than 15 minutes' notice may only be given in the event that failure to do so would result in loss of power to firm service customers or the purchase of emergency power to serve firm service customers. The Customer agrees that the Company will not be liable for any damages or injuries that may occur as a result of providing no notice or less than one (1) hour's notice.

Customer Responsibility:

Upon the successful installation of the load control equipment and/or any necessary backup generation equipment, a test of this equipment will be conducted between the hours of 7 a.m. and 6 p.m., Monday through Friday, excluding holidays, as specified in the Commercial/Industrial Load Control Program Agreement.

The Customer shall be responsible for providing and maintaining the appropriate equipment required to allow the Company to electrically control the Customer's load, as specified in the Commercial/Industrial Load Control Program Agreement.

The Company will control the controllable portion of the Customer's service for a one-hour period (during designated on-peak periods), once per year ~~at a mutually agreeable time and date~~ for Company testing purposes on the first Monday in November if the Customer's load has not been successfully controlled during a load control event in the previous twelve (12) months. Testing purposes include the testing of the load control equipment to ensure that the load is able to be controlled within the agreed specifications. ~~If the Customer's load has been successfully controlled during the previous 12 months, this test obligation will have been met.~~

~~The Customer shall be responsible for providing and maintaining the appropriate equipment required to allow the Company to electrically control the Customer's load, as specified in the Commercial/Industrial Load Control Program Agreement.~~

RATING PERIODS:

On-Peak:

November 1 through March 31: Mondays through Fridays during the hours from 6 a.m. to 10 a.m. and 6 p.m. to 10 p.m. excluding Thanksgiving Day, Christmas Day, and New Year's Day.

April 1 through October 31: Mondays through Fridays during the hours from 12 noon to 9 p.m. excluding Memorial Day, Independence Day, and Labor Day.

Off-Peak:

All other hours.

LOAD CONTROL PERIOD:

All hours established by the Company during a monthly billing period in which:

1. the Customer's load is controlled (which includes the operation of the Customer's generation equipment), or
2. the Customer is billed pursuant to the Continuity of Service Provision.

DEMAND:

Demand is the kw to the nearest whole kw, as determined from the Company's metering equipment, for a 30-minute period as adjusted for power factor.

ON-PEAK DEMAND:

On-Peak Demand is the kw to the nearest whole kw, as determined from the Company's metering equipment, for a 30-minute period of Customer's greatest use for the designated on-peak periods during the month as adjusted for power factor.

MAXIMUM DEMAND:

Maximum Demand shall be the greater of the current month's demand whenever it occurs or the highest demand for the prior twenty-three (23) months. A Customer's Maximum Demand may be re-established to allow for the following adjustments:

1. Demand reduction resulting from the installation of FPL Demand Side Management Measures or FPL Research Project efficiency measures; or
2. Demand reductions resulting from the installation of other permanent and quantifiable efficiency measures, upon verification by FPL; or
3. Permanent changes to customer facilities that result in a permanent loss of electric load, including any fuel substitution resulting in permanently reduced electricity consumption, upon verification by FPL.

The re-established Maximum Demand shall be the higher of the actual demand registered in the next billing period following the Customer's written request or the prior Maximum Demand minus the calculated demand reduction. Requests to re-establish the Maximum Demand may be processed up to twice per calendar year when more than one efficiency measure is installed or where the same efficiency measure is installed in phases.

CALCULATION OF FIRM DEMAND AND LOAD CONTROL ON-PEAK DEMAND

There will be two methods of calculating the Firm Demand and Load Control On-Peak Demand for the Customer, depending on the type of demand designated in the Commercial/Industrial Load Control Program Agreement.

THIS SECTION IS APPLICABLE TO CUSTOMERS DESIGNATING A FIRM DEMAND LEVEL:

FIRM ON-PEAK DEMAND:

The Customer's monthly Firm On-Peak Demand shall be the lesser of the "Firm Demand" level specified in the Customer's Commercial/Industrial Load Control Program Agreement with the Company, or the Customer's highest on-peak demand during the month. The level of "Firm Demand" specified in the Customer's Commercial/Industrial Load Control Program Agreement shall not be exceeded during the periods when the Company is controlling the Customer's load.

LOAD CONTROL ON-PEAK DEMAND:

Load Control On-Peak Demand shall be the Customer's highest demand for the designated on-peak periods during the month less the Customer's "Firm Demand".

PROVISIONS FOR ENERGY USE DURING CONTROL PERIODS FOR CUSTOMERS DESIGNATING A FIRM DEMAND LEVEL:

~~EXCEPTIONS TO CHARGES FOR EXCEEDING FIRM DEMAND:~~

Customers notified of a load control event should meet their Firm Demand during periods when the Company is controlling load. However, energy will be made available during control periods if the Customer's failure to meet its Firm Demand is a result of one of the following conditions:
~~If the Customer exceeds the "Firm Demand" during a period when the Company is controlling load due to:~~

1. Force Majeure events (see Definitions) which can be demonstrated to the satisfaction of the Company ~~to have been beyond the Customer's control~~, or
2. maintenance of generation equipment necessary for the implementation of load control which is performed at a pre-arranged time and date mutually agreeable to ~~by~~ the Company and the Customer (See Special Provisions), or
3. adding firm load that was not previously non-firm load to ~~their~~ the Customer's facility, or
4. an event affecting local, state or national security, ~~or end space launch operations within five (5) days prior to an impending launch;~~
5. an event whose nature requires that space launch activities be placed in the critical mode (requiring a closed-loop configuration of FPL's transmission system) as designated and documented by the NASA Test Director at Kennedy Space Center and/or the USAF Range Safety Officer at Cape Canaveral Air Force Station.

~~then t~~The Customer's energy use (in excess of the Firm Demand) for the conditions listed above ~~will not be required to pay the Charges for Exceeding Firm Demand during the period of such exceptions, but~~ will be billed pursuant to the Continuity of Service Provision. For periods during which power under the Continuity of Service Provision is no longer available, the Customer will be billed, in addition to the normal charges provided hereunder, the greater of the Company's As-Available Energy cost, or the most expensive energy (calculated on a cents per kilowatt hour basis) that FPL is purchasing or selling during that period, less the applicable class fuel charge. As-Available Energy cost is the cost calculated for Schedule COG-1 in accordance with FPSC Rule 25-17.0825, F.A.C.

If the Company determines that the Customer has utilized one or more of the exceptions above in an excessive manner, the Company will terminate service under this rate schedule as described in TERM OF SERVICE.

~~CHARGES FOR EXCEEDING FIRM DEMAND:~~

If the Customer exceeds the "Firm Demand" during a period when the Company is controlling load for any reason other than those specified above ~~in Exceptions to Charges for Exceeding Firm Demand~~, then the Customer will be:

1. billed the difference between the Firm On-Peak Demand Charge and the Load Control On-Peak Demand Charge for the excess kw for the prior forty-eight (48) ~~sixty (60)~~ months or the number of months the Customer has been billed under thethis rate schedule, whichever is less, and

2. billed a penalty charge of $1.00 per kw of excess kw for each month of rebilling.

Excess kw for rebilling and penalty charges is determined by taking the difference between the maximum demand during the Load Control Period and the Customer's "Firm Demand". For rebilling under paragraph 1 above, where Firm kw is <10 kw, the maximum demand during the Load Control Period shall be adjusted by the difference between 10 kw and Firm kw. The Customer will not be rebilled or penalized twice for the same excess kw in the calculation described above.

THIS SECTION IS APPLICABLE TO CUSTOMERS DESIGNATING A CONTROLLABLE DEMAND LEVEL:

FIRM ON-PEAK DEMAND:

The Customer's monthly Firm On-Peak Demand shall be the On-Peak Demand during the month less the "Controllable Demand" level specified in the Customer's Commercial/Industrial Load Control Program Agreement with the Company.

LOAD CONTROL ON-PEAK DEMAND:

Load Control On-Peak Demand shall be the "Controllable Demand" level specified in the Customer's Commercial/Industrial Load Control Program Agreement with the Company.

PROVISIONS FOR ENERGY USE DURING CONTROL PERIODS FOR CUSTOMERS DESIGNATING A CONTROLLABLE DEMAND LEVEL:

Customers notified of a load control event should achieve the Controllable Demand Level during periods when the Company is controlling load, except under the following conditions:

1. Force Majeure events (see Definitions) which can be demonstrated to the satisfaction of the Company, or

2. maintenance of generation equipment necessary for the implementation of load control which is performed at a pre-arranged time and date mutually agreeable to the Company and the Customer (See Special Provisions), or

3. adding firm load that was not previously non-firm load to the Customer's facility, or

4. an event affecting local, state or national security, or

5. an event whose nature requires that space launch activities be placed in the critical mode (requiring a closed-loop configuration of FPL's transmission system) as designated and documented by the NASA Test Director at Kennedy Space Center and/or the USAF Range Safety Officer at Cape Canaveral Air Force Station.

The Customer's energy use (in excess of the Firm Demand) for the conditions listed above will be billed pursuant to the Continuity of Service Provision. For periods during which power under the Continuity of Service Provision is no longer available, the Customer will be billed, in addition to the normal charges provided hereunder, the greater of the Company's As-Available Energy cost, or the most expensive energy (calculated on a cents per kilowatt hour basis) that FPL is purchasing or selling during that period, less the applicable class fuel charge. As-Available Energy cost is the cost calculated for Schedule COG-1 in accordance with FPSC Rule 25-17.0825, F.A.C.

If the Company determines that the Customer has utilized one or more of the exceptions above in an excessive manner, the Company will terminate service under this rate schedule as described in TERM OF SERVICE.

~~CHARGES FOR EXCEEDING FIRM DEMAND:~~

If the Customer does not achieve the Controllable Demand level during a period when the Company is controlling load for any reason other than those specified above, then the Customer will be:

1. billed the difference between the Firm On-Peak Demand Charge and the Load Control On-Peak Demand Charge for the rebilling kw for the prior forty-eight (48) months or the number of months the Customer has been billed under this rate schedule, whichever is less, and

2. billed a penalty charge of $1.00 per kw of excess kw for each month of rebilling.

The kw for rebilling and penalty charges is determined by taking the difference between the Controllable Demand and the maximum demand actually reduced during the Load Control Period. For rebilling under paragraph 1 above, where Firm kw is ≤10 kw, the maximum demand during the Load Control Period shall be adjusted by the difference between 10 kw and Firm kw. The Customer will not be rebilled or penalized twice for the same excess kw in the calculation described above.

As long as the Customer's load reduction from the operation of the control circuit results in a demand during the control period that is at or below the calculated Firm Demand for that billing period, the Customer will not be required to pay the penalty and rebilling charges.

TERM OF SERVICE:

After a one-year initial term of service in which the Customer will determine whether or not this program is appropriate for the Customer, it is intended that the Company will continue to provide and the Customer will continue to take service under this rate schedule for the life of the generating unit which has been avoided by the rate. There is, however, a four-year termination notice provision which will allow either the Customer or the Company to terminate service under this schedule should there be circumstances under which the termination of the Customer's participation or the Company's offering of the program is desired.

The initial Term of Service under this schedule shall be one (1) year. At the end of the one-year period, the Customer may either terminate service by giving the Company written notice within at least thirty (30) days prior to the end of the one-year period or continue s~~S~~ervice under this rate schedule, subject to Limitation of Availability, until terminated by either the Company or the Customer upon written notice given at least four (4) ~~five (5)~~ years prior to termination. Should a Customer terminate service or be removed by the Company and later desire to resume service under this rate schedule, the Customer must provide four (4) years' written notice prior to resuming service under this schedule.

~~Transfers, with less than five (5) years' written notice, to any firm retail rate schedule for which the Customer would qualify, may be permitted if it can be shown that such transfer is in the best interests of the Customer, the Company and the Company's other customers.~~

The Company may terminate service under this rate schedule at any time for the Customer's failure to comply with the terms and conditions of this rate schedule or the Commercial/Industrial Load Control Program Agreement. Prior to any such termination, the Company shall notify the Customer at least ninety (90) days in advance and describe the Customer's failure to comply. The Company may then terminate service under this rate schedule at the end of the 90-day notice period unless the Customer takes measures necessary to eliminate, to the Company's satisfaction, the compliance deficiencies described by the Company. Notwithstanding the foregoing, if, at any time during the 90-day period, the Customer either refuses or fails to initiate and pursue corrective action, the Company shall be entitled to suspend forthwith the monthly billing under this rate schedule and bill the Customer under the otherwise applicable firm service rate schedule.

PROVISIONS FOR EARLY TERMINATION:

Subsequent to the initial term of service, transfers, with less than four (4) years' written notice, to any firm retail rate schedule for which the Customer would qualify, may be permitted if it can be shown that such transfer is in the best interests of the Customer, the Company and the Company's other customers.

If the Customer no longer wishes to receive electric service in any form from the Company, or decides to cogenerate to serve all of the previously controlled Load Control On-Peak Demand and to take interruptible standby service from the Company, the Customer may terminate the Commercial/Industrial Load Control Program Agreement by giving at least thirty (30) days' advance written notice to the Company.

If service under this schedule is terminated for any reason, the Customer will not be rebilled as specified in Charges for Early Termination if:

a. it has been demonstrated to the satisfaction of the Company that the impact of such transfer of service on the economic cost-effectiveness of the Company's CILC program is in the best interests of the Customer, the Company and the Company's other customers, or

b. the Customer is required to transfer to another retail rate schedule as a result of Commission Rule 25-6.0438, F.A.C., or

c. the termination of service under this rate schedule is the result of either the Customer's ceasing operations at its facility (without continuing or establishing similar operations elsewhere in the Company's service area), or a decision by the Customer to cogenerate to serve all of the previously controlled Load Control On-Peak Demand and to take interruptible standby service from the Company, or

d. any other Customer(s) with demand reduction equivalent to, or greater than, that of the existing Customer(s) agree(s) to take service under this schedule and the MW demand reduction commitment to the Company's Generation Expansion Plan has been met and the new replacement Customer(s) has (have) the equipment installed and is (are) available to perform load control, or

e. FPL determines that the Customer's MW reduction is no longer needed.

In the event the Customer pays the charges for termination without full notice because no replacement Customer(s) is(are) available as specified in paragraph d. above, but the replacement Customer(s) does(do) become available within 12 months from the date of termination of service under this schedule or FPL later determines that there is no need for the MW reduction, then the Customer will be refunded all or part of the rebilling and penalty in proportion to the amount of MW obtained to replace the lost capacity less the additional cost incurred by the Company to serve those MW during any load control periods which may occur before the replacement Customer(s) became available.

Charges for Early Termination:

In the event that:

a) service is terminated by the Company for any reason(s) specified in this section, or

b)~~c)~~ there is a termination of the Customer's existing service and, within twelve (12) months of such termination of service, the Company receives a request to re-establish service of similar character under a firm service or a curtailable service rate schedule, or under this schedule with a shift from non-firm load to firm service,

i) at a different location in the Company's service area, or

ii) under a different name or different ownership, or

iii) under other circumstances whose effect would be to increase firm demand on the Company's system without the requisite four (4)~~five (5)~~ years' advance written notice, or

c)~~b)~~ the Customer transfers the controllable portion of the Customer's load to "Firm Demand" or to a firm or a curtailable service rate schedule without providing at least four (4) ~~five (5)~~ years' advance written notice (except for those transfers made at the end of the initial term of service),~~ or~~

then the Customer will be:

1. rebilled under the otherwise applicable firm or curtailable service rate schedule for the shorter of (a) the most recent prior forty-eight (48)~~sixty (60)~~ months during which the Customer was billed for service under this rate schedule, or (b) the number of months the Customer has been billed under this rate schedule, and

2. billed a penalty charge of $1.00 per ~~kW~~kw times the number of months rebilled in No. 1 above times the highest Load Control On-Peak Demand occurring during the current month or the prior twenty-three (23) months.

~~Except as noted below:~~

~~If service under this schedule is terminated by the Customer for any reason, the Customer will not be rebilled as specified in paragraphs 1. and 2. above if:~~

~~a. it has been demonstrated to the satisfaction of the Company that the impact of such transfer of service on the economic cost-effectiveness of the Company's CILC program is in the best interests of the Customer, the Company, and the Company's other customers, or~~

~~b. the Customer is required to transfer to another retail rate schedule as a result of Commission Rule 25-6.0438, F.A.C., or~~

~~c. the termination of service under this rate schedule is the result of either the Customer's ceasing operations at its facility (without continuing or establishing similar operations elsewhere in the Company's service area), or a decision by the Customer to cogenerate to serve all of the previously controlled Load Control On-Peak Demand and to take interruptible standby service from the Company, or~~

~~d. any other Customer(s) with demand reduction equivalent to, or greater than, that of the existing Customer(s) agrees to take service under this schedule and the MW demand reduction commitment to the Company's Generation Expansion Plan has been met and the new replacement Customer(s) has(have) the equipment installed and is(are) available to perform load control.~~

~~In the event the Customer pays the penalty charges because no replacement Customer(s) is(are) available as specified in paragraph d. above, but the replacement Customer(s) does(do) become available within 12 months from the date of termination of service under this schedule, then the Customer will be refunded all or part of the rebilling and penalty in proportion to the amount of MW obtained to replace the lost capacity less the additional cost incurred by the Company to serve those MW during any load control periods which may occur before the replacement Customer(s) became available.~~

SPECIAL PROVISIONS:

1. Control of the Customer's load shall be accomplished through the Company's load management systems by use of control circuits connected directly to the Customer's switching equipment or the Customer's load may be controlled by use of an energy management system where the firm demand or controllable demand level can be established or modified only by means of joint access by the Customer and the Company.

2. The Customer shall grant the Company reasonable access for installing, maintaining, inspecting, testing and/or removing Company-owned load control equipment.

3. It shall be the responsibility of the Customer to determine that all electrical equipment to be controlled is in good repair and working condition. The Company will not be responsible for the repair, maintenance or replacement of the Customer's electrical equipment.

4. The Company is not required to install load control equipment if the installation cannot be economically justified.

5. Billing under this schedule will commence after the installation, inspection and successful testing of the load control equipment.

6. Maintenance of generation equipment necessary for the implementation of load control will not be scheduled during periods where the Company projects that it would not be able to withstand the loss of its largest unit and continue to serve firm service customers.

CONTINUITY OF SERVICE PROVISION:

In order to minimize the frequency and duration of interruptions or requests that the Customer operate its backup generation equipment, ~~requested under this rate schedule;~~ the Company will attempt to obtain reasonably available additional capacity and/or energy during periods for which interruptions or operation of the Customer's backup generation equipment may be requested. The Company's obligation in this regard is no different than its obligation in general to purchase power to serve its Customers during a capacity shortage; in other words, the Company is not obligated to account for, or otherwise reflect in its generation planning and construction, the possibility of providing capacity and/or energy under this Continuity of Service Provision. Any non-firm customers so electing to receive capacity and/or energy which enable(s) the Company to continue service to the Customer's non-firm loads during these periods will be subject to the additional charges set forth below.

In the event a Customer elects not to have its non-firm load interrupted pursuant to this Schedule, the Customer shall pay, in addition to the normal charges provided hereunder, a charge reflecting the additional costs incurred by the Company in continuing to provide service, less the applicable class fuel charge for the period during which the load would otherwise have been controlled (see Sheet No. 8.830). This incremental charge shall apply to the non-firm customer for all consumption above the Customer's Firm Demand during the time in which the non-firm load would otherwise have been controlled. If, for any reason during such period, this capacity and/or energy is (are) no longer available or cannot be accommodated by the Company's system, the terms of this Special Provision will cease to apply and interruptions will be required for the remainder of such period unless energy use is for one of the conditions outlined under "Provisions for Energy Use During Control Periods".

Any customer served under this rate schedule may elect to minimize the interruptions through the procedure described above. The initial election must be made in the Commercial/Industrial Load Control Program Agreement. Any adjustment or change to the election must be provided to the Company with at least 24 hours' written notice (not including holidays and weekends) and must be by mutual agreement, in writing, between the Customer and the Company. In such case, the written notice will replace any prior election with regard to this Continuity of Service Provision.

RULES AND REGULATIONS:

Service under this schedule is subject to orders of governmental bodies having jurisdiction and to the currently effective "General Rules and Regulations for Electric Service" on file with the Florida Public Service Commission. In case of conflict between any provision(s) of this schedule and said "General Rules and Regulations for Electric Service", the provision(s) of this schedule shall apply.

DEFINITIONS:

Generating Capacity Emergency:

A Generating Capacity Emergency exists when any one of the electric utilities in the state of Florida has inadequate generating capability, including purchased power, to supply its firm load obligations.

Force Majeure:

Force Majeure for the purposes of this schedule means causes not within the reasonable control of the Customer affected and not caused by the negligence or lack of due diligence of the Customer. Such events or circumstances may include acts of God, strikes, lockouts or other labor disputes or difficulties, wars, blockades, insurrections, riots, environmental constraints lawfully imposed by Federal, State, or local governmental bodies, explosions, fires, floods, lightning, wind, accidents to equipment or machinery, or similar occurrences.

Backup Generation Equipment:

Backup generation equipment shall be Customer-provided generation equipment and switch gear. This generation equipment will be utilized for emergency purposes, including periods when the Company is controlling load.

COMMERCIAL/INDUSTRIAL LOAD CONTROL PROGRAM AGREEMENT

This Agreement is made this _____ day of _____, 19_____, by and between _____ (hereinafter called the "Customer"), located at _____ in _____, Florida, and FLORIDA POWER & LIGHT COMPANY, a corporation organized under the laws of the State of Florida (hereinafter called the "Company").

WITNESSETH

For and in consideration of the mutual covenants and agreements expressed herein, the Company and the Customer agree as follows:

1. The Company agrees to furnish and the Customer agrees to take electric service subject to the terms and conditions of the Company's Commercial/Industrial Load Control Program Schedule CILC-1 ~~(hereinafter called~~"Schedule CILC-1") as currently approved or as may be modified from time to time by the Florida Public Service Commission ~~(hereinafter called~~ the"Commission"). The Customer understands and agrees that, whenever reference is made in this Agreement to Schedule CILC-1, both parties intend to refer to Schedule CILC-1 as it may be modified from time to time. A copy of the Company's presently approved Schedule CILC-1 is attached hereto as Exhibit A and is hereby made an integral part of this Agreement.

2. The initial Term of Service under this schedule shall be one (1) year. At the end of the one year period, the Customer may either terminate service by giving the Company written notice within at least thirty (30) days prior to the end of the one year period OR continue service under this rate schedule, subject to Limitation of Availability, until terminated by either the Company or the Customer upon written notice given at least four (4) years prior to termination. Should the Customer terminate service or be removed by the Company and later desire to resume service under this rate schedule, the Customer must provide four (4) years' written notice prior to resuming service under this schedule. ~~To establish the initial qualification for service under Schedule CILC-1, the Customer must have had a maximum demand during the previous twelve months of 200 kw greater than the "Firm Demand" level specified in paragraph 7 below.~~

3. Service under Schedule CILC-1 will be subject to determinations made under Commission Rules 25-17.002(4), F.A.C. Goals for Electric Utilities and 25-6.0438, F.A.C., Non-Firm Service -Terms and Conditions, or any other Commission determination(s). ~~The Company and the Customer agree that Schedule CILC-1 may be modified or withdrawn subject to determinations made under Commission Rule 25-6.0438, F.A.C., Non-Firm Electric Service - Terms and Conditions, or any other Commission determination.~~

4. The Customer agrees either (i) to not exceed a usage level of _____ kw ("Firm Demand") during the periods when the Company is controlling the Customer's service, or (ii) to provide a load reduction of _____ kw ("Controllable Demand") during periods when the Company is controlling the Customer's service. If the Customer chooses to operate backup generation equipment in parallel with FPL, the Customer shall enter into an interconnection agreement with the Company prior to operating such equipment in parallel with the Company's electrical system. The Firm Demand level (as applicable) shall not be exceeded during periods when the Company is controlling load; nor shall the Controllable Demand level (as applicable) be reduced during periods when the Company has requested that the Customer operate its equipment to meet the Controllable Demand level. Upon mutual agreement of the Company and the Customer, the Customer's Firm Demand or Controllable Demand may be subsequently raised or lowered, so long as the change in the Firm Demand is not a result of a transfer of load from the controllable portion of the Customer's load, unless the transfer is made within thirty (30) days prior to the end of the initial term of service. The Customer shall notify the Company, in writing, at least ninety (90) days prior to either adding firm load, or reducing or removing any of the Customer's backup generation equipment.

5.4. Prior to the Customer's receipt of service under Schedule CILC-1 the Customer must provide the Company access at any reasonable time to inspect any and all of the Customer's load control equipment and/or backup generation equipment, and must also have received approval from the Company that said the load control equipment is satisfactory to effect control of the Customer's load, and/or the backup generation equipment is satisfactory to contribute to the Controllable Demand level. The Customer shall be responsible for meeting any applicable electrical code standards and legal requirements pertaining to the installation, maintenance and repair of the load control and/or backup generation equipment. ~~The Customer shall be responsible for maintaining the Customer's load control equipment and shall provide the Company access at any reasonable time to inspect the condition of the equipment for purposes of determining whether the load control equipment is satisfactory to effect control of the Customer's controllable load.~~ It is expressly understood that the initial approval and later inspections by the Company are not for the purpose of, and ~~are not to be relied upon by the Customer~~ for, the Customer is not to rely upon any such inspection(s) for, determining whether the load control and/or backup generation equipment has been adequately maintained or is in compliance with any applicable electrical code standards or legal requirements.

6. The Customer agrees to be responsible for the determination that all electrical equipment to be controlled and/or backed up is in good repair and working condition. The Company shall not be responsible for the repair, maintenance or replacement of the Customer's equipment.

7.5. Within two (2) years of this Agreement, ~~The~~ the Customer agrees (i) to perform the necessary changes ~~by (date) _____~~ to allow control of a portion of the Customer's load and/or (ii) to install or have in place backup generation equipment to contribute to the Controllable Demand level. Schedule CILC-1 cannot apply earlier than this date unless ~~agreed to by~~ the Company so agrees. Should the Customer fail to complete the above work by the above-specified date, or should the Customer fail to begin taking service under Schedule CILC-1 during that year, this Agreement shall become null and void unless otherwise agreed by the Company. ~~In order to receive service under Schedule CILC-1, it shall be necessary for the Customer to execute a new Agreement, which will again make the availability of service subject to the "Limitation of Availability" in Schedule CILC-1.~~

8.6. Upon completion of the installation of the load control equipment and/or any necessary backup generation equipment, a test of this equipment will be conducted between the hours of 7 a.m. and 6 p.m. Monday through Friday, excluding holidays, ~~at a time and date mutually agreeable to the Company and the Customer.~~ Written notice of the test shall be provided to the Company at least five (5) business days in advance of the date of the test, and the Company shall be afforded the opportunity to witness the test. The test of the load control equipment will consist of a period of load control of not less than one hour. Effective upon the completion of the testing of the load control equipment and/or the backup generation equipment, the Customer will agree (as applicable) to either a "Firm Demand" or a "Controllable Demand". Service under Schedule CILC-1 cannot commence prior to the installation of load control equipment or any necessary backup generation equipment and the successful completion of the test.

~~7. The Customer agrees to a "Firm Demand" level of _____ kw during the periods when the Company is controlling the Customer's service. This "Firm Demand" level shall not be exceeded during periods when the Company is controlling load. Upon mutual agreement of the Company and the Customer, the Customer's Firm Demand may subsequently be raised or lowered, as long as the change in the "Firm Demand" level is not a result of a transfer of load from the controllable portion of the Customer's load. The Customer shall notify the Company upon adding firm load.~~

~~8.~~ In order to minimize the frequency and duration of interruptions under the CILC Program, the Company will attempt to obtain reasonably available additional capacity and/or energy under the Continuity of Service Provision in Schedule CILC-1. ~~The Company's obligation in this regard is no different than its obligation in general to purchase power to serve its Customers during a capacity shortage; in other words, the Company is not obligated to account for or otherwise reflect in its generation and transmission planning and construction the possibility of providing capacity and/or energy under the Continuity of Service Provision. Customers receiving service under Schedule CILC-1 may elect to continue taking service under the Continuity of Service Provision and it will be provided only if such capacity and/or energy can be obtained by the Company and can be transmitted and distributed to non-firm Customers without any impairment of the Company's system or service to other firm Customers.~~ The Customer elects/does not elect to continue taking service under the Continuity of Service Provision. Service will be provided only if capacity and/or energy can be obtained by the Company and can be transmitted and distributed to non-firm Customers without any impairment of the Company's system or service to firm Customers. The Customer may countermand the election specified above by providing written notice to the Company pursuant to the guidelines set forth in Schedule CILC-1. The Company's obligations under this section 9 ~~paragraph 7~~ are subject to the terms and conditions specifically set forth in Schedule CILC-1.

~~9. The Customer agrees to be responsible for the determination that all electrical equipment to be controlled is in good repair and working condition. The Company shall not be responsible for the repair, maintenance or replacement of the Customer's equipment.~~

~~10. If the Customer no longer wishes to receive any type of electric service from the Company, the Customer may terminate this Agreement by giving thirty (30) days' advance written notice to the Company.~~

10.~~11.~~ The Company may terminate this Agreement at any time if the Customer's load control equipment fails to permit the Company to effect control of the Customer's load, and/or if the Customer's equipment fails to meet the Controllable Demand level ~~comply with the terms and conditions of Schedule CILC-1 or this Agreement~~. Prior to any such termination, the Company shall notify the Customer at least ninety (90) days in advance and describe the failure or malfunction of the Customer's load control equipment and/or backup generation equipment ~~to comply~~. The Company may then terminate this Agreement at the end of the 90-day notice period unless the Customer takes measures necessary to remedy ~~eliminate~~, to the Company's satisfaction, the ~~compliance~~ deficiencies in the load control equipment and/or the backup generation equipment ~~described by the Company~~. Notwithstanding the foregoing, if, at any time during the 90-day period, the Customer either refuses or fails to initiate and pursue corrective action, the Company shall be entitled to suspend forthwith the monthly billing under the Schedule CILC-1, to bill the Customer under the otherwise applicable firm service rate schedule and to apply the rebilling and penalty provisions enumerated under "Charges for Early Termination" ~~TERM OF SERVICE~~ in Schedule CILC-1.

11.~~12.~~ The Customer agrees that the Company will not be liable for any damages or injuries that may occur as a result of control of electric service pursuant to the terms of Schedule CILC-1 by remote control or otherwise, and/or installation, operation or maintenance of the Customer's generation equipment to meet the Controllable Demand level.

12.~~13.~~ This Agreement supersedes all previous agreements and representations, either written or oral, heretofore made between the Company and the Customer with respect to matters herein contained. ~~Any modification(s) of this Agreement must be approved, in writing, by the Company and approved by the Commission.~~

13.~~14.~~ This Agreement may not be assigned by the Customer without the prior written consent of the Company. The Customer shall, at a minimum, provide to the Company a copy of the articles of incorporation or partnership agreement of the proposed assignee, and a copy of such assignee's most recent annual report at the time an assignment is requested.

~~14.~~15. This Agreement is subject to the Company's "General Rules and Regulations for Electric Service" and the Rules of the Commission.

IN WITNESS WHEREOF, the Customer and the Company have caused this Agreement to be duly executed as of the day and year first above written.

~~Witnesses:~~

_____

_____

~~Witnesses:~~

_____

Attest:

By: _____
Clerk/Deputy Clerk

CUSTOMER (private)

Company: _____

Signed: _____

Name: _____

Title: _____

~~**CUSTOMER (public) FLORIDA POWER & LIGHT COMPANY**~~

Governmental Entity: _____

Signed: _____

Name: _____

Title: _____

FLORIDA POWER & LIGHT COMPANY

Signed: _____

Name: _____

Title: _____

BUSINESS ENERGY EVALUATION

I. Program Description

The Business Energy Evaluation program is designed to encourage energy efficiency in commercial and industrial facilities by identifying DSM opportunities and providing recommendations to the customer. Energy efficiency encompasses analysis of all energy sources and customer energy-related productivity. Customer eligibility in FPL's other commercial and industrial programs will be determined and participation promoted through the evaluation.

FPL currently has two Business Energy Evaluation programs that were approved as part of FPL's Demand Side Management Plan for the 90's. This program is a modification of these two programs. The major modifications that are proposed are as follows:

1) Combine the Business Energy Evaluation and Business Energy Evaluation for New Construction programs into one program to reduce administrative costs.
2) Expand the scope of the evaluations to address total energy efficiency.
3) Expand the levels of evaluation complexity beyond that of the current walk-through level (i.e., there can be less complex and more complex levels).
4) Allow for cost sharing of more complex evaluations by the customer and FPL. The current walk-through level evaluations will still be free.

5) Allow for evaluations without an on-site visit.

6) Perform evaluations based on the needs of our commercial and industrial customers rather than having an annual goal.

7) Remove the requirement of a Business Energy Evaluation for eligibility in FPL's other commercial and industrial programs.

FPL plans to make commercial and industrial customers aware of this program through advertising, trade allies, such as architects, engineers and educational systems. In addition, customers will have direct contact with FPL personnel.

FPL proposes to implement the above modifications in the third quarter of 1995 based on Commission approval in June 1995.

II. Description of Program Administration

All commercial and industrial customers are eligible for this program whether they have existing facilities or are planning, expanding or renovating facilities in FPL's service territory. Customers are eligible for as many evaluations as necessary to encourage implementation of recommendations.

The program will be free of charge to eligible customers for walk-through level evaluations. For more complex evaluations, the customer and FPL may share in the cost.

While on-site visits are encouraged, they are not necessary as long as the customer's evaluation needs are met.

It will be recommended to the customer that the evaluation be used as a tool to examine energy efficient opportunities in the customer's facility and to determine eligibility in all of FPL's other commercial and industrial DSM programs. However, in cases where the customer wants to focus on the implementation of one technology at a time, the evaluation is a less effective tool. Therefore, while the Business Energy Evaluation is encouraged, it is not a requirement for eligibility in FPL's other commercial and industrial programs. The eligibility requirements for the other programs will be determined consistent with their program guidelines.

III. Projected Participation and Savings

Electric demand and energy savings from implementing the Business Energy Evaluation recommendations will occur, but they will not be directly claimed through the Business Energy Evaluation program. Instead, some savings will be claimed through FPL's other commercial and industrial incentive programs. There should also be additional savings resulting from recommendations identified in the evaluation that are not addressed by FPL's programs.

Based on historical participation and current FPL program offerings, it is estimated that 5,000 evaluations will be performed per year. The actual participation will be market driven.

IV. Cost-Effectiveness Analysis

Since FPL does not project savings for this program, a cost-effectiveness analysis is not directly performed for this program. FPL requests that the Commission waive any showing of cost-effectiveness for this program. Cost-effectiveness has been shown for other programs served by this program, and that approach avoids double counting benefits or attempting to quantify benefits beyond other programs.

The costs to administer the program are ultimately reflected in electric rates to the customer through the Energy Conservation Cost Recovery clause. Therefore, to reduce upward pressure on electric rates, all efforts will be made to keep the program costs to a minimum.

V. Program Monitoring and Evaluation

This program will be evaluated annually by the number of evaluations performed and the cost per evaluation. It will be indirectly evaluated for its effectiveness in providing leads for FPL's other commercial and industrial programs. A computerized database will be used to track and record the effectiveness of the evaluations.

Attachment A

Program Name: **BUSINESS ENERGY EVALUATION**

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Program Customers *	(d) Cumulative Penetration Level %
1995	387,515	387,515	5000	1.3
1996	397,896	397,896	5000	2.5
1997	409,210	409,210	5000	3.7
1998	420,631	420,631	5000	4.8
1999	431,683	431,683	5000	5.8
2000	442,313	442,313	5000	6.8
2001	452,517	452,517	5000	7.7
2002	462,570	462,570	5000	8.6
2003	472,870	472,870	5000	9.5
2004	483,399	483,399	0	9.3

* Refer to description of BEE Program for explanation.

Note:

Column a - The total number of commercial and industrial customers.

Column b - The total number of eligible commercial and industrial cusotmers.

Column c - The annual number of participants in this program.

Attachment B

Program Name: **BUSINESS ENERGY EVALUATION**

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
1995	NA	NA	NA	NA	NA	NA
1996	NA	NA	NA	NA	NA	NA
1997	NA	NA	NA	NA	NA	NA
1998	NA	NA	NA	NA	NA	NA
1999	NA	NA	NA	NA	NA	NA
2000	NA	NA	NA	NA	NA	NA
2001	NA	NA	NA	NA	NA	NA
2002	NA	NA	NA	NA	NA	NA
2003	NA	NA	NA	NA	NA	NA
2004	NA	NA	NA	NA	NA	NA

Attachment C

Program Name: **BUSINESS ENERGY EVALUATION**

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
1995	NA	NA	NA	NA	NA	NA
1996	NA	NA	NA	NA	NA	NA
1997	NA	NA	NA	NA	NA	NA
1998	NA	NA	NA	NA	NA	NA
1999	NA	NA	NA	NA	NA	NA
2000	NA	NA	NA	NA	NA	NA
2001	NA	NA	NA	NA	NA	NA
2002	NA	NA	NA	NA	NA	NA
2003	NA	NA	NA	NA	NA	NA
2004	NA	NA	NA	NA	NA	NA

COMMERCIAL/INDUSTRIAL BUILDING ENVELOPE PROGRAM

I. Program Description

The Commercial/Industrial Building Envelope (CIBE) Program is designed to reduce FPL's commercial and industrial heating, ventilating, and air conditioning (HVAC) loads. This program will encourage eligible commercial and industrial customers to increase the efficiency of qualifying portions of their building's envelope, which will reduce HVAC energy consumption and demand. FPL proposes to implement the CIBE program in the third quarter of 1995, based on Commission approval in June 1995.

This program will provide incentives to customers, or their designees, for the installation of cost-effective high-efficiency building envelope measures and products, such as window treatments and roof/ceiling insulation. The CIBE participating customer will also receive all energy, demand, and operational savings from the installation of the higher efficiency measures.

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

II. Description of Program Administration

The CIBE program will be available to commercial and industrial customers who are currently receiving electric service from FPL and whose facility is a completed building for which a Certificate of Occupancy, or equivalent approval for occupancy, has been issued. Participating customers must either replace specific existing building envelope components with higher efficiency products, or enhance these components with higher efficiency retrofit measures.

All measures and products will be required to meet technical eligibility requirements, which will be detailed in the CIBE Program Standards. The Program Standards will be subject to periodic review and may be modified over time in response to factors such as, but not limited to, changing program delivery strategies, market needs, program evaluation results, and incentive amounts.

In order to qualify for the CIBE program, a customer must provide assurance that the portion of the building for which an incentive is being provided is conditioned by an HVAC system using electricity as its primary fuel source. This HVAC system must operate during FPL's on-peak hours, from 3 P.M. to 6 P.M., weekdays for the months of April through October.

Products and measures which are required by or necessary to meet the requirements of any applicable federal, state, or local

municipal building or energy codes are not eligible for CIBE program incentives.

Eligible installations shall be open to inspections before and after installation for verification of qualifying criteria, as well as for monitoring and assessment of the impact of the installed measures and products. The Program Standards will detail all qualifying requirements for participation in the CIBE program.

The CIBE program incentives will be capped at an average incentive of $483 per summer kw reduced, which is supported by the cost-effectiveness analyses shown in Appendix A. Incentive payments will be tracked in a computer database over the lifetime of the CIBE program. Within cost-effectiveness parameters, incentives may be adjusted over the program's lifetime in response to program evaluation results, changing market conditions, and the emergence of new technologies.

Incentive amounts to the customer will be based upon the efficiency of existing building envelope components as well as the efficiency of the installed measures or products. CIBE program incentives for each measure or product will be limited to provide no less than a two-year payback on the incremental installation cost to the average participant. Incentive amounts for individual participants will be limited to the actual incremental installation cost of the building envelope measures or products.

Incentive certificates will be issued to qualifying customers prior to the installation of building envelope measures and products. It is expected that these certificates will be submitted by the customer to either the contractor or to FPL for payment of the incentive. Prior to payment of incentives, FPL will require proper documentation of all installations and will make the final determination as to eligibility and applicability.

Qualifying measures and products must be installed on or after the date the CIBE program is approved.

III. Projected Participation and Savings

The average CIBE program participant's demand and energy savings are shown in Attachments B and C. The energy consumption and demand reduction projections are based on engineering assumptions and calculations. The projected participation in this program and resulting savings are shown in Attachment A, B and C. Projected participation is based upon FPL's Cost-Effective Goals Results Report (CEGRR).

IV. 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: 1.31 Participants, 1.31 RIM, and 1.37 TRC for the CIBE program.

V. Program Monitoring and Evaluation

The impact of this program on demand and energy consumption will be evaluated over time by FPL. Data will be collected from nonparticipants in order to establish a non-DSM technology baseline. Participants' data will be compared against nonparticipants' data to establish usage patterns, demand impacts and to validate engineering assumptions.

FPL will utilize any or all three major impact evaluation analysis methods in a manner that most cost-effectively meets the overall impact evaluation objectives--engineering analysis, statistical billing analysis and on-site metering research. As these evaluations proceed, the components to be analyzed and the periods for which data is available will increase, resulting in continual enhancements in the scope and accuracy of reported evaluation results.

Attachment A

Program Name: **Commercial/Industrial Building Envelope**

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Program Participants	(d) Cumulative Penetration Level %
1995	**387,515**	**146,892**	**9,580**	**6.5**
1996	**397,896**	**145,365**	**10,768**	**14.0**
1997	**409,210**	**143,855**	**12,295**	**22.7**
1998	**420,631**	**142,360**	**14,376**	**33.0**
1999	**431,683**	**140,881**	**14,376**	**43.5**
2000	**442,313**	**139,417**	**14,376**	**54.3**
2001	**452,517**	**137,968**	**5,222**	**58.6**
2002	**462,570**	**136,535**	**3,479**	**61.8**
2003	**472,870**	**135,116**	**1,740**	**63.7**
2004	**483,399**	**133,714**	**0**	**64.5**

Note:

Column a - The total number of customers in the commercial/industrial class.

Column b - The total number of eligible customers in the commercial/ industrial class.

Column c - The annual number of participants in the program.

Attachment B

Program Name: **Commercial/Industrial Building Envelope**

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
1995	1,240	0.09	0.8	11,871,133	863	7,635
1996	1,240	0.09	0.8	13,353,623	969	8,582
1997	1,239	0.09	0.8	15,218,187	1,104	9,787
1998	1,239	0.09	0.8	17,812,872	1,294	11,443
1999	1,239	0.09	0.8	17,812,872	1,294	11,443
2000	1,239	0.09	0.8	17,812,872	1,294	11,443
2001	1,239	0.09	0.8	6,465,208	465	4,141
2002	1,239	0.09	0.8	4,305,124	310	2,759
2003	1,239	0.09	0.8	2,155,639	155	1,380
2004	TBD	TBD	TBD	0	0	0

Attachment C

Program Name: **Commercial/Industrial Building Envelope**

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
1995	1,345	0.10	0.89	12,878,209	965	8,538
1996	1,345	0.10	0.89	14,486,465	1,084	9,597
1997	1,344	0.10	0.89	16,509,207	1,235	10,945
1998	1,344	0.10	0.89	19,324,010	1,447	12,797
1999	1,344	0.10	0.89	19,324,010	1,447	12,797
2000	1,344	0.10	0.89	19,324,010	1,447	12,797
2001	1,343	0.10	0.89	7,013,677	520	4,631
2002	1,343	0.10	0.89	4,670,345	347	3,085
2003	1,343	0.10	0.89	2,338,511	173	1,543
2004	TBD	TBD	TBD	0	0	0

GENERAL SERVICE LOAD MANAGEMENT PROGRAM

("BUSINESS ON CALL" PROGRAM)

I. Program Description

The General Service (GS) Load Management Program is designed primarily to reduce system peak demand on an as-needed basis; it will also reduce energy consumption. The GS Load Management Program involves the installation of direct load control equipment on customers' Direct Expansion (DX), central air conditioners, to allow FPL to control customer loads on an as-needed basis. FPL proposes to implement this new program in the third quarter of 1995 based on Commission approval in June 1995.

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

II. Description of Program Administration

The GS Load Management Program is available to all GS customers who are individually metered and who have DX central air conditioners. A customer may sign-up if the facility has one or more DX central air conditioning units serving the facility. Customers who participate in the Program will be eligible based on three primary factors: whether the customer has the proper type of air conditioning equipment, whether their service characteristics

(voltage, etc.) are compatible with existing load control equipment, and whether the customer receives service from a substation which has load control equipment installed. A copy of the GS Load Management Program's rate schedule (GSL), which details the incentive payments and other applicable terms and conditions, is attached.

Participants in the GS Load Management Program will receive an incentive payment, in the form of a monthly credit, of $2.00 per ton of air conditioning, per month. The tonnage will be based on the nameplate rating of the customer's air conditioning system and will be rounded to the nearest one-half ton. Once the customer signs up for the program, the installation request will be sent to a contractor for installation. Once the installation is completed, the contractor sends the paperwork to FPL, the installation is then entered into the Load Management Information System (LMIS), resulting in the activation of the equipment at the customer's facility. Upon installation and inspection of the load management equipment, the customer will receive a monthly credit on his/her electric bill.

The incentives will only be paid during the cooling months of April through October. FPL maintains an internal audit trail for all incentive payments by means of its LMIS system. This computer database maintains interview and installation information for each program participant as well as a history of all incentives paid.

FPL will utilize any or all three major impact evaluation analysis methods in a manner that most cost-effectively meets the overall impact evaluation objectives - engineering analysis, statistical billing analysis and on-site metering research. As these evaluations proceed, the components to be analyzed and the periods for which data is available will increase, resulting in the continual enhancements in the scope and accuracy of reported evaluation results.

Attachment A

Program Name: **GS LOAD MANAGEMENT PROGRAM**

Year	(a) Total Number of Customers	(b) Total Number of Eligible Customers	(c) Annual Number of Program Participants	(d) Cumulative Penetration Level %
1995	254,075	196,197	2,685	1 %
1996	261,500	201,930	3,021	3 %
1997	269,022	207,739	3,450	4 %
1998	276,546	213,549	4,028	6 %
1999	284,069	219,358	4,028	8 %
2000	276,546	213,549	4,028	10 %
2001	283,739	219,103	1,467	10 %
2002	290,736	224,506	977	11 %
2003	310,062	239,430	489	10 %
2004	329,388	255,352	0	9 %

Note:

Column a - The total number of customers in the GS rate class.

Column b - The total number of eligible customers in the GS rate class.

Column c - The annual number of participants in the program.

Attachment B

Program Name: **GS LOAD MANAGEMENT PROGRAM**

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
1995	33	0.00	1.20	87,612	0	3,222
1996	33	0.00	1.20	98,575	0	3,625
1997	33	0.00	1.20	112,574	0	4,140
1998	33	0.00	1.20	131,434	0	4,834
1999	33	0.00	1.20	131,434	0	4,834
2000	33	0.00	1.20	131,434	0	4,834
2001	33	0.00	1.20	47,857	0	1,760
2002	33	0.00	1.20	31,896	0	1,173
2003	33	0.00	1.20	15,962	0	587
2004	TBD	TBD	TBD	0	0	0

Note:

* - Per customer summer kw reduction for high system load days.

Attachment C

Program Name: **GS LOAD MANAGEMENT PROGRAM**

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
1995	35.8	0.00	1.34	95,044	0	3,603
1996	35.8	0.00	1.34	106,938	0	4,054
1997	35.8	0.00	1.34	122,124	0	4,630
1998	35.8	0.00	1.34	142,584	0	5,406
1999	35.8	0.00	1.34	142,584	0	5,406
2000	35.8	0.00	1.34	142,582	0	5,406
2001	35.8	0.00	1.34	51,917	0	1,968
2002	35.8	0.00	1.34	34,602	0	1,312
2003	35.8	0.00	1.34	17,316	0	656
2004	TBD	TBD	TBD	0	0	0

Note:

* - Per customer summer kw reduction for high system load days.

RATE SCHEDULE GSL

GENERAL SERVICE LOAD MANAGEMENT PROGRAM
(FPL "BUSINESS ON CALL" PROGRAM)

SCHEDULE: GSL

AVAILABLE:

Available only within the geographic areas served by the Company's Load Management system.

APPLICATION:

To customers receiving service under Rate Schedule GS-1 who elect to participate in this program, who utilize direct expansion central electric air conditioning and have operating hours that include 3 p.m. to 5 p.m., a minimum of four weekdays per week.

SERVICE:

The same as specified in Rate Schedule GS-1.

LIMITATION OF SERVICE:

The same as specified in Rate Schedule GS-1. Central electric air conditioning equipment shall be interrupted at the option of the Company by means of load management equipment installed on the Customer's premises.

MONTHLY CREDIT:

Customers receiving service under this schedule will receive a credit on the monthly bill as follows:

DEVICE	APPLICABILITY	CREDIT
Central electric air conditioning	April - October	$2 per ton of air conditioning

The total monthly credit shall not exceed 40 percent of the Rate Schedule GS-1 non-fuel energy charge actually incurred for the month and no credit will be applied to reduce the minimum bill specified on Rate Schedule GS-1.

The air conditioning tonnage will be calculated by dividing the name plate BTU rating by 12,000 BTUs per ton. The tonnage will then be rounded to the nearest half-ton to calculate the monthly credit amount.

INTERRUPTION SCHEDULE:

The Customer's participating central electric air conditioning equipment will be interrupted only during the following period, except under emergency conditions:

April 1 through October 31: 2 p.m. to 10 p.m.

Central electric air conditioning equipment may be interrupted an accumulated total of 15 minutes during any 30-minute period with a cumulative interruption time of up to 180 minutes per day.

The limitations on interruptions of central electric air conditioning equipment shall not apply during emergencies on the Company's system or to interruptions caused by force majeure or other causes beyond the control of the Company.

(Continued on Sheet No. 8.110)

SECTION IV - RESEARCH & DEVELOPMENT EFFORTS

FPL's DSM Plan contains extensive research and development activities. Historically, FPL has pursued significant DSM research and development activities through not only a research program, Conservation Research and Development, but also through individual research projects. In keeping with that tradition and to meet the challenge presented by the Commission's aggressive DSM goals[1], FPL will be involved in a number of DSM research efforts.

A. Research Overview

FPL's continuing research efforts include activities within and beyond FPL's DSM Plan. Within the plan FPL has one (1) research program, eight (8) individual research and development projects, one (1) identified concept, and several measures being evaluated by the FCG. FPL's research program is its existing Conservation Research and Development Program, which FPL is proposing to modify. FPL's research and development projects include four previously approved projects - New Home Construction, Residential Thermal Energy Storage, Hot Water Storage and Commercial/Industrial Dehumidification - and four new projects - Residential Solar Water Heating, Residential Water Heating Heat Pump, Cool Communities, and

[1]As previously discussed, the Commission established RIM based goals that significantly exceed FPL's Achievable Potential for DSM cost-effective under the RIM test. Through 2003 FPL will have to find additional DSM savings above its RIM Achievable Potential of 214 MWs Summer demand, 128 MWs Winter Demand and 28 GWHs. While some of that shortfall may be achieved through greater market saturation than projected in our programs, most of that shortfall will need to be found in research and development efforts.

Demand Load Control. FPL's research concept set forth in its DSM Plan is the Green Pricing concept. FPL's participation in FCG research is described further in subsection C.

Outside of FPL's DSM Plan, FPL is actively pursuing other DSM research and development activities. These include FPL's Commercial/Industrial Real Time Pricing research effort and development of a gas research and development project.

Historically, FPL has performed extensive DSM research and development, and FPL will continue such activities under this plan. Such efforts are an integral part of FPL's strategy to achieve the aggressive goals established for FPL in the recent conservation goals proceeding. These efforts will examine a wide variety of technologies, building on prior FPL research, where applicable, and expanding the research to new and promising technologies as they emerge.

B. GREEN PRICING

The Green Pricing concept is a potential program where customers would agree to make voluntary contributions to FPL so that a greater portion of the energy generated by FPL would be from renewable resources. Residential customers would agree to contribute to FPL a fixed monthly amount. Commercial/Industrial customers could make a lump sum contribution, give a fixed annual amount, or participate through other means of sponsorship such as

providing a service. FPL plans to solicit customers through bill inserts and/or other methods. All FPL customers will be eligible to participate.

The program concept will allow customers to voluntarily contribute towards the purchase of renewable resources by FPL that would otherwise not be cost-effective for FPL to acquire. The level of customer contributions will determine the extent to which FPL will invest in renewable resource generation facilities. The revenues collected from these customers will be put into a separate account (the Green Fund) and be used to purchase renewable resources, initially photovoltaic (PV) modules, which will be located at one or more sites such as power plants, substations, and/or other FPL locations throughout FPL's service territory. At these locations photovoltaic modules would be used to convert sunlight into electricity which would be fed into the grid. The PV units would not be ordered until there were sufficient voluntary contributions to the Green Fund to cover the purchase and installation costs.

The benefit to all FPL customers, both participants and nonparticipants, would be lower energy costs through fuel displacement by substituting PV-generated electricity for electricity otherwise generated by FPL's fossil units.

In addition, the benefit to the participant would also be that it would allow a customer who is interested in renewable energy

technology to contribute toward the commercialization of renewable technology so that it becomes economically viable more quickly than would otherwise be the case.

FPL has been actively involved in PV research and testing for a number of years. FPL contributed both funds and monitoring equipment to the Florida Solar Energy Center (FSEC) for FSEC's PV-powered experimental residential structure which was designed to evaluate the annual performance of PV's in relation to loads found in a typical residence. In addition, FPL has performed its own PV testing at both its Flagami substation and at the recently constructed PV test site in Martin County. FPL has also tested the feasibility of using PV as a demand side management tool in its PV-powered pool pump research project. Finally, FPL has examined PV's in its planning studies from both a capacity option and a "fuel substitution" option perspective.

The general conclusions which FPL has reached from its work with PV's are that: (1) a PV module can be reliably counted on to supply a reasonably constant, although small, number of annual kwh of electricity; (2) however, due to the intermittent nature of the annual kwh produced by PV's (which is largely attributed to Florida's varying cloud conditions), and the fact that PV's maximum output (which occurs around mid-day) does not match up well with the timing of FPL's peak loads (late afternoon in Summer and early morning in Winter), PV's are not an attractive capacity option;

and, (3) the price of PV's are too high currently to allow them to be a viable resource option. These conclusions have led FPL to its proposed approach for utilizing PV's.

FPL's proposed approach to utilizing PV's is to employ it as a fuel substitution option. The PV modules which will be purchased with voluntary contributions from customers will be placed on FPL's system at one or more locations. These modules will be used solely to generate energy which will allow a corresponding reduction in the output of FPL's fossil fuel - fired units. Although the fuel savings will be quite small relative to the total output of the FPL system, due both to the high cost of PV modules and PV's inherent low annual energy output, the PV modules will still reduce fossil fuel usage by FPL's system. This reduction in fossil fuel usage will result in lower rates (from lower fuel costs) for all of FPL's customers.

FPL envisions issuing a Request for Proposals (RFP) to PV manufacturers, suppliers, etc. which both explains the scope and purpose of FPL's PV initiative and requests proposals from them for the delivery of PV modules. FPL will select a PV vendor(s) from the proposals on a competitive basis. FPL has already met with the Florida Solar Energy Center to discuss the PV industry, the RFP's general approach, and possible ways to structure and direct the RFP. The RFP is scheduled to be issued in the 3rd Quarter of 1995.

Once the proposals are reviewed and a vendor(s) is selected, FPL will begin placing orders during the 1st Quarter of 1996 or as soon as sufficient funds have been collected. Due to the modular nature of PV's, it is anticipated that there will be only a several month period between the time FPL places an order and the time in which the PV delivery is received and the installed PV modules begin supplying energy to FPL's grid.

The cost-effectiveness of implementing PV's as a fuel substitution option has been qualitatively examined by FPL from both the perspectives of participants and nonparticipants and from its impact on electric rates. The results of this examination are as follows:

- Nonparticipants (i.e., people who choose not to voluntarily contribute monies to PV's) directly benefit by the fact that lower system fuel costs reduce electric rates, and consequently bills;

- Participants (i.e., people who do contribute voluntarily to the PV purchases) also receive the same reduction in electric rates and their bills as do nonparticipants. However, these direct benefits will generally be more than offset by the amount of money which they voluntarily contribute. Nevertheless, the participants are knowingly and willingly making their decision to contribute to encourage the

utilization of renewable energy technology. In so doing, they are deciding that the indirect benefits which they perceive are being derived from the contributions are significant enough to warrant the contribution.

- The use of PV's as a fuel substitution option in the manner proposed by FPL will lower FPL's electric rates since the fuel savings achieved will be greater than the relatively small PV-related costs which are not covered by the voluntary contributions from customers.

Status:

FPL is actively investigating this concept. The following issues have been resolved:

- The residential customer will sign up for green pricing and indicate the amount of the contribution by returning a form through the mail or by calling FPL. Initially, the customer will be billed through a miscellaneous receivable system which means that the customer will receive a separate bill. Even though the customer will specify a fixed monthly contribution, in order to reduce administrative costs the customer will be billed on a quarterly basis. Ultimately, FPL intends to have the green pricing contribution appear as a separate line item on their regular monthly electric bill. The costs and the time required to convert the billing system to allow the collection

of funds through the customer's electric bills have not be finalized.

- The "Green Fund" money will be used for both the capital purchases and the O&M (Operating and Maintenance) expenses of the PV modules. The administrative expenses of the program would be recovered through the ECCR clause.

Unresolved issues include:

- Final Billing methodology
- Marketing Plan

Proposed Schedule:

FPL currently envisions the following schedule:

Steps	Commencement Date
• Develop Marketing Plan	1st Q, 1995
• Finalize billing methodology	2nd Q, 1995
• File Program/Petition with the FPSC	3rd Q, 1995
• Issue RFP	3rd Q, 1995
• Complete RFP process	4th Q, 1995

The schedule may change due to the resolution of currently unresolved issues or other factors not yet anticipated.

C. Florida Coordinating Group Research (FCG)

Some of the demand side management measures categorized by the Florida Public Service Commission as R&D (Research & Development)

are being evaluated through the Florida Coordinating Group Energy Conservation Committee. These measures include the following: reflective roof coatings, ceiling fans, variable air volume systems and dual path air conditioning system. A task team has been formed and a literature search conducted on available information. The task team is reviewing the available information and will recommend the required research needs for each measure. The team will develop a request for proposal to conduct the required research. After reviewing the proposals the team will submit a budget to the Energy Conservation Committee for approval. The request for proposals is scheduled to be released during the first quarter of 1995 and review of proposals completed by the second quarter of 1995. The Florida Coordinating Group budget approval is scheduled for the third quarter 1995. The schedule for completing the research may vary by measure based on the required research.

D. Detailed Program and Project Descriptions

1. Conservation Research and Development (CRD) Program

FPL currently has an approved Conservation Research and Development Program. This program was originally approved by the Commission in November of 1990 as part of FPL's DSM Plan for the 90's. It was subsequently modified in October 1992. The CRD Program has been used by FPL to research, and where appropriate, develop emerging DSM technologies. FPL has researched a wide variety of technologies under the CRD Program, and from that research it has been able to develop several new programs such as

Commercial/Industrial Building Envelope, Efficient Motors and Off Peak Battery Charging. FPL regularly reports in its true-up and projection filings for its ECCR clause the activities within the CRD Program.

FPL believes that the CRD Program has worked, serving FPL's customers well. It allows FPL to research emerging conservation technologies without always creating extensive research projects. Through CRD FPL can investigate new technologies and determine whether they should be incorporated into a program, further researched as a research project, or abandoned. If FPL is to continue to stay abreast of emerging DSM technologies and develop new programs, the CRD Program needs to be continued.

When originally approved, the CRD Program had a three year spending cap of $525,000 for the three years ending in December 1992. FPL petitioned in 1992 to have the Commission remove the spending cap, but after concerns expressed by the Staff, FPL amended its petition to request new annual spending caps of $800,000. The Commission approved FPL's amended petition authorizing FPL to spend $800,000 per year for each of the years beginning October 1992, with the opportunity to spend any unspent money from prior years in subsequent years. FPL will independently petition the Commission to extend the third year of the CRD Program as currently approved (October 1994 through September 1995) through December 31, 1995 and

increase the spending cap for the third period from $800,000 to $1,100,000.

As part of FPL's DSM Plan, FPL seeks to renew its CRD program beginning January 1, 1996 and extending through December 31, 1998 with a spending cap of $3,600,000 for the three years. FPL further requests that the annual spending caps be discontinued. FPL seeks to change the period authorized for funding to calendar years so that it will match FPL's budget year. FPL seeks to remove annual caps to increase its flexibility in making research and development expenditures without having to come to the Commission for intermediate changes. Aside from the proposed changes to the spending cap period and amount, FPL proposes no substantive change to the CRD Program.

2. Existing Research and Development Projects

The following are active research projects which were previously approved by the Commission and will continue as part of FPL's DSM Plan.

Hot Water Storage Research Project

This research project was originally undertaken to determine the feasibility of using hot water storage (HWS) technology as an approach to reduce the peak demand impact of electric resistance water heating among FPL's commercial/industrial customers. During 1992 the project scope was expanded to include residential

customers. Through the project, FPL will evaluate the kw and kwh impacts per HWS installation and the HWS system's capacity to provide hot water needed during peak hours which is heated during off-peak hours. In addition, the feasibility of alternative HWS means are being assessed in the project, such as high temperature and pressure storage tanks, which may help to address customer concerns toward conventional HWS space requirements.

Based upon the completion times of the phases of the project to date, FPL expects the research project to be completed during the fourth quarter of 1995. Project costs through October 1994 are $152,000, and the total cost of the project is expected to be below the original project estimate of $225,000.

Residential Thermal Energy Storage Project

This research project is intended to determine the technical feasibility and residential customer acceptance of installing thermal storage space conditioning equipment. This equipment could potentially remove customers' space conditioning equipment load from FPL's summer peak demand periods. The thermal storage equipment basically produces ice during off-peak hours which is then utilized during peak periods for air conditioning.

The project is expected to be completed in the first quarter of 1996. Project costs through October 1994 are $180,534, and the

total cost of the project is expected to be below the original $413,400 project estimate.

Residential New Home Construction Research Project

The objective of FPL's New Home Construction Research Project is to identify, investigate, quantify the impact of, and determine the cost-effectiveness of conservation opportunities in residential, detached, single-family home construction. The target market for this project is new single-family detached homes, new manufactured homes and Hurricane Andrew damaged homes that have been determined by public authorities to be unfit for human habitation and are being rebuilt.

The activities undertaken in this project are designed to increase the overall energy efficiency in new home construction and operation. The activities include efforts to increase the quality of homes built in compliance with Florida's building and energy codes and to encourage the construction of new homes with efficiency levels that exceed the levels associated with Florida's building and energy codes' minimum requirements.

The New Home Construction Research Project was originally designed to research potential conservation opportunities in three segments of the new home construction market: pre-construction, construction, and post-construction. Each market segment offers unique conservation opportunities as well as opportunities common

to other segments. FPL identifies the conservation opportunities available, investigates delivery systems for measures, quantifies the impact of various conservation measures, reviews customer responses to delivery systems, and assesses cost-effectiveness for those activities that hold promise.

The two year research project began in March 1993 and is scheduled to be completed by March 1995. Final reporting should be completed and submitted by April 15, 1995. It is anticipated that FPL will file for a research extension for the Build Smart pilot portion of this project for the balance of 1995 in order to be able to preserve continuity between the end of the research project and a potential program.

The research projects' post-construction market activities, which include energy monitoring, energy management system and real time pricing evaluation activities, have been suspended due to resource constraints placed on FPL by the DSM goals setting docket efforts. FPL will provide recommendations and, if appropriate, associated schedules for these activities by April 15, 1995.

The research project total expenses were estimated to be $5.9 million. Through September 1994 the research project actual expenses were $3,197,109. FPL plans to complete this project within estimated expenses.

C/I Dehumidification Research & Development Project

This is an on-going research project approved by the Florida Public Service Commission and scheduled to be completed by the fourth quarter of 1996. The research project is evaluating the demand and energy impacts of ASHRAE Standard 62-1989 which increases the outside air requirement by approximately four times above the existing ventilation requirements. The project includes both computer simulations and field demonstration projects. This project is currently being co-funded by the Department of Community Affairs.

3. PROPOSED RESEARCH AND DEVELOPMENT PROJECTS

units claim that the improvements in these units also eliminate or significantly reduce the concerns associated with customer acceptance.

The project is intended to evaluate the improved HPWH technology and equipment, its application and installation, and customer acceptance, ultimately determining the feasibility of HPWH as a future DSM program.

Through the research project, FPL intends to establish demand and energy savings that can reasonably be achieved with the improved technology, as well as establishing a reasonable field based cost per installation. In addition, FPL proposes to determine if the technology is more attractive and cost effective for specific customer segments. To do this, FPL proposes to install a number of residential and small commercial installations in FPL's service territory, not to exceed fifty (50) system-wide. The design and costs for these are described in more detail in Attachments I and II.

If the research project shows acceptable demand and energy savings, and a permanent program can be made cost effective, then a system-wide HPWH program may be developed and brought before the Commission for approval. If the results from the research project fail to meet any of FPL's criteria, including cost-effectiveness,

the HPWH research project will be discontinued, and no further ECCR money would be spent on the project.

Most of the customers who participate in the research project will be randomly selected and approached on an individual basis. FPL may seek a research facility to manage and perform the HPWH Project on a turnkey basis. Payments and all other identifiable costs associated with the project will be limited to the project cost amount shown on Attachment II. Costs will be reported to the Commission as part of FPL's ECCR filings. FPL may seek other funding for this project from sources such as Edison Electric Institute (EEI), U. S. Department of Energy (DOE), the Florida Energy Office (FEO), and other entities interested in electric energy conservation research. If successful, such funds would be used to lower ECCR costs and /or expand the scope of the research project.

III. Project Monitoring and Analysis

FPL will randomly select up to forty (40) residential customers as potential candidates for the research project. Up to ten (10) small commercial customers, with inherent characteristics identifying them as most likely to benefit from the application of the improved technology, will also be targeted. The total number of units to be installed will not exceed fifty (50) system-wide.

FPL anticipates the total monitoring phase of the project would be for a period of at least 29 to 32 months, outlined as follows:

Site Selection/Installation	4-6 months
Monitoring	24 months
Analysis	1-2 months

Project results will be reviewed during the monitoring phase of the project. The HPWH project is expected to be initiated in the third quarter of 1995, pending approval of this petition by the Commission in June 1995. Estimated cost of the research project is $456,660. (See Attachment II)

IV. Cost Effectiveness

Based on the outcome of the monitoring portion of the research project, the cost effectiveness of the potential HPWH program would be determined using the Commission approved cost-effectiveness methodology. If the proposed program can be shown to be cost-effective under the Participant and RIM tests, the research program results may be utilized for the development of a system-wide HPWH Program and presented to the Commission for approval.

ATTACHMENT I

RESIDENTIAL HEAT PUMP WATER HEATING RESEARCH PROJECT

Hypothesis

- Heat Pump Water Heating will provide individual customer savings as well as reduce FPL's system peak demand.

Purpose of the Research

- To verify demand savings, energy savings, equipment and installation costs, and industry system improvement claims for the technology, which will allow FPL to make a business decision for the development and implementation of a HPWH system program; and

- To determine customer segments for which the new technology may be more attractive and/or cost effective.

Objectives of the Study

- To compare kw and kwh reductions as well as the cost differential of the new HPWH technology system over a conventional electric resistance heater;

- To determine if the new technology HPWH unit addresses all reliability issues;

- To discover and overcome potential barriers that may be associated with the technology; and

- To make a qualitative assessment of customer acceptance as a base for a market research study to determine appropriate market segmentation and potential market penetrations.

Methodology

- Conduct the research and development process as described in Attachment II.

ATTACHMENT II

RESIDENTIAL HEAT PUMP WATER HEATING RESEARCH PROJECT
RESEARCH PROJECT DEVELOPMENT PROCESS

Stage I Establish Research Parameters and Concepts	**Projected Costs**
Objectives:	
Gather preliminary data; establish availability of alternate systems and potential modifications; avoid duplication of existing work and findings; and define more specific research objective and scope for project.	
1) Literature Search 2) Industry Search 3) Research Institute Work Search (EEI, FSEC, U of F, etc...)	$16,500
Stage II Technical Evaluation (Only Required If Available Equipment is Modified)	
Objectives:	
Identify Feasibility, Risk and Operating Factors	
1) Design of Experiment 2) Conduct Laboratory Tests 3) Technical Analysis	$37,500
Stage III Site Testing	
Objectives:	
Confirm/Reject Economic and Technical Assumptions	
1) Establish Site Plan (Estimate 50 Units) 2) Field Install Units for Project 3) Conduct Site Analysis and Data Gathering	$322,660
Stage IV Market Segment Research	
Objectives:	
Determine Cost-Effective Market Segments and Confirm Sales Potential	$80,000
TOTAL Projected HPWH R & D Project Costs	$456,660

DEMAND LOAD CONTROL TRIAL PROJECT

I. Trial Project Description

FPL currently offers load management to both residential customers (the "On Call" Program) and large commercial/industrial customers (Commercial/Industrial Load Control "CILC" Program). In addition to these existing programs, FPL is seeking approval of a load management program geared to the small commercial customer as a result of the General Service ("GS") Load Control Trial.

The proposed Demand Load Control ("DLC") Trial Project will be similar to the GS Load Control Trial Project completed in 1993. The DLC Trial Project will focus on the middle to large commercial/industrial customer with air conditioning equipment or processes that could be controlled by FPL to provide benefit to both the customer and FPL. No program similar to this project is presently offered to FPL's business customer in the demand billed rate classes, unless the customer has a minimum 200 kw of controllable load, in which case the customer can participate in the CILC Program.

FPL has examined a number of key issues concerning an air conditioning load control program for these customers, and the results have been encouraging thus far. The current load control transponders being used for the On Call Program can also be used for a relatively high percentage of demand billed customers. These

are customers whose electrical service characteristics (voltage, etc.) do not present a constraint to the use of these transponders. In addition, the air conditioning load shapes of these customers appear relatively promising in regard to potential system coincident peak demand reductions. Estimates of installation costs of load control equipment for these customers have also been made and do not appear to present a serious economic barrier. In addition, the market research to gauge potential customers' receptivity to load control will be conducted by the DLC Trial Project ("Trial Project").

The Trial Project will primarily apply to a maximum of 120 Dade and Broward County FPL customers that are demand billed with controllable air conditioning systems. For customers participating in the Trial Project (by controlling A/C equipment) and having other controllable equipment or processes that are mutually beneficial to FPL and the customer, FPL will offer the customer an incentive to allow FPL (or FPL may use a contractor) to install, monitor, control and maintain the load management equipment associated with the customer's controllable equipment or processes.

FPL proposes to implement the Trial Project during the third quarter of 1995 based on the Florida Public Service Commission providing approval of this program in June 1995.

Data is expected to be gathered over a period of no less than 12 months and then analyzed to better determine the feasibility of implementing a full program. The data will be used to refine current projections of demand and energy reduction potentials, the typical air conditioning tonnage of eligible customers, and load control equipment installation and operating costs. In addition, the DLC Trial Project will better enable FPL to gauge both customer response to an actual load control offering and customer reaction to periods in which load is controlled. For customers participating in the Trial Project with other controllable equipment or processes (as described by the previous paragraph), FPL will monitor the equipment in accordance with the terms of the "Demand Load Control Trial Project Customer Agreement" (see, Attachment I).

If the Trial Project results regarding market acceptance and demand reduction are encouraging and a full program still appears cost-effective, then a full scale, system-wide DLC Program may be developed and brought before the Commission for approval. If the results from the Trial Project fail to meet expectations, no further ECCR money will be spent on the concept other than to remove the load control and monitoring equipment and restore the premises (i.e., air conditioning and other equipment or processes involved in the DLC Trial Project) of customers participating in the trial project to original condition at no cost to them. FPL

anticipates that the Trial Project duration will be approximately 24 months as further developed in Section IV.

Customers who participate in the Trial Project will be selected based on three primary factors: whether the customer has the proper type of air conditioning equipment, whether their service characteristics (voltage, etc.) are compatible with existing load control equipment, and whether the customer receives service from a substation which has load control equipment in place. FPL will attempt to sign approximately half of the total participants with customers it believes to be good candidates for participation based on business characteristics. The remaining "slots" will be filled on a first-come, first-serve basis following a solicitation of customers served from one or more substations which have load control equipment in place.

An incentive payment of $2.00 per ton of air conditioning will be offered. For other equipment or processes that FPL considers beneficial to the Trial Project, FPL will offer the customer $1.00 per rated kw. The $1.00 per rated kw is an estimated amount based on a higher cost of installation. The incentive will allow FPL to gather profile data and make a better determination of the benefits and costs associated with the other equipment or processes. This information should allow FPL to refine the incentive level.

To avoid the expense of reprogramming computerized billing systems for the relatively small number of participants involved, incentive payments will be made separately by check rather than incorporated within each monthly bill. A full scale program would utilize billing credits or a rate similar to the On Call or Commercial/Industrial Load Control Programs, respectively.

Attachment I is a copy of a typical "Demand Load Control Trial Project Customer Agreement" which would detail the incentive payments and other applicable terms and conditions. Payments and all other identifiable costs associated with the Trial Project will be limited to the Trial Project's cost amount shown in Attachment II. All of the DLC Trial Project's expenses will be reported as part of FPL's ECCR filings and reports.

II. Trial Project Monitoring and Analysis

Demand and energy impacts will be determined through monitoring. One or more separate monitoring devices will be installed within participant premises along with the load control equipment. These monitoring devices will provide both energy, demand, and load shape data pertaining to participants' air conditioning, equipment and/or systems. The monitoring devices will be used to accurately determine both demand and energy reductions which result from load control.

III. Cost-Effectiveness Analysis

FPL has used the Commission approved cost-effectiveness methodologies required by Rule 25-17.008 to preliminarily assess the cost-effectiveness of this pilot project. These cost-effectiveness analyses can be found in Appendix A. These analyses show the following benefit-cost ratios: infinite Participants, 1.15 RIM, and 1.99 TRC for the Demand Load Control Trial Project.

IV. Projected Timetable for Demand Load Control Trial Project

Activity	Approximate Duration
• Selection & Recruitment of Participants plus Equipment Installation	4 months
• Data Gathering	12 months*
• Data Analysis & Decision to Proceed or Not Proceed w/Permanent Program	4 months
• Petition for Permanent DLC Program or Report to the Florida Public Service Commission ("FPSC") Staff.	4 months

*Note: FPL intends to initiate load control on air-conditioning equipment during the months of April through October. FPL will make payments to participating customers for each month (maximum of seven months or payments per year, for no less than 7 months for the project) the customer is eligible for control during the Trial Project. However, FPL plans to monitor the air conditioning load during the remaining 5 months (i.e., winter months) of each year.

This is to determine whether air conditioning for demand billed customers during the remaining 5 months represents a large enough coincident peak load to make extension of load control to those months worthwhile.

For customers having other equipment or processes involved in the Trial Project, FPL intends to initiate load control and make payments for load control during the Trial Project. The load control duration, the months when load control may occur and incentives paid will be based on the type of equipment or process and will be stipulated by the "Demand Load Control Trial Project Customer Agreement."

Attachment I

DEMAND LOAD CONTROL

TRIAL PROJECT CUSTOMER AGREEMENT ("Agreement")

ACCT. NO.:_____ PPID:_____

BUSINESS NAME: _____

ADDRESS:_____

CITY:_____ ZIP:_____

BUSINESS PHONE:_____

This Agreement entered into between Florida Power & Light Company ("FPL")and ("Customer"), located at _____

_____,

Florida _____.

The Customer operates the Facility located at

_____,

_____, Florida _____ ("Facility").

FPL and the above-named Customer agree as follows:

1. The Customer agrees to participate in the Demand Load Control Trial Project to be conducted by FPL and to abide by this Agreement and its terms and conditions as defined on the attached

document entitled "Demand Load Control Trial Project: Terms and Conditions" ("Terms and Conditions").

2. The total capacity of the air conditioning equipment to be interrupted is _____ tons. This represents all of the air conditioning equipment at the Facility that are provided electric service under this FPL account; provided, however, that a single air conditioning compressor that is solely dedicated to serve temperature-sensitive electronic equipment (e.g., computers) may be designated for firm service. The air conditioning compressor designated for firm service: ☐ Does not exist. ☐ Serves the _____ area of the Facility.

3. FPL may interrupt air conditioning equipment under the Terms and Conditions attached hereto. The interruptions would occur during seven (7) summer months, starting in April and ending in October, of the year for as long as the Customer participates in the project. The Customer will receive in exchange an incentive of $2.00 per ton of air conditioning connected to FPL's control equipment for each of these seven (7) months, which is a maximum total incentive of $_____ per year for the tonnage indicated above, and the incentive will be paid monthly in equal installments for each of the seven (7) summer months. During the remaining five (5) months of the year that FPL's equipment is on

site, FPL will not interrupt the air conditioning system and will only monitor its electrical consumption.

4. FPL may interrupt other equipment or processes described below, under the Terms and Conditions for a total of _____ (____) months starting on _____ and ending on the date specified by section 5. or any of its sub-paragraphs. The Customer will receive in exchange an incentive of $1.00 per rated kw (full load) for the months of _____ through _____ of each year, which is a total of $_____ per year based on _____ kw load. The other equipment or processes to be interrupted pursuant to this section 4. consist of:

_____

_____

(Description of other equipment or process and the manner in which the equipment will be controlled)

5. This Agreement shall continue in effect until _____, or until it is earlier terminated in accordance with one of the following provisions:

5.1 FPL or the Customer may terminate this Agreement at its convenience with or without cause by giving the other party fourteen (14) days advance written notice.

5.2 FPL or the Customer may terminate this Agreement under section 5.1 above with respect to equipment described in section 2. or 4. and keep the Agreement in force for the remaining equipment described by the Agreement.

6. This Agreement supersedes all previous agreements and representations, either written or oral, heretofore made between FPL and the Customer with respect to matters herein contained. Any modification(s) to this Agreement must be approved, in writing, by FPL and the Customer.

7. This Agreement may not be assigned by the Customer without the prior written consent of FPL. This Agreement shall inure to the benefit of, and be binding upon, the respective heirs, legal representatives, successors and assigns of the parties hereto.

In witness whereof, the parties do hereby execute this Agreement.

Customer

By _____

Title _____

If Corporation or Partnership or limited Liability Company

_____

_____

Individual

Date _____

FPL

By _____

Title _____

Date _____

Facility Owner's Consent and Agreement, if Owner is not the Customer.

Owner hereby consents to the placement of equipment in the Facility pursuant to the Agreement and agrees to the Agreement. In the event, Customer is owner's tenant, Owner shall cause any new tenant to be bound to this Agreement and all benefits and obligations of this Agreement shall inure to the new tenant.

_____
Owner

_____
Print Name

_____
Business or Home Address

_____
Telephone

_____
Date

DEMAND LOAD CONTROL TRIAL PROJECT: TERMS AND CONDITIONS

ELIGIBILITY FOR PARTICIPATION:

Available only within the geographic areas served by FPL's Load Management System, only to a maximum of 120 Customers with whom FPL is able to reach agreement for participation in this Demand Load Control ("DLC") Trial Project and only to Customers receiving service under a demand billed rate who have normal hours of operation that include 3 p.m. through 6 p.m. Monday through Friday.

To be eligible to participate the Customer agrees to respond meaningfully to surveys and/or questionnaires provided by or on behalf of FPL.

Customer locations that utilize centrifugal chiller equipment or window air conditioning to cool the area to be affected by load control shall not be eligible to participate.

The Customer shall allow FPL or FPL's contractor to install, access, operate and maintain load control and/or monitoring equipment at the Customer's Facility.

AIR CONDITIONING SIZE DETERMINATION:

A/C tonnage will be determined by FPL and rounded to the nearest non-fractional number through the application of each of the

following methods, where practical, in the order shown, until an appropriate tonnage number is obtained.

a) Calculation by FPL of tonnage as compressor nameplate BTU rating divided by 12,000.

b) Calculation by FPL of tonnage as Air Conditioning Refrigeration Institute (ARI) Handbook BTU rating divided by 12,000.

c) Calculation by FPL from Compressor Running Load Ampere measurement.

OTHER EQUIPMENT AND PROCESSES' SIZE DETERMINATION:

The "kw controlled" calculation for other equipment or processes will be estimated by FPL on a case-by-case basis. The estimate will be used to determine the incentive payment for the individual Facility, and FPL's determination shall be final.

The amount of kw controlled that is derived from monitoring the other equipment or processes will not be used to adjust the incentive during the Trial Project. The Trial Project will allow FPL to gather history in order to develop methods to better estimate similar equipment or processes.

INTERRUPTION SCHEDULE:

The Customer's air conditioning system(s) may be interrupted between the hours of noon and 9 p.m. during April through October, except under an FPL emergency condition such as a generation capacity emergency. This equipment may be interrupted an accumulated total of 15 minutes during any 30 minute period with a cumulative interruption time of up to 180 minutes per day.

FPL's interruption of other equipment or processes may be between the hours of noon and 9 p.m. during April through October; and between 6 a.m. and 10 a.m. and between 6 p.m. and 10 p.m. during November through March, except under an FPL emergency condition such as a generation capacity emergency. This equipment may be interrupted for a total of three (3) hours of interruption time per day.

The limitations on interruptions of electrical equipment shall not apply during emergencies on FPL's system or to interruptions caused by causes beyond the control of FPL.

SPECIAL PROVISIONS:

1. FPL shall not be required to install load management equipment if the installation cannot be economically justified for reason such as: excessive installation costs, oversized/undersized cooling equipment, poorly maintained equipment or abnormal utilization of equipment including limited occupancy locations.

2. Incentive for participation as it applies to the control of air conditioning equipment will be made monthly for each of the seven (7) summer months for which the Customer is eligible. The Facility will become eligible upon successful installation and inspection of the load control equipment.

3. Multiple air conditioning units must all be connected to the load management equipment, unless specifically exempted as described in the Agreement.

4. Installation of the load management equipment at the Customer's Facility at FPL's expense is to be the sole responsibility of an FPL selected licensed, independent contractor. The Customer agrees that FPL will not be liable for any damages or injuries that may occur as a result of the interruption or restoration of electric service pursuant to the terms of this agreement.

5. Customer agrees to protect, defend, indemnify and hold FPL, its affiliated companies, their officers, directors, employees, and agents (FPL Entities) free and unharmed from and against any liabilities, claims, demands, causes of action, or lawsuits whatsoever resulting from or in connection with this Agreement or FPL's performance, non-performance or delay in performance thereunder or in connection with FPL's work under this Agreement, whether or not such liabilities are due to or caused in whole or

part by the negligence of FPL Entities. In the event Customer is the State of Florida or agencies or subdivisions of the State of Florida, it is agreed this indemnification is subordinate to Section 768.28 of the Florida Statutes, and Customer waives immunity to liability only to the extent provided by the Statute. In the event Customer is the Federal Government or agencies or subdivisions of the Federal Government, it is agreed this indemnification is subordinate to any applicable Federal law which waives governmental immunity to liability, and Customer waives immunity to liability only to the extent provided by Federal Statute.

6. If FPL determines that the Customer no longer uses one or more of the air conditioning systems, other equipment or processes signed up for participation, FPL has the right to remove its load management equipment and to discontinue the incentive payments, and terminate the Agreement in whole or part.

7. The Customer shall give FPL and the licensed independent contractor reasonable access at reasonable times for installing, maintaining, testing, operating and removing FPL's load management equipment, and for verifying that the equipment effectively controls the Customer's air conditioning equipment, and other equipment or processes as intended.

8. If FPL determines in its discretion that the effect of equipment interruptions has been offset by the Customer's use of supplement or alternative electrical equipment, FPL may in its discretion terminate the Demand Load Control Trial Project Customer Agreement. FPL may rebill all prior load management incentive payments received by the Customer from the date upon which supplementary or alternative electrical equipment was used. If such a date cannot be determined, rebilling shall be for all load management incentive payments previously received by the customer.

9. If FPL determines in its discretion that its load management equipment on the Customer's premises has been rendered ineffective in whole or part by mechanical, electrical or other devices or actions such as tampering, FPL may terminate the Agreement and bill for all expenses involved in removal of the load management equipment, plus applicable investigative charges. FPL may rebill all prior load management incentive payments received by the Customer from the date its load management was rendered ineffective. If such a date cannot be established, rebilling shall be for all load management incentive payments previously received by the customer.

10. It shall be the responsibility of the Customer to determine that all electrical equipment to be interrupted is in good repair and working condition. FPL will not be responsible for the repair, maintenance or replacement of the Customer's electrical equipment.

11. Upon Completion of the DLC Trial Project or termination of the Agreement for any reason, FPL shall remove its equipment and restore the areas of the Customer's Facility that were affected by the installation of FPL's equipment to the original condition (at the time just prior to installation) at no cost to the Customer, normal wear and tear expected.

COOL COMMUNITIES RESEARCH PROJECT

I. Project Need and Objective

American Forests, with sponsorship formerly from the Environmental Protection Agency (EPA) and currently from the Department of Energy (DOE), has developed the Cool Communities Program to demonstrate the extent to which strategic tree planting and surface color lightening can cool ambient temperatures and impact energy consumption. Seven geographically diverse communities, including Dade County, Florida, have been selected as model communities for this effort. Dade County, Florida is the only model community in a sub-tropical region.

American Forests is responsible for designing guidelines for evaluating, and monitoring conditions in the model communities. At the local level, Cool Communities Local Advisory Committees have been established in each of the model communities. The Local Advisory Committees are charged with the responsibility of implementing these guidelines in their respective communities.

The Dade County Cool Communities Local Advisory Committee, which is chaired by the Metro-Dade Department of Environmental Resource Management, includes representatives from the Florida Division of Forestry, Metro-Dade Parks and Recreation, Dade County Public Schools, Florida International University: Environmental Studies and Architecture Departments, Florida Power & Light Company (FPL),

Latin Builders Association of South Florida, American Society of Landscape Architects, Fairchild Tropical Gardens, Interfaith Coalition for Andrew Recovery Effort and Trees For South Dade.

The Dade County Cool Communities Local Advisory Committee is responsible for selection of the nine (9) square block neighborhood sites to be monitored, development of landscaping plans, implementation of tree planting and lightening of surfaces, and community awareness/education activities.

Florida Power & Light Company (FPL) has agreed to attempt to integrate its own research agenda with that of Cool Communities. FPL has a need to perform research on various landscaping and surface lightening measures, and has been given the opportunity to evaluate and analyze measures such as these to be implemented as part of the Cool Communities effort in Dade County, Florida. This opportunity to work cooperatively will minimize FPL resources required to accomplish the necessary research. FPL will not be responsible financially or otherwise for implementation of the measures.

This study will provide information to FPL and American Forests on impacts and market potential of the strategic tree planting and surface color lightening measures which are to be implemented through the efforts of the Cool Communities Program in selected neighborhoods in Dade County, Florida.

FPL's research project will scientifically examine the energy and demand impact of Cool Communities in the context of Florida's conservation regulations, e.g. goals and approved methodologies, and in the context of FPL's accepted approach to demand-side management (DSM) evaluation. If the tree-planting and color-lightening are indeed effective and cost-effective DSM measures, FPL may incorporate such measures into its DSM Plan. If the measures are not cost-effective, then the ratepayers of FPL will not be burdened with uneconomical conservation costs. It is the objective of FPL to determine the true energy and demand impact of the Cool Communities Program, thereby enabling a fair and equitable decision on whether or not to financially support the program beyond the research stage.

II. Description

The research project consists of field instrumentation and measurement, engineering and statistical analysis, and economic evaluation. Research focused on southern Florida is the primary thrust. In addition to direct measurement and analysis, considerable evaluation of currently available data will be made. Billing and load research data, which have not been analyzed in precisely this manner in the past, will be analyzed. Secondary research on other Cool Communities sites may also be analyzed.

III. Collaboration with Agencies & Organizations

FPL will coordinate its research with the Dade County Cool Communities Local Advisory Committee and with American Forests. These entities have an interest in the outcome of the research and will be given an opportunity to provide technical input which may influence experimental design details.

IV. Field Work and Data Collection

FPL's Cool Communities Research Project will include specification and construction of automated meteorological recording stations to capture region-specific weather data. On-site surveys of tree coverage, building roof colors, and other data will be made. Aerial photographs of relevant geographic areas will be obtained and analyzed. Reconciliation between aerial photographs and street addresses or other identifiers will be made. Billing data from FPL records will be isolated for the various target areas and for the load research customers.

V. Cost Effectiveness

At the end of this project, FPL will assess the cost-effectiveness of the measures as well as their feasibility and persistence.

VI. Project Schedule and Cost

The total cost for the FPL's Cool Communities Research Project is projected to be $550,000. A breakdown of costs is shown on Attachment I. The cost will be recovered through the ECCR clause;

in addition, funding may be sought from such sources as EEI, DOE, or other utilities. Such additional funding, should it become available, will be used to offset the ECCR-recovered costs or to offset contingency costs which may arise due to the unknown nature of research.

Attachment I

DEVELOPMENT PROCESS FOR FPL'S COOL COMMUNITIES RESEARCH PROJECT

	Projected Cost
Section I -	
Research Plan Development, Review, and Modification	$ 45,000
1) Literature Search	
2) Research Scoping	
3) Research Plan Development	
4) Work Plan Updates	
Section II -	
Field Work and Data Collection	$348,000
1) Tree Stock Surveys	
2) Aerial Photo Analysis	
3) Weather Stations	
4) Data Collection	
5) Quality Control	
6) Site Maintenance	
Section III -	
Technical Evaluation	$ 90,000
1) Conditional Demand Modeling	
2) Billing Analysis of Wind Storm Area	
3) Billing Analysis - Surface Lightening Demonstration Area	
Section IV -	
Analysis and Reporting	$ 67,000
1) Energy/Demand Impact Analysis	
2) Environmental Impact Analysis	
3) Cost-Effectiveness Analysis	
4) Reporting	
Total Project R&D Cost	$550,000

RESIDENTIAL SOLAR WATER HEATING RESEARCH PROJECT

I. Project Technology

Solar energy technology has been available as an alternate energy source to electric energy for water heating applications for some time. However, solar water heating technology has not been readily accepted without subsidization by electric utilities. In a solar water heater, the sun's energy is collected and transferred to the water, which is then stored for subsequent use. On cloudy days, electric heat is normally available from supplemental heating elements which will raise the water temperature to that required by the consumer. Savings are based on the theory that the supplemental heating element and the operation of a circulating pump for the solar system will consume less energy over a given time period than a conventional water heater.

II. Project Description

The use of solar energy technologies in residential water heating applications for energy conservation is not new, but it has had its share of acceptability problems as a result of having relatively high initial costs and providing fewer savings than anticipated through estimates. The reduced savings have resulted in longer payback periods experienced by consumers, and smaller demand reductions per installation available for the utility than anticipated.

Based on Commission interest in solar water heating, the interest shown by the Florida Energy Office (FEO) in promoting solar technologies in the State of Florida, and recent industry and business articles referencing potential improvements and breakthroughs in the efficiency and cost performance of solar technologies, FPL is proposing to initiate a Residential Solar Water Heating (RSWH) research project to accomplish the following:

1. Identify solar water heating technology improvements which could potentially make this end use measure cost effective as measured by the Commission's Rate Impact Measure (RIM) and Participants tests; and

2. Identify market segments and/or customer demographics, if any, that have greater cost effectiveness potential for the application of solar water heating.

The RSWH research project is intended to evaluate solar water heating technology and equipment improvements, their application and installation, and their customer acceptance, and whether specific customer segments are more likely to benefit from the application of the technology. Through the research program, FPL intends to determine the appropriate demand and energy savings which can be expected from these installations, as well as establishing a reasonable field based cost per installation. To do this, FPL proposes a number of solar water heating installations on

single family, detached homes in FPL's service territory, using family size and kwh consumption as the means to segregate customers into groups to provide a total number of installations for the project, not to exceed 100 installations system-wide. The activities and costs for these efforts are described in more detail in Attachments I & II.

If the RSWH research project establishes acceptable peak demand and energy reductions, and a permanent program can be made cost effective, then a system-wide program could be developed and brought before the Commission for approval. If the results from the RSWH research project fail to meet any of FPL's criteria, including cost-effectiveness, the research project will be discontinued and no further ECCR money would be spent on the project.

Customers who participate in the research project will be pre-qualified and approached on an individual basis. FPL may seek a research facility to manage and perform the project on a turnkey basis. Payments and all other identifiable costs associated with the project will be limited to the project cost amount shown in Attachment II. Any deviation in costs will be reported to the Commission as part of FPL's ECCR filings.

Independent of this research project, FPL is working with the Florida Energy Office (FEO) to identify potential recipients in FPL's service territory that could receive financial support from

the State of Florida to install solar systems. FEO has roughly a 2.5 million dollar appropriation to finance solar installations, and FPL is working with the FEO to commit those funds to FPL's service territory. It is conceivable that the FEO funds could be used to expand the scope of the Solar Water Heating Research Project or to offset project costs if FEO funded sites for residential solar water heating sites are chosen and monitored. It is also possible the research project could be expanded to include monitoring of FEO installations; however, at present the negotiations with the FEO are distinct from FPL's proposed solar water heating project.

III. Project Monitoring and Analysis

FPL will randomly select up to 100 residential customer installations for monitoring and analysis. Alternately, FPL may seek help from the solar industry or the selected research facility in identifying potential participants from which FPL would pre-qualify and select up to the limit of installations.

FPL anticipates the total monitoring phase for the project would be for a period of at least 17 to 20 months, outlined as follows:

Site Selection/Installation	4-6 months
Monitoring	12 months
Analysis	1-2 months

Project results will be reviewed during the monitoring phase of the project. The RSWH research project is expected to be initiated in the third quarter of 1995, pending acceptance of this petition by the Commission in June 1995. The estimated cost of the research project is $789,200. (See Attachment II)

IV. Cost Effectiveness

Current analyses show residential solar water heating not to be cost-effective under any Commission-approved test. Based on the outcome of the monitoring portion of the research project, the cost effectiveness of the program would be determined using the Commission approved cost-effectiveness methodology. If residential solar water heating can be shown to be cost-effective under the Participants and RIM tests, the research results may be utilized for program development and presented to the Commission for approval.

ATTACHMENT I

RESIDENTIAL SOLAR WATER HEATING RESEARCH PROJECT

Hypothesis

- Residential Solar Water Heating will provide individual customer savings as well as reduce FPL's system peak demand.

Purpose of the Research

- To establish demand savings, energy savings, equipment and installation costs for the solar water heating technologies, which will allow FPL to make a business decision for the development and implementation of a RSWH program.

Objectives

Research Project

- Identify RSWH technology/application improvements to make this end use measure cost effective;
- Identify market segments and/or customer demographics, if any, with greater potential benefit from RSWH; and

Methodology

- Conduct the research and development process.

ATTACHMENT II

RESIDENTIAL SOLAR WATER HEATING RESEARCH PROJECT

RESEARCH PROJECT DEVELOPMENT PROCESS

Stage I	**Projected Costs**
Establish Research Parameters and Concepts	
Objectives:	
Gather preliminary data; establish availability of alternate systems and potential modifications; avoid duplication of existing work and findings; Define more specific research objective and scope for project.	$16,500
1) Literature Search 2) Industry Search 3) Research Institute Work Search (EEI, FSEC, U of F, etc.)	
Stage II Site Testing	
Objectives:	
Confirm/Reject Economic and Technical Assumptions	$692,700
1) Identify and Pre-Qualify Sites (Estimate 100 Installations) 2) Field Install Units for Project 3) Conduct Site Analysis and Data Gathering	
Stage III Market Segment Research	
Objectives:	
Determine Cost-Effective Market Segments and Confirm Sales Potential	$80,000
TOTAL Projected R & D Project Costs	$789,200

SECTION V - LOST REVENUES & INCENTIVES

This section is in response to the requirement of Order No. PSC-94-1486-PCO-EI for FPL to report on its analysis of whether to petition for lost revenue recovery or stockholder incentives for offering large savings/small rate impact programs that pass the TRC test but fail the RIM test. As FPL understands the order, the Commission is requesting this analysis for large savings/small rate impact programs that fail the RIM but pass the TRC tests within the following end-uses:

Renewable/Solar

Commercial/Industrial Lighting

High Efficient Cogenerators

Natural Gas

FPL is not requesting lost revenue recovery or incentives to offer any measures within these end uses. There are reasons specific to each of the end-use categories above, as well as general reasons, FPL is not seeking lost revenue recovery or incentives for offering measures or programs addressing these end uses.

Generally, FPL has serious reservations about lost revenue recovery or incentive mechanisms to facilitate the implementation of DSM. FPL rejects the underlying premise often advanced for these extraordinary mechanisms - that there is a regulatory disincentive in Florida for utilities to pursue DSM. In Florida there are a

number of regulatory mechanisms that encourage the pursuit of DSM by utilities: the ECCR clause, projected test periods, subsequent year adjustments, monthly surveilance, and Commission review, approval and monitoring of conservation plans. In fact, because of these existing mechanisms (and despite the absence of a lost revenue recovery or incentives mechanism), FPL has consistently earned a higher rate of return on its conservation investment than its plant investment. In addition to the regulatory incentive to perform DSM, FPL faces increasing competitive pressure which encourages FPL to offer and pursue DSM opportunities that have the effect of lowering the rates at which FPL offers its services. Thus, FPL believes that these extraordinary mechanisms are unnecessary. FPL also believes that these mechanisms are, at best, cumbersome with significant reporting and accounting requirements and, at worst, they do little to encourage DSM and they increase upward pressure on rates. FPL also believes that the mechanisms actually frustrate the development of more cost-effective DSM by frustrating customers with wide price variations and raising the cost of DSM so that fewer options are cost-effective. FPL's assessment of these mechanisms is based on the extensive dialogue regarding them before the Commission over the last several years as well as monitoring of similar mechanisms implemented elsewhere.

As to FPL's potential pursuit of lost revenue recovery or incentives for the offering of renewable programs, FPL is of the opinion that the only renewable resources currently available in

FPL's service territory are biomass and solar. FPL is currently purchasing power on a consistent basis from biomass projects. FPL has not identified any solar applications that pass the TRC, the Participants test or the RIM test. Even the solar water heating measures FPL has been offering as part of its water heating program fail the TRC and Participants test. In an attempt to find a viable solar alternative, FPL is proposing to conduct a solar water heating R&D effort. However, in the absence of any evidence that this effort will be cost effective, FPL cannot ask its customers to pay for associated lost revenues or for incentives for FPL to offer these measures.

There is no need for FPL to consider seeking lost revenue or incentives to offer Commercial/Industrial Lighting. FPL has offered and plans to continue an extensive program offering in this area. FPL's program is cost-effective to both participants and nonparticipants and has the effect of making FPL's rates lower than they otherwise would be without the program. Thus, FPL already has an incentive to offer this program. Moreover, FPL has not identified the measures in this end-use that fail RIM but pass TRC with high savings and low rate impact. FPL is proposing modifications to its existing program, which has been well received by its customers. FPL will continue to promote this program among its C/I customers.

High Thermal Efficient Self-Service Cogeneration was defined in FPL's TMPRR as:

> the simultaneous production of electricity and thermal energy from a single fuel source where the production of electricity and thermal energy will be used totally within the operations of the host facility. The cogeneration facility will also meet the basic thermal efficiency requirements of the Public Utility Regulatory Policy Act (PURPA), which requires at least 5% of the thermal output to be applied to a useful application. The facility must meet the requirements of a qualifying facility under the PURPA standards so that overall fuel source efficiency would be higher than simply direct conversion of a fuel into electric generation only.

In this context, High Thermal Efficient Self-Service Cogeneration is not a viable option for most customers. This definition excludes independent power producers who are selling their power output from a cogeneration facility to a utility, non-QFs that do not qualify or choose not to qualify under the PURPA standards, and small generation facilities that do not try to improve on overall fuel efficiency by providing a thermal output as well as an electric output.

As explained by FPL in its TMPRR filing and again in its CEGRR filing, cogeneration is a complex alternative. Most customers need assistance to evaluate the technical parameters of cogeneration and to translate those parameters into financial terms to make it a cost-effective option that satisfies their unique business and facility requirements. There are a number of key factors for screening cogeneration options. Two primary technical screening factors that should be evaluated with high thermal efficient self-service cogeneration are availability of low priced fuel and high thermal loads. These factors are very unique to each customer; thus, individual analysis is required.

FPL's assessment of this measure indicates individual cost-effectiveness analyses is required for each cogeneration project. Thus, the analysis of whether lost revenues and incentives should be sought for High Thermal Efficient Self-Service Cogeneration can only be conducted when the individual analysis is performed. If at that time a cogeneration option fails RIM, passes TRC and offers large savings and a small rate impact, FPL will consider whether to seek lost revenue recovery or incentives.

FPL's approach to Gas end-use R&D will be filed within six (6) months from the day Order No. PSC-94-1313-FOF-EG was issued. FPL will address at that time the lost revenues and incentive analysis requested. However, FPL's analysis to date has not identified any gas measure that fails RIM but passes TRC with a high savings and

small rate impact, so there does not appear to be a gas measure or program eligible for lost revenue recovery or incentives.

SECTION VI - LOW INCOME PARTICIPATION AND BENEFITS

In developing its DSM Plan, FPL assessed the availability to, and the saturation of its residential conservation programs to low income customers (which FPL defined as customers with less than $20,000 annual income). FPL found that significant numbers of low income customers are participating in most of its Residential conservation programs. The low income sector comprises about 14% of FPL's customer base, but low income customers comprise 20% of the participants in FPL's Residential conservation programs. FPL believes that some of its proposed program modifications, as well as additional efforts to promote programs, will further enhance those participation rates.

FPL also assessed the benefits available to low income customers from FPL's proposed DSM portfolio. FPL found that low income customers benefited from the lower rates achieved under a RIM-based plan, and that even if low income customers chose not to participate in DSM they would receive more benefits than the DSM costs they were asked to pay. If low income customers do participate in programs, their benefits increase, and they still receive more benefits than they pay in costs.

A. Participation in Programs

FPL's most recent survey data indicates that 20% of the participants in FPL's existing conservation programs are low income customers.

This data is taken from the 1993 Participant/ Nonparticipant Survey conducted for FPL by an independent contractor. FPL conducts this survey to assess program participation for each of FPL's Residential conservation programs. The breakdown of program participation by income category for each of FPL's Residential programs is shown in Table 11.

Table 11

Program Participation by Income Category

	HVAC	Ceiling Insulation	Window Treatment	Water Heating	Duct Repair	On-Call*
Less than $10,000	4%	7%	2%	2%	12%	9%
$10,001-$20,000	8%	14%	11%	3%	10%	17%
$20,001-$30,000	17%	29%	19%	14%	18%	19%
$30,001-$50,000	31%	28%	27%	38%	28%	31%
$50,001-$75,000	22%	15%	23%	29%	19%	14%
$75,001+	19%	8%	17%	14%	14%	10%
Sample Size	1,286	522	452	516	495	378

** On-Call based on 1993 2nd Half Customer Relationship Survey*

Applying percentages from this sample data to 1993 participants for each of FPL's programs shows that, overall, 20% of participants in conservation programs are low income customers. This is shown in Table 12.

Table 12

1993 Participants by Program

	Participants	% Low Income	# Low Income
HVAC	41,370	12%	4,964
Ceiling Insulation	21,433	21%	4,501
Window Treatment	20,614	13%	2,680
Water Heating	2,856	5%	143
Duct Repair	26,314	22%	5,789
On-Call	69,528	26%	18,077
Total	**182,115**	**20%**	**36,154**

Overall % of Program Participants that are Low Income - 20%

These tables show that FPL's efforts to promote DSM among its low income customers have been effective.

FPL works with housing authorities and social service agencies to facilitate the accessibility of energy conservation to low income customers. FPL has offered to participate in cluster meetings with local agencies in a statewide low income weatherization effort. The purpose of the meetings is to share information so local organizations can take full advantage of utility incentive programs. The intention is to foster a partnership between representatives of local agencies responsible for administration of low income programs and FPL. This should improve communication by educating both parties about the administrative processes followed by each, the programs available to each and potential synergy between FPL programs and state/local initiatives. FPL has

performed energy audits and provided incentive dollars directly to county agencies for qualifying conservation measures and has encouraged the agencies to seek qualification as participating contractors in FPL's conservation programs.

Brevard County Housing and Capital Programming Agency has already been qualified to install conservation measures and receive the appropriate FPL incentive payments directly. Qualification is also in process for Dade County. FPL will provide similar qualification of any housing agency which can more efficiently install energy conservation measures in low income homes. FPL plans to enhance customer participation even further through more coordination with community organizations. FPL has already been coordinating with other housing authorities in the cities of Hialeah, Arcadia, and Punta Gorda. Recently completed projects were 30 units in Crescent City and 48 units in Ulee.

Several of the program modifications proposed by FPL should have the effect of increasing low income participation. For instance, FPL's Residential Air Conditioning Program is being modified to include window/wall air conditioning units. The Duct System Testing and Repair program has been expanded to include multi-family dwellings. The Residential Building Envelope program has been expanded to include insulation to R-30. Coupled with FPL's increased efforts to work with low cost housing providers, FPL

believes these changes may well increase low income customer participation.

B. Low Income Customer Benefits

FPL has studied the level of benefits that its Residential DSM programs and its DSM plan will provide to low income customers. FPL began its study by quantifying average customer benefits for each Residential conservation program using benefits already quantified for participants and nonparticipants in the Participants and RIM tests, respectively. Using the costs from those same analyses, FPL also developed per customer costs for each Residential conservation program. The results of this analysis are shown on Table 13.

Table 13

Per Customer Benefits & Costs for FPL
Residential Conservation Programs
NPV $ 1994

	Participants		Nonparticipants	
	Benefits	**Costs**	**Benefits**	**Costs**
Residential Air Conditioning	$814	$542	$98	$90
Building Envelope	$586	$394	$52	$43
Water Heating	$711	$679	$3	$3
Duct Repair	$780	$415	$73	$60
On Call	$601	0	$106	$75
TOTAL	$3,492	$2,030	$333	$271

This analysis shows that regardless of whether a customer participates or does not participate in FPL's Residential conservation program, the customer derives benefits, and that the benefits derived exceed the customer's cost for that program.

The foregoing analysis is an "average customer" analysis. If a customer's usage varies from the average (as might be suggested for low income customers), the values for the average may not be representative. However, the conclusion should not change; regardless of the customer's usage level, a customer should always receive more benefits under FPL's Residential conservation programs than the customer will pay in costs.

FPL supplemented its analysis by assuming a worst case scenario for low income customers, that no low income customers participate in any FPL conservation programs, and analyzed the level of benefits and costs low income customers would receive. The results of this analysis show that even if low income customers did not participate in any of FPL's DSM programs those customers would receive $333 in benefits but only pay $271 in costs. Of course, as FPL's program survey data shows, low income customers not only receive the benefits associated with being a nonparticipant, but also a significant number receive the benefits associated with being participants.

Based on the foregoing analysis, FPL concludes:

1. For each of FPL's proposed Residential conservation programs a nonparticipating low income customer will receive more benefits than the low income customer will be asked to pay in costs.

2. In every one of FPL's proposed Residential conservation programs a participating customer will receive more benefits than the customer will be asked to pay.

3. Even if no low income customers participated in FPL's Residential conservation programs, low income customers would derive more benefits from FPL's DSM Plan than they would have to pay since FPL's programs are cost-effective under the RIM test.

SECTION VII - SUMMARY

The Commission established aggressive RIM based DSM goals for FPL. FPL's DSM Plan is designed to achieve these aggressive DSM goals. FPL's DSM Plan includes all currently identified Achievable Potential cost-effective under the Participants and RIM tests. It also envisions additional savings for the years 2001-2003 that will likely be achieved from additional cost-effective DSM potential to be found through FPL's research efforts. To realize those additional savings, FPL's DSM Plan includes extensive research and development activity that will build on prior efforts, examine specific technologies and allow FPL to research emerging technologies.

All existing FPL DSM programs will be continued in some fashion, while several new programs will be added. With only two exceptions, all of FPL's DSM programs have been redesigned. These program modifications build on prior experience or are dictated by cost-effectiveness. Many of the modifications should enhance customer participation.

FPL's research efforts will continue to be vigorous. FPL proposes to increase its activities under its CRD program, continue its four (4) current R&D projects and introduce four (4) additional R&D projects. FPL advances a Green Pricing concept to promote PV's, and it will perform supplemental research through the FCG. Outside

the Plan FPL anticipates a gas R&D project and will continue its C/I Real Time Pricing experiment.

FPL has considered and decided not to pursue at this time the recovery of lost revenues or special incentive mechanisms for programs within permissible categories. In general, FPL has serious reservations about these extraordinary mechanisms. In addition, there are reasons why such mechanisms are not needed to promote efforts within the specific eligible categories.

FPL has considered low income participation in its DSM programs and finds that low income customers are participating at a level higher than their proportion of FPL's customer base. This tells FPL that its programs are reaching low income customers. Low income customers are already receiving more benefits from FPL's programs than to the program costs they are being asked to pay. FPL will continue its efforts to enhance low income participation in its DSM programs, and FPL has proposed several program modifications which should have the effect of increasing low income participation.

FPL's DSM Plan is a well balanced, comprehensive plan that captures all presently known Achievable Potential that is cost-effective under the Participants and RIM tests and lays the groundwork for finding more potential. It should achieve all of FPL's conservation goals as approved by the Commission. In doing so it will capture significant amounts of DSM and help to keep customers' rates low.

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SECTION I - OVERVIEW

A. Cost Effectiveness Methodology used in DSM Goals Docket Proceedings

The process used by FPL to determine cost effectiveness of its DSM measures during the recent DSM Goals Docket Proceedings can be summarized as follows:

First, each measure was screened individually using the Commission's approved cost-effectiveness methodology (known within FPL as the CPF model).

Second, the measures that passed this screening[1] were entered into the Linear Programming Model (LP). The LP determined the most cost effective annual deployment of each measure in order to meet FPL's annual capacity needs.

Third, the output of the LP was then tested against the best supply options using the EGEAS model. The results of the EGEAS analysis verified that the entire DSM

[1] Depending upon whether FPL was analyzing a DSM RIM Portfolio or a DSM TRC Portfolio, passing the screening meant achieving benefit/cost ratios over 1.0 under either the RIM and Participants Tests (RIM Portfolio) or the TRC and Participants tests (TRC Portfolio).

programs.[3]

Step 2: The annual total kW for each measure was obtained for the years 1995 through 2000 from the output of the LP model for the DSM-RIM Portfolio that was run during the DSM Goals proceeding. The remaining RIM Achievable Potential for each measure was spread among the years 2001 through 2003. The annual participation for each program was obtained by adding the kW for all the different measures comprising each program.

Step 3: For Residential Programs, FPL used an average kW and kWh saving per participating customer to conduct its cost effectiveness analyses. However, for Commercial/Industrial programs FPL used 1 Summer kW as a participant. The Achievable Potential for C/I measures was developed using a wide variety of base units. For instance, motors were analyzed on a per motor basis, lighting was analyzed on a per fixture basis, and some air conditioning

[3] As previously noted, an additional program was added for HRU units based on a reassessment performed after the Goals proceeding. In addition, FPL has proposed two other audit programs for which no cost effectiveness analyses were performed.

(3) 2001-2003 sign-ups.[4] Each of these sign-up groups was then analyzed versus avoided unit capacity. The conservation to be achieved by the first group, 1995 and 1996 sign-ups, was used to avoid a combustion turbine with an in-service date of 1997. The conservation to be achieved by the second group, 1997-2000 sign-ups, was targeted against 2001 combined cycle unit capacity. The conservation to be achieved by the third group, 2001-2003 sign-ups, was targeted against a 2004 combined cycle unit.

Step 5: The cost effectiveness of each program was then determined by three CPF model runs, one run for each of the three sign-up groups, each run using the appropriate avoided unit capacity. All individual CPF runs show that FPL's programs pass both the RIM and Participant Tests.

Step 6: The costs and benefits of each of the three

[4] As prescribed by the Commission, the CPF model tests the cost effectiveness of a DSM measure against a single avoided unit. Since the DSM programs will be deployed over the 1995-2003 time frame, and are expected to avoid several units of different technologies and in-service dates, it was necessary to test cost effectiveness against more than unit. A separate CPF run was then required for each of the different avoided units tested.

measures were analyzed on a per ton basis. In addition, several of the C/I programs include multiple measures with widely divergent savings per installation. Given these disparate ways of computing potential and the divergent measures comprising some programs, FPL felt that developing an average per participating customer measure of savings for each program was not meaningful. What is meaningful is whether each C/I program achieves its summer demand savings target. Therefore, FPL chose to use 1 summer kW as a common measure for a participant for its C/I programs. Total participants for each year were the total summer demand savings divided by 1 kW. The per participant Winter kW and kWh savings were developed by computing the ratio of total Winter kW or energy savings of a program to the program's total Summer kW savings and applying that ratio to 1 kW.

Step 4: The annual sign-ups for each program were divided into three groups: (1) 1995 and 1996 sign-ups, (2) 1997 through 2000 sign-ups and,

sign-up groups for each program were then combined in a spreadsheet to compute the overall benefit to cost ratios for the program. These spreadsheets are included for each program.

The units selected as "avoided units" for the cost-effectiveness testing are a 1997 combustion turbine, a 2001 combined cycle and a 2004 combined cycle. These choices are based on the Resource Plans identified during the DSM Goals proceedings. Combustion turbine capacity is the first technology to appear in the FPL "Supply Only" Resource Plan in the DSM Goals proceedings, with a 1997 in-service date. Therefore, it is chosen to test program cost effectiveness for 1995 and 1996 sign-ups. The next capacity choice for FPL's DSM Goals "Supply Only" Resource Plan is combined cycle, with in-service dates of 1999 and 2001. Recognizing that any program cost-effective against a 2001 combine cycle unit would also be cost-effective against a 1999 combined cycle unit, combined cycle capacity with an in-service date of 2001 is chosen to test the cost effectiveness of the 1997 to 2000 Program sign-ups. FPL 's DSM Goals "Supply Only" Resource Plan also shows several units required in the 2001-2004 time frame. However, if the earlier capacity needs are met by DSM programs, as is the case with FPL's approved DSM goals, the economic choice for the next technology to be built would be combined cycle in the 2003/2004 time frame.

measures were analyzed on a per ton basis. In addition, several of the C/I programs include multiple measures with widely divergent savings per installation. Given these disparate ways of computing potential and the divergent measures comprising some programs, FPL felt that developing an average per participating customer measure of savings for each program was not meaningful. What is meaningful is whether each C/I program achieves its summer demand savings target. Therefore, FPL chose to use 1 summer kW as a common measure for a participant for its C/I programs. Total participants for each year were the total summer demand savings divided by 1 kW. The per participant Winter kW and kWh savings were developed by computing the ratio of total Winter kW or energy savings of a program to the program's total Summer kW savings and applying that ratio to 1 kW.

Step 4: The annual sign-ups for each program were divided into three groups: (1) 1995 and 1996 sign-ups, (2) 1997 through 2000 sign-ups and,

package was cost effective when competing against a "Supply Only" Plan.

B. Methodology Used to Test Program Cost-Effectiveness for this Docket.

For this docket FPL combined the measures that had been shown to be cost effective during the DSM Goals Docket proceedings into programs[2]. Since these measures had already proven to be cost effective individually, and also when combined into one DSM package, FPL expected that the programs would be cost- effective.

As required by the Commission, program cost effectiveness has been verified using the Commission's approved cost effectiveness methodology. A more detailed description of the process used is shown below:

Step 1: The measures that passed FPL's cost effectiveness tests in the Conservation Goals proceedings have been combined into 5 residential and 8 commercial/industrial

[2] FPL also added a measure as a stand alone program which updated showed to be cost effective: water heating heat recovery units (HRU).

SECTION I - OVERVIEW

A. Cost Effectiveness Methodology used in DSM Goals Docket Proceedings

The process used by FPL to determine cost effectiveness of its DSM measures during the recent DSM Goals Docket Proceedings can be summarized as follows:

First, each measure was screened individually using the Commission's approved cost-effectiveness methodology (known within FPL as the CPF model).

Second, the measures that passed this screening[1] were entered into the Linear Programming Model (LP). The LP determined the most cost effective annual deployment of each measure in order to meet FPL's annual capacity needs.

Third, the output of the LP was then tested against the best supply options using the EGEAS model. The results of the EGEAS analysis verified that the entire DSM

[1] Depending upon whether FPL was analyzing a DSM RIM Portfolio or a DSM TRC Portfolio, passing the screening meant achieving benefit/cost ratios over 1.0 under either the RIM and Participants Tests (RIM Portfolio) or the TRC and Participants tests (TRC Portfolio).

Combined cycle capacity with an in-service date of 2004 is, therefore, chosen to analyze cost effectiveness for the 2001-2003 sign-ups.

The avoided capacity assumptions used for the 1997 combustion turbine are the same as those used for the CPF cost-effectiveness analysis in the DSM Goals proceeding. The avoided capacity assumptions for the combined cycle units are consistent with the assumptions usd in DSM Goals proceeding for the EGEAS analysis. The same fuel forecast is used for all analyses in this proceeding and the DSM Goals proceeding.

The utility DSM program costs, customer equipment costs and customer O&M costs are escalated using the Consumer's Price Index (CPI). Utility supply O&M costs are also escalated using CPI. Utility supply capital costs are escalated using the Producer Price Index - Capital Goods. These escalation rates are the same as those used for the DSM Goals proceeding.

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ATTACHMENT F

SUMMARY OF DEMAND-SIDE MANAGEMENT PROGRAMS INCLUDED IN PROPOSED PLAN PERIOD 1994-2003

NPV END 1994 ($000)

	DSM PROGRAM	RATE IMPACT MEASURE			PARTICIPANT TEST			TOTAL RESOURCE COST			PROGRAM STATUS *
		NPV TOTAL COSTS	NPV TOTAL BENEFITS	B/C RATIO	NPV TOTAL COSTS	NPV TOTAL BENEFITS	B/C RATIO	NPV TOTAL COSTS	NPV TOTAL BENEFITS	B/C RATIO	
RESIDENTIAL	AIR CONDITIONING	$348,044	$378,978	1.09	$321,965	$482,973	1.50	$356,694	$378,978	1.06	MODIFIED
	BUILDING ENVELOPE	$165,976	$199,585	1.20	$157,453	$234,096	1.49	$171,326	$199,585	1.16	MODIFIED
	LOAD MANAGEMENT (ON CALL)	$291,062	$414,897	1.43	$0	$174,368	INFINITE	$122,217	$414,897	3.39	EXISTING
	DUCT SYSTEM TESTING & REPAIR	$232,361	$282,973	1.22	$143,086	$268,611	1.88	$187,182	$282,973	1.51	MODIFIED
	HEAT RECOVERY WATER HEATING	$12,490	$12,918	1.03	$16,560	$17,340	1.05	$17,552	$12,918	0.74	MODIFIED
	CONSERVATION SERVICES	NA	NA	NA	NA	NA	NA	NA	NA	NA	EXISTING
COMMERCIAL	HVAC	$260,231	$294,499	1.13	$130,525	$317,380	2.43	$149,734	$294,499	1.97	MODIFIED
	BUILDING ENVELOPE	$102,742	$134,609	1.31	$94,698	$123,870	1.31	$98,439	$134,609		NEW
	EFFICIENT LIGHTING	$207,337	$223,104	1.08	$90,882	$253,134	2.79	$109,256	$223,104	2.04	MODIFIED
	MOTORS	$10,341	$11,724	1.13	$4,237	$11,936	2.82	$5,514	$11,724	2.13	MODIFIED
	OFF PEAK BATTERY	$4,038	$7,158	1.77	$1,567	$4,831	3.08	$1,958	$7,158	3.66	MODIFIED
	BUSINESS CUSTOM INCENTIVE (REFR.)	$5,943	$6,458	1.09	$4,722	$7,974	1.69	$4,751	$6,458	1.36	MODIFIED
	C/I LOAD CONTROL	$96,709	$132,000	1.36	$579	$94,608	163.40	$3,398	$132,000	38.85	MODIFIED
	GS LOAD CONTROL	$17,859	$32,205	1.80	$0	$9,894	INFINITE	$8,158	$32,205	3.95	NEW
	BUSINESS ENERGY EVALUATION (BEE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	MODIFIED

* NEW, EXISTING, MODIFIED, OR DISCONTINUED
(COMPARED TO EXISTING COMMISSION-APPROVED DSM PROGRAMS)

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INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BERS95X - Bldg. Envelope Residential

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.18 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.25 kW
(3) kW LINE LOSS PERCENTAGE	10.58 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	504.4 kWh
(5) kWh LINE LOSS PERCENTAGE	7.82 %
(6) GROUP LINE LOSS MULTIPLIER	1.0000
(7) CUSTOMER kWh INCREASE AT METER	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23 YEARS
(2) GENERATOR ECONOMIC LIFE	30 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.84857
(5) K FACTOR FOR T & D	1.86897

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	9.22 %
* (11) UTILITY AFUDC RATE	10.92 %
* (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	1994
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998
(4) BASE YEAR AVOIDED GENERATING COST	382 $/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100 $/kW
(6) BASE YEAR DISTRIBUTION COST	50 $/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60 %**
(8) GENERATOR FIXED O & M COST	24 $/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40 %**
(10) TRANSMISSION FIXED O & M COST	3.20 $/kW
(11) DISTRIBUTION FIXED O & M COST	14.53 $/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40 %**
(15) GENERATOR CAPACITY FACTOR	6% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72 CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	8.34 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

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

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* 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 12

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BERS65X - Bldg. Envelope Residential

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	1,144	2,995	0	4,139	775	0	13,095	0	0	13,095
1996	1,328	3,361	0	4,687	2,480	0	15,133	0	0	15,133
1997	0	0	0	0	3,403	0	0	0	0	0
1998	0	0	0	0	3,457	0	0	0	0	0
1999	0	0	0	0	3,523	0	0	0	0	0
2000	0	0	0	0	3,607	0	0	0	0	0
2001	0	0	0	0	3,731	0	0	0	0	0
2002	0	0	0	0	3,855	0	0	0	0	0
2003	0	0	0	0	4,029	0	0	0	0	0
2004	0	0	0	0	4,134	0	0	0	0	0
2005	844	786	0	1,630	4,258	0	9,402	0	0	9,402
2006	804	884	0	1,679	4,399	0	11,074	0	0	11,074
2007	0	0	0	0	4,587	0	0	0	0	0
2008	0	0	0	0	4,742	0	0	0	0	0
2009	0	0	0	0	4,924	0	0	0	0	0
2010	0	0	0	0	5,083	0	0	0	0	0
2011	0	0	0	0	5,282	0	0	0	0	0
2012	0	0	0	0	5,504	0	0	0	0	0
2013	0	0	0	0	5,799	0	0	0	0	0
2014	0	0	0	0	6,067	0	0	0	0	0
2015	2,749	2,929	0	5,679	6,217	0	31,235	0	0	31,235
2016	3,254	3,296	0	6,550	6,521	0	36,998	0	0	36,998
NOM	10,312	14,251	0	24,563	96,376	0	116,875	0	0	116,875
NPV	3,722	7,096	0	10,818	34,534	0	42,258	0	0	42,258

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: BERS95X - Bldg. Envelope Residential

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	10,908	480	83	628	437	175	362	28	2,191	2,191	2,191
1998	10,449	460	79	602	275	175	362	169	2,122	1,942	4,133
1999	9,930	437	75	572	276	175	362	147	2,044	1,713	5,846
2000	9,432	415	72	543	277	175	362	126	1,968	1,511	7,357
2001	8,954	394	68	516	278	175	362	107	1,887	1,333	8,690
2002	8,494	374	65	489	275	175	362	89	1,829	1,176	9,866
2003	8,052	354	61	464	273	175	362	73	1,762	1,038	10,904
2004	7,625	335	58	439	271	175	362	58	1,698	915	11,819
2005	7,207	317	55	415	267	175	362	55	1,635	807	12,626
2006	6,780	299	52	391	239	175	362	55	1,572	711	13,337
2007	6,376	280	48	367	222	175	362	55	1,510	625	13,962
2008	5,957	262	45	343	205	175	362	55	1,447	548	14,510
2009	5,540	244	42	319	188	175	362	55	1,385	480	14,991
2010	5,124	225	39	295	171	175	362	55	1,322	420	15,411
2011	4,707	207	36	271	154	175	362	55	1,259	368	15,777
2012	4,290	188	33	247	137	175	362	55	1,197	319	16,096
2013	3,874	170	29	223	120	175	362	55	1,134	277	16,372
2014	3,457	152	26	199	103	175	362	55	1,072	239	16,611
2015	3,040	134	23	175	86	175	362	55	1,009	206	16,816
2016	2,624	115	20	151	69	175	362	55	947	177	16,995
2017	2,253	99	17	130	145	175	362	(38)	891	153	17,147
2018	1,974	87	15	114	227	175	362	(129)	849	133	17,280
2019	1,742	77	13	100	217	175	362	(129)	814	117	17,397
2020	1,510	66	11	87	208	175	362	(129)	779	102	17,500
2021	1,277	56	10	74	199	175	362	(129)	744	90	17,589
2022	1,045	46	8	60	189	175	362	(129)	710	78	17,666
2023	813	36	6	47	179	175	362	(129)	675	68	17,734
2024	581	26	4	33	170	175	362	(129)	640	59	17,793
2025	348	15	3	20	160	175	362	(120)	605	51	17,844
2026	116	5	1	7	151	175	362	(129)	570	44	17,890

IN SERVICE COST ($000)	10,845
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	
DEBT	44%	10.00	%
P/S	3%	9.50	%
C/S	48%	12.00	%

K-FACTOR = CPWFC / IN-SVC COST = 1.64957

0014

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:BERS95X - Bldg. Envelope Residential

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) ACCUMULATED TAX DEPRECIATION $(000)	(5) BOOK DEPRECIATION $(000)	(6) ACCUMULATED BOOK DEPRECIATION $(000)	(7) BOOK DEPRECIATION FOR DEFERRED TAX $(000)	(8) ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	(9) DEFERRED TAX DUE TO DEPRECIATION $(000)	(10) TOTAL EQUITY AFUDC $(000)	(11) BOOK DEPR RATE MINUS 1/LIFE	(12) (10)*(11) *TAX RATE $(000)	(13) SALVAGE *TAX RATE $(000)	(14) ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)
1997	3.75%	402	402	362	362	335	335	26	792	0	0	0	26
1998	7.22%	774	1,176	362	723	335	670	169	792	0	0	0	169
1999	6.68%	716	1,892	362	1,085	335	1,005	147	792	0	0	0	147
2000	6.18%	662	2,554	362	1,446	335	1,340	129	792	0	0	0	129
2001	5.71%	612	3,166	362	1,808	335	1,676	107	792	0	0	0	107
2002	5.29%	566	3,732	362	2,169	335	2,011	89	792	0	0	0	89
2003	4.89%	524	4,256	362	2,531	335	2,346	73	792	0	0	0	73
2004	4.52%	484	4,741	362	2,892	335	2,681	58	792	0	0	0	58
2005	4.46%	478	5,219	362	3,254	335	3,016	55	792	0	0	0	55
2006	4.46%	478	5,697	362	3,615	335	3,351	55	792	0	0	0	55
2007	4.46%	478	6,175	362	3,977	335	3,686	55	792	0	0	0	55
2008	4.46%	478	6,653	362	4,338	335	4,021	55	792	0	0	0	55
2009	4.46%	478	7,131	362	4,700	335	4,356	55	792	0	0	0	55
2010	4.46%	478	7,609	362	5,061	335	4,691	55	792	0	0	0	55
2011	4.46%	478	8,087	362	5,423	335	5,027	55	792	0	0	0	55
2012	4.46%	478	8,565	362	5,784	335	5,362	55	792	0	0	0	55
2013	4.46%	478	9,043	362	6,146	335	5,697	55	792	0	0	0	55
2014	4.46%	478	9,521	362	6,507	335	6,032	55	792	0	0	0	55
2015	4.46%	478	10,000	362	6,869	335	6,367	55	792	0	0	0	55
2016	4.46%	478	10,478	362	7,230	335	6,702	55	792	0	0	0	55
2017	2.25%	241	10,719	362	7,592	335	7,037	55	792	0	0	0	55
2018	0.00%	0	10,719	362	7,953	335	7,372	(30)	792	0	0	0	(30)
2019	0.00%	0	10,719	362	8,315	335	7,707	(129)	792	0	0	0	(129)
2020	0.00%	0	10,719	362	8,676	335	8,042	(129)	792	0	0	0	(129)
2021	0.00%	0	10,719	362	9,038	335	8,378	(129)	792	0	0	0	(129)
2022	0.00%	0	10,719	362	9,399	335	8,713	(129)	792	0	0	0	(129)
2023	0.00%	0	10,719	362	9,761	335	9,048	(129)	792	0	0	0	(129)
2024	0.00%	0	10,719	362	10,122	335	9,383	(129)	792	0	0	0	(129)
2025	0.00%	0	10,719	362	10,484	335	9,718	(129)	792	0	0	0	(129)
2026	0.00%	0	10,719	362	10,845	335	10,053	(129)	792	0	0	0	(129)

SALVAGE / REMOVAL COST	
	0.00
YEAR SALVAGE / COST OF REMOVAL	
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	2029
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	(257)
BOOK DEPR RATE - 1/USEFUL LIFE	792
	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:BERS65X - Bldg. Envelope Residential

(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)
1997	3.75%	402	28	10,484	362	(231)	11,102	10,715	10,909
1998	7.22%	774	169	10,122	723	(62)	10,715	10,184	10,449
1999	6.68%	716	147	9,781	1,085	85	10,184	9,876	9,930
2000	6.18%	662	126	9,399	1,446	211	9,876	9,188	9,432
2001	5.71%	612	107	9,038	1,808	318	9,188	8,719	8,954
2002	5.28%	566	89	8,678	2,169	407	8,719	8,289	8,504
2003	4.89%	524	73	8,315	2,531	480	8,289	7,834	8,062
2004	4.52%	484	58	7,953	2,892	538	7,834	7,415	7,625
2005	4.46%	478	55	7,592	3,254	593	7,415	6,999	7,207
2006	4.46%	478	55	7,230	3,615	648	6,999	6,582	6,790
2007	4.46%	478	55	6,869	3,977	703	6,582	6,165	6,374
2008	4.46%	478	55	6,507	4,338	758	6,165	5,749	5,957
2009	4.46%	478	55	6,146	4,700	814	5,749	5,332	5,540
2010	4.46%	478	55	5,784	5,061	869	5,332	4,915	5,124
2011	4.46%	478	55	5,423	5,423	924	4,915	4,499	4,707
2012	4.46%	478	55	5,061	5,784	979	4,499	4,082	4,290
2013	4.46%	478	55	4,700	6,146	1,034	4,082	3,665	3,874
2014	4.46%	478	55	4,338	6,507	1,089	3,665	3,249	3,457
2015	4.46%	478	55	3,977	6,869	1,144	3,249	2,832	3,040
2016	4.46%	478	55	3,615	7,230	1,200	2,832	2,415	2,624
2017	2.25%	241	(36)	3,254	7,592	1,163	2,415	2,090	2,253
2018	0.00%	0	(129)	2,892	7,953	1,034	2,090	1,858	1,974
2019	0.00%	0	(129)	2,531	8,315	905	1,858	1,629	1,742
2020	0.00%	0	(129)	2,169	8,678	776	1,629	1,393	1,510
2021	0.00%	0	(129)	1,808	9,038	646	1,393	1,161	1,277
2022	0.00%	0	(129)	1,446	9,399	517	1,161	929	1,045
2023	0.00%	0	(129)	1,085	9,761	388	929	697	813
2024	0.00%	0	(129)	723	10,122	258	697	464	581
2025	0.00%	0	(129)	362	10,484	129	464	232	348
2026	0.00%	0	(129)	0	10,845	0	232	0	116

* Column not specified in workbook

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PSC FORM CE 1.1B
PAGE 1 OF 1

(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)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.60%	1.026	44.55%	179.18	144.12
1996	-1	2.63%	1.053	41.54%	171.47	319.45
				100.00%	405.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) INCREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-3	27.27	1.20	1.20	2.98	2.98	2.73	2.73	(0.59)	(0.59)	57.51	57.51
1995	-2	147.10	6.50	7.70	18.13	18.11	14.68	17.41	(3.16)	(3.75)	195.31	252.82
1996	-1	338.55	15.06	22.76	37.38	56.48	33.69	51.10	(7.18)	(10.93)	208.85	461.67
				22.76	31.66	56.48		51.10		(10.93)		461.67

IN SERVICE YEA	1997
PLANT COSTS	392
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	9,518	9,518	9,518
EQUITY AFUDC	792		
DEBT AFUDC	535	535	
CPI			1,200
TOTAL	10,845	10,053	10,718

* Column not specified in workbook

0017

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BERS95X - Bldg. Envelope Residential

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	2,191	617	0.033	10	11	2,808
1998	2,122	643	0.037	11	12	2,784
1999	2,044	672	0.200	62	118	2,881
2000	1,969	703	0.014	5	8	2,686
2001	1,897	737	0.024	8	14	2,628
2002	1,828	771	0.025	9	15	2,593
2003	1,762	806	0.046	17	27	2,558
2004	1,698	842	0.079	29	45	2,523
2005	1,635	880	0.047	18	26	2,507
2006	1,572	921	0.041	16	22	2,486
2007	1,510	964	0.075	29	38	2,485
2008	1,447	1,012	0.074	30	37	2,451
2009	1,385	1,062	0.043	17	22	2,442
2010	1,322	1,116	0.177	72	88	2,425
2011	1,259	1,174	0.153	63	75	2,422
2012	1,197	1,237	0.201	83	104	2,413
2013	1,134	1,302	0.255	106	129	2,414
2014	1,072	1,371	0.257	107	130	2,420
2015	1,009	1,442	0.253	106	128	2,432
2016	947	1,517	0.309	129	154	2,439
NOM	30,898	16,792	2.342	926	1,189	50,519
NPV	13,943	6,809	0.850	243	337	19,469

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BERS95X - Bldg. Envelope Residential

PSC FORM CE 2.2
PAGE 1 OF 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 FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	229	37	266	102	153	255	369	0
1996	465	80	545	217	336	552	1,257	0
1997	471	84	554	210	348	559	1,880	0
1998	454	87	541	203	363	566	2,304	0
1999	438	91	529	198	379	575	2,362	0
2000	423	95	519	189	387	588	2,312	0
2001	409	100	509	183	416	599	2,531	0
2002	396	104	500	177	435	612	2,667	0
2003	382	109	491	171	456	626	2,973	0
2004	369	114	483	165	475	640	3,234	0
2005	357	119	476	159	499	658	3,392	0
2006	344	125	469	154	520	673	3,610	0
2007	331	130	461	148	544	692	3,892	0
2008	318	137	455	142	571	713	4,176	0
2009	306	144	449	136	599	736	4,216	0
2010	292	151	443	131	630	761	4,656	0
2011	280	159	439	125	663	788	4,813	0
2012	267	167	434	119	698	817	5,016	0
2013	254	176	430	114	735	848	5,379	0
2014	241	185	427	108	774	882	5,711	0
2015	229	195	423	102	814	916	5,958	0
2016	217	205	422	97	856	953	6,329	0
NOM.	7,469	2,794	10,263	3,348	11,657	15,005	78,879	0
NPV	3,446	981	4,427	1,541	4,094	5,635	25,723	0

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

0020 —

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME BERS95X - Bldg. Envelope Residential

PSC FORM CE 2.4
PAGE 1 OF 1

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	1,271	0	2,995	0	4,266	13,065	0	0	13,065	(8,800)	(8,057)
1996	4,085	0	3,361	0	7,429	15,133	0	0	15,133	(7,708)	(14,517)
1997	5,579	0	0	0	5,579	0	0	0	0	5,579	(10,235)
1998	5,868	0	0	0	5,868	0	0	0	0	5,868	(8,252)
1999	5,776	0	0	0	5,770	0	0	0	0	5,776	(2,537)
2000	5,914	0	0	0	5,914	0	0	0	0	5,914	948
2001	6,116	0	0	0	6,116	0	0	0	0	6,116	4,245
2002	6,310	0	0	0	6,310	0	0	0	0	6,310	7,365
2003	6,605	0	0	0	6,605	0	0	0	0	6,605	10,351
2004	6,777	0	0	0	6,777	0	0	0	0	6,777	13,156
2005	6,983	0	786	0	7,769	9,402	0	0	9,402	(1,633)	12,537
2006	7,212	0	894	0	8,087	11,074	0	0	11,074	(2,977)	11,504
2007	7,538	0	0	0	7,538	0	0	0	0	7,538	13,888
2008	7,773	0	0	0	7,773	0	0	0	0	7,773	16,158
2009	8,072	0	0	0	8,072	0	0	0	0	8,072	18,308
2010	8,299	0	0	0	8,299	0	0	0	0	8,299	20,331
2011	8,578	0	0	0	8,578	0	0	0	0	8,578	22,267
2012	9,023	0	0	0	9,023	0	0	0	0	9,023	24,111
2013	9,501	0	0	0	9,501	0	0	0	0	9,501	25,868
2014	9,945	0	0	0	9,945	0	0	0	0	9,945	27,592
2015	10,182	0	2,929	0	13,122	31,235	0	0	31,235	(18,113)	24,751
2016	10,890	0	3,296	0	13,986	36,966	0	0	36,966	(22,981)	21,452
NOM	157,993	0	14,251	0	172,244	116,875	0	0	116,875	55,370	
NPV	56,813	0	7,096	0	63,710	42,258	0	0	42,258	21,452	

In Service of Gen Unit: 1997

Discount Rate : 9.22

Benefit/Cost Ratio (Col(6) / Col(10)) 1.51

22(0) —

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME BERS95X - Bldg. Envelope Residential

PSC FORM CE 2.5
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	2,995	775	0	4,914	369	520	0	0	909	(4,004)	(3,666)
1996	0	1,144	3,381	2,480	0	7,167	1,257	1,117	0	0	2,375	(4,792)	(7,882)
1997	0	1,328	0	3,403	0	3,403	4,887	1,113	0	0	5,810	2,408	(5,836)
1998	0	0	0	3,457	0	3,457	4,798	1,107	0	0	5,875	2,417	(4,138)
1999	0	0	0	3,523	0	3,523	5,013	1,105	0	0	6,118	2,595	(2,466)
2000	0	0	0	3,607	0	3,607	4,980	1,105	0	0	6,085	2,478	(1,009)
2001	0	0	0	3,731	0	3,731	5,159	1,108	0	0	6,268	2,536	359
2002	0	0	0	3,855	0	3,855	5,280	1,111	0	0	6,391	2,536	1,611
2003	0	0	0	4,029	0	4,029	5,631	1,117	0	0	6,748	2,719	2,795
2004	0	0	0	4,134	0	4,029	5,757	1,123	0	0	6,880	2,748	3,932
2005	0	0	0	4,259	0	4,134	5,898	1,131	0	0	7,030	1,140	4,984
2006	0	844	786	4,389	0	5,960	6,099	1,142	0	0	7,239	861	4,697
2007	0	894	864	4,587	0	6,278	6,457	1,153	0	0	7,610	3,014	5,854
2008	0	0	0	4,742	0	4,587	6,627	1,168	0	0	7,795	3,053	6,542
2009	0	0	0	4,924	0	4,742	6,858	1,185	0	0	7,843	2,919	7,320
2010	0	0	0	5,083	0	4,924	7,081	1,204	0	0	8,285	3,223	8,105
2011	0	0	0	5,292	0	5,083	7,235	1,226	0	0	8,461	3,169	8,812
2012	0	0	0	5,504	0	5,292	7,429	1,251	0	0	8,680	3,179	9,481
2013	0	0	0	5,796	0	5,504	7,783	1,279	0	0	9,071	3,275	10,074
2014	0	0	0	6,067	0	5,796	8,132	1,308	0	0	9,440	3,373	10,652
2015	0	0	0	6,217	0	6,067	8,391	1,339	0	0	9,731	(2,166)	10,312
2016	0	2,769	2,929	6,521	0	11,899	8,768	1,375	0	0	10,144	(2,817)	9,802
	0	3,254	3,268		0	13,071							

NOM.	0	10,312	14,251	98,376	0	120,939	129,398	25,288	0	0	154,687	33,748
NPV	0	3,722	7,096	34,534	0	45,352	45,182	10,062	0	0	55,244	9,892

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.22

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME BERS01R - Bldg Envelope Residential

01/26/95

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	48,944	2,154	372	2,819	1,969	781	1,616	121	9,832	9,832	9,832
2002	46,867	2,063	356	2,701	1,245	781	1,616	761	9,523	8,719	18,550
2003	44,560	1,961	339	2,567	1,248	781	1,616	862	9,173	7,690	26,240
2004	42,328	1,862	322	2,438	1,250	781	1,616	589	8,838	6,783	33,023
2005	40,186	1,768	305	2,315	1,248	781	1,616	483	8,517	5,984	39,008
2006	38,127	1,678	290	2,196	1,244	781	1,616	403	8,208	5,290	44,298
2007	36,143	1,590	275	2,082	1,235	781	1,616	331	7,910	4,659	48,947
2008	34,230	1,506	260	1,972	1,225	781	1,616	263	7,622	4,111	53,057
2009	32,358	1,424	246	1,864	1,159	781	1,616	252	7,341	3,625	56,682
2010	30,488	1,341	232	1,756	1,083	781	1,616	252	7,061	3,192	59,873
2011	28,620	1,258	218	1,649	1,006	781	1,616	252	6,780	2,806	62,680
2012	26,752	1,177	203	1,541	930	781	1,616	252	6,500	2,463	65,142
2013	24,883	1,095	189	1,433	853	781	1,616	252	6,219	2,158	67,300
2014	23,015	1,013	175	1,326	777	781	1,616	252	5,939	1,866	69,166
2015	21,147	930	161	1,218	700	781	1,616	252	5,658	1,645	70,832
2016	19,279	848	147	1,110	624	781	1,616	252	5,378	1,432	72,264
2017	17,411	766	132	1,003	547	781	1,616	252	5,097	1,243	73,508
2018	15,542	684	118	895	471	781	1,616	252	4,817	1,075	74,581
2019	13,674	602	104	788	394	781	1,616	252	4,536	927	75,508
2020	11,806	519	90	680	318	781	1,616	252	4,256	796	76,304
2021	10,141	446	77	584	657	781	1,616	(155)	4,006	686	76,990
2022	8,888	391	68	512	1,021	781	1,616	(570)	3,817	599	77,589
2023	7,843	345	60	452	979	781	1,616	(570)	3,660	526	78,115
2024	6,797	299	52	392	935	781	1,616	(570)	3,503	461	78,575
2025	5,751	253	44	331	892	781	1,616	(570)	3,346	403	78,978
2026	4,706	207	36	271	848	781	1,616	(570)	3,189	351	79,330
2027	3,660	161	28	211	807	781	1,616	(570)	3,032	306	79,636
2028	2,614	115	20	151	764	781	1,616	(570)	2,875	266	79,901
2029	1,569	69	12	90	721	781	1,616	(570)	2,718	230	80,131
2030	523	23	4	30	679	781	1,616	(570)	2,561	198	80,329

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65690

4200

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/26/95

PROGRAM NAME: BERS01R - Bldg Envelope Residential

PSC FORM CE 1.1A
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(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)
2001	3.75%	1,793	121	46,866	1,616	(1,210)	48,813	48,076	48,944
2002	7.22%	3,452	761	45,250	3,232	(449)	48,076	45,898	46,987
2003	6.68%	3,194	662	43,634	4,848	213	45,898	43,421	44,560
2004	6.18%	2,955	569	42,018	6,464	782	43,421	41,235	42,328
2005	5.71%	2,730	483	40,401	8,080	1,265	41,235	39,137	40,186
2006	5.29%	2,524	403	38,785	9,696	1,868	39,137	37,117	38,127
2007	4.89%	2,338	331	37,169	11,312	2,000	37,117	35,170	36,143
2008	4.52%	2,161	263	35,553	12,928	2,263	35,170	33,290	34,230
2009	4.46%	2,132	252	33,937	14,545	2,515	33,290	31,422	32,356
2010	4.46%	2,132	252	32,321	16,161	2,767	31,422	29,554	30,488
2011	4.46%	2,132	252	30,705	17,777	3,019	29,554	27,686	28,620
2012	4.46%	2,132	252	29,089	19,393	3,272	27,686	25,818	26,752
2013	4.46%	2,132	252	27,473	21,009	3,524	25,818	23,949	24,883
2014	4.46%	2,132	252	25,857	22,625	3,776	23,949	22,081	23,015
2015	4.46%	2,132	252	24,241	24,241	4,028	22,081	20,213	21,147
2016	4.46%	2,132	252	22,625	25,857	4,280	20,213	18,345	19,279
2017	4.46%	2,132	252	21,009	27,473	4,532	18,345	16,476	17,411
2018	4.46%	2,132	252	19,393	29,089	4,784	16,476	14,608	15,542
2019	4.46%	2,132	252	17,777	30,705	5,037	14,608	12,740	13,674
2020	4.46%	2,132	252	16,161	32,321	5,289	12,740	10,872	11,806
2021	2.25%	1,076	(155)	14,545	33,937	5,133	10,872	9,411	10,141
2022	0.00%	0	(570)	12,928	35,553	4,563	9,411	8,395	8,888
2023	0.00%	0	(570)	11,312	37,169	3,993	8,395	7,320	7,843
2024	0.00%	0	(570)	9,696	38,785	3,422	7,320	6,274	6,797
2025	0.00%	0	(570)	8,080	40,401	2,852	6,274	5,223	5,751
2026	0.00%	0	(570)	6,464	42,018	2,281	5,228	4,183	4,706
2027	0.00%	0	(570)	4,848	43,634	1,711	4,183	3,137	3,660
2028	0.00%	0	(570)	3,232	45,250	1,141	3,137	2,091	2,614
2029	0.00%	0	(570)	1,616	46,866	570	2,091	1,046	1,569
2030	0.00%	0	(570)	0	48,482	0	1,046	0	523

* Column not specified in workbook

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INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME BERS01R - Bldg Envelope Residential

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CA/Wh)	(5) AVOIDED MARGINAL FUEL COST (CA/Wh)	(6)* INCREASED MARGINAL FUEL COST (CA/Wh)	(7) REPLACEMENT FUEL COST (CA/Wh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.13	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.45	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.57	1.92	0.00	1.00	1.00
1997	56,974	56,974	0.00	3.95	2.03	0.00	1.00	1.00
1998	123,116	123,116	0.00	4.19	2.04	0.00	1.00	1.00
1999	189,258	189,258	0.00	4.92	2.19	0.00	1.00	1.00
2000	255,400	255,400	0.00	4.83	2.43	0.00	1.00	1.00
2001	255,400	255,400	0.00	5.29	2.52	5.01	1.00	1.00
2002	255,400	255,400	0.00	5.62	2.59	5.43	1.00	1.00
2003	255,400	255,400	0.00	6.21	2.77	5.37	1.00	1.00
2004	255,400	255,400	0.00	6.76	2.84	5.95	1.00	1.00
2005	255,400	255,400	0.00	7.09	3.14	5.89	1.00	1.00
2006	255,400	255,400	0.00	7.55	3.30	6.32	1.00	1.00
2007	255,400	255,400	0.00	8.34	3.57	6.65	1.00	1.00
2008	255,400	255,400	0.00	8.73	3.81	7.04	1.00	1.00
2009	255,400	255,400	0.00	8.81	3.92	7.57	1.00	1.00
2010	255,400	255,400	0.00	9.73	4.18	8.37	1.00	1.00
2011	255,400	255,400	0.00	10.06	4.14	8.53	1.00	1.00
2012	255,400	255,400	0.00	10.48	4.53	8.99	1.00	1.00
2013	255,400	255,400	0.00	11.24	4.62	9.57	1.00	1.00
2014	255,400	255,400	0.00	11.94	4.88	10.14	1.00	1.00
2015	255,400	255,400	0.00	12.45	5.18	10.51	1.00	1.00
2016	255,400	255,400	0.00	13.23	5.39	11.12	1.00	1.00
2017	255,400	255,400	0.00	13.99	5.68	11.73	1.00	1.00
2018	255,400	255,400	0.00	13.99	5.95	12.38	1.00	1.00
2019	255,400	255,400	0.00	14.82	6.25	13.08	1.00	1.00
2020	255,400	255,400	0.00	15.70	6.57	13.77	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS

0031

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME BERS01R - Bldg Envelope Residenti

01/26/95

PSC FORM CE 2.2
PAGE 1 OF 1

(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 FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	307	51	358	137	211	348	570	0
1998	667	114	781	298	475	773	1,910	0
1999	1,027	183	1,210	459	764	1,223	3,890	0
2000	1,388	258	1,646	621	1,078	1,699	5,443	0
2001	1,344	271	1,615	601	1,130	1,731	6,843	0
2002	1,297	283	1,581	580	1,182	1,762	7,208	0
2003	1,253	296	1,549	560	1,236	1,796	8,041	0
2004	1,211	309	1,520	541	1,290	1,832	8,745	0
2005	1,170	323	1,493	523	1,348	1,872	9,172	0
2006	1,131	338	1,468	505	1,412	1,917	9,763	0
2007	1,092	354	1,446	488	1,479	1,967	10,794	0
2008	1,054	372	1,426	471	1,551	2,022	11,293	0
2009	1,018	390	1,407	454	1,628	2,083	11,400	0
2010	979	410	1,389	438	1,711	2,148	12,591	0
2011	941	431	1,372	421	1,800	2,221	13,015	0
2012	903	454	1,357	404	1,896	2,299	13,565	0
2013	865	479	1,344	387	1,996	2,383	14,548	0
2014	827	504	1,331	370	2,102	2,472	15,445	0
2015	789	530	1,319	353	2,211	2,564	16,115	0
2016	752	558	1,309	336	2,326	2,662	17,118	0
2017	714	587	1,300	319	2,447	2,766	18,097	0
2018	679	617	1,295	303	2,574	2,877	18,097	0
2019	646	649	1,296	289	2,708	2,997	18,170	0
2020	620	683	1,303	277	2,849	3,126	20,308	0
NOM	22,670	9,445	32,115	10,136	39,404	49,540	273,196	0
NPV	7,852	2,421	10,273	3,511	10,101	13,611	66,449	0

0033

01/26/95

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME BERSC1R - Bldg Envelope Residential

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(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	1,683	0	3,832	0	5,514	17,856	0	0	17,856	(12,342)	(9,472)
1998	5,409	0	4,459	0	9,868	21,592	0	0	21,592	(11,724)	(8,238)
1999	9,567	0	4,459	0	14,026	22,564	0	0	22,564	(8,537)	(5,482)
2000	13,948	0	4,459	0	18,407	23,602	0	0	23,602	(5,194)	(3,060)
2001	16,572	0	0	0	16,572	0	0	0	0	16,572	8,937
2002	17,124	0	0	0	17,124	0	0	0	0	17,124	8,455
2003	17,899	0	0	0	17,899	0	0	0	0	17,899	8,091
2004	18,365	0	0	0	18,365	0	0	0	0	18,365	7,601
2005	18,921	0	0	0	18,921	0	0	0	0	18,921	7,170
2006	19,543	0	0	0	19,543	0	0	0	0	19,543	6,780
2007	20,420	0	1,011	0	21,431	13,251	0	0	13,251	8,180	2,598
2008	21,064	0	1,179	0	22,243	16,217	0	0	16,217	6,026	1,752
2009	21,872	0	1,179	0	23,051	17,028	0	0	17,028	6,024	1,604
2010	22,489	0	1,179	0	23,668	17,896	0	0	17,896	5,772	1,407
2011	23,508	0	0	0	23,508	0	0	0	0	23,508	5,247
2012	24,450	0	0	0	24,450	0	0	0	0	24,450	4,986
2013	25,745	0	0	0	25,745	0	0	0	0	25,745	4,817
2014	26,949	0	0	0	26,949	0	0	0	0	26,949	4,616
2015	27,619	0	0	0	27,619	0	0	0	0	27,619	4,331
2016	28,967	0	0	0	28,967	0	0	0	0	28,967	4,159
2017	30,210	0	3,798	0	33,976	44,444	0	0	44,444	(10,468)	(1,376)
2018	31,502	0	4,394	0	35,896	54,549	0	0	54,549	(18,653)	(2,245)
2019	32,400	0	4,394	0	36,794	57,395	0	0	57,395	(20,591)	(2,299)
2020	33,854	0	4,394	0	38,248	60,369	0	0	60,369	(22,121)	(2,232)
NOM	510,077	0	36,707	0	548,784	366,752	0	0	366,752	182,032	
NPV	133,328	0	14,787	0	148,115	99,938	0	0	99,938	48,177	

In Service of Gen Unit	2001
Discount Rate	9.22
Benefit/Cost Ratio (Col(9) / Col(10))	1.48

01/26/95

RATE IMPACT TEST
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME BERS01R - Bldg Envelope Residential

PSC FORM CE 2.5
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	1,565	3,832	1,026	0	6,423	570	706	0	0	1,276	(5,147)	(3,950)
1998	0	1,894	4,458	3,299	0	9,652	1,910	1,554	0	0	3,464	(6,188)	(4,348)
1999	0	1,979	4,458	5,836	0	12,274	3,890	2,432	0	0	6,323	(5,952)	(3,829)
2000	0	2,070	4,458	8,508	0	15,038	5,443	3,345	0	0	8,788	(6,250)	(3,681)
2001	0	0	0	10,109	0	10,109	13,486	3,345	0	0	16,831	6,722	3,625
2002	0	0	0	10,446	0	10,446	13,105	3,342	0	0	16,448	6,002	2,963
2003	0	0	0	10,918	0	10,918	14,667	3,346	0	0	18,013	7,095	3,207
2004	0	0	0	11,202	0	11,202	14,317	3,352	0	0	17,668	6,466	2,676
2005	0	0	0	11,542	0	11,542	15,784	3,365	0	0	19,149	7,607	2,883
2006	0	0	0	11,921	0	11,921	16,180	3,386	0	0	19,567	7,846	2,852
2007	0	0	0	12,456	0	14,857	17,608	3,413	0	0	21,019	6,163	2,021
2008	0	1,190	1,011	12,849	0	15,484	18,244	3,448	0	0	21,692	6,208	1,805
2009	0	1,458	1,179	13,342	0	16,050	17,638	3,489	0	0	21,126	5,079	1,352
2010	0	1,529	1,179	13,718	0	16,504	17,796	3,538	0	0	21,334	4,830	1,170
2011	0	1,607	1,179	14,340	0	14,340	19,731	3,593	0	0	23,324	8,984	2,005
2012	0	0	0	14,914	0	14,914	20,715	3,657	0	0	24,372	9,457	1,933
2013	0	0	0	15,705	0	15,705	21,464	3,728	0	0	25,191	9,486	1,775
2014	0	0	0	16,439	0	16,439	21,965	3,803	0	0	25,768	9,329	1,598
2015	0	0	0	16,847	0	16,847	22,297	3,884	0	0	26,180	9,333	1,464
2016	0	0	0	17,670	0	17,670	23,230	3,971	0	0	27,202	9,532	1,369
2017	0	0	0	18,428	0	26,107	24,015	4,067	0	0	28,082	1,975	260
2018	0	3,912	3,796	19,216	0	28,412	23,748	4,172	0	0	27,920	(492)	(59)
2019	0	4,802	4,394	19,764	0	29,210	24,404	4,293	0	0	28,697	(512)	(56)
2020	0	5,051	4,394	20,651	0	30,358	25,228	4,429	0	0	29,657	(703)	(71)
NOM.	0	32,368	39,707	311,147	0	382,223	397,407	81,658	0	0	479,063	96,840	
NPV	0	8,810	14,787	81,330	0	104,927	99,805	23,885	0	0	123,690	18,763	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.18

0036

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM						
	RCS-10A	RCS-10B	RCS-11A	RCS-12A	RCS-16A	RCS-17A	RCS-18A
(1) UTILITY NON RECURRING COST PER CUSTOMER	$25	$25	$25	$25	$23	$23	$23
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$303	$303	$303	$204	$256	$294	$274
(6) CUSTOMER O&M COST	$0	$0	$0	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$141	$85	$86	$36	$35	$33	$41
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%	0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

0037

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED :REV_REQ
PROGRAM NAME BERS04 - Residential Bldg. Envelope

01/28/95

PSC FORM CE 1
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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.18	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.24	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	494.7	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	29	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.05888	
(5) K FACTOR FOR T & D	1.06867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOME	—	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	—	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	—	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	—	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2004	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2003	
(4) BASE YEAR AVOIDED GENERATING COST	558	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%—
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%—
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%—
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%—
(15) GENERATOR CAPACITY FACTOR	59%	— (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	4.20	CENTS PER kWh— (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%—

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	—	%

0136

* 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 12
— ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME BERS04 - Residential Bldg. Envelope

01/26/95

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	540	1,088	0	1,629	319	0	6,192	0	0	6,192
2002	565	1,088	0	1,654	988	0	6,477	0	0	6,477
2003	591	1,088	0	1,680	1,722	0	6,775	0	0	6,775
2004	0	0	0	0	2,120	0	0	0	0	0
2005	0	0	0	0	2,184	0	0	0	0	0
2006	0	0	0	0	2,256	0	0	0	0	0
2007	0	0	0	0	2,357	0	0	0	0	0
2008	0	0	0	0	2,432	0	0	0	0	0
2009	0	0	0	0	2,525	0	0	0	0	0
2010	0	0	0	0	2,596	0	0	0	0	0
2011	404	282	0	686	2,714	0	4,500	0	0	4,500
2012	425	282	0	707	2,823	0	4,738	0	0	4,738
2013	448	282	0	730	2,972	0	4,988	0	0	4,988
2014	0	0	0	0	3,111	0	0	0	0	0
2015	0	0	0	0	3,189	0	0	0	0	0
2016	0	0	0	0	3,344	0	0	0	0	0
2017	0	0	0	0	3,488	0	0	0	0	0
2018	0	0	0	0	3,637	0	0	0	0	0
2019	0	0	0	0	3,761	0	0	0	0	0
2020	0	0	0	0	3,908	0	0	0	0	0
2021	1,335	1,049	0	2,385	4,084	0	15,169	0	0	15,169
2022	1,405	1,049	0	2,454	4,269	0	15,058	0	0	15,058
NOM	5,714	8,209	0	11,923	60,780	0	84,798	0	0	84,798
NPV	1,341	1,975	0	3,316	12,381	0	15,257	0	0	15,257

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

0039

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/28/96

PROGRAM NAME:BERS04 - Residential Bldg. Envelope

PSC FORM CE 1.1A
PAGE 2b OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
2004	3.75%	380	28	9,921	342	(258)	10,545	10,177	10,361
2005	7.22%	731	181	9,579	684	(95)	10,177	9,674	9,925
2006	6.68%	678	140	9,237	1,026	45	9,674	9,182	9,433
2007	6.18%	625	121	8,895	1,368	166	9,182	8,729	8,960
2008	5.71%	578	102	8,552	1,710	268	8,729	8,285	8,507
2009	5.28%	534	85	8,210	2,053	353	8,285	7,857	8,071
2010	4.89%	495	70	7,868	2,395	423	7,857	7,445	7,651
2011	4.52%	457	58	7,526	2,737	479	7,445	7,047	7,246
2012	4.46%	451	53	7,184	3,079	532	7,047	6,652	6,849
2013	4.46%	451	53	6,842	3,421	586	6,652	6,256	6,454
2014	4.46%	451	53	6,500	3,763	639	6,256	5,861	6,058
2015	4.46%	451	53	6,158	4,105	693	5,861	5,465	5,663
2016	4.46%	451	53	5,816	4,447	746	5,465	5,070	5,267
2017	4.46%	451	53	5,474	4,789	799	5,070	4,674	4,872
2018	4.46%	451	53	5,131	5,131	853	4,674	4,279	4,476
2019	4.46%	451	53	4,789	5,474	906	4,279	3,883	4,081
2020	4.46%	451	53	4,447	5,816	959	3,883	3,488	3,686
2021	4.46%	451	53	4,105	6,158	1,013	3,488	3,092	3,290
2022	4.46%	451	53	3,763	6,500	1,066	3,092	2,697	2,895
2023	4.46%	451	53	3,421	6,842	1,120	2,697	2,301	2,499
2024	2.25%	226	(33)	3,079	7,184	1,067	2,301	1,992	2,147
2025	0.00%	0	(121)	2,737	7,526	986	1,992	1,771	1,882
2026	0.00%	0	(121)	2,395	7,868	845	1,771	1,549	1,660
2027	0.00%	0	(121)	2,053	8,210	724	1,549	1,328	1,439
2028	0.00%	0	(121)	1,710	8,552	604	1,328	1,107	1,217
2029	0.00%	0	(121)	1,368	8,895	483	1,107	885	996
2030	0.00%	0	(121)	1,026	9,237	362	885	664	775
2031	0.00%	0	(121)	684	9,579	241	664	443	553
2032	0.00%	0	(121)	342	9,921	121	443	221	332
2033	0.00%	0	(121)	0	10,263	0	221	0	111

* Column not specified in workbook

0142

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME BER504 - Residential Bldg. Envelope

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) AC ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAMW)	(5) AVOIDED MARGINAL FUEL COST (CAMW)	(6)* INCREASED MARGINAL FUEL COST (CAMW)	(7) REPLACEMENT FUEL COST (CAMW)	(8) PROGRAM MW EFFECTIVENESS FACTOR	(9) PROGRAM MWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.13	1.09	0.00	1.00	1.00
1995	0	0	0.00	3.45	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.57	1.92	0.00	1.00	1.00
1997	0	0	0.00	3.95	2.03	0.00	1.00	1.00
1998	0	0	0.00	4.19	2.04	0.00	1.00	1.00
1999	0	0	0.00	4.82	2.19	0.00	1.00	1.00
2000	0	0	0.00	4.83	2.43	0.00	1.00	1.00
2001	16,503	16,503	0.00	5.29	2.52	0.00	1.00	1.00
2002	33,006	33,006	0.00	5.82	2.59	0.00	1.00	1.00
2003	49,509	49,509	0.00	6.21	2.77	0.00	1.00	1.00
2004	49,509	49,509	0.00	6.76	2.84	5.85	1.00	1.00
2005	49,509	49,509	0.00	7.09	3.14	5.60	1.00	1.00
2006	49,509	49,509	0.00	7.55	3.30	6.32	1.00	1.00
2007	49,509	49,509	0.00	8.34	3.57	6.85	1.00	1.00
2008	49,509	49,509	0.00	8.73	3.81	7.04	1.00	1.00
2009	49,509	49,509	0.00	8.81	3.82	7.57	1.00	1.00
2010	49,509	49,509	0.00	9.73	4.18	8.37	1.00	1.00
2011	49,509	49,509	0.00	10.08	4.14	8.53	1.00	1.00
2012	49,509	49,509	0.00	10.48	4.53	8.68	1.00	1.00
2013	49,509	49,509	0.00	11.24	4.62	8.57	1.00	1.00
2014	49,509	49,509	0.00	11.64	4.88	10.14	1.00	1.00
2015	49,509	49,509	0.00	12.45	5.18	10.51	1.00	1.00
2016	49,509	49,509	0.00	13.23	5.38	11.12	1.00	1.00
2017	49,509	49,509	0.00	13.89	5.88	11.73	1.00	1.00
2018	49,509	49,509	0.00	13.99	5.95	12.38	1.00	1.00
2019	49,509	49,509	0.00	14.82	6.25	13.06	1.00	1.00
2020	49,509	49,509	0.00	15.70	6.57	13.77	1.00	1.00
2021	49,509	49,509	0.00	16.63	6.90	14.53	1.00	1.00
2022	49,509	49,509	0.00	17.61	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0044

01/26/95

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME BERS04 - Residential Bldg. Envelope

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	540	6,192	0	6,733	0	231	216	0	447	(6,286)	(3,390)
2002	0	565	6,477	0	7,043	0	472	688	0	1,160	(5,883)	(6,294)
2003	0	591	6,775	0	7,367	0	722	1,268	0	1,991	(5,376)	(8,724)
2004	0	0	0	0	0	1,465	722	1,655	0	3,842	3,842	(7,134)
2005	0	0	0	0	0	1,656	721	1,736	0	4,113	4,113	(5,578)
2006	0	0	0	0	0	1,604	722	1,848	0	4,174	4,174	(4,128)
2007	0	0	0	0	0	1,664	724	2,043	0	4,431	4,431	(2,720)
2008	0	0	0	0	0	1,676	728	2,138	0	4,542	4,542	(1,400)
2009	0	0	0	0	0	1,529	734	2,158	0	4,421	4,421	(222)
2010	0	0	0	0	0	1,319	742	2,383	0	4,443	4,443	881
2011	0	404	4,500	0	4,904	1,801	751	2,464	0	4,816	(88)	841
2012	0	425	4,738	0	5,163	1,077	761	2,566	0	5,008	(156)	809
2013	0	448	4,989	0	5,437	1,827	773	2,753	0	5,153	(284)	756
2014	0	0	0	0	0	1,545	788	2,923	0	5,255	5,255	1,656
2015	0	0	0	0	0	1,475	800	3,050	0	5,325	5,325	2,491
2016	0	0	0	0	0	1,456	816	3,240	0	5,511	5,511	3,283
2017	0	0	0	0	0	1,412	832	3,425	0	5,670	5,670	4,028
2018	0	0	0	0	0	1,355	850	3,425	0	5,631	5,631	4,708
2019	0	0	0	0	0	1,270	870	3,829	0	5,769	5,769	5,341
2020	0	0	0	0	0	1,204	891	3,844	0	5,940	5,940	5,941
2021	0	1,335	15,108	0	16,504	1,158	914	4,072	0	6,143	(10,362)	4,864
2022	0	1,405	15,858	0	17,362	1,101	940	4,314	0	6,355	(11,007)	4,053
												#VALUE!
NOM	0	5,714	64,788	0	70,512	27,782	16,505	55,840	0	100,127	29,624	
NPV	0	1,341	15,257	0	16,598	6,054	3,731	10,865	0	20,651	4,053	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.24

0147

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME BERS04 - Residential Bldg. Envelope

01/26/95

PSC FORM CE 2.4
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	823	0	1,088	0	1,911	6,102	0	0	6,102	(4,581)	(2,471)
2002	1,823	0	1,088	0	2,709	6,477	0	0	6,477	(3,769)	(1,861)
2003	2,823	0	1,088	0	3,911	6,775	0	0	6,775	(2,864)	(1,295)
2004	3,476	0	0	0	3,476	0	0	0	0	3,476	1,439
2005	3,581	0	0	0	3,581	0	0	0	0	3,581	1,357
2006	3,689	0	0	0	3,689	0	0	0	0	3,689	1,283
2007	3,865	0	0	0	3,865	0	0	0	0	3,865	1,228
2008	3,967	0	0	0	3,967	0	0	0	0	3,967	1,159
2009	4,140	0	0	0	4,140	0	0	0	0	4,140	1,102
2010	4,256	0	0	0	4,256	0	0	0	0	4,256	1,038
2011	4,449	0	282	0	4,731	4,500	0	0	4,500	231	82
2012	4,627	0	282	0	4,909	4,738	0	0	4,738	171	35
2013	4,873	0	282	0	5,154	4,989	0	0	4,989	165	31
2014	5,100	0	0	0	5,100	0	0	0	0	5,100	874
2015	5,227	0	0	0	5,227	0	0	0	0	5,227	820
2016	5,482	0	0	0	5,482	0	0	0	0	5,482	787
2017	5,718	0	0	0	5,718	0	0	0	0	5,718	752
2018	5,962	0	0	0	5,962	0	0	0	0	5,962	718
2019	6,132	0	0	0	6,132	0	0	0	0	6,132	679
2020	6,407	0	0	0	6,407	0	0	0	0	6,407	646
2021	6,695	0	1,049	0	7,745	15,169	0	0	15,169	(7,424)	(606)
2022	6,998	0	1,049	0	8,048	15,958	0	0	15,958	(7,910)	(569)
NOM	99,839	0	6,209	0	105,849	64,798	0	0	64,798	41,050	
NPV	20,299	0	1,975	0	22,271	15,257	0	0	15,257	7,014	

In Service of Gen Unit: 2004

Discount Rate : 9.22

Benefit/Cost Ratio (Col(6) / Col(10)) 1.46

0148

01/26/95

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BERS04 - Residential Bldg. Envelope

PSC FORM CE 2.5
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	540	1,088	319	0	1,948	218	231	0	0	447	(1,500)	(809)
2002	0	565	1,088	668	0	2,642	688	472	0	0	1,160	(1,482)	(732)
2003	0	581	1,088	1,722	0	3,402	1,268	722	0	0	1,991	(1,411)	(638)
2004	0	0	0	2,120	0	2,120	3,120	722	0	0	3,842	1,721	712
2005	0	0	0	2,184	0	2,184	3,392	721	0	0	4,113	1,929	731
2006	0	0	0	2,256	0	2,256	3,452	722	0	0	4,174	1,917	665
2007	0	0	0	2,357	0	2,357	3,707	724	0	0	4,431	2,073	659
2008	0	0	0	2,432	0	2,432	3,814	728	0	0	4,542	2,110	614
2009	0	0	0	2,525	0	2,525	3,887	734	0	0	4,621	1,896	505
2010	0	0	0	2,596	0	2,596	3,702	742	0	0	4,443	1,847	450
2011	0	404	282	2,714	0	3,400	4,065	751	0	0	4,816	1,416	318
2012	0	425	282	2,823	0	3,530	4,244	761	0	0	5,006	1,476	302
2013	0	448	282	2,972	0	3,702	4,380	773	0	0	5,153	1,451	271
2014	0	0	0	3,111	0	3,111	4,468	786	0	0	5,255	2,144	367
2015	0	0	0	3,189	0	3,189	4,525	800	0	0	5,325	2,137	335
2016	0	0	0	3,344	0	3,344	4,695	816	0	0	5,511	2,167	311
2017	0	0	0	3,488	0	3,488	4,838	832	0	0	5,670	2,182	287
2018	0	0	0	3,637	0	3,637	4,781	850	0	0	5,631	1,994	240
2019	0	0	0	3,741	0	3,741	4,899	870	0	0	5,769	2,028	224
2020	0	0	0	3,906	0	3,906	5,048	891	0	0	5,940	2,031	205
2021	0	1,335	1,049	4,084	0	6,469	5,220	914	0	0	6,143	(326)	(30)
2022	0	1,405	1,049	4,269	0	6,723	5,415	940	0	0	6,355	(368)	(31)
NOM.	0	5,714	8,209	60,780	0	72,703	83,832	16,505	0	0	100,137	27,434	
NPV	0	1,341	1,975	12,381	0	15,697	16,919	3,731	0	0	20,651	4,954	

Discount Rate	9.22
Benefit/Cost Ratio (Col(12) / Col(7)) :	1.32

0129

III UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM						
	RCS-10A	RCS-10B	RCS-11A	RCS-12A	RCS-16A	RCS-17A	RCS-18A
(1) UTILITY NON RECURRING COST PER CUSTOMER	$25	$25	$25	$25	$23	$23	$23
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$303	$303	$303	$204	$256	$294	$274
(6) CUSTOMER O&M COST	$0	$0	$0	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$141	$85	$86	$36	$35	$33	$41
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%	0%	0%	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.3%	2.2%
1995	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

0200

DUCT SYSTEM TESTING AND REPAIR

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	68,923	55,792	1.24	64,377	32,666	1.97	68,923	42,826	1.61
1997-2000	149,779	127,495	1.17	147,872	77,796	1.90	149,779	101,776	1.47
2001-2003	64,271	49,074	1.31	56,362	32,624	1.73	64,271	42,580	1.51
1995-2003	282,973	232,361	1.22	268,611	143,086	1.88	282,973	187,182	1.51

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: DUCT95X - DUCT Residential

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	3,589	6,931	0	10,520	857	0	11,349	0	0	11,349
1996	4,186	7,798	0	11,984	2,105	0	13,215	0	0	13,215
1997	0	0	0	0	2,889	0	0	0	0	0
1998	0	0	0	0	2,935	0	0	0	0	0
1999	0	0	0	0	2,991	0	0	0	0	0
2000	0	0	0	0	3,063	0	0	0	0	0
2001	0	0	0	0	3,167	0	0	0	0	0
2002	0	0	0	0	3,273	0	0	0	0	0
2003	0	0	0	0	3,421	0	0	0	0	0
2004	0	0	0	0	3,510	0	0	0	0	0
2005	0	0	0	0	3,616	0	0	0	0	0
2006	0	0	0	0	3,735	0	0	0	0	0
2007	0	0	0	0	3,903	0	0	0	0	0
2008	0	0	0	0	4,029	0	0	0	0	0
2009	0	0	0	0	4,180	0	0	0	0	0
2010	6,868	6,931	0	13,899	4,298	0	22,048	0	0	22,048
2011	7,873	7,798	0	15,671	4,493	0	26,091	0	0	26,091
2012	0	0	0	0	4,673	0	0	0	0	0
2013	0	0	0	0	4,921	0	0	0	0	0
2014	0	0	0	0	5,161	0	0	0	0	0
2015	0	0	0	0	5,379	0	0	0	0	0
2016	0	0	0	0	5,537	0	0	0	0	0
NOM	22,299	29,458	0	51,754	81,825	0	72,701	0	0	72,701
NPV	10,161	16,312	0	26,473	29,319	0	32,866	0	0	32,866

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: DUCT95X - DUCT Residential

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	16,571	729	126	954	665	265	549	39	3,325	3,325	3,326
1998	15,873	698	121	914	418	265	549	257	3,223	2,951	6,278
1999	15,084	664	115	869	420	265	549	223	3,104	2,602	8,881
2000	14,327	630	109	825	420	265	549	192	2,991	2,295	11,176
2001	13,601	598	103	783	420	265	549	162	2,882	2,025	13,201
2002	12,903	568	98	743	418	265	549	135	2,777	1,787	14,987
2003	12,231	538	93	705	415	265	549	111	2,676	1,576	16,564
2004	11,583	510	88	667	412	265	549	88	2,579	1,391	17,954
2005	10,948	482	83	631	390	265	549	84	2,483	1,228	19,180
2006	10,315	454	78	594	254	265	549	84	2,388	1,080	20,260
2007	9,682	426	74	558	336	265	549	84	2,293	949	21,209
2008	9,049	398	69	521	312	265	549	84	2,198	833	22,042
2009	8,416	370	64	485	288	265	549	84	2,103	730	22,772
2010	7,783	342	59	448	260	265	549	84	2,008	638	23,410
2011	7,150	315	54	412	234	265	549	84	1,913	558	23,968
2012	6,517	287	50	375	208	265	549	84	1,818	484	24,450
2013	5,884	259	45	339	182	265	549	84	1,723	420	24,870
2014	5,252	231	40	302	156	265	549	84	1,628	363	25,234
2015	4,619	203	35	266	131	265	549	84	1,533	313	25,547
2016	3,986	175	30	230	105	265	549	84	1,438	269	25,816
2017	3,422	151	26	197	220	265	549	(55)	1,353	232	26,048
2018	2,989	132	23	173	344	265	549	(106)	1,299	202	26,250
2019	2,646	116	20	152	330	265	549	(106)	1,227	178	26,428
2020	2,293	101	17	132	316	265	549	(106)	1,154	155	26,583
2021	1,940	85	15	112	301	265	549	(106)	1,131	139	26,719
2022	1,588	70	12	91	287	265	549	(106)	1,078	119	26,838
2023	1,235	54	9	71	272	265	549	(106)	1,025	103	26,942
2024	882	39	7	51	258	265	549	(106)	972	90	27,031
2025	529	23	4	30	243	265	549	(106)	918	78	27,109
2026	176	8	1	10	229	265	549	(106)	866	67	27,176

IN SERVICE COST ($000)	16,475
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	6%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.64867

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_RE

PROGRAM NAM DUCT95X - DUCT Residential

PSC FORM CE 1.1A
PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	611	611	549	549	509	509	39	1,203	0	0	0	39
1998	7.22%	1,176	1,788	549	1,098	509	1,018	257	1,203	0	0	0	257
1999	6.68%	1,088	2,874	549	1,647	509	1,527	223	1,203	0	0	0	223
2000	6.18%	1,008	3,880	549	2,197	509	2,036	192	1,203	0	0	0	192
2001	5.71%	930	4,810	549	2,746	509	2,545	182	1,203	0	0	0	182
2002	5.29%	860	5,670	549	3,295	509	3,054	135	1,203	0	0	0	135
2003	4.89%	796	6,466	549	3,844	509	3,563	111	1,203	0	0	0	111
2004	4.52%	736	7,202	549	4,393	509	4,072	88	1,203	0	0	0	88
2005	4.46%	726	7,928	549	4,942	509	4,581	84	1,203	0	0	0	84
2006	4.46%	726	8,654	549	5,492	509	5,090	84	1,203	0	0	0	84
2007	4.46%	726	9,380	549	6,041	509	5,599	84	1,203	0	0	0	84
2008	4.46%	726	10,107	549	6,590	509	6,108	84	1,203	0	0	0	84
2009	4.46%	726	10,833	549	7,139	509	6,618	84	1,203	0	0	0	84
2010	4.46%	726	11,559	549	7,688	509	7,127	84	1,203	0	0	0	84
2011	4.46%	726	12,285	549	8,237	509	7,636	84	1,203	0	0	0	84
2012	4.46%	726	13,011	549	8,787	509	8,145	84	1,203	0	0	0	84
2013	4.46%	726	13,738	549	9,336	509	8,654	84	1,203	0	0	0	84
2014	4.46%	726	14,464	549	9,885	509	9,163	84	1,203	0	0	0	84
2015	4.46%	726	15,190	549	10,434	509	9,672	84	1,203	0	0	0	84
2016	4.46%	726	15,916	549	10,983	509	10,181	84	1,203	0	0	0	84
2017	2.25%	366	16,282	549	11,532	509	10,683	(50)	1,203	0	0	0	(50)
2018	0.00%	0	16,282	549	12,081	509	11,190	(190)	1,203	0	0	0	(190)
2019	0.00%	0	16,282	549	12,631	509	11,700	(190)	1,203	0	0	0	(190)
2020	0.00%	0	16,282	549	13,180	509	12,217	(190)	1,203	0	0	0	(190)
2021	0.00%	0	16,282	549	13,729	509	12,729	(190)	1,203	0	0	0	(190)
2022	0.00%	0	16,282	549	14,278	509	13,235	(190)	1,203	0	0	0	(190)
2023	0.00%	0	16,282	549	14,827	509	13,744	(190)	1,203	0	0	0	(190)
2024	0.00%	0	16,282	549	15,376	509	14,253	(190)	1,203	0	0	0	(190)
2025	0.00%	0	16,282	549	15,926	509	14,762	(190)	1,203	0	0	0	(190)
2026	0.00%	0	16,282	549	16,475	509	15,271	(190)	1,203	0	0	0	(190)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(390)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,203
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME DUCT95X - DUCT Residential

PSC FORM CE 1.1A
PAGE 2b OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
1997	3.75%	811	39	15,926	549	(351)	16,885	16,278	16,571
1998	7.22%	1,170	257	15,376	1,098	(94)	16,278	15,470	15,873
1999	6.68%	1,088	223	14,827	1,647	129	15,470	14,698	15,084
2000	6.18%	1,008	182	14,278	2,197	321	14,698	13,957	14,327
2001	5.71%	930	162	13,729	2,746	483	13,957	13,245	13,601
2002	5.28%	860	135	13,180	3,295	619	13,245	12,581	12,913
2003	4.89%	796	111	12,631	3,844	730	12,581	11,801	12,221
2004	4.52%	736	88	12,081	4,393	817	11,801	11,284	11,563
2005	4.46%	726	84	11,532	4,942	901	11,284	10,631	10,948
2006	4.46%	726	84	10,983	5,492	985	10,631	9,999	10,315
2007	4.46%	726	84	10,434	6,041	1,069	9,999	9,368	9,682
2008	4.46%	726	84	9,885	6,590	1,152	9,368	8,733	9,049
2009	4.46%	726	84	9,336	7,139	1,236	8,733	8,100	8,416
2010	4.46%	726	84	8,787	7,688	1,320	8,100	7,467	7,783
2011	4.46%	726	84	8,237	8,237	1,403	7,467	6,834	7,150
2012	4.46%	726	84	7,688	8,787	1,487	6,834	6,201	6,517
2013	4.46%	726	84	7,139	9,336	1,571	6,201	5,568	5,884
2014	4.46%	726	84	6,590	9,885	1,655	5,568	4,935	5,252
2015	4.46%	726	84	6,041	10,434	1,739	4,935	4,302	4,618
2016	4.46%	726	84	5,492	10,983	1,822	4,302	3,689	3,996
2017	2.25%	366	(55)	4,942	11,532	1,767	3,689	3,175	3,432
2018	0.00%	0	(199)	4,393	12,081	1,571	3,175	2,822	2,999
2019	0.00%	0	(199)	3,844	12,631	1,375	2,822	2,470	2,646
2020	0.00%	0	(199)	3,295	13,180	1,178	2,470	2,117	2,293
2021	0.00%	0	(199)	2,746	13,729	982	2,117	1,764	1,940
2022	0.00%	0	(199)	2,197	14,278	785	1,764	1,411	1,588
2023	0.00%	0	(199)	1,647	14,827	589	1,411	1,058	1,235
2024	0.00%	0	(199)	1,098	15,376	393	1,058	706	882
2025	0.00%	0	(199)	549	15,926	196	706	353	529
2026	0.00%	0	(199)	0	16,475	0	353	0	176

* Column not specified in workbook

0056

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME DUCT95X - DUCT Residential

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.18	1.89	0.00	1.00	1.00
1995	32,167	32,167	0.00	3.89	1.82	0.00	1.00	1.00
1996	66,356	66,356	0.00	3.80	1.92	0.00	1.00	1.00
1997	66,356	66,356	0.00	4.43	2.03	4.28	1.00	1.00
1998	66,356	66,356	0.00	4.68	2.04	4.25	1.00	1.00
1999	66,356	66,356	0.00	5.61	2.19	7.85	1.00	1.00
2000	66,356	66,356	0.00	5.36	2.43	8.21	1.00	1.00
2001	66,356	66,356	0.00	5.85	2.52	8.42	1.00	1.00
2002	66,356	66,356	0.00	6.19	2.58	8.06	1.00	1.00
2003	66,356	66,356	0.00	6.84	2.77	8.28	1.00	1.00
2004	66,356	66,356	0.00	7.50	2.84	8.80	1.00	1.00
2005	66,356	66,356	0.00	7.77	3.14	8.62	1.00	1.00
2006	66,356	66,356	0.00	8.18	3.30	8.52	1.00	1.00
2007	66,356	66,356	0.00	8.21	3.57	8.70	1.00	1.00
2008	66,356	66,356	0.00	8.54	3.81	10.08	1.00	1.00
2009	66,356	66,356	0.00	8.80	3.82	10.07	1.00	1.00
2010	66,356	66,356	0.00	10.72	4.18	10.89	1.00	1.00
2011	66,356	66,356	0.00	11.08	4.14	11.46	1.00	1.00
2012	66,356	66,356	0.00	11.54	4.53	12.64	1.00	1.00
2013	66,356	66,356	0.00	12.40	4.82	13.06	1.00	1.00
2014	66,356	66,356	0.00	13.25	4.88	13.71	1.00	1.00
2015	66,356	66,356	0.00	13.80	5.18	14.19	1.00	1.00
2016	66,356	66,356	0.00	14.73	5.39	15.01	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.

0158

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT95X - DUCT Residential

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	3,328	936	0.050	15	17	4,263
1998	3,223	977	0.056	17	19	4,199
1999	3,104	1,021	0.304	95	179	4,042
2000	2,991	1,068	0.022	7	13	4,053
2001	2,882	1,119	0.038	12	21	3,992
2002	2,777	1,171	0.038	13	22	3,839
2003	2,676	1,225	0.070	25	41	3,885
2004	2,579	1,279	0.120	45	69	3,833
2005	2,483	1,336	0.071	27	39	3,809
2006	2,389	1,396	0.063	24	33	3,779
2007	2,293	1,465	0.113	44	58	3,745
2008	2,198	1,537	0.113	45	57	3,723
2009	2,103	1,613	0.069	27	33	3,710
2010	2,009	1,696	0.269	110	130	3,894
2011	1,913	1,784	0.233	96	115	3,870
2012	1,818	1,879	0.306	127	158	3,886
2013	1,723	1,979	0.367	151	199	3,667
2014	1,628	2,083	0.360	152	197	3,677
2015	1,533	2,191	0.364	160	191	3,884
2016	1,438	2,305	0.469	199	235	3,705
NOM	47,067	30,094	3.568	1,407	1,821	78,742
NPV	19,813	9,888	0.997	399	512	29,589

0059

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT95X - DUCT Residential

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	3,328	936	0.050	15	17	4,263
1998	3,223	977	0.056	17	19	4,199
1999	3,104	1,021	0.304	95	179	4,042
2000	2,991	1,068	0.022	7	13	4,053
2001	2,882	1,119	0.038	12	21	3,992
2002	2,777	1,171	0.038	13	22	3,839
2003	2,676	1,225	0.070	25	41	3,885
2004	2,579	1,279	0.120	45	69	3,833
2005	2,483	1,336	0.071	27	39	3,809
2006	2,389	1,396	0.063	24	33	3,779
2007	2,293	1,465	0.113	44	58	3,745
2008	2,198	1,537	0.113	45	57	3,723
2009	2,103	1,613	0.069	27	33	3,710
2010	2,009	1,696	0.269	110	130	3,894
2011	1,913	1,784	0.233	96	115	3,870
2012	1,818	1,879	0.306	127	158	3,886
2013	1,723	1,979	0.367	151	199	3,667
2014	1,628	2,083	0.360	152	197	3,677
2015	1,533	2,191	0.364	160	191	3,884
2016	1,438	2,305	0.469	199	235	3,705
NOM	47,067	30,094	3.568	1,407	1,821	78,742
NPV	19,813	9,888	0.997	399	512	29,589

0059

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: DUCT95X - DUCT Residential

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	346	56	402	155	232	387	352	0
1996	736	122	858	329	510	839	1,185	0
1997	715	127	842	320	529	849	1,795	0
1998	690	132	822	308	551	860	1,892	0
1999	666	138	804	298	576	874	2,275	0
2000	643	144	786	288	603	890	2,172	0
2001	622	151	773	278	632	910	2,375	0
2002	601	158	759	269	661	929	2,498	0
2003	581	166	746	260	691	951	2,776	0
2004	561	173	734	251	722	972	3,042	0
2005	542	181	722	242	754	996	3,152	0
2006	522	189	711	233	789	1,023	3,311	0
2007	503	198	701	225	827	1,051	3,734	0
2008	483	208	691	216	867	1,083	3,870	0
2009	464	218	682	207	910	1,118	3,853	0
2010	444	229	674	199	957	1,155	4,348	0
2011	425	241	666	190	1,007	1,197	4,483	0
2012	405	254	659	181	1,060	1,241	4,679	0
2013	386	268	653	172	1,116	1,288	5,098	0
2014	366	282	648	164	1,175	1,339	5,375	0
2015	347	299	643	156	1,239	1,392	5,599	0
2016	330	312	641	147	1,301	1,448	5,974	0
NOM.	11,376	4,244	15,620	5,098	17,707	22,793	73,795	0
NPV	5,234	1,491	6,725	2,240	8,218	8,569	24,080	0

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

0080

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT95X - DUCT Residential

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	3,589	11,349	0	14,938	0	788	352	0	1,140	(13,798)	(12,633)
1996	0	4,168	13,215	0	17,381	0	1,899	1,185	0	2,882	(14,519)	(24,803)
1997	0	0	0	0	0	4,263	1,691	1,795	0	7,749	7,749	(18,856)
1998	0	0	0	0	0	4,199	1,882	1,892	0	7,773	7,773	(13,395)
1999	0	0	0	0	0	4,042	1,678	2,275	0	7,995	7,995	(9,251)
2000	0	0	0	0	0	4,053	1,679	2,172	0	7,903	7,903	(3,598)
2001	0	0	0	0	0	3,992	1,683	2,375	0	8,050	8,050	745
2002	0	0	0	0	0	3,939	1,686	2,486	0	8,125	8,125	4,756
2003	0	0	0	0	0	3,885	1,697	2,778	0	8,359	8,359	8,535
2004	0	0	0	0	0	3,833	1,708	3,042	0	8,582	8,582	12,087
2005	0	0	0	0	0	3,808	1,719	3,152	0	8,679	8,679	15,375
2006	0	0	0	0	0	3,779	1,734	3,311	0	8,824	8,824	18,436
2007	0	0	0	0	0	3,745	1,752	3,734	0	9,231	9,231	21,299
2008	0	0	0	0	0	3,722	1,774	3,870	0	9,366	9,366	24,083
2009	0	0	0	0	0	3,710	1,800	3,853	0	9,363	9,363	26,586
2010	0	6,809	22,046	0	28,714	3,684	1,829	4,348	0	9,861	(18,853)	21,990
2011	0	7,873	26,091	0	33,964	3,679	1,883	4,493	0	10,034	(23,930)	18,849
2012	0	0	0	0	0	3,686	1,900	4,679	0	10,245	10,245	16,742
2013	0	0	0	0	0	3,687	1,942	5,066	0	10,674	10,674	20,740
2014	0	0	0	0	0	3,677	1,987	5,375	0	11,039	11,039	22,830
2015	0	0	0	0	0	3,894	2,035	5,599	0	11,328	11,328	24,407
2016	0	0	0	0	0	3,705	2,089	5,974	0	11,768	11,768	26,087
NOM	0	22,298	72,701	0	94,997	78,742	38,413	73,795	0	188,950	93,953	
NPV	0	10,161	32,866	0	42,826	29,560	15,284	24,080	0	68,923	26,097	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 1.61

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT95X - DUCT Residential

PSC FORM CE 2.4
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	1,078	0	6,831	0	8,009	11,349	0	0	11,349	(3,340)	(3,056)
1996	3,450	0	7,796	0	11,246	13,215	0	0	13,215	(1,967)	(4,707)
1997	4,737	0	0	0	4,737	0	0	0	0	4,737	(1,071)
1998	4,812	0	0	0	4,812	0	0	0	0	4,812	2,310
1999	4,904	0	0	0	4,904	0	0	0	0	4,904	5,485
2000	5,021	0	0	0	5,021	0	0	0	0	5,021	8,422
2001	5,192	0	0	0	5,192	0	0	0	0	5,192	11,222
2002	5,386	0	0	0	5,386	0	0	0	0	5,386	13,671
2003	5,608	0	0	0	5,608	0	0	0	0	5,608	16,408
2004	5,754	0	0	0	5,754	0	0	0	0	5,754	18,788
2005	5,829	0	0	0	5,829	0	0	0	0	5,829	21,034
2006	6,123	0	0	0	6,123	0	0	0	0	6,123	23,159
2007	6,386	0	0	0	6,386	0	0	0	0	6,386	25,191
2008	6,600	0	0	0	6,600	0	0	0	0	6,600	27,110
2009	6,853	0	0	0	6,853	0	0	0	0	6,853	28,935
2010	7,046	0	6,831	0	13,878	22,048	0	0	22,048	(8,068)	26,866
2011	7,388	0	7,796	0	15,184	26,091	0	0	26,091	(10,927)	24,529
2012	7,881	0	0	0	7,881	0	0	0	0	7,881	26,095
2013	8,067	0	0	0	8,067	0	0	0	0	8,067	27,804
2014	8,444	0	0	0	8,444	0	0	0	0	8,044	29,051
2015	8,654	0	0	0	8,654	0	0	0	0	8,654	30,408
2016	9,079	0	0	0	9,079	0	0	0	0	9,079	31,711
NOM	134,139	0	28,458	0	163,597	72,701	0	0	72,701	90,896	
NPV	48,064	0	16,312	0	64,377	32,666	0	0	32,666	31,711	

In Service of Gen Unit: 1997

Discount Rate : 8.22

Benefit/Cost Ratio (Col(6) / Col(10)) 1.97

2900

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT95X - DUCT Residential

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PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	3,569	6,831	857	0	11,177	352	786	0	0	1,140	(10,037)	(9,190)
1996	0	4,166	7,796	2,105	0	14,066	1,185	1,696	0	0	2,732	(11,207)	(18,584)
1997	0	0	0	2,889	0	2,889	6,058	1,691	0	0	7,749	4,859	(14,854)
1998	0	0	0	2,935	0	2,935	6,091	1,682	0	0	7,773	4,837	(11,458)
1999	0	0	0	2,991	0	2,991	6,317	1,679	0	0	7,995	5,004	(8,238)
2000	0	0	0	3,063	0	3,063	6,225	1,679	0	0	7,903	4,841	(5,385)
2001	0	0	0	3,167	0	3,167	6,367	1,683	0	0	8,050	4,882	(2,752)
2002	0	0	0	3,273	0	3,273	6,437	1,688	0	0	8,125	4,852	(357)
2003	0	0	0	3,421	0	3,421	6,882	1,687	0	0	8,569	4,938	1,875
2004	0	0	0	3,510	0	3,510	6,875	1,708	0	0	8,582	5,071	3,874
2005	0	0	0	3,616	0	3,616	6,990	1,719	0	0	8,709	5,092	5,883
2006	0	0	0	3,736	0	3,736	7,090	1,734	0	0	8,824	5,088	7,888
2007	0	0	0	3,903	0	3,903	7,479	1,752	0	0	9,231	5,328	9,350
2008	0	0	0	4,029	0	4,029	7,594	1,774	0	0	9,368	5,342	10,904
2009	0	0	0	4,180	0	4,180	7,883	1,800	0	0	9,283	5,103	12,284
2010	0	6,669	6,831	4,288	0	17,888	8,002	1,829	0	0	9,831	(8,057)	10,325
2011	0	7,872	7,796	4,493	0	20,164	8,171	1,883	0	0	10,054	(10,130)	8,084
2012	0	0	0	4,673	0	4,673	8,344	1,900	0	0	10,245	5,572	9,302
2013	0	0	0	4,821	0	4,821	8,732	1,942	0	0	10,674	5,753	10,279
2014	0	0	0	5,151	0	5,151	8,957	1,987	0	0	11,039	5,888	11,287
2015	0	0	0	5,279	0	5,279	9,293	2,035	0	0	11,328	6,049	12,239
2016	0	0	0	5,537	0	5,537	9,679	2,099	0	0	11,788	6,251	13,131
NOM.	0	22,299	29,458	61,825	0	133,579	180,536	38,413	0	0	188,950	55,371	
NPV	0	10,161	16,312	29,319	0	55,792	83,639	15,264	0	0	98,923	13,131	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) : 1.24

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM	
	RSC-5A	RSC-5B
(1) UTILITY NON RECURRING COST PER CUSTOMER	$95	$95
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$330	$330
(6) CUSTOMER O&M COST	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$215	$210
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0 %	*

* Values apply to first year only.

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: DUCT01R- DUCT Residential

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.39	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.52	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	583.4	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.65600	
(5) K FACTOR FOR T & D	1.66867	

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	9.22	%
* (11) UTILITY AFUDC RATE	10.02	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	558	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.80	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	9.34	%**

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 12

0065

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: DUCT01R- DUCT Residential

PSC FORM GE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	74,517	3,279	566	4,292	2,961	1,186	2,460	185	14,969	14,969	14,969
2002	71,385	3,141	543	4,112	1,895	1,186	2,460	1,159	14,496	13,274	28,243
2003	67,842	2,985	516	3,908	1,902	1,186	2,460	1,007	13,966	11,707	39,950
2004	64,444	2,836	490	3,712	1,903	1,186	2,460	867	13,456	10,327	50,277
2005	61,183	2,692	465	3,524	1,902	1,186	2,460	735	12,967	9,111	59,389
2006	58,048	2,554	441	3,344	1,904	1,186	2,460	614	12,496	8,039	67,428
2007	55,029	2,421	418	3,170	1,880	1,186	2,460	505	12,042	7,093	74,521
2008	52,115	2,293	396	3,002	1,865	1,186	2,460	401	11,605	6,258	80,779
2009	49,282	2,168	374	2,837	1,795	1,186	2,460	304	11,177	5,518	86,297
2010	46,418	2,042	353	2,674	1,648	1,186	2,460	304	10,750	4,859	91,157
2011	43,573	1,917	331	2,510	1,532	1,186	2,460	304	10,323	4,272	95,429
2012	40,729	1,792	310	2,346	1,415	1,186	2,460	304	9,889	3,750	99,179
2013	37,885	1,667	288	2,182	1,299	1,186	2,460	304	9,466	3,285	102,464
2014	35,040	1,542	266	2,018	1,182	1,186	2,460	304	9,041	2,872	105,336
2015	32,196	1,417	245	1,854	1,066	1,186	2,460	304	8,614	2,505	107,841
2016	29,352	1,291	223	1,691	949	1,186	2,460	304	8,187	2,180	110,021
2017	26,507	1,166	201	1,527	833	1,186	2,460	304	7,760	1,892	111,913
2018	23,663	1,041	180	1,362	716	1,186	2,460	304	7,333	1,637	113,549
2019	20,819	916	158	1,199	600	1,186	2,460	304	6,908	1,411	114,961
2020	17,974	791	137	1,035	483	1,186	2,460	304	6,479	1,212	116,173
2021	15,440	679	117	889	1,000	1,186	2,460	(237)	6,089	1,045	117,217
2022	13,532	595	103	779	1,554	1,186	2,460	(998)	5,812	912	118,129
2023	11,940	525	91	688	1,489	1,186	2,460	(998)	5,573	800	118,929
2024	10,348	455	79	596	1,424	1,186	2,460	(998)	5,334	701	119,630
2025	8,756	385	67	504	1,358	1,186	2,460	(998)	5,095	613	120,244
2026	7,164	315	54	413	1,293	1,186	2,460	(998)	4,856	535	120,779
2027	5,572	245	42	321	1,228	1,186	2,460	(998)	4,617	466	121,244
2028	3,980	175	30	229	1,163	1,186	2,460	(998)	4,378	404	121,649
2029	2,388	105	18	138	1,098	1,186	2,460	(998)	4,139	350	121,999
2030	796	35	6	46	1,032	1,186	2,460	(998)	3,900	302	122,301

IN SERVICE COST ($000)	73,613
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65690

0087

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME DUCT01R- DUCT /residential

PSC FORM CE 1.1A
PAGE 2a OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) ACCUMULATED TAX DEPRECIATION $(000)	(5) BOOK DEPRECIATION $(000)	(6) ACCUMULATED BOOK DEPRECIATION $(000)	(7) BOOK DEPRECIATION FOR DEFERRED TAX $(000)	(8) ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	(9) DEFERRED TAX DUE TO DEPRECIATION $(000)	(10) TOTAL EQUITY AFUDC $(000)	(11) BOOK DEPR RATE MINUS 1/LIFE	(12) (10)*(11) *TAX RATE $(000)	(13) SALVAGE *TAX RATE $(000)	(14) ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)
2001	3.75%	2,720	2,720	2,460	2,460	2,251	2,251	185	6,278	0	0	0	185
2002	7.22%	5,255	7,985	2,460	4,921	2,251	4,502	1,159	6,278	0	0	0	1,159
2003	6.68%	4,862	12,847	2,460	7,381	2,251	6,754	1,007	6,278	0	0	0	1,007
2004	6.18%	4,498	17,346	2,460	9,842	2,251	9,005	867	6,278	0	0	0	867
2005	5.71%	4,158	21,502	2,460	12,302	2,251	11,256	725	6,278	0	0	0	725
2006	5.28%	3,843	25,345	2,460	14,763	2,251	13,507	614	6,278	0	0	0	614
2007	4.89%	3,550	28,894	2,460	17,223	2,251	15,758	505	6,278	0	0	0	505
2008	4.52%	3,290	32,184	2,460	19,684	2,251	18,009	401	6,278	0	0	0	401
2009	4.46%	3,248	35,441	2,460	22,144	2,251	20,261	384	6,278	0	0	0	384
2010	4.46%	3,248	38,687	2,460	24,604	2,251	22,512	384	6,278	0	0	0	384
2011	4.46%	3,248	41,933	2,460	27,065	2,251	24,763	384	6,278	0	0	0	384
2012	4.46%	3,248	45,180	2,460	29,525	2,251	27,014	384	6,278	0	0	0	384
2013	4.46%	3,248	48,428	2,460	31,986	2,251	29,265	384	6,278	0	0	0	384
2014	4.46%	3,248	51,673	2,460	34,446	2,251	31,516	384	6,278	0	0	0	384
2015	4.46%	3,248	54,919	2,460	36,907	2,251	33,768	384	6,278	0	0	0	384
2016	4.46%	3,248	58,165	2,460	39,367	2,251	36,019	384	6,278	0	0	0	384
2017	4.46%	3,248	61,412	2,460	41,827	2,251	38,270	384	6,278	0	0	0	384
2018	4.46%	3,248	64,658	2,460	44,288	2,251	40,521	384	6,278	0	0	0	384
2019	4.46%	3,248	67,904	2,460	46,748	2,251	42,772	384	6,278	0	0	0	384
2020	4.46%	3,248	71,151	2,460	49,209	2,251	45,022	384	6,278	0	0	0	384
2021	4.46%	3,248	74,397	2,460	51,669	2,251	47,275	384	6,278	0	0	0	384
2022	2.25%	1,639	76,036	2,460	54,130	2,251	49,526	(237)	6,278	0	0	0	(237)
2023	0.00%	0	76,036	2,460	56,590	2,251	51,777	(868)	6,278	0	0	0	(868)
2024	0.00%	0	76,036	2,460	59,051	2,251	54,028	(868)	6,278	0	0	0	(868)
2025	0.00%	0	76,036	2,460	61,511	2,251	56,279	(868)	6,278	0	0	0	(868)
2026	0.00%	0	76,036	2,460	63,971	2,251	58,530	(868)	6,278	0	0	0	(868)
2027	0.00%	0	76,036	2,460	66,432	2,251	60,782	(868)	6,278	0	0	0	(868)
2028	0.00%	0	76,036	2,460	68,892	2,251	63,033	(868)	6,278	0	0	0	(868)
2029	0.00%	0	76,036	2,460	71,353	2,251	65,284	(868)	6,278	0	0	0	(868)
2030	0.00%	0	76,036	2,460	73,813	2,251	67,535	(868)	6,278	0	0	0	(868)

SALVAGE / REMOVAL COST	
	0.00
YEAR SALVAGE / COST OF REMOVAL	
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	2025
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	(2,027)
BOOK DEPR RATE - 1/USEFUL LIFE	6.278
	0.00

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME DUCT01R- DUCT Residential

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2001	3.75%	2,730	185	71,353	2,460	(1,842)	75,840	73,195	74,517
2002	7.22%	5,255	1,159	66,892	4,921	(683)	73,195	69,575	71,385
2003	6.68%	4,862	1,007	66,432	7,381	324	69,575	66,108	67,842
2004	6.18%	4,498	867	63,971	9,842	1,191	66,108	62,790	64,444
2005	5.71%	4,156	735	61,511	12,302	1,926	62,790	59,585	61,183
2006	5.29%	3,843	614	59,051	14,763	2,540	59,585	56,511	58,048
2007	4.89%	3,559	505	56,590	17,223	3,045	56,511	53,545	55,028
2008	4.52%	3,290	401	54,130	19,684	3,445	53,545	50,664	52,115
2009	4.46%	3,246	304	51,669	22,144	3,829	50,664	47,840	49,252
2010	4.46%	3,246	304	49,209	24,604	4,213	47,840	44,999	46,418
2011	4.46%	3,246	304	46,748	27,065	4,597	44,999	42,151	43,573
2012	4.46%	3,246	304	44,288	29,525	4,981	42,151	39,307	40,729
2013	4.46%	3,246	304	41,827	31,986	5,365	39,307	36,463	37,885
2014	4.46%	3,246	304	39,367	34,446	5,749	36,463	33,618	35,040
2015	4.46%	3,246	304	36,907	36,907	6,133	33,618	30,774	32,196
2016	4.46%	3,246	304	34,446	39,367	6,517	30,774	27,930	29,352
2017	4.46%	3,246	304	31,986	41,827	6,900	27,930	25,085	26,507
2018	4.46%	3,246	304	29,525	44,288	7,284	25,085	22,241	23,663
2019	4.46%	3,246	304	27,065	46,748	7,668	22,241	19,397	20,819
2020	4.46%	3,246	304	24,604	49,209	8,052	19,397	16,552	17,974
2021	2.29%	1,638	(237)	22,144	51,669	7,815	16,552	14,339	15,446
2022	0.00%	0	(868)	19,684	54,130	6,947	14,339	12,739	13,532
2023	0.00%	0	(868)	17,223	56,590	6,079	12,739	11,144	11,940
2024	0.00%	0	(868)	14,763	59,051	5,210	11,144	9,552	10,349
2025	0.00%	0	(868)	12,302	61,511	4,342	9,552	7,960	8,756
2026	0.00%	0	(868)	9,842	63,971	3,474	7,960	6,368	7,164
2027	0.00%	0	(868)	7,381	66,432	2,605	6,368	4,776	5,572
2028	0.00%	0	(868)	4,921	68,892	1,737	4,776	3,184	3,980
2029	0.00%	0	(868)	2,460	71,353	868	3,184	1,592	2,388
2030	0.00%	0	(868)	0	73,813	0	1,592	0	796

* Column not specified in workbook

6900

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($AW)	(7) CUMULATIVE AVERAGE SPENDING ($AW)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.60%	1.026	0.00%	0.00	0.00
1996	-5	2.63%	1.053	0.94%	4.82	2.46
1997	-4	3.15%	1.086	1.86%	10.03	6.83
1998	-3	3.62%	1.126	13.00%	61.35	55.62
1999	-2	3.85%	1.169	60.50%	393.17	292.88
2000	-1	3.88%	1.214	24.00%	162.01	570.47
				100.00%	651.48	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($AW)	(8a)* DEBT AFUDC ($AW)	(8b)* CUMULATIVE DEBT AFUDC ($AW)	(9) YEARLY TOTAL AFUDC ($AW)	(9a)* CUMULATIVE TOTAL AFUDC ($AW)	(9b)* CONSTRUCTION PERIOD INTEREST ($AW)	(9c)* CUMULATIVE CPI ($AW)	(9d)* DEFERRED TAXES ($AW)	(9e)* CUMULATIVE DEFERRED TAXES ($AW)	(10) INCREMENTA YEAR-END BOOK VALUE ($AW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($AW)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.46	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.20	0.45	0.56	1.12	1.39	1.02	1.28	(0.22)	(0.27)	11.11	16.30
1998	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.96	(1.22)	(1.49)	87.61	103.94
1999	-2	300.52	13.29	16.37	32.98	40.62	29.90	36.84	(6.44)	(7.93)	426.15	530.09
2000	-1	611.10	27.24	43.61	67.60	108.22	60.74	97.58	(12.92)	(20.86)	229.81	759.70
			43.61	63.72	108.22		97.68		(20.86)		759.70	

IN SERVICE YEA	2001
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	63,298	63,298	63,298
EQUITY AFUDC	6,278		
DEBT AFUDC	4,237	4,237	
CPI			9,490
TOTAL	73,813	67,535	72,788

* Column not specified in workbook

0170

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME DUCT01R- DUCT Residential

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.18	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.69	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.90	1.92	0.00	1.00	1.00
1997	41,358	41,358	0.00	4.43	2.03	0.00	1.00	1.00
1998	89,809	89,809	0.00	4.66	2.04	0.00	1.00	1.00
1999	137,660	137,660	0.00	5.01	2.19	0.00	1.00	1.00
2000	186,111	186,111	0.00	5.35	2.43	0.00	1.00	1.00
2001	186,111	186,111	0.00	5.85	2.52	5.01	1.00	1.00
2002	186,111	186,111	0.00	6.18	2.59	5.43	1.00	1.00
2003	186,111	186,111	0.00	6.84	2.77	5.37	1.00	1.00
2004	186,111	186,111	0.00	7.50	2.84	5.95	1.00	1.00
2005	186,111	186,111	0.00	7.77	3.14	5.89	1.00	1.00
2006	186,111	186,111	0.00	8.16	3.30	6.32	1.00	1.00
2007	186,111	186,111	0.00	8.21	3.57	6.85	1.00	1.00
2008	186,111	186,111	0.00	8.54	3.81	7.04	1.00	1.00
2009	186,111	186,111	0.00	8.50	3.92	7.57	1.00	1.00
2010	186,111	186,111	0.00	10.72	4.18	8.37	1.00	1.00
2011	186,111	186,111	0.00	11.08	4.14	8.53	1.00	1.00
2012	186,111	186,111	0.00	11.54	4.53	8.98	1.00	1.00
2013	186,111	186,111	0.00	12.49	4.62	9.57	1.00	1.00
2014	186,111	186,111	0.00	13.25	4.88	10.14	1.00	1.00
2015	186,111	186,111	0.00	13.80	5.18	10.51	1.00	1.00
2016	186,111	186,111	0.00	14.73	5.39	11.12	1.00	1.00
2017	186,111	186,111	0.00	15.55	5.66	11.72	1.00	1.00
2018	186,111	186,111	0.00	15.56	5.95	12.38	1.00	1.00
2019	186,111	186,111	0.00	16.51	6.25	13.06	1.00	1.00
2020	186,111	186,111	0.00	17.53	6.57	13.77	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 DUCT01R- DUCT Residential

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	14,099	2,691	105,245	14,450	22,092	10,113
2002	14,486	2,805	114,601	16,379	24,927	8,890
2003	13,898	2,934	121,045	17,957	24,890	10,089
2004	13,458	3,083	127,408	19,839	27,796	8,484
2005	12,987	3,201	124,483	18,101	25,726	10,066
2006	12,486	3,351	114,438	16,048	24,238	8,771
2007	12,042	3,508	101,287	16,299	21,577	10,371
2008	11,805	3,680	94,639	15,579	20,377	10,562
2009	11,177	3,864	105,290	17,519	23,167	9,469
2010	10,750	4,082	110,313	18,488	25,528	7,880
2011	10,323	4,273	81,587	13,840	18,293	10,224
2012	9,899	4,499	66,303	11,299	14,871	10,887
2013	9,488	4,735	67,283	11,525	15,266	10,533
2014	9,041	4,969	73,405	12,591	16,767	9,827
2015	8,614	5,248	85,813	14,766	19,304	9,412
2016	8,187	5,521	82,036	14,066	18,569	9,309
2017	7,760	5,808	83,110	14,223	18,863	9,011
2018	7,333	6,110	86,417	14,740	19,666	8,804
2019	6,906	6,428	83,676	15,016	21,375	7,999
2020	6,479	6,762	98,442	16,673	22,523	7,490
NOM	211,934	87,524	1937,000	313,511	425,797	189,110
NPV	82,649	29,123	546,072	85,782	118,315	50,795

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AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: DUCT01R- DUCT Residential

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	466	77	543	208	320	529	543	0
1998	1,014	173	1,187	453	723	1,176	1,813	0
1999	1,583	279	1,841	699	1,162	1,861	3,785	0
2000	2,113	393	2,507	945	1,841	2,586	5,147	0
2001	2,046	412	2,458	915	1,720	2,635	6,465	0
2002	1,976	431	2,407	883	1,799	2,682	6,801	0
2003	1,908	451	2,359	853	1,882	2,735	7,558	0
2004	1,843	471	2,314	824	1,865	2,789	8,282	0
2005	1,781	492	2,273	798	2,053	2,850	8,582	0
2006	1,721	515	2,237	770	2,150	2,919	9,015	0
2007	1,663	539	2,202	744	2,251	2,994	10,167	0
2008	1,605	566	2,171	718	2,381	3,079	10,539	0
2009	1,548	594	2,142	692	2,479	3,171	10,491	0
2010	1,490	624	2,115	666	2,605	3,272	11,838	0
2011	1,432	657	2,089	640	2,741	3,381	12,233	0
2012	1,375	692	2,067	615	2,866	3,501	12,740	0
2013	1,317	729	2,046	589	3,039	3,628	13,792	0
2014	1,260	767	2,027	563	3,200	3,763	14,635	0
2015	1,202	807	2,009	537	3,366	3,904	15,245	0
2016	1,144	848	1,993	512	3,542	4,053	16,284	0
2017	1,087	893	1,980	488	3,726	4,212	17,176	0
2018	1,032	939	1,972	462	3,919	4,381	17,176	0
2019	984	988	1,973	440	4,123	4,563	16,234	0
2020	944	1,040	1,984	422	4,338	4,760	19,357	0
NOM	34,516	14,379	48,895	15,432	59,990	75,423	257,877	0
NPV	11,954	3,886	15,839	5,344	15,376	20,721	82,834	0

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

0073

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: DUCT01R- DUCT Residential

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	4,827	15,677	0	20,503	0	1,071	643	0	1,814	(18,989)	(14,574)
1998	0	5,999	19,058	0	25,026	0	2,383	1,813	0	4,176	(20,850)	(29,224)
1999	0	6,216	19,915	0	26,131	0	3,702	3,785	0	7,487	(18,644)	(41,218)
2000	0	6,479	20,831	0	27,311	0	5,003	5,147	0	10,240	(17,071)	(51,273)
2001	0	0	0	0	0	10,113	5,094	6,465	0	21,672	21,672	(38,588)
2002	0	0	0	0	0	8,880	5,089	6,801	0	20,781	20,781	(29,326)
2003	0	0	0	0	0	10,089	5,094	7,558	0	22,741	22,741	(19,046)
2004	0	0	0	0	0	9,484	5,103	6,382	0	21,869	21,869	(8,895)
2005	0	0	0	0	0	10,086	5,123	8,582	0	23,772	23,772	(887)
2006	0	0	0	0	0	8,771	5,156	8,015	0	23,941	23,941	7,318
2007	0	0	0	0	0	10,371	5,187	10,167	0	25,734	25,734	18,489
2008	0	0	0	0	0	10,562	5,250	10,538	0	26,389	26,389	33,181
2009	0	0	0	0	0	9,499	5,313	10,491	0	25,302	25,302	39,898
2010	0	0	0	0	0	7,880	5,386	11,838	0	25,104	25,104	38,018
2011	0	0	0	0	0	10,224	5,471	12,233	0	27,927	27,927	42,251
2012	0	9,453	31,399	0	40,852	10,887	5,567	12,740	0	29,194	(11,658)	30,899
2013	0	11,587	38,574	0	50,161	10,533	5,674	13,782	0	29,988	(20,182)	36,087
2014	0	12,178	40,818	0	52,793	9,827	5,790	14,835	0	30,352	(22,441)	32,253
2015	0	12,784	42,730	0	55,514	9,412	5,913	15,245	0	30,570	(24,944)	28,341
2016	0	0	0	0	0	9,309	6,047	16,264	0	31,620	31,620	32,881
2017	0	0	0	0	0	9,011	6,191	17,178	0	32,379	32,379	4,257
2018	0	0	0	0	0	8,804	6,353	17,178	0	32,133	32,133	3,668
2019	0	0	0	0	0	7,969	6,536	18,234	0	32,738	32,738	3,808
2020	0	0	0	0	0	7,490	6,743	19,357	0	33,590	33,590	3,389
NOM	0	86,589	228,801	0	298,390	189,110	124,318	257,877	0	571,304	272,914	
NPV	0	23,980	77,796	0	101,776	50,785	36,360	62,634	0	149,779	48,002	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 1.47

(1074)

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT01R- DUCT Residential

PSC FORM CE 2.4
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	1,433	0	8,912	0	10,345	15,677	0	0	15,677	(5,332)	(4,092)
1998	4,810	0	10,397	0	15,007	19,058	0	0	19,058	(4,050)	(6,936)
1999	8,158	0	10,397	0	18,556	19,915	0	0	19,915	(1,359)	(7,813)
2000	11,898	0	10,397	0	22,295	20,831	0	0	20,831	1,464	(6,950)
2001	14,138	0	0	0	14,138	0	0	0	0	14,138	674
2002	14,808	0	0	0	14,808	0	0	0	0	14,808	7,886
2003	15,270	0	0	0	15,270	0	0	0	0	15,270	14,788
2004	15,667	0	0	0	15,667	0	0	0	0	15,667	21,273
2005	16,141	0	0	0	16,141	0	0	0	0	16,141	27,380
2006	16,672	0	0	0	16,672	0	0	0	0	16,672	33,174
2007	17,420	0	0	0	17,420	0	0	0	0	17,420	38,707
2008	17,970	0	0	0	17,970	0	0	0	0	17,970	43,933
2009	18,659	0	0	0	18,659	0	0	0	0	18,659	48,901
2010	19,185	0	0	0	19,185	0	0	0	0	19,185	53,579
2011	20,055	0	0	0	20,055	0	0	0	0	20,055	58,054
2012	20,858	0	8,912	0	29,770	31,389	0	0	31,389	(1,620)	57,722
2013	21,984	0	10,397	0	32,381	38,574	0	0	38,574	(6,213)	56,559
2014	22,991	0	10,397	0	33,388	40,618	0	0	40,618	(7,230)	55,321
2015	23,582	0	10,397	0	33,959	42,730	0	0	42,730	(8,772)	53,945
2016	24,712	0	0	0	24,712	0	0	0	0	24,712	57,493
2017	25,772	0	0	0	25,772	0	0	0	0	25,772	3,388
2018	26,874	0	0	0	26,874	0	0	0	0	26,874	3,235
2019	27,841	0	0	0	27,841	0	0	0	0	27,841	3,048
2020	28,881	0	0	0	28,881	0	0	0	0	28,881	2,914
NOM	435,141	0	80,205	0	515,346	228,801	0	0	228,801	286,545	
NPV	113,737	0	34,136	0	147,872	77,799	0	0	77,799	70,076	

In Service of Gen Unit:	2001
Discount Rate :	9.22
Benefit/Cost Ratio (Col(6) / Col(10))	1.90

0075

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT01R- DUCT Residential

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	4,827	8,912	874	0	14,712	543	1,071	0	0	1,614	(13,098)	(10,053)
1998	0	5,968	10,367	2,812	0	19,178	1,813	2,363	0	0	4,176	(15,002)	(20,594)
1999	0	6,216	10,367	4,877	0	21,580	3,785	3,702	0	0	7,487	(14,102)	(28,668)
2000	0	6,479	10,367	7,258	0	24,134	5,147	5,093	0	0	10,240	(13,895)	(37,851)
2001	0	0	0	8,624	0	8,624	16,578	5,094	0	0	21,672	13,048	(30,814)
2002	0	0	0	8,911	0	8,911	15,891	5,089	0	0	20,781	11,869	(24,954)
2003	0	0	0	9,315	0	9,315	17,847	5,094	0	0	22,741	13,427	(18,884)
2004	0	0	0	9,557	0	9,557	16,769	5,103	0	0	21,888	12,312	(13,789)
2005	0	0	0	8,848	0	8,848	18,649	5,123	0	0	23,772	13,925	(8,512)
2006	0	0	0	10,170	0	10,170	18,785	5,156	0	0	23,941	13,771	(3,734)
2007	0	0	0	10,628	0	10,628	20,537	5,197	0	0	25,734	15,106	1,084
2008	0	0	0	10,881	0	10,881	21,119	5,250	0	0	26,369	15,488	5,545
2009	0	0	0	11,382	0	11,382	19,990	5,313	0	0	25,302	13,920	9,252
2010	0	0	0	11,703	0	11,703	19,718	5,388	0	0	25,104	13,401	12,519
2011	0	0	0	12,234	0	12,234	22,457	5,471	0	0	27,927	15,694	16,021
2012	0	8,453	8,912	12,724	0	31,088	23,026	5,567	0	0	28,194	(1,894)	15,634
2013	0	11,507	10,367	13,398	0	35,362	24,325	5,674	0	0	29,999	(5,363)	14,627
2014	0	12,176	10,367	14,024	0	36,567	24,662	5,790	0	0	30,352	(6,245)	13,558
2015	0	12,784	10,367	14,373	0	37,563	24,957	5,913	0	0	30,870	(6,963)	12,462
2016	0	0	0	15,074	0	15,074	25,574	6,047	0	0	31,620	16,546	14,636
2017	0	0	0	15,721	0	15,721	26,187	6,191	0	0	32,379	16,658	2,190
2018	0	0	0	16,393	0	16,393	25,780	6,353	0	0	32,133	15,740	1,894
2019	0	0	0	16,881	0	16,881	26,202	6,536	0	0	32,738	15,878	1,750
2020	0	0	0	17,618	0	17,618	26,847	6,743	0	0	33,590	15,972	1,612
NOM	0	88,589	80,205	265,436	0	415,230	446,566	124,318	0	0	571,304	156,074	
NPV	0	23,980	74,136	80,379	0	127,495	113,419	36,360	0	0	149,779	22,284	

Discount Rate	9.22
Benefit/Cost Ratio (Col(12) / Col(7))	1.17

0176

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: DUCT SYSTEM TESTING AND REPAIR (1997 - 2000)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM	
	RSC-5A	RSC-5B
(1) UTILITY NON RECURRING COST PER CUSTOMER	$95	$95
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$330	$330
(6) CUSTOMER O&M COST	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$215	$218
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

0077

INPUT DATA – PART I CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME DUCT04R - DUCT - Residential

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PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.39	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.52	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMEF	583.4	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	29	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.05688	
(5) K FACTOR FOR T & D	1.06867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOME	—	$/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	8.22	%
* (11) UTILITY AFUDC RATE	10.82	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	—	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	—	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	—	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2004	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2003	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	55%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	4.20	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

V. NON-FUEL ENERGY AND DEMAND CHARGES

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

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* 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 12
— ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT04R - DUCT - Residential

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2002	4,205	6,460	0	10,665	695	0	13,565	0	0	13,565
2003	4,384	6,460	0	10,845	2,153	0	14,189	0	0	14,189
2004	4,572	6,460	0	11,033	3,751	0	14,842	0	0	14,842
2005	0	0	0	0	4,619	0	0	0	0	0
2006	0	0	0	0	4,758	0	0	0	0	0
2007	0	0	0	0	4,915	0	0	0	0	0
2008	0	0	0	0	5,135	0	0	0	0	0
2009	0	0	0	0	5,297	0	0	0	0	0
2010	0	0	0	0	5,501	0	0	0	0	0
2011	0	0	0	0	5,658	0	0	0	0	0
2012	0	0	0	0	5,912	0	0	0	0	0
2013	0	0	0	0	6,140	0	0	0	0	0
2014	0	0	0	0	6,475	0	0	0	0	0
2015	0	0	0	0	6,770	0	0	0	0	0
2016	8,341	6,460	0	14,801	6,948	0	0	0	0	0
2017	8,759	6,460	0	15,219	7,285	0	0	0	0	0
2018	9,199	6,460	0	15,659	7,588	0	27,931	0	0	27,931
2019	0	0	0	0	7,823	0	29,384	0	0	29,384
2020	0	0	0	0	8,148	0	30,912	0	0	30,912
2021	0	0	0	0	8,514	0	0	0	0	0
2022	0	0	0	0	8,898	0	0	0	0	0
					9,300	0	0	0	0	0
NOM	39,460	38,762	0	78,221	132,406	0	130,822	0	0	130,822
NPV	8,958	12,148	0	22,104	26,970	0	32,624	0	0	32,624

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME DUCT04R - DUCT - Residential

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	40,383	1,777	307	2,326	1,625	844	1,333	100	8,112	8,112	8,112
2005	38,689	1,702	294	2,228	1,027	844	1,333	628	7,857	7,184	15,308
2006	36,798	1,618	279	2,118	1,031	844	1,333	548	7,539	6,345	21,650
2007	34,824	1,537	265	2,012	1,031	844	1,333	470	7,292	5,597	27,247
2008	33,157	1,459	252	1,910	1,031	844	1,333	398	7,027	4,938	32,185
2009	31,458	1,384	239	1,812	1,029	844	1,333	333	6,772	4,357	36,541
2010	29,821	1,312	227	1,718	1,019	844	1,333	273	6,529	3,844	40,385
2011	28,243	1,243	215	1,627	1,010	844	1,333	217	6,289	3,392	43,777
2012	26,667	1,175	203	1,538	958	844	1,333	208	6,057	2,991	46,767
2013	25,155	1,107	191	1,449	893	844	1,333	208	5,828	2,633	49,401
2014	23,614	1,039	179	1,360	830	844	1,333	208	5,594	2,315	51,716
2015	22,072	971	168	1,271	767	844	1,333	208	5,363	2,032	53,748
2016	20,531	903	156	1,183	704	844	1,333	208	5,131	1,780	55,528
2017	18,990	836	144	1,094	641	844	1,333	208	4,900	1,559	57,085
2018	17,448	768	133	1,005	578	844	1,333	208	4,668	1,358	58,442
2019	15,907	700	121	916	514	844	1,333	208	4,437	1,181	59,624
2020	14,365	632	109	827	451	844	1,333	208	4,206	1,025	60,649
2021	12,824	564	97	739	388	844	1,333	208	3,974	887	61,536
2022	11,282	496	86	650	325	844	1,333	208	3,743	765	62,301
2023	9,741	429	74	561	262	844	1,333	208	3,511	657	62,958
2024	8,200	361	64	482	542	844	1,333	(128)	3,305	566	63,524
2025	7,334	323	56	422	842	844	1,333	(471)	3,150	494	64,018
2026	6,471	285	49	373	807	844	1,333	(471)	3,020	434	64,452
2027	5,608	247	43	323	771	844	1,333	(471)	2,891	380	64,832
2028	4,745	209	36	273	736	844	1,333	(471)	2,761	332	65,164
2029	3,882	171	30	224	701	844	1,333	(471)	2,632	290	65,454
2030	3,020	133	23	174	665	844	1,333	(471)	2,502	252	65,706
2031	2,157	95	16	124	630	844	1,333	(471)	2,372	219	65,925
2032	1,294	57	10	75	595	844	1,333	(471)	2,243	190	66,115
2033	431	19	3	25	559	844	1,333	(471)	2,113	164	66,279

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65688

0160

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME DUCT04R - DUCT - Residential

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) ACCUMULATED TAX DEPRECIATION $(000)	(5) BOOK DEPRECIATION $(000)	(6) ACCUMULATED BOOK DEPRECIATION $(000)	(7) BOOK DEPRECIATION FOR DEFERRED TAX $(000)	(8) ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	(9) DEFERRED TAX DUE TO DEPRECIATION $(000)	(10) TOTAL EQUITY AFUDC $(000)	(11) BOOK DEPR RATE MINUS 1/LIFE	(12) (10)*(11) *TAX RATE $(000)	(13) SALVAGE *TAX RATE $(000)	(14) ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)
2004	3.75%	1,479	1,479	1,333	1,333	1,220	1,220	100	3,401	0	0	0	100
2005	7.22%	2,848	4,327	1,333	2,667	1,220	2,440	628	3,401	0	0	0	628
2006	6.68%	2,635	6,962	1,333	4,000	1,220	3,660	548	3,401	0	0	0	548
2007	6.18%	2,438	9,400	1,333	5,334	1,220	4,880	470	3,401	0	0	0	470
2008	5.71%	2,252	11,653	1,333	6,667	1,220	6,100	388	3,401	0	0	0	388
2009	5.29%	2,083	13,736	1,333	8,000	1,220	7,320	333	3,401	0	0	0	333
2010	4.89%	1,928	15,664	1,333	9,334	1,220	8,540	273	3,401	0	0	0	273
2011	4.52%	1,783	17,447	1,333	10,667	1,220	9,760	217	3,401	0	0	0	217
2012	4.46%	1,750	19,207	1,333	12,001	1,220	10,980	208	3,401	0	0	0	208
2013	4.46%	1,750	20,958	1,333	13,334	1,220	12,200	208	3,401	0	0	0	208
2014	4.46%	1,750	22,708	1,333	14,667	1,220	13,420	208	3,401	0	0	0	208
2015	4.46%	1,750	24,458	1,333	16,001	1,220	14,640	208	3,401	0	0	0	208
2016	4.46%	1,750	26,208	1,333	17,334	1,220	15,860	208	3,401	0	0	0	208
2017	4.46%	1,750	27,958	1,333	18,668	1,220	17,081	208	3,401	0	0	0	208
2018	4.46%	1,750	29,708	1,333	20,001	1,220	18,301	208	3,401	0	0	0	208
2019	4.46%	1,750	31,522	1,333	21,334	1,220	18,521	208	3,401	0	0	0	208
2020	4.46%	1,750	33,292	1,333	22,668	1,220	20,741	208	3,401	0	0	0	208
2021	4.46%	1,750	35,041	1,333	24,001	1,220	21,961	208	3,401	0	0	0	208
2022	4.46%	1,750	36,800	1,333	25,335	1,220	23,181	208	3,401	0	0	0	208
2023	4.46%	1,750	38,550	1,333	26,668	1,220	24,401	208	3,401	0	0	0	208
2024	2.25%	888	39,447	1,333	28,002	1,220	25,621	208	3,401	0	0	0	208
2025	0.00%	0	39,447	1,333	29,335	1,220	26,841	(128)	3,401	0	0	0	(128)
2026	0.00%	0	39,447	1,333	30,668	1,220	28,061	(471)	3,401	0	0	0	(471)
2027	0.00%	0	39,447	1,333	32,002	1,220	29,281	(471)	3,401	0	0	0	(471)
2028	0.00%	0	39,447	1,333	33,335	1,220	30,501	(471)	3,401	0	0	0	(471)
2029	0.00%	0	39,447	1,333	34,669	1,220	31,721	(471)	3,401	0	0	0	(471)
2030	0.00%	0	39,447	1,333	36,002	1,220	32,941	(471)	3,401	0	0	0	(471)
2031	0.00%	0	39,447	1,333	37,336	1,220	34,161	(471)	3,401	0	0	0	(471)
2032	0.00%	0	39,447	1,333	38,669	1,220	35,381	(471)	3,401	0	0	0	(471)
2033	0.00%	0	39,447	1,333	40,002	1,220	36,601	(471)	3,401	0	0	0	(471)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	2029
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	(1,096)
BOOK DEPR RATE - 1/USEFUL LIFE	3.401
	0.00

0081

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: DUCT84R - DUCT - Residential

(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)
2004	3.75%	1,479	100	38,666	1,333	(966)	41,100	39,667	40,383
2005	7.22%	2,848	628	37,335	2,667	(370)	39,667	37,705	38,686
2006	6.68%	2,635	548	36,002	4,000	178	37,705	35,826	36,765
2007	6.18%	2,438	470	34,666	5,334	648	35,826	34,023	34,924
2008	5.71%	2,252	398	33,335	6,667	1,044	34,023	32,291	33,157
2009	5.28%	2,083	333	32,002	8,000	1,377	32,291	30,825	31,458
2010	4.89%	1,929	273	30,666	9,334	1,650	30,825	29,018	29,821
2011	4.52%	1,783	217	29,335	10,667	1,867	29,018	27,467	28,243
2012	4.46%	1,759	208	28,002	12,001	2,075	27,467	25,926	26,697
2013	4.46%	1,759	208	26,665	13,334	2,284	25,926	24,385	25,155
2014	4.46%	1,759	208	25,335	14,667	2,492	24,385	22,843	23,614
2015	4.46%	1,759	208	24,001	16,001	2,700	22,843	21,302	22,072
2016	4.46%	1,759	208	22,668	17,334	2,908	21,302	19,760	20,531
2017	4.46%	1,759	208	21,334	18,668	3,116	19,760	18,218	18,989
2018	4.46%	1,759	208	20,001	20,001	3,324	18,218	16,677	17,448
2019	4.46%	1,759	208	18,668	21,334	3,532	16,677	15,135	15,907
2020	4.46%	1,759	208	17,334	22,668	3,740	15,135	13,594	14,365
2021	4.46%	1,759	208	16,001	24,001	3,948	13,594	12,053	12,824
2022	4.46%	1,759	208	14,667	25,335	4,156	12,053	10,512	11,282
2023	4.46%	1,759	208	13,334	26,668	4,364	10,512	8,970	9,741
2024	2.25%	888	(128)	12,001	28,002	4,236	8,970	7,765	8,368
2025	0.00%	0	(471)	10,667	29,335	3,765	7,765	6,902	7,334
2026	0.00%	0	(471)	9,334	30,668	3,294	6,902	6,039	6,471
2027	0.00%	0	(471)	8,000	32,002	2,824	6,039	5,177	5,608
2028	0.00%	0	(471)	6,667	33,335	2,353	5,177	4,314	4,745
2029	0.00%	0	(471)	5,334	34,669	1,883	4,314	3,451	3,882
2030	0.00%	0	(471)	4,000	36,002	1,412	3,451	2,588	3,020
2031	0.00%	0	(471)	2,667	37,335	941	2,588	1,726	2,157
2032	0.00%	0	(471)	1,333	38,669	471	1,726	863	1,294
2033	0.00%	0	(471)	0	40,002	0	863	0	431

* Column not specified in workbook

01082

(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)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.60%	1.026	0.00%	0.00	0.00
1996	-8	2.63%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.62%	1.126	0.00%	0.00	0.00
1999	-5	3.85%	1.169	0.84%	5.46	2.73
2000	-4	3.68%	1.214	1.86%	11.21	11.08
2001	-3	3.93%	1.262	13.00%	91.21	62.27
2002	-2	3.89%	1.311	60.50%	440.92	328.30
2003	-1	3.95%	1.363	24.00%	181.82	639.70
				100.00%	730.61	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.08)	(0.08)	5.78	5.78
2000	-4	11.78	0.50	0.62	1.25	1.55	1.13	1.41	(0.24)	(0.30)	12.45	18.21
2001	-3	63.21	2.82	3.44	7.00	8.55	6.37	7.77	(1.37)	(1.67)	96.21	116.42
2002	-2	338.88	14.90	18.34	36.97	45.52	33.81	41.38	(7.22)	(8.89)	477.89	594.31
2003	-1	686.21	30.54	48.88	75.80	121.31	68.11	109.49	(14.49)	(23.38)	257.61	851.92
			48.88	71.41	121.31		109.49		(23.38)		851.92	

IN SERVICE YEA	2004
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	34,306	34,306	34,306
EQUITY AFUDC	3,401		
DEBT AFUDC	2,295	2,295	
CPI			5,141
TOTAL	40,002	36,601	39,447

* Column not specified in workbook

0183

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME DUCT04R - DUCT - Residential

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.18	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.89	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.90	1.92	0.00	1.00	1.00
1997	0	0	0.00	4.43	2.03	0.00	1.00	1.00
1998	0	0	0.00	4.66	2.04	0.00	1.00	1.00
1999	0	0	0.00	5.81	2.19	0.00	1.00	1.00
2000	0	0	0.00	5.35	2.43	0.00	1.00	1.00
2001	29,981	29,981	0.00	5.85	2.52	0.00	1.00	1.00
2002	59,962	59,962	0.00	6.16	2.59	0.00	1.00	1.00
2003	89,943	89,943	0.00	6.84	2.77	0.00	1.00	1.00
2004	89,943	89,943	0.00	7.50	2.84	5.95	1.00	1.00
2005	89,943	89,943	0.00	7.77	3.14	5.89	1.00	1.00
2006	89,943	89,943	0.00	8.16	3.30	6.32	1.00	1.00
2007	89,943	89,943	0.00	8.21	3.57	6.85	1.00	1.00
2008	89,943	89,943	0.00	8.54	3.81	7.04	1.00	1.00
2009	89,943	89,943	0.00	8.50	3.82	7.57	1.00	1.00
2010	89,943	89,943	0.00	10.72	4.18	8.37	1.00	1.00
2011	89,943	89,943	0.00	11.08	4.14	8.53	1.00	1.00
2012	89,943	89,943	0.00	11.54	4.53	8.98	1.00	1.00
2013	89,943	89,943	0.00	12.49	4.62	9.57	1.00	1.00
2014	89,943	89,943	0.00	13.25	4.88	10.14	1.00	1.00
2015	89,943	89,943	0.00	13.80	5.18	10.51	1.00	1.00
2016	89,943	89,943	0.00	14.73	5.39	11.12	1.00	1.00
2017	89,943	89,943	0.00	15.55	5.66	11.73	1.00	1.00
2018	89,943	89,943	0.00	15.55	5.85	12.38	1.00	1.00
2019	89,943	89,943	0.00	16.51	6.25	13.08	1.00	1.00
2020	89,943	89,943	0.00	17.53	6.57	13.77	1.00	1.00
2021	89,943	89,943	0.00	18.61	6.90	14.53	1.00	1.00
2022	89,943	89,943	0.00	19.75	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0084

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT04R - DUCT - Residential

PSC FORM CE 2.1
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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	8,112	1,480	82	9,489	13,434	5,709
2005	7,857	1,547	80	9,425	12,433	6,456
2006	7,589	1,619	55	8,722	11,714	6,252
2007	7,292	1,696	49	7,875	10,429	6,484
2008	7,027	1,779	46	7,529	9,848	6,532
2009	6,772	1,868	51	8,467	11,198	5,961
2010	6,526	1,963	53	8,834	12,337	5,139
2011	6,269	2,065	39	6,869	8,841	6,241
2012	6,027	2,174	32	5,458	7,187	6,536
2013	5,829	2,290	33	5,570	7,378	6,340
2014	5,594	2,411	35	6,065	8,103	6,022
2015	5,393	2,538	41	7,137	9,329	5,748
2016	5,131	2,668	40	6,809	8,974	5,674
2017	4,900	2,807	40	6,874	9,116	5,504
2018	4,688	2,953	42	7,124	9,504	5,283
2019	4,437	3,108	45	7,692	10,330	4,850
2020	4,206	3,269	48	8,058	10,885	4,894
2021	3,974	3,438	49	8,234	11,189	4,508
2022	3,743	3,617	50	8,489	11,807	4,292
NOM	111,343	45,284	871	144,858	193,832	108,304
NPV	25,795	8,339	191	31,336	42,056	23,586

0085

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: DUCT04R - DUCT - Residential

PSC FORM CE 2.2
PAGE 1 OF 1

(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 FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	386	66	452	172	277	449	521	0
2002	776	139	915	347	580	927	1,843	0
2003	1,167	218	1,385	522	909	1,431	3,044	0
2004	1,131	228	1,358	506	949	1,455	4,002	0
2005	1,091	238	1,329	488	992	1,480	4,148	0
2006	1,054	249	1,303	471	1,039	1,510	4,357	0
2007	1,018	261	1,279	455	1,088	1,543	4,813	0
2008	984	273	1,257	440	1,141	1,581	5,093	0
2009	951	287	1,238	425	1,198	1,623	5,670	0
2010	919	302	1,221	411	1,259	1,670	5,721	0
2011	887	317	1,205	397	1,325	1,721	5,912	0
2012	856	334	1,190	383	1,386	1,770	6,157	0
2013	825	352	1,177	369	1,468	1,837	6,886	0
2014	793	371	1,164	355	1,547	1,901	7,072	0
2015	762	390	1,152	341	1,627	1,968	7,388	0
2016	731	410	1,141	327	1,712	2,038	7,880	0
2017	699	432	1,131	313	1,801	2,113	8,301	0
2018	668	454	1,122	299	1,894	2,193	8,301	0
2019	636	478	1,114	285	1,993	2,277	8,812	0
2020	605	502	1,108	271	2,096	2,367	9,355	0
2021	574	529	1,102	257	2,205	2,462	9,931	0
2022	545	556	1,101	244	2,320	2,564	10,542	0
NOM.	18,057	7,386	25,443	8,073	30,814	38,888	134,787	0
NPV	4,742	1,485	6,228	2,120	6,196	8,317	28,129	0

98(I)

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT04R - DUCT - Residential

PSC FORM CE 2.3
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	4,205	13,565	0	17,770	0	902	521	0	1,422	(16,348)	(8,816)
2002	0	4,384	14,189	0	18,573	0	1,841	1,843	0	3,485	(15,089)	(16,266)
2003	0	4,572	14,842	0	19,414	0	2,816	3,044	0	5,860	(13,554)	(22,393)
2004	0	0	0	0	0	5,709	2,813	4,002	0	12,525	12,525	(17,209)
2005	0	0	0	0	0	6,456	2,809	4,148	0	13,413	13,413	(12,127)
2006	0	0	0	0	0	6,252	2,813	4,357	0	13,421	13,421	(7,470)
2007	0	0	0	0	0	6,484	2,822	4,913	0	14,219	14,219	(2,954)
2008	0	0	0	0	0	6,532	2,838	5,093	0	14,463	14,463	1,252
2009	0	0	0	0	0	5,661	2,861	5,070	0	13,592	13,592	4,851
2010	0	0	0	0	0	5,139	2,891	5,721	0	13,751	13,751	8,303
2011	0	0	0	0	0	6,241	2,926	5,912	0	15,080	15,080	11,899
2012	0	0	0	0	0	6,539	2,968	6,157	0	15,661	15,661	14,899
2013	0	0	0	0	0	6,340	3,014	6,666	0	16,020	16,020	17,896
2014	0	0	0	0	0	6,022	3,065	7,073	0	16,160	16,160	20,635
2015	0	0	0	0	0	5,748	3,120	7,366	0	16,235	16,235	23,181
2016	0	8,341	27,931	0	36,272	5,674	3,179	7,860	0	16,713	(19,559)	20,372
2017	0	8,750	29,364	0	38,143	5,504	3,244	8,301	0	17,049	(21,093)	17,599
2018	0	9,189	30,912	0	40,110	5,253	3,315	8,301	0	16,869	(23,212)	14,805
2019	0	0	0	0	0	4,850	3,391	8,812	0	17,154	17,154	16,899
2020	0	0	0	0	0	4,894	3,474	9,355	0	17,523	17,523	18,464
2021	0	0	0	0	0	4,508	3,564	9,931	0	18,001	18,001	20,127
2022	0	0	0	0	0	4,292	3,665	10,542	0	18,499	18,499	21,891
												#VALUE!
NOM	0	39,460	130,822	0	170,282	108,324	64,331	134,787	0	307,443	137,161	
NPV	0	9,958	32,624	0	42,580	23,598	14,544	28,129	0	64,271	21,691	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 1.51

0087

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME DUCT04R - DUCT - Residential

PSC FORM CE 2.5
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	4,205	6,460	805	0	11,360	521	902	0	0	1,422	(9,937)	(5,359)
2002	0	4,364	6,460	2,153	0	12,998	1,643	1,841	0	0	3,485	(9,513)	(4,697)
2003	0	4,572	6,460	3,751	0	14,784	3,044	2,816	0	0	5,860	(8,924)	(4,034)
2004	0	0	0	4,819	0	4,819	9,711	2,813	0	0	12,525	7,706	3,272
2005	0	0	0	4,758	0	4,758	10,603	2,809	0	0	13,413	8,654	3,279
2006	0	0	0	4,915	0	4,915	10,608	2,813	0	0	13,421	8,508	2,951
2007	0	0	0	5,135	0	5,135	11,398	2,822	0	0	14,219	9,084	2,695
2008	0	0	0	5,297	0	5,297	11,825	2,838	0	0	14,663	9,366	2,666
2009	0	0	0	5,501	0	5,501	11,031	2,861	0	0	13,892	8,391	2,234
2010	0	0	0	5,656	0	5,656	10,880	2,881	0	0	13,751	8,095	1,973
2011	0	0	0	5,912	0	5,912	12,153	2,916	0	0	15,069	9,157	2,046
2012	0	0	0	6,149	0	6,149	12,693	2,968	0	0	15,661	9,512	1,944
2013	0	0	0	6,475	0	6,475	13,005	3,014	0	0	16,020	9,545	1,788
2014	0	0	0	6,778	0	6,778	13,066	3,066	0	0	16,180	9,383	1,607
2015	0	0	0	6,948	0	6,948	13,116	3,120	0	0	16,235	9,289	1,457
2016	0	8,341	6,460	7,265	0	22,066	13,534	3,179	0	0	16,713	(5,373)	(772)
2017	0	8,759	6,460	7,586	0	22,817	13,805	3,244	0	0	17,049	(5,767)	(758)
2018	0	9,199	6,460	7,923	0	23,581	13,583	3,315	0	0	16,898	(6,683)	(804)
2019	0	0	0	8,148	0	8,148	13,762	3,391	0	0	17,154	9,005	992
2020	0	0	0	8,514	0	8,514	14,048	3,474	0	0	17,523	9,009	939
2021	0	0	0	8,898	0	8,898	14,439	3,564	0	0	18,001	9,103	841
2022	0	0	0	9,300	0	9,300	14,834	3,665	0	0	18,499	9,199	778
NOM.	0	39,460	38,762	132,406	0	210,627	243,112	84,331	0	0	327,443	98,816	
NPV	0	9,958	12,148	26,970	0	49,074	49,726	14,544	0	0	64,271	15,197	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.31

0189

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM	
	RSC-5A	RSC-5B
(1) UTILITY NON RECURRING COST PER CUSTOMER	$95	$95
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$330	$330
(6) CUSTOMER O&M COST	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$215	$210
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

0090

HELP LOW COST
MEASURES

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z116 - Weather Strip

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.01	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.01	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	131.3	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.64857	
(5) K FACTOR FOR T & D	1.69867	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.70	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	0.34	%**

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	***	%

0191

* 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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z116 - Weather Strip

01/30/96

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	14	0	0	14	5	0	56	0	0	56
1996	0	0	0	0	9	0	0	0	0	0
1997	0	0	0	0	9	0	0	0	0	0
1998	0	0	0	0	10	0	0	0	0	0
1999	0	0	0	0	10	0	0	0	0	0
2000	0	0	0	0	10	0	0	0	0	0
2001	0	0	0	0	11	0	0	0	0	0
2002	0	0	0	0	11	0	0	0	0	0
2003	0	0	0	0	11	0	0	0	0	0
2004	0	0	0	0	12	0	0	0	0	0
2005	0	0	0	0	12	0	0	0	0	0
2006	0	0	0	0	13	0	0	0	0	0
2007	0	0	0	0	13	0	0	0	0	0
2008	0	0	0	0	14	0	0	0	0	0
2009	0	0	0	0	14	0	112	0	0	112
2010	27	0	0	27	14	0	0	0	0	0
2011	0	0	0	0	15	0	0	0	0	0
2012	0	0	0	0	15	0	0	0	0	0
2013	0	0	0	0	16	0	0	0	0	0
2014	0	0	0	0	17	0	0	0	0	0
2015	0	0	0	0	17	0	0	0	0	0
2016	0	0	0	0	18	0	0	0	0	0
NOM	41	0	0	41	270	0	170	0	0	170
NPV	19	0	0	19	88	0	88	0	0	88

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

0092

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME Z116 - Weather Strip

01/20/96

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	3	0	0	0	0	0	0	0	1	1	1
1998	3	0	0	0	0	0	0	0	1	1	1
1999	3	0	0	0	0	0	0	0	1	0	2
2000	3	0	0	0	0	0	0	0	1	0	2
2001	3	0	0	0	0	0	0	0	1	0	2
2002	2	0	0	0	0	0	0	0	1	0	3
2003	2	0	0	0	0	0	0	0	1	0	3
2004	2	0	0	0	0	0	0	0	1	0	3
2005	2	0	0	0	0	0	0	0	1	0	4
2006	2	0	0	0	0	0	0	0	1	0	4
2007	2	0	0	0	0	0	0	0	1	0	4
2008	2	0	0	0	0	0	0	0	1	0	4
2009	2	0	0	0	0	0	0	0	1	0	5
2010	1	0	0	0	0	0	0	0	0	0	5
2011	1	0	0	0	0	0	0	0	0	0	5
2012	1	0	0	0	0	0	0	0	0	0	5
2013	1	0	0	0	0	0	0	0	0	0	5
2014	1	0	0	0	0	0	0	0	0	0	5
2015	1	0	0	0	0	0	0	0	0	0	5
2016	1	0	0	0	0	0	0	0	0	0	5
2017	1	0	0	0	0	0	0	0	0	0	5
2018	1	0	0	0	0	0	0	0	0	0	5
2019	0	0	0	0	0	0	0	0	0	0	5
2020	0	0	0	0	0	0	0	0	0	0	5
2021	0	0	0	0	0	0	0	0	0	0	5
2022	0	0	0	0	0	0	0	0	0	0	5
2023	0	0	0	0	0	0	0	0	0	0	5
2024	0	0	0	0	0	0	0	0	0	0	5
2025	0	0	0	0	0	0	0	0	0	0	5
2026	0	0	0	0	0	0	0	0	0	0	5

IN SERVICE COST ($000)	0
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.01%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.84857

0193

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/30/95

PROGRAM NAME Z116 - Weather Strip

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PAGE 2b OF 2

(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)
1997	3.75%	0	0	3	0	0	3	3	3
1998	7.22%	0	0	3	0	0	3	3	3
1999	6.68%	0	0	3	0	0	3	3	3
2000	6.18%	0	0	3	0	0	3	3	3
2001	5.71%	0	0	3	1	0	3	2	3
2002	5.29%	0	0	2	1	0	2	2	2
2003	4.89%	0	0	2	1	0	2	2	2
2004	4.52%	0	0	2	1	0	2	2	2
2005	4.46%	0	0	2	1	0	2	2	2
2006	4.46%	0	0	2	1	0	2	2	2
2007	4.46%	0	0	2	1	0	2	2	2
2008	4.46%	0	0	2	1	0	2	2	2
2009	4.46%	0	0	2	1	0	2	2	2
2010	4.46%	0	0	2	1	0	2	1	1
2011	4.46%	0	0	2	2	0	1	1	1
2012	4.46%	0	0	1	2	0	1	1	1
2013	4.46%	0	0	1	2	0	1	1	1
2014	4.46%	0	0	1	2	0	1	1	1
2015	4.46%	0	0	1	2	0	1	1	1
2016	4.46%	0	0	1	2	0	1	1	1
2017	2.23%	0	0	1	2	0	1	1	1
2018	0.00%	0	0	1	2	0	1	1	1
2019	0.00%	0	0	1	2	0	1	0	0
2020	0.00%	0	0	1	2	0	0	0	0
2021	0.00%	0	0	1	3	0	0	0	0
2022	0.00%	0	0	0	3	0	0	0	0
2023	0.00%	0	0	0	3	0	0	0	0
2024	0.00%	0	0	0	3	0	0	0	0
2025	0.00%	0	0	0	3	0	0	0	0
2026	0.00%	0	0	0	3	0	0	0	0

* Column not specified in workbook

0195

(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)
1994	-3	0.00%	1.000	13.91%	54.52	27.27
1995	-2	2.90%	1.029	44.58%	178.18	144.12
1996	-1	2.83%	1.059	41.54%	171.47	318.45

				100.00%	405.18							
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)
1994	-3	27.27	1.20	1.20	2.88	2.88	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	19.11	14.68	17.41	(3.16)	(3.76)	195.31	252.82
1996	-1	336.55	15.08	22.78	37.38	56.48	33.69	51.10	(7.16)	(10.93)	208.85	461.67
				22.78	31.06	56.48		51.10		(10.93)		461.67

IN SERVICE YEA	1997
PLANT COSTS	302
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	3	3	3
EQUITY AFUDC	0		
DEBT AFUDC	0	0	0
CPI			
TOTAL	3	3	3

* Column not specified in workbook

9610

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME Z116 - Weather Strip

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PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	2.71	1.89	0.00	1.00	1.00
1995	1,000	1,000	0.00	2.85	1.92	0.00	1.00	1.00
1996	1,000	1,000	0.00	2.98	1.92	0.00	1.00	1.00
1997	1,000	1,000	0.00	3.09	2.03	4.28	1.00	1.00
1998	1,000	1,000	0.00	3.32	2.04	4.25	1.00	1.00
1999	1,000	1,000	0.00	3.66	2.19	7.85	1.00	1.00
2000	1,000	1,000	0.00	3.87	2.43	8.21	1.00	1.00
2001	1,000	1,000	0.00	4.02	2.52	8.42	1.00	1.00
2002	1,000	1,000	0.00	4.42	2.53	8.86	1.00	1.00
2003	1,000	1,000	0.00	4.78	2.77	9.28	1.00	1.00
2004	1,000	1,000	0.00	5.22	2.84	9.80	1.00	1.00
2005	1,000	1,000	0.00	5.30	3.14	9.82	1.00	1.00
2006	1,000	1,000	0.00	5.36	3.30	9.52	1.00	1.00
2007	1,000	1,000	0.00	5.80	3.57	9.70	1.00	1.00
2008	1,000	1,000	0.00	6.04	3.81	10.09	1.00	1.00
2009	1,000	1,000	0.00	6.08	3.92	10.57	1.00	1.00
2010	1,000	1,000	0.00	6.62	4.10	10.69	1.00	1.00
2011	1,000	1,000	0.00	7.10	4.14	11.45	1.00	1.00
2012	1,000	1,000	0.00	7.42	4.53	12.64	1.00	1.00
2013	1,000	1,000	0.00	7.89	4.62	13.05	1.00	1.00
2014	1,000	1,000	0.00	8.33	4.89	13.71	1.00	1.00
2015	1,000	1,000	0.00	8.75	5.19	14.19	1.00	1.00
2016	1,000	1,000	0.00	9.14	5.39	15.01	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0197

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z116 - Weather Strip

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	1	0	0	0	0	1
1998	1	0	0	0	0	1
1999	1	0	0	0	0	1
2000	1	0	0	0	0	1
2001	1	0	0	0	0	1
2002	1	0	0	0	0	1
2003	1	0	0	0	0	1
2004	0	0	0	0	0	1
2005	0	0	0	0	0	1
2006	0	0	0	0	0	1
2007	0	0	0	0	0	1
2008	0	0	0	0	0	1
2009	0	0	0	0	0	1
2010	0	0	0	0	0	1
2011	0	0	0	0	0	1
2012	0	0	0	0	0	1
2013	0	0	0	0	0	1
2014	0	0	0	0	0	1
2015	0	0	0	0	0	1
2016	0	0	0	0	0	1
NOM	9	6	0	0	0	14
NPV	4	2	0	0	0	6

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Z110 - Weather Strip

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YEAR	(1)	(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 FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994		0	0	0	0	0	0	0	0
1995		0	0	0	0	0	0	2	0
1996		0	0	0	0	0	0	4	0
1997		0	0	0	0	0	0	4	0
1998		0	0	0	0	0	0	5	0
1999		0	0	0	0	0	0	5	0
2000		0	0	0	0	0	0	6	0
2001		0	0	0	0	0	0	6	0
2002		0	0	0	0	0	0	7	0
2003		0	0	0	0	0	0	7	0
2004		0	0	0	0	0	0	7	0
2005		0	0	0	0	0	0	8	0
2006		0	0	0	0	0	0	8	0
2007		0	0	0	0	0	0	8	0
2008		0	0	0	0	0	0	9	0
2009		0	0	0	0	0	0	9	0
2010		0	0	0	0	0	0	9	0
2011		0	0	0	0	0	0	10	0
2012		0	0	0	0	0	0	10	0
2013		0	0	0	0	0	0	11	0
2014		0	0	0	0	0	0	11	0
2015		0	0	0	0	0	0	12	0
2016		0	0	0	0	0	0	12	0
NOM.		2	1	3	1	3	4	158	0
NPV		1	0	1	0	1	2	54	0

0139

01/30/96

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z116 - Weather Strip

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	14	58	0	72	0	0	2	0	2	(69)	(64)
1996	0	0	0	0	0	0	0	4	0	4	4	(61)
1997	0	0	0	0	0	0	0	4	0	4	5	(56)
1998	0	0	0	0	0	1	0	4	0	5	5	(51)
1999	0	0	0	0	0	1	0	5	0	5	5	(46)
2000	0	0	0	0	0	1	0	5	0	6	6	(41)
2001	0	0	0	0	0	1	0	6	0	6	6	(36)
2002	0	0	0	0	0	1	0	6	0	6	6	(31)
2003	0	0	0	0	0	1	0	7	0	7	7	(26)
2004	0	0	0	0	0	1	0	7	0	7	7	(21)
2005	0	0	0	0	0	1	0	8	0	8	8	(16)
2006	0	0	0	0	0	1	0	8	0	8	8	(11)
2007	0	0	0	0	0	1	0	8	0	8	8	(6)
2008	0	0	0	0	0	1	0	9	0	9	9	(1)
2009	0	0	0	0	0	1	0	9	0	9	(139)	(6)
2010	0	22	112	0	135	1	0	9	0	10	10	(1)
2011	0	0	0	0	0	1	0	10	0	10	11	3
2012	0	0	0	0	0	1	0	10	0	11	11	7
2013	0	0	0	0	0	1	0	11	0	11	12	11
2014	0	0	0	0	0	1	0	11	0	12	13	15
2015	0	0	0	0	0	1	0	12	0	13	13	19
2016	0	0	0	0	0	1	0	12	0	13	13	23
NOM	0	41	170	0	211	14	7	158	0	180	(31)	
NPV	0	19	80	0	100	6	3	54	0	63	(37)	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 0.83

0200

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z110 - Weather Strip

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	7	0	0	0	7	58	0	0	58	(50)	(48)
1996	15	0	0	0	15	0	0	0	0	15	13
1997	15	0	0	0	15	0	0	0	0	15	12
1998	16	0	0	0	16	0	0	0	0	16	11
1999	16	0	0	0	16	0	0	0	0	16	10
2000	16	0	0	0	16	0	0	0	0	16	10
2001	17	0	0	0	17	0	0	0	0	16	10
2002	17	0	0	0	17	0	0	0	0	17	9
2003	18	0	0	0	18	0	0	0	0	17	9
2004	19	0	0	0	19	0	0	0	0	18	8
2005	19	0	0	0	19	0	0	0	0	19	8
2006	20	0	0	0	20	0	0	0	0	19	7
2007	21	0	0	0	21	0	0	0	0	20	7
2008	21	0	0	0	21	0	0	0	0	21	7
2009	22	0	0	0	22	0	0	0	0	21	6
2010	23	0	0	0	23	112	0	0	112	(89)	(23)
2011	24	0	0	0	24	0	0	0	0	24	8
2012	25	0	0	0	25	0	0	0	0	25	8
2013	26	0	0	0	26	0	0	0	0	26	8
2014	27	0	0	0	27	0	0	0	0	27	8
2015	28	0	0	0	28	0	0	0	0	28	4
2016	29	0	0	0	29	0	0	0	0	29	4
NOM	442	0	0	0	442	170	0	0	170	272	
NPV	162	0	0	0	162	80	0	0	80	82	

0104

In Service of Gen Unit: 1997

Discount Rate : 9.22

Benefit/Cost Ratio (Col(6) / Col(10)) 2.03

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z116 - Weather Strip

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	14	0	5	0	18	2	0	0	0	2	(16)	(15)
1996	0	0	0	8	0	8	4	0	0	0	4	(5)	(14)
1997	0	0	0	8	0	8	5	0	0	0	5	(4)	(9)
1998	0	0	0	8	0	8	5	0	0	0	5	(4)	(8)
1999	0	0	0	10	0	10	6	0	0	0	6	(4)	(8)
2000	0	0	0	10	0	10	6	0	0	0	6	(4)	(8)
2001	0	0	0	10	0	10	6	0	0	0	6	(4)	(8)
2002	0	0	0	11	0	11	7	0	0	0	6	(4)	(8)
2003	0	0	0	11	0	11	7	0	0	0	7	(4)	(8)
2004	0	0	0	11	0	11	7	0	0	0	7	(4)	(8)
2005	0	0	0	12	0	12	8	0	0	0	8	(3)	(7)
2006	0	0	0	12	0	12	8	0	0	0	8	(4)	(7)
2007	0	0	0	13	0	13	8	0	0	0	8	(4)	(7)
2008	0	0	0	13	0	13	9	0	0	0	9	(4)	(7)
2009	0	0	0	14	0	14	9	0	0	0	9	(4)	(7)
2010	0	27	0	14	0	41	9	0	0	0	10	(31)	(8)
2011	0	0	0	15	0	15	10	0	0	0	10	(4)	(7)
2012	0	0	0	15	0	15	10	0	0	0	11	(4)	(7)
2013	0	0	0	16	0	16	11	0	0	0	11	(5)	(7)
2014	0	0	0	17	0	17	12	0	0	0	12	(5)	(7)
2015	0	0	0	17	0	17	12	0	0	0	13	(5)	(7)
2016	0	0	0	18	0	18	13	0	0	0	13	(5)	(7)
NOM.	0	41	0	270	0	310	173	7	0	0	180	(130)	
NPV	0	19	0	99	0	118	60	3	0	0	63	(56)	

Discount Rate 8.22

Benefit/Cost Ratio (Col(12) / Col(7)) : 0.53

0102

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	RSC-15A
(1) UTILITY NON RECURRING COST PER CUSTOMER	$13
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$54
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

0103

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z150 - Tank Insulator

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.01 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.01 kW
(3) kW LINE LOSS PERCENTAGE	10.58 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	66.2 kWh
(5) kWh LINE LOSS PERCENTAGE	7.82 %
(6) GROUP LINE LOSS MULTIPLIER	1.0000
(7) CUSTOMER kWh INCREASE AT METER	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23 YEARS
(2) GENERATOR ECONOMIC LIFE	30 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.64957
(5) K FACTOR FOR T & D	1.66867

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	9.22 %
* (11) UTILITY AFUDC RATE	10.92 %
* (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	1994
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	1997
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998
(4) BASE YEAR AVOIDED GENERATING COST	382 $/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100 $/kW
(6) BASE YEAR DISTRIBUTION COST	50 $/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60 %**
(8) GENERATOR FIXED O & M COST	24 $/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40 %**
(10) TRANSMISSION FIXED O & M COST	3.20 $/kW
(11) DISTRIBUTION FIXED O & M COST	14.93 $/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	3.40 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72 CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	8.34 %**

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	--- %

0104

* 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 12
---- ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

* INPUT DATA – PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z150 - Tank Insulation

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	13	0	0	13	2	0	27	0	0	27
1996	0	0	0	0	5	0	0	0	0	0
1997	0	0	0	0	5	0	0	0	0	0
1998	0	0	0	0	5	0	0	0	0	0
1999	0	0	0	0	5	0	0	0	0	0
2000	0	0	0	0	5	0	0	0	0	0
2001	0	0	0	0	5	0	0	0	0	0
2002	0	0	0	0	6	0	0	0	0	0
2003	0	0	0	0	6	0	41	0	0	41
2004	0	0	0	20	6	0	0	0	0	0
2005	20	0	0	0	6	0	0	0	0	0
2006	0	0	0	0	6	0	0	0	0	0
2007	0	0	0	0	7	0	0	0	0	0
2008	0	0	0	0	7	0	0	0	0	0
2009	0	0	0	0	7	0	0	0	0	0
2010	0	0	0	0	7	0	0	0	0	0
2011	0	0	0	0	8	0	0	0	0	0
2012	0	0	0	0	8	0	0	0	0	0
2013	0	0	0	0	8	0	0	0	0	0
2014	0	0	0	32	8	0	67	0	0	67
2015	32	0	0	0	8	0	0	0	0	0
2016	0	0	0	0	8	0	0	0	0	0
NOM	65	0	0	65	136	0	135	0	0	135
NPV	24	0	0	24	50	0	50	0	0	50

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME Z150 - Tank Insulation

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	5	0	0	0	0	0	0	0	1	1	1
1998	4	0	0	0	0	0	0	0	1	1	2
1999	4	0	0	0	0	0	0	0	1	1	2
2000	4	0	0	0	0	0	0	0	1	1	3
2001	4	0	0	0	0	0	0	0	1	1	4
2002	4	0	0	0	0	0	0	0	1	1	4
2003	3	0	0	0	0	0	0	0	1	0	4
2004	3	0	0	0	0	0	0	0	1	0	5
2005	3	0	0	0	0	0	0	0	1	0	5
2006	2	0	0	0	0	0	0	0	1	0	5
2007	3	0	0	0	0	0	0	0	1	0	6
2008	2	0	0	0	0	0	0	0	1	0	6
2009	2	0	0	0	0	0	0	0	1	0	6
2010	2	0	0	0	0	0	0	0	1	0	6
2011	2	0	0	0	0	0	0	0	1	0	6
2012	2	0	0	0	0	0	0	0	0	0	7
2013	2	0	0	0	0	0	0	0	0	0	7
2014	1	0	0	0	0	0	0	0	0	0	7
2015	1	0	0	0	0	0	0	0	0	0	7
2016	1	0	0	0	0	0	0	0	0	0	7
2017	1	0	0	0	0	0	0	0	0	0	7
2018	1	0	0	0	0	0	0	0	0	0	7
2019	1	0	0	0	0	0	0	0	0	0	7
2020	1	0	0	0	0	0	0	0	0	0	7
2021	1	0	0	0	0	0	0	0	0	0	7
2022	0	0	0	0	0	0	0	0	0	0	7
2023	0	0	0	0	0	0	0	0	0	0	7
2024	0	0	0	0	0	0	0	0	0	0	7
2025	0	0	0	0	0	0	0	0	0	0	7
2026	0	0	0	0	0	0	0	0	0	0	7

IN SERVICE COST ($000)	0
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.84857

0106

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME Z150 - Tank Insulation

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) ACCUMULATED TAX DEPRECIATION $(000)	(5) BOOK DEPRECIATION $(000)	(6) ACCUMULATED BOOK DEPRECIATION $(000)	(7) BOOK DEPRECIATION FOR DEFERRED TAX $(000)	(8) ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	(9) DEFERRED TAX DUE TO DEPRECIATION $(000)	(10) TOTAL EQUITY AFUDC $(000)	(11) BOOK DEPR RATE MINUS 1/LIFE	(12) (10)*(11) *TAX RATE $(000)	(13) SALVAGE *TAX RATE $(000)	(14) ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)
1997	3.75%	0	0	0	0	0	0	0	0	0	0	0	0
1998	7.22%	0	0	0	0	0	0	0	0	0	0	0	0
1999	6.68%	0	0	0	0	0	0	0	0	0	0	0	0
2000	6.18%	0	1	0	0	0	0	0	0	0	0	0	0
2001	5.71%	0	1	0	0	0	0	0	0	0	0	0	0
2002	5.29%	0	2	0	0	0	0	0	0	0	0	0	0
2003	4.89%	0	2	0	0	0	0	0	0	0	0	0	0
2004	4.52%	0	2	0	0	0	0	0	0	0	0	0	0
2005	4.46%	0	2	0	0	0	0	0	0	0	0	0	0
2006	4.46%	0	3	0	0	0	0	0	0	0	0	0	0
2007	4.46%	0	3	0	0	0	0	0	0	0	0	0	0
2008	4.46%	0	3	0	0	0	0	0	0	0	0	0	0
2009	4.46%	0	3	0	0	0	0	0	0	0	0	0	0
2010	4.46%	0	4	0	0	0	0	0	0	0	0	0	0
2011	4.46%	0	4	0	0	0	0	0	0	0	0	0	0
2012	4.46%	0	4	0	0	0	0	0	0	0	0	0	0
2013	4.46%	0	4	0	0	0	0	0	0	0	0	0	0
2014	4.46%	0	4	0	0	0	0	0	0	0	0	0	0
2015	4.46%	0	4	0	0	0	0	0	0	0	0	0	0
2016	4.46%	0	4	0	0	0	0	0	0	0	0	0	0
2017	2.23%	0	4	0	0	0	0	0	0	0	0	0	0
2018	0.00%	0	4	0	0	0	0	0	0	0	0	0	0
2019	0.00%	0	4	0	0	0	0	0	0	0	0	0	0
2020	0.00%	0	4	0	0	0	0	0	0	0	0	0	0
2021	0.00%	0	4	0	0	0	0	0	0	0	0	0	0
2022	0.00%	0	4	0	0	0	0	0	0	0	0	0	0
2023	0.00%	0	4	0	0	0	0	0	0	0	0	0	0
2024	0.00%	0	4	0	0	0	0	0	0	0	0	0	0
2025	0.00%	0	4	0	0	0	0	0	0	0	0	0	0
2026	0.00%	0	4	0	0	0	0	0	0	0	0	0	0

SALVAGE / REMOVAL COST	
YEAR SALVAGE / COST OF REMOVAL	0.00
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	2026
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	0
BOOK DEPR RATE - 1/USEFUL LIFE	0
	0.00

0107

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME Z150 - Tank Insulation

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
1997	3.75%	0	0	4	0	0	5	4	5
1998	7.22%	0	0	4	0	0	4	4	4
1999	6.68%	0	0	4	0	0	4	4	4
2000	6.18%	0	0	4	1	0	4	4	4
2001	5.71%	0	0	4	1	0	4	4	4
2002	5.29%	0	0	4	1	0	4	3	4
2003	4.89%	0	0	3	1	0	3	3	3
2004	4.52%	0	0	3	1	0	3	3	3
2005	4.46%	0	0	3	1	0	3	3	3
2006	4.46%	0	0	3	2	0	3	3	3
2007	4.46%	0	0	3	2	0	3	3	3
2008	4.46%	0	0	3	2	0	3	2	2
2009	4.46%	0	0	2	2	0	2	2	2
2010	4.46%	0	0	2	2	0	2	2	2
2011	4.46%	0	0	2	2	0	2	2	2
2012	4.46%	0	0	2	2	0	2	2	2
2013	4.46%	0	0	2	3	0	2	2	2
2014	4.46%	0	0	2	3	0	2	1	1
2015	4.46%	0	0	2	3	0	1	1	1
2016	4.46%	0	0	2	3	1	1	1	1
2017	2.25%	0	0	1	3	0	1	1	1
2018	0.00%	0	0	1	3	0	1	1	1
2019	0.00%	0	0	1	3	0	1	1	1
2020	0.00%	0	0	1	4	0	1	1	1
2021	0.00%	0	0	1	4	0	1	0	1
2022	0.00%	0	0	1	4	0	0	0	0
2023	0.00%	0	0	0	4	0	0	0	0
2024	0.00%	0	0	0	4	0	0	0	0
2025	0.00%	0	0	0	4	0	0	0	0
2026	0.00%	0	0	0	5	0	0	0	0

* Column not specified in workbook

0108

paged

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($A/W)	(7) CUMULATIVE AVERAGE SPENDING ($A/W)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.60%	1.026	44.56%	179.18	144.12
1996	-1	2.62%	1.053	41.54%	171.47	318.45
				100.00%	405.18	

YEAR*	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($A/W)	(8a)* DEBT AFUDC ($A/W)	(8b)* CUMULATIVE DEBT AFUDC ($A/W)	(9) YEARLY TOTAL AFUDC ($A/W)	(9a)* CUMULATIVE TOTAL AFUDC ($A/W)	(9b)* CONSTRUCTION PERIOD INTEREST ($A/W)	(9c)* CUMULATIVE CPI ($A/W)	(9d)* DEFERRED TAXES ($A/W)	(9e)* CUMULATIVE DEFERRED TAXES ($A/W)	(10) INCREMENTAL YEAR-END BOOK VALUE ($A/W)	(11) CUMULATIVE YEAR-END BOOK VALUE ($A/W)
1994	-3	27.27	1.20	1.20	2.89	2.89	2.72	2.73	(0.59)	(0.59)	57.81	57.81
1995	-2	147.10	6.80	7.70	16.13	19.11	14.66	17.41	(3.16)	(3.75)	185.31	252.82
1996	-1	338.86	15.00	22.70	37.38	56.48	33.69	51.10	(7.18)	(10.93)	359.05	491.87
			23.70	31.60	56.40		51.10		(10.93)		491.87	

IN SERVICE YEA	1997
PLANT COSTS	392
AFUDC RATE	10.92%

CONSTRUCTION CASH	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
EQUITY AFUDC	4	4	4
DEBT AFUDC	0		
CPI	0	0	1
TOTAL	5	4	4

* Column not specified in workbook

0109

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME Z150 - Tank Insulation

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CAN/h)	AVOIDED MARGINAL FUEL COST (CAN/h)	INCREASED MARGINAL FUEL COST (CAN/h)	REPLACEMENT FUEL COST (CAN/h)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1984	0	0	0.00	2.87	1.89	0.00	1.00	1.00
1985	1,000	1,000	0.00	3.14	1.92	0.00	1.00	1.00
1986	1,000	1,000	0.00	3.30	2.03	0.00	1.00	1.00
1987	1,000	1,000	0.00	3.54	2.04	4.38	1.00	1.00
1988	1,000	1,000	0.00	3.80	2.19	4.25	1.00	1.00
1989	1,000	1,000	0.00	4.13	2.43	7.85	1.00	1.00
2000	1,000	1,000	0.00	4.35	2.52	8.21	1.00	1.00
2001	1,000	1,000	0.00	4.79	2.59	8.42	1.00	1.00
2002	1,000	1,000	0.00	5.21	2.77	8.65	1.00	1.00
2003	1,000	1,000	0.00	5.64	2.84	8.39	1.00	1.00
2004	1,000	1,000	0.00	5.78	3.14	8.89	1.00	1.00
2005	1,000	1,000	0.00	5.93	3.39	9.02	1.00	1.00
2006	1,000	1,000	0.00	6.41	3.57	9.52	1.00	1.00
2007	1,000	1,000	0.00	6.66	3.81	9.79	1.00	1.00
2008	1,000	1,000	0.00	6.82	3.92	10.08	1.00	1.00
2009	1,000	1,000	0.00	7.22	4.10	10.57	1.00	1.00
2010	1,000	1,000	0.00	7.78	4.14	10.88	1.00	1.00
2011	1,000	1,000	0.00	8.10	4.53	11.45	1.00	1.00
2012	1,000	1,000	0.00	8.65	4.62	12.04	1.00	1.00
2013	1,000	1,000	0.00	8.12	4.88	13.05	1.00	1.00
2014	1,000	1,000	0.00	8.59	5.18	13.71	1.00	1.00
2015	1,000	1,000	0.00	10.02	5.39	14.19	1.00	1.00
2016						15.01		

0110

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

project

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($MW)	(7) CUMULATIVE AVERAGE SPENDING ($MW)
1994	-3	0.00%	1.000	13.81%	54.53	27.27
1995	-2	2.80%	1.028	44.55%	176.18	144.12
1996	-1	2.83%	1.053	41.54%	171.47	318.45

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($MW)	(9a)* DEBT AFUDC ($MW)	(9b)* CUMULATIVE DEBT AFUDC ($MW)	(9) YEARLY TOTAL AFUDC ($MW)	(9a)* CUMULATIVE TOTAL AFUDC ($MW)	(9b)* CONSTRUCTION PERIOD INTEREST ($MW)	(9c)* CUMULATIVE CPI ($MW)	(9d)* DEFERRED TAXES ($MW)	(9e)* CUMULATIVE DEFERRED TAXES ($MW)	(10) INCREMENTAL YEAR-END BOOK VALUE ($MW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($MW)
						100.00%	405.18					
1994	-3	27.27	1.20	1.20	2.66	2.66	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	18.11	14.68	17.41	(3.16)	(3.75)	195.31	252.82
1996	-1	339.55	15.06	22.76	37.38	55.48	33.69	51.10	(7.18)	(10.93)	356.85	401.67
												401.67
			22.76	31.96	56.48			51.10		(10.93)		

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	4	4	4
EQUITY AFUDC	0	0	0
DEBT AFUDC	0	0	0
CPI	0	0	0
TOTAL	4	4	4

IN SERVICE YEA	1997
PLANT COSTS	392
AFUDC RATE	10.92%

* Column not specified in workbook

0109

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z150 - Tank Insulation

PSC FORM CE 2.1
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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	1
1997	1	0	0	0	0	1
1998	1	0	0	0	0	1
2000	1	0	0	0	0	1
2001	1	0	0	0	0	1
2002	1	0	0	0	0	1
2003	1	0	0	0	0	1
2004	1	0	0	0	0	1
2005	1	0	0	0	0	1
2006	1	0	0	0	0	1
2007	1	0	0	0	0	1
2008	1	0	0	0	0	1
2009	1	0	0	0	0	1
2010	1	0	0	0	0	1
2011	1	0	0	0	0	1
2012	0	1	0	0	0	1
2013	0	1	0	0	0	1
2014	0	1	0	0	0	1
2015	0	1	0	0	0	1
2016	0	1	0	0	0	1
NOM	13	9	0	0	0	21
NPV	5	3	0	0	0	8

0111

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Z150 - Tank Insulation

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
[illegible]	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	0
	0	0	0	0	0	0	2	0
	0	0	0	0	0	0	2	0
	0	0	0	0	0	0	2	0
	0	0	0	0	0	0	3	0
	0	0	0	0	0	0	3	0
	0	0	0	0	0	0	3	0
	0	0	0	0	0	0	3	0
	0	0	0	0	0	0	4	0
	0	0	0	0	0	0	4	0
	0	0	0	0	0	0	4	0
	0	0	0	0	0	0	4	0
	0	0	0	0	0	0	5	0
	0	0	0	0	0	0	5	0
	0	0	0	0	0	0	5	0
	0	0	0	0	0	0	6	0
	0	0	0	0	0	0	6	0
	0	0	0	0	0	0	7	0

NOM.	3	1	4	1	6	6	87	0
REV	1	0	2	1	2	2	30	0

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z190 - Tank Insulation

PSC FORM CE 2.3
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	1	0	2	(39)	(39)
1996	0	13	27	0	40	0	0	2	0	3	3	(33)
1997	0	0	0	0	0	1	0	2	0	4	4	(30)
1998	0	0	0	0	0	1	0	2	0	4	4	(27)
1999	0	0	0	0	0	1	0	3	0	4	4	(24)
2000	0	0	0	0	0	1	0	3	0	4	4	(22)
2001	0	0	0	0	0	1	0	3	0	4	4	(19)
2002	0	0	0	0	0	1	0	3	0	4	4	(17)
2003	0	0	0	0	0	1	0	3	0	4	4	(15)
2004	0	0	0	0	0	1	0	4	0	5	5	(13)
2005	0	0	0	0	0	1	0	4	0	5	5	(11)
2006	0	0	0	0	0	1	0	4	0	5	5	(9)
2007	0	0	0	0	0	1	0	4	0	5	5	(8)
2008	0	0	0	0	0	1	0	4	0	5	5	(6)
2009	0	0	0	0	0	1	0	4	0	5	5	(5)
2010	0	0	0	0	0	1	0	5	0	6	6	(3)
2011	0	0	0	0	0	1	0	5	0	6	6	(2)
2012	0	0	0	0	0	1	0	5	0	6	6	(1)
2013	0	0	0	0	0	1	0	5	0	6	6	0
2014	0	0	0	0	0	1	0	5	0	6	6	1
2015	0	0	0	0	0	1	0	5	0	6	6	2
2016	0	0	0	0	0	1	0	5	0	6	6	3

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Z150 - Tank Insulation

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(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	4	0	0	0	4	27	0	0	27	(23)	(21)
1996	8	0	0	0	8	0	0	0	0	8	6
1997	8	0	0	0	8	0	0	0	0	8	6
1998	8	0	0	0	8	0	0	0	0	8	6
1999	8	0	0	0	8	0	0	0	0	8	5
2000	8	0	0	0	8	0	0	0	0	8	5
2001	8	0	0	0	8	0	0	0	0	8	5
2002	8	0	0	0	8	0	0	0	0	8	4
2003	8	0	0	0	8	0	0	0	0	8	4
2004	8	0	0	0	8	0	0	0	0	8	4
2005	10	0	0	0	10	41	0	0	41	(31)	(12)
2006	10	0	0	0	10	0	0	0	0	10	3
2007	10	0	0	0	10	0	0	0	0	10	3
2008	11	0	0	0	11	0	0	0	0	11	3
2009	11	0	0	0	11	0	0	0	0	11	3
2010	11	0	0	0	11	0	0	0	0	11	3
2011	12	0	0	0	12	0	0	0	0	12	3
2012	12	0	0	0	12	0	0	0	0	12	3
2013	13	0	0	0	13	0	0	0	0	13	3
2014	14	0	0	0	14	0	0	0	0	14	2
2015	14	0	0	0	14	67	0	0	67	(53)	(8)
2016	15	0	0	0	15	0	0	0	0	15	2
NOM	223	0	0	0	223	135	0	0	135	88	
NPV	82	0	0	0	82	50	0	0	50	31	

In Service of Gen Unit: 1997

Discount Rate : 9.22

Benefit/Cost Ratio (Col(8) / Col(10)) 1.62

0114

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Z150 - Tank Insulation

PSC FORM CE 2.5
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	13	0	2	0	15	1	0	0	0	2	(14)	(12)
1996	0	0	0	5	0	5	2	0	0	0	3	(2)	(2)
1997	0	0	0	5	0	5	3	0	0	0	4	(1)	(1)
1998	0	0	0	5	0	5	3	0	0	0	4	(1)	(1)
1999	0	0	0	5	0	5	4	0	0	0	4	(1)	0
2000	0	0	0	5	0	5	4	0	0	0	4	(1)	0
2001	0	0	0	5	0	5	4	0	0	0	4	(1)	0
2002	0	0	0	5	0	5	4	0	0	0	4	(1)	0
2003	0	0	0	5	0	5	5	0	0	0	5	0	0
2004	0	20	0	6	0	26	5	0	0	0	5	(20)	(8)
2005	0	0	0	6	0	6	5	0	0	0	5	(1)	0
2006	0	0	0	6	0	6	5	0	0	0	5	(1)	0
2007	0	0	0	7	0	7	5	0	0	0	5	(1)	0
2008	0	0	0	7	0	7	5	0	0	0	5	(1)	0
2009	0	0	0	7	0	7	6	0	0	0	6	(1)	0
2010	0	0	0	8	0	8	6	0	0	0	6	(1)	0
2011	0	0	0	8	0	8	7	0	0	0	7	(1)	0
2012	0	0	0	8	0	8	7	0	0	0	7	(1)	0
2013	0	0	0	8	0	8	8	0	0	0	8	(1)	0
2014	0	0	0	9	0	9	8	0	0	0	8	(1)	0
2015	0	32	0	9	0	41	8	0	1	0	8	(33)	(9)
2016	0	0	0	0	0	0	9	0	1	0	8	(1)	0
NOM.	0	65	0	138	0	201	108	11	0	0	119	(82)	(32)
NPV	0	24	0	50	0	74	39	4	0	0	42	(32)	

Discount Rate: 9.22

Benefit/Cost Ratio (Col(12) / Col(7)): 0.57

0135

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: WH-6 TANK INSULATION (1995)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	WH-6
(1) UTILITY NON RECURRING COST PER CUSTOMER	$12
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$25
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

0116

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z138 - Pipe Insulation

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.01	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.02	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	32.5	kWh
(5) kWh LINE LOSS PERCENTAGE	7.62	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.84957	
(5) K FACTOR FOR T & D	1.86867	

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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	9.34	%**

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	—	%

0137

* 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 12
— ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

01/30/95

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z139 - Pipe Insulation

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	14	14	0	0	14	1	0	53	0	53
1996	0	0	0	0	0	2	0	0	0	0
1997	0	0	0	0	0	2	0	0	0	0
1998	0	0	0	0	0	2	0	0	0	0
1999	0	0	0	0	0	2	0	0	0	0
2000	0	0	0	0	0	3	0	0	0	0
2001	0	0	0	0	0	3	0	0	0	0
2002	0	0	0	0	0	3	0	0	0	0
2003	0	0	0	0	0	3	0	0	0	0
2004	0	0	0	0	0	3	0	0	0	0
2005	0	0	0	0	0	4	0	0	0	0
2006	0	0	0	0	0	4	0	0	0	0
2007	0	0	0	0	0	4	0	0	0	0
2008	0	0	0	0	0	4	0	0	0	0
2009	0	0	0	0	0	4	0	0	0	0
2010	0	0	0	0	0	4	0	0	0	0
2011	0	0	0	0	0	4	0	0	0	0
2012	0	0	0	0	0	4	0	0	0	0
2013	0	0	0	0	0	4	0	0	0	0
2014	0	0	0	0	0	4	0	0	0	0
2015	0	0	0	0	0	4	0	0	0	0
2016	0	0	0	0	0	4	0	0	0	0
NOM	14	14	0	0	14	67	0	53	0	53
NPV	13	13	0	0	13	35	0	49	0	49

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

0138

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME Z139 - Pipe Insulation

01/30/96

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	7	0	0	0	0	0	0	0	1	1	1
1998	7	0	0	0	0	0	0	0	1	1	3
1999	6	0	0	0	0	0	0	0	1	1	4
2000	6	0	0	0	0	0	0	0	1	1	5
2001	6	0	0	0	0	0	0	0	1	1	6
2002	6	0	0	0	0	0	0	0	1	1	6
2003	5	0	0	0	0	0	0	0	1	1	7
2004	5	0	0	0	0	0	0	0	1	1	8
2005	5	0	0	0	0	0	0	0	1	1	8
2006	4	0	0	0	0	0	0	0	1	0	9
2007	4	0	0	0	0	0	0	0	1	0	9
2008	4	0	0	0	0	0	0	0	1	0	9
2009	4	0	0	0	0	0	0	0	1	0	10
2010	3	0	0	0	0	0	0	0	1	0	10
2011	3	0	0	0	0	0	0	0	1	0	10
2012	3	0	0	0	0	0	0	0	1	0	11
2013	2	0	0	0	0	0	0	0	1	0	11
2014	2	0	0	0	0	0	0	0	1	0	11
2015	2	0	0	0	0	0	0	0	1	0	11
2016	2	0	0	0	0	0	0	0	1	0	11
2017	1	0	0	0	0	0	0	0	1	0	11
2018	1	0	0	0	0	0	0	0	1	0	11
2019	1	0	0	0	0	0	0	0	1	0	11
2020	1	0	0	0	0	0	0	0	1	0	11
2021	1	0	0	0	0	0	0	0	1	0	11
2022	1	0	0	0	0	0	0	0	0	0	12
2023	1	0	0	0	0	0	0	0	0	0	12
2024	0	0	0	0	0	0	0	0	0	0	12
2025	0	0	0	0	0	0	0	0	0	0	12
2026	0	0	0	0	0	0	0	0	0	0	12

IN SERVICE COST ($000)	0
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	0%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.54867

0119

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/30/95

PROGRAM NAME Z139 - Pipe Insulation

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	0	0	0	0	0	0	0	1	0	0	0	0
1998	7.22%	1	1	0	0	0	0	0	1	0	0	0	0
1999	6.68%	0	1	0	1	0	1	0	1	0	0	0	0
2000	6.18%	0	2	0	1	0	1	0	1	0	0	0	0
2001	5.71%	0	2	0	1	0	1	0	1	0	0	0	0
2002	5.29%	0	2	0	1	0	1	0	1	0	0	0	0
2003	4.89%	0	3	0	2	0	2	0	1	0	0	0	0
2004	4.52%	0	3	0	2	0	2	0	1	0	0	0	0
2005	4.46%	0	3	0	2	0	2	0	1	0	0	0	0
2006	4.46%	0	4	0	2	0	2	0	1	0	0	0	0
2007	4.46%	0	4	0	3	0	2	0	1	0	0	0	0
2008	4.46%	0	4	0	3	0	3	0	1	0	0	0	0
2009	4.46%	0	5	0	3	0	3	0	1	0	0	0	0
2010	4.46%	0	5	0	3	0	3	0	1	0	0	0	0
2011	4.46%	0	5	0	4	0	3	0	1	0	0	0	0
2012	4.46%	0	6	0	4	0	4	0	1	0	0	0	0
2013	4.46%	0	6	0	4	0	4	0	1	0	0	0	0
2014	4.46%	0	6	0	4	0	4	0	1	0	0	0	0
2015	4.46%	0	7	0	4	0	4	0	1	0	0	0	0
2016	4.46%	0	7	0	5	0	4	0	1	0	0	0	0
2017	2.23%	0	7	0	5	0	5	0	1	0	0	0	0
2018	0.00%	0	7	0	5	0	5	0	1	0	0	0	0
2019	0.00%	0	7	0	5	0	5	0	1	0	0	0	0
2020	0.00%	0	7	0	6	0	5	0	1	0	0	0	0
2021	0.00%	0	7	0	6	0	5	0	1	0	0	0	0
2022	0.00%	0	7	0	6	0	6	0	1	0	0	0	0
2023	0.00%	0	7	0	6	0	6	0	1	0	0	0	0
2024	0.00%	0	7	0	7	0	6	0	1	0	0	0	0
2025	0.00%	0	7	0	7	0	6	0	1	0	0	0	0
2026	0.00%	0	7	0	7	0	7	0	1	0	0	0	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2020
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	0
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0120

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/30/95

PROGRAM NAME Z139 - Pipe Insulation

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
1997	3.75%	0	0	7	0	0	7	7	7
1998	7.22%	1	0	7	0	0	7	7	7
1999	6.68%	0	0	6	1	0	7	6	6
2000	6.18%	0	0	6	1	0	6	6	6
2001	5.71%	0	0	6	1	0	6	6	6
2002	5.29%	0	0	6	1	0	6	5	6
2003	4.89%	0	0	5	2	0	6	5	5
2004	4.52%	0	0	5	2	0	5	5	5
2005	4.46%	0	0	5	2	0	5	5	5
2006	4.46%	0	0	5	2	0	5	4	4
2007	4.46%	0	0	4	3	0	4	4	4
2008	4.46%	0	0	4	3	0	4	4	4
2009	4.46%	0	0	4	3	1	4	3	4
2010	4.46%	0	0	4	3	1	3	3	3
2011	4.46%	0	0	4	4	1	3	3	3
2012	4.46%	0	0	3	4	1	3	3	3
2013	4.46%	0	0	3	4	1	3	2	3
2014	4.46%	0	0	3	4	1	2	2	2
2015	4.46%	0	0	3	4	1	2	2	2
2016	4.46%	0	0	2	5	1	2	2	2
2017	2.23%	0	0	2	5	1	2	1	1
2018	0.00%	0	0	2	5	1	1	1	1
2019	0.00%	0	0	2	5	1	1	1	1
2020	0.00%	0	0	1	6	1	1	1	1
2021	0.00%	0	0	1	6	0	1	1	1
2022	0.00%	0	0	1	6	0	1	1	1
2023	0.00%	0	0	1	6	0	1	0	1
2024	0.00%	0	0	0	7	0	0	0	0
2025	0.00%	0	0	0	7	0	0	0	0
2026	0.00%	0	0	0	7	0	0	0	0

* Column not specified in workbook

0121

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($MW)	(7) CUMULATIVE AVERAGE SPEND*.3 ($MW)
1994	-3	0.00%	1.000	13.91 %	54.52	27.27
1995	-2	2.80%	1.029	44.55%	179.18	144.12
1996	-1	2.63%	1.053	41.54%	171.47	316.45
				100.00%	405.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($MW)	(9a)* DEBT AFUDC ($MW)	(9b)* CUMULATIVE DEBT AFUDC ($MW)	(9) YEARLY TOTAL AFUDC ($MW)	(9a)* CUMULATIVE TOTAL AFUDC ($MW)	(9b)* CONSTRUCTION PERIOD INTEREST ($MW)	(9c)* CUMULATIVE CPI ($MW)	(9d)* DEFERRED TAXES ($MW)	(9e)* CUMULATIVE DEFERRED TAXES ($MW)	(10) INCREMENTAL YEAR-END BOOK VALUE ($MW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($MW)
1994	-3	27.27	1.20	1.20	2.66	2.66	2.73	2.73	(0.53)	(0.53)	57.51	57.51
1995	-2	147.10	6.50	7.70	18.13	18.11	14.66	17.41	(3.10)	(3.75)	185.31	252.82
1996	-1	336.85	15.08	22.78	37.36	56.46	33.69	51.10	(7.16)	(10.93)	208.85	461.67
				22.78	31.66	56.46		51.10		(10.93)		461.67

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	0	0	0
EQUITY AFUDC	1		
DEBT AFUDC	0	0	1
CPI			
TOTAL			

IN SETVICE YEA	1997
PLANT COSTS	392
AFUDC RATE	10.92%

* Column not specified in workbook

0122

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME Z130 - Pipe Insulation

PSC FORM CE 1.2
PAGE 1 OF 1

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CA/Wh)	AVOIDED MARGINAL FUEL COST (CA/Wh)	INCREASED MARGINAL FUEL COST (CA/Wh)	REPLACEMENT FUEL COST (CA/Wh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.13	1.89	0.00	1.00	1.00
1995	1,000	1,000	0.00	3.43	1.92	0.00	1.00	1.00
1996	1,000	1,000	0.00	3.55	1.82	0.00	1.00	1.00
1997	1,000	1,000	0.00	3.91	2.03	4.28	1.00	1.00
1998	1,000	1,000	0.00	4.15	2.04	4.25	1.00	1.00
1999	1,000	1,000	0.00	4.88	2.19	7.85	1.00	1.00
2000	1,000	1,000	0.00	4.78	2.43	8.21	1.00	1.00
2001	1,000	1,000	0.00	5.25	2.52	8.42	1.00	1.00
2002	1,000	1,000	0.00	5.58	2.59	8.88	1.00	1.00
2003	1,000	1,000	0.00	6.17	2.77	9.28	1.00	1.00
2004	1,000	1,000	0.00	6.71	2.84	9.80	1.00	1.00
2005	1,000	1,000	0.00	7.04	3.14	9.62	1.00	1.00
2006	1,000	1,000	0.00	7.50	3.30	9.52	1.00	1.00
2007	1,000	1,000	0.00	8.20	3.57	9.70	1.00	1.00
2008	1,000	1,000	0.00	8.68	3.81	10.08	1.00	1.00
2009	1,000	1,000	0.00	8.76	3.82	10.57	1.00	1.00
2010	1,000	1,000	0.00	9.66	4.18	10.08	1.00	1.00
2011	1,000	1,000	0.00	9.89	4.14	11.45	1.00	1.00
2012	1,000	1,000	0.00	10.41	4.53	12.04	1.00	1.00
2013	1,000	1,000	0.00	11.16	4.82	13.05	1.00	1.00
2014	1,000	1,000	0.00	11.85	4.88	13.71	1.00	1.00
2015	1,000	1,000	0.00	12.36	5.18	14.19	1.00	1.00
2016	1,000	1,000	0.00	13.12	5.39	15.01	1.00	1.00

0123

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Z139 - Pipe Insulation

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	1	0	0	0	0	2
1998	1	0	0	0	0	2
1999	1	0	0	0	0	2
2000	1	0	0	0	0	2
2001	1	0	0	0	0	2
2002	1	1	0	0	0	2
2003	1	1	0	0	0	2
2004	1	1	0	0	0	2
2005	1	1	0	0	0	2
2006	1	1	0	0	0	2
2007	1	1	0	0	0	2
2008	1	1	0	0	0	2
2009	1	1	0	0	0	2
2010	1	1	0	0	0	2
2011	1	1	0	0	0	2
2012	1	1	0	0	0	2
2013	1	1	0	0	0	2
2014	1	1	0	0	0	2
2015	1	1	0	0	0	2
2016	1	1	0	0	0	2
NOM	20	13	0	1	1	33
NPV	9	4	0	0	0	13

0124

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Z139 - Pipe Insulation

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(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	1	0
1996	0	0	0	0	0	0	1	0
1997	0	0	0	0	0	0	1	0
1998	0	0	0	0	0	0	1	0
1999	0	0	0	0	0	0	2	0
2000	0	0	0	0	0	0	2	0
2001	0	0	0	0	0	0	2	0
2002	0	0	0	0	0	0	2	0
2003	0	0	0	0	0	0	2	0
2004	0	0	0	0	0	0	2	0
2005	0	0	0	0	0	0	2	0
2006	0	0	0	0	0	0	2	0
2007	0	0	0	0	0	0	3	0
2008	0	0	0	0	0	0	3	0
2009	0	0	0	0	0	0	3	0
2010	0	0	0	0	0	0	3	0
2011	0	0	0	0	0	1	3	0
2012	0	0	0	0	0	1	3	0
2013	0	0	0	0	0	1	4	0
2014	0	0	0	0	1	1	4	0
2015	0	0	0	0	1	1	4	0
2016	0	0	0	0	1	1	4	0
NOM.	5	2	7	2	8	10	54	0
NPV	2	1	3	1	3	4	18	0

0125

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z139 - Pipe Insulation

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	14	53	0	67	0	1	1	0	1	(66)	(66)
1996	0	0	0	0	0	0	1	1	0	2	2	(34)
1997	0	0	0	0	0	2	1	1	0	4	4	(13)
1998	0	0	0	0	0	2	1	1	0	4	4	1
1999	0	0	0	0	0	2	1	2	0	4	4	13
2000	0	0	0	0	0	2	1	2	0	4	4	23
2001	0	0	0	0	0	2	1	2	0	4	4	31
2002	0	0	0	0	0	2	1	2	0	4	4	38
2003	0	0	0	0	0	2	1	2	0	5	5	43
2004	0	0	0	0	0	2	1	2	0	5	5	48
2005	0	0	0	0	0	2	1	2	0	5	5	52
2006	0	0	0	0	0	2	1	3	0	5	5	56
2007	0	0	0	0	0	2	1	3	0	5	5	59
2008	0	0	0	0	0	2	1	3	0	6	6	62
2009	0	0	0	0	0	2	1	3	0	6	6	65
2010	0	0	0	0	0	2	1	3	0	6	6	67
2011	0	0	0	0	0	2	1	3	0	6	6	69
2012	0	0	0	0	0	2	1	4	0	6	6	71
2013	0	0	0	0	0	2	1	4	0	6	6	72
2014	0	0	0	0	0	2	1	4	0	6	6	74
2015	0	0	0	0	0	2	1	4	0	7	7	75
2016	0	0	0	0	0	2	1	4	0	7	7	76
NOM	0	14	53	0	67	33	17	54	0	104	39	
NPV	0	13	48	0	62	13	7	18	0	37	(24)	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 0.61

9210

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z139 - Pipe Insulation

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(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	2	0	0	0	2	53	0	0	53	(51)	(47)
1996	4	0	0	0	4	0	0	0	0	4	3
1997	4	0	0	0	4	0	0	0	0	4	3
1998	4	0	0	0	4	0	0	0	0	4	3
1999	4	0	0	0	4	0	0	0	0	4	3
2000	4	0	0	0	4	0	0	0	0	4	2
2001	4	0	0	0	4	0	0	0	0	4	2
2002	4	0	0	0	4	0	0	0	0	4	2
2003	4	0	0	0	4	0	0	0	0	4	2
2004	5	0	0	0	5	0	0	0	0	5	2
2005	5	0	0	0	5	0	0	0	0	5	2
2006	5	0	0	0	5	0	0	0	0	5	2
2007	5	0	0	0	5	0	0	0	0	5	2
2008	5	0	0	0	5	0	0	0	0	5	2
2009	5	0	0	0	5	0	0	0	0	5	2
2010	6	0	0	0	6	0	0	0	0	6	1
2011	6	0	0	0	6	0	0	0	0	6	1
2012	6	0	0	0	6	0	0	0	0	6	1
2013	6	0	0	0	6	0	0	0	0	6	1
2014	7	0	0	0	7	0	0	0	0	7	1
2015	7	0	0	0	7	0	0	0	0	7	1
2016	7	0	0	0	7	0	0	0	0	7	1
NOM	110	0	0	0	110	53	0	0	53	56	
NPV	40	0	0	0	40	49	0	0	49	(9)	

In Service of Gen Unit: 1997

Discount Rate : 0.22

Benefit/Cost Ratio (Col(6) / Col(10)) 0.82

427

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Z139 - Pipe Insulation

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(1) YEAR	(2) INCREASED SUPPLY COST* $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	14	0	1	0	15	1	1	0	0	1	(14)	(13)
1996	0	0	0	2	0	2	1	1	0	0	2	0	0
1997	0	0	0	2	0	2	1	1	0	0	4	2	1
1998	0	0	0	2	0	2	1	1	0	0	4	2	1
1999	0	0	0	2	0	2	1	1	0	0	4	2	1
2000	0	0	0	2	0	2	1	1	0	0	4	2	1
2001	0	0	0	3	0	3	1	1	0	0	4	2	1
2002	0	0	0	3	0	3	1	1	0	0	4	2	1
2003	0	0	0	3	0	3	1	1	0	0	5	2	1
2004	0	0	0	3	0	3	1	1	0	0	5	2	1
2005	0	0	0	3	0	3	1	1	0	0	5	2	1
2006	0	0	0	3	0	3	1	1	0	0	5	2	1
2007	0	0	0	3	0	3	1	1	0	0	5	2	0
2008	0	0	0	3	0	3	1	1	0	0	6	2	1
2009	0	0	0	3	0	3	1	1	0	0	6	2	0
2010	0	0	0	4	0	4	1	1	0	0	6	2	0
2011	0	0	0	4	0	4	1	1	0	0	6	2	0
2012	0	0	0	4	0	4	1	1	0	0	6	2	0
2013	0	0	0	4	0	4	1	1	0	0	6	2	0
2014	0	0	0	4	0	4	1	1	0	0	7	2	0
2015	0	0	0	4	0	4	1	1	0	0			
2016	0	0	0										
NOM.	0	14	0	67	0	81	87	17	0	0	104	23	
NPV	0	13	0	25	0	37	31	7	0	0	37	0	

Discount Rate: 9.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.00

0128

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	WH-7
(1) UTILITY NON RECURRING COST PER CUSTOMER	$13
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$50
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME Z151 - Low Flow Shower Head

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.02 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.02 kW
(3) kW LINE LOSS PERCENTAGE	10.58 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	141.0 kWh
(5) kWh LINE LOSS PERCENTAGE	7.82 %
(6) GROUP LINE LOSS MULTIPLIER	1.0000
(7) CUSTOMER kWh INCREASE AT METER	0.0 kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23 YEARS
(2) GENERATOR ECONOMIC LIFE	30 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.64957
(5) K FACTOR FOR T & D	1.66667

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	9.22 %
* (11) UTILITY AFUDC RATE	10.92 %
* (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	1994
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	1997
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998
(4) BASE YEAR AVOIDED GENERATING COST	392 $/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100 $/kW
(6) BASE YEAR DISTRIBUTION COST	50 $/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80 %**
(8) GENERATOR FIXED O & M COST	24 $/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40 %**
(10) TRANSMISSION FIXED O & M COST	3.20 $/kW
(11) DISTRIBUTION FIXED O & M COST	14.93 $/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	3.40 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	9.34 %**

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	— %

0130

* 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 12
— ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z151 - Low Flow Shower Head

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	13	0	0	13	8	0	21	0	0	21
1996	0	0	0	0	10	0	0	0	0	0
1997	0	0	0	0	10	0	0	0	0	0
1998	0	0	0	0	10	0	0	0	0	0
1999	0	0	0	0	10	0	0	0	0	0
2000	0	0	0	0	11	0	0	0	0	0
2001	0	0	0	0	11	0	0	0	0	0
2002	0	0	0	0	11	0	0	0	0	0
2003	0	0	0	0	12	0	0	0	0	0
2004	0	0	0	0	12	0	0	0	0	0
2005	20	0	0	20	13	0	33	0	0	33
2006	0	0	0	0	13	0	0	0	0	0
2007	0	0	0	0	14	0	0	0	0	0
2008	0	0	0	0	14	0	0	0	0	0
2009	0	0	0	0	15	0	0	0	0	0
2010	0	0	0	0	15	0	0	0	0	0
2011	0	0	0	0	16	0	0	0	0	0
2012	0	0	0	0	16	0	0	0	0	0
2013	0	0	0	0	17	0	0	0	0	0
2014	0	0	0	0	18	0	0	0	0	0
2015	32	0	0	32	18	0	54	0	0	54
2016	0	0	0	0	18	0	0	0	0	0
NOM	65	0	0	65	280	0	108	0	0	108
NPV	24	0	0	24	108	0	40	0	0	40

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME Z101 - Low Flow Shower Head

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	11	0	0	1	0	0	0	0	2	2	2
1998	10	0	0	1	0	0	0	0	2	2	4
1999	10	0	0	1	0	0	0	0	2	2	6
2000	9	0	0	1	0	0	0	0	2	1	7
2001	9	0	0	1	0	0	0	0	2	1	8
2002	8	0	0	1	0	0	0	0	2	1	10
2003	8	0	0	0	0	0	0	0	2	1	11
2004	7	0	0	0	0	0	0	0	2	1	12
2005	7	0	0	0	0	0	0	0	2	1	12
2006	7	0	0	0	0	0	0	0	2	1	13
2007	6	0	0	0	0	0	0	0	1	1	14
2008	6	0	0	0	0	0	0	0	1	1	14
2009	5	0	0	0	0	0	0	0	1	0	15
2010	5	0	0	0	0	0	0	0	1	0	15
2011	4	0	0	0	0	0	0	0	1	0	15
2012	4	0	0	0	0	0	0	0	1	0	16
2013	3	0	0	0	0	0	0	0	1	0	16
2014	3	0	0	0	0	0	0	0	1	0	16
2015	3	0	0	0	0	0	0	0	1	0	16
2016	2	0	0	0	0	0	0	0	1	0	17
2017	2	0	0	0	0	0	0	0	1	0	17
2018	2	0	0	0	0	0	0	0	1	0	17
2019	1	0	0	0	0	0	0	0	1	0	17
2020	1	0	0	0	0	0	0	0	1	0	17
2021	1	0	0	0	0	0	0	0	1	0	17
2022	1	0	0	0	0	0	0	0	1	0	17
2023	0	0	0	0	0	0	0	0	1	0	17
2024	0	0	0	0	0	0	0	0	1	0	17
2025	0	0	0	0	0	0	0	0	1	0	17
2026	0	0	0	0	0	0	0	0	1	0	17

IN SERVICE COST ($000)	0
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.84957

0132

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME Z151 - Low Flow Shower Head

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
1997	3.75%	0	0	10	0	0	11	10	11
1998	7.22%	1	0	10	1	0	10	10	10
1999	6.68%	1	0	10	1	0	10	9	10
2000	6.18%	1	0	9	1	0	9	9	9
2001	5.71%	1	0	9	2	0	9	8	9
2002	5.29%	1	0	8	2	0	8	8	8
2003	4.89%	1	0	8	2	0	8	8	8
2004	4.52%	0	0	8	3	1	8	7	7
2005	4.46%	0	0	7	3	1	7	7	7
2006	4.46%	0	0	7	4	1	7	6	7
2007	4.46%	0	0	7	4	1	6	6	6
2008	4.46%	0	0	6	4	1	6	6	6
2009	4.46%	0	0	6	5	1	6	5	5
2010	4.46%	0	0	6	5	1	5	5	5
2011	4.46%	0	0	5	5	1	5	4	5
2012	4.46%	0	0	5	6	1	4	4	4
2013	4.46%	0	0	5	6	1	4	4	4
2014	4.46%	0	0	4	6	1	4	3	3
2015	4.46%	0	0	4	7	1	3	3	3
2016	4.46%	0	0	4	7	1	3	2	3
2017	2.25%	0	0	3	7	1	2	2	2
2018	0.00%	0	0	3	8	1	2	2	2
2019	0.00%	0	0	2	8	1	2	2	2
2020	0.00%	0	0	2	8	1	2	1	1
2021	0.00%	0	0	2	9	1	1	1	1
2022	0.00%	0	0	1	9	1	1	1	1
2023	0.00%	0	0	1	10	0	1	1	1
2024	0.00%	0	0	1	10	0	1	0	1
2025	0.00%	0	0	0	10	0	0	0	0
2026	0.00%	0	0	0	11	0	0	0	0

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME Z151 - Low Flow Shower Head

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PAGE 1 OF 1

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CAWN)	AVOIDED MARGINAL FUEL COST (CAWN)	INCREASED MARGINAL FUEL COST (CAWN)	REPLACEMENT FUEL COST (CAWN)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	2.93	1.89	0.00	1.00	1.00
1995	1,000	1,000	0.00	3.20	1.92	0.00	1.00	1.00
1996	1,000	1,000	0.00	3.17	1.92	0.00	1.00	1.00
1997	1,000	1,000	0.00	3.38	2.03	4.28	1.00	1.00
1998	1,000	1,000	0.00	3.57	2.04	4.25	1.00	1.00
1999	1,000	1,000	0.00	3.96	2.19	7.85	1.00	1.00
2000	1,000	1,000	0.00	4.18	2.43	8.21	1.00	1.00
2001	1,000	1,000	0.00	4.48	2.52	8.42	1.00	1.00
2002	1,000	1,000	0.00	4.88	2.59	8.66	1.00	1.00
2003	1,000	1,000	0.00	5.32	2.77	9.28	1.00	1.00
2004	1,000	1,000	0.00	5.76	2.84	9.60	1.00	1.00
2005	1,000	1,000	0.00	5.94	3.14	9.82	1.00	1.00
2006	1,000	1,000	0.00	6.14	3.30	9.92	1.00	1.00
2007	1,000	1,000	0.00	6.66	3.57	9.79	1.00	1.00
2008	1,000	1,000	0.00	6.94	3.61	10.06	1.00	1.00
2009	1,000	1,000	0.00	6.90	3.82	10.57	1.00	1.00
2010	1,000	1,000	0.00	7.47	4.10	10.66	1.00	1.00
2011	1,000	1,000	0.00	8.05	4.14	11.45	1.00	1.00
2012	1,000	1,000	0.00	8.37	4.53	12.64	1.00	1.00
2013	1,000	1,000	0.00	8.96	4.62	13.05	1.00	1.00
2014	1,000	1,000	0.00	9.44	4.88	13.71	1.00	1.00
2015	1,000	1,000	0.00	9.91	5.18	14.19	1.00	1.00
2016	1,000	1,000	0.00	10.36	5.39	15.01	1.00	1.00

0136

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Z151 - Low Flow Shower Head

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(1) YEAR	(2) AVOIDED TRANSMISSION CAP COST $/*10	(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	1	0	0	1	2	0
1996	0	0	1	0	0	1	4	0
1997	0	0	1	0	0	1	5	0
1998	0	0	1	0	0	1	6	0
1999	0	0	1	0	0	1	6	0
2000	0	0	0	0	0	1	6	0
2001	0	0	0	0	0	1	7	0
2002	0	0	0	0	0	1	8	0
2003	0	0	0	0	0	1	8	0
2004	0	0	0	0	0	1	8	0
2005	0	0	0	0	0	1	9	0
2006	0	0	0	0	1	1	9	0
2007	0	0	0	0	1	1	10	0
2008	0	0	0	0	1	1	10	0
2009	0	0	0	0	1	1	11	0
2010	0	0	0	0	1	1	11	0
2011	0	0	0	0	1	1	12	0
2012	0	0	0	0	1	1	13	0
2013	0	0	0	0	1	1	13	0
2014	0	0	0	0	1	1	14	0
2015	0	0	0	0	1	1	15	0
2016	0	0	0	0	1	1	15	0
NOM.	7	3	10	0	12	15	181	0
NPV	3	1	4	2	4	6	85	0

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z151 - Low Flow Shower Head

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PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	13	21	0	34	0	1	2	0	3	(31)	(28)
1996	0	0	0	0	0	0	1	4	0	6	6	(24)
1997	0	0	0	0	0	3	1	5	0	9	9	(17)
1998	0	0	0	0	0	3	1	5	0	9	9	(11)
1999	0	0	0	0	0	3	1	6	0	9	9	(5)
2000	0	0	0	0	0	3	1	6	0	9	9	1
2001	0	0	0	0	0	3	1	6	0	10	10	6
2002	0	0	0	0	0	3	1	6	0	10	10	11
2003	0	0	0	0	0	3	1	7	0	10	10	16
2004	0	0	0	0	0	2	1	8	0	11	11	21
2005	0	20	33	0	52	2	1	8	0	12	12	26
2006	0	0	0	0	0	2	1	8	0	12	(40)	6
2007	0	0	0	0	0	2	1	9	0	12	12	10
2008	0	0	0	0	0	2	1	9	0	13	13	14
2009	0	0	0	0	0	2	1	10	0	13	13	18
2010	0	0	0	0	0	2	1	10	0	13	13	21
2011	0	0	0	0	0	2	1	11	0	14	14	25
2012	0	0	0	0	0	2	1	11	0	15	15	28
2013	0	0	0	0	0	2	1	12	0	15	15	31
2014	0	0	0	0	0	2	1	13	0	16	16	34
2015	0	32	54	0	86	2	1	13	0	17	17	37
2016	0	0	0	0	0	2	1	14	0	18	(68)	27
								15	0	18	18	29
NOM	0	85	108	0	172	49	25	191	0	266	93	
NPV	0	34	40	0	85	19	10	85	0	94	29	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.45

0139

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z151 - Low Flow Shower Head

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(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	16	0	0	0	0	21	0	0	21	(13)	(12)
1997	16	0	0	0	16	0	0	0	0	16	14
1998	17	0	0	0	16	0	0	0	0	16	13
1999	17	0	0	0	17	0	0	0	0	17	12
2000	17	0	0	0	17	0	0	0	0	17	11
2001	18	0	0	0	17	0	0	0	0	17	10
2002	18	0	0	0	18	0	0	0	0	18	10
2003	18	0	0	0	18	0	0	0	0	18	9
2004	20	0	0	0	19	0	0	0	0	19	9
2005	21	0	0	0	20	0	0	0	0	20	8
2006	21	0	0	0	21	0	0	0	0	21	8
2007	22	0	0	0	21	33	0	0	33	(12)	(3)
2008	23	0	0	0	22	0	0	0	0	21	7
2009	24	0	0	0	23	0	0	0	0	22	7
2010	24	0	0	0	24	0	0	0	0	23	7
2011	26	0	0	0	24	0	0	0	0	24	6
2012	27	0	0	0	25	0	0	0	0	24	6
2013	28	0	0	0	27	0	0	0	0	26	6
2014	29	0	0	0	28	0	0	0	0	27	6
2015	30	0	0	0	28	0	0	0	0	28	5
2016	32	0	0	0	30	0	0	0	0	28	5
					32	0	0	0	0	(24)	(3)
										32	5
NOM	475	0	0	0	475	108	0	0	108	367	
NPV	175	0	0	0	175	40	0	0	40	134	

In Service of Gen Unit: 1997

Discount Rate : 9.22

Benefit/Cost Ratio (Col(6) / Col(10)) 4.32

0140

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Z151 - Low Flow Shower Head

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	13	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	5	0	18	2	1	0	0	3	(14)	(13)
1997	0	0	0	10	0	10	4	1	0	0	6	(4)	(4)
1998	0	0	0	10	0	10	7	1	0	0	8	(2)	(2)
1999	0	0	0	10	0	10	8	1	0	0	9	(1)	(1)
2000	0	0	0	10	0	10	8	1	0	0	9	(1)	(1)
2001	0	0	0	11	0	11	8	1	0	0	9	(2)	(2)
2002	0	0	0	11	0	11	8	1	0	0	9	(2)	(2)
2003	0	0	0	11	0	11	8	1	0	0	9	(2)	(2)
2004	0	0	0	12	0	11	9	1	0	0	10	(2)	(2)
2005	0	0	0	12	0	12	10	1	0	0	10	(2)	(2)
2006	0	20	0	13	0	12	11	1	0	0	11	(2)	0
2007	0	0	0	13	0	32	11	1	0	0	12	(2)	0
2008	0	0	0	14	0	13	11	1	0	0	12	(2)	0
2009	0	0	0	14	0	14	12	1	0	0	12	(3)	(3)
2010	0	0	0	15	0	14	12	1	0	0	13	(3)	0
2011	0	0	0	15	0	15	12	1	0	0	13	(3)	0
2012	0	0	0	16	0	15	13	1	0	0	13	(3)	0
2013	0	0	0	16	0	16	14	1	0	0	14	(3)	0
2014	0	0	0	17	0	16	14	1	0	0	15	(3)	0
2015	0	32	0	18	0	17	15	1	0	0	16	(3)	0
2016	0	0	0	18	0	18	16	1	0	0	17	(3)	0
				19	0	51	16	1	0	0	18	(3)	(3)
						19	17	1	0	0	18	(3)	0
NOM.	0	85	0	290	0	354	240	25	0	0	265	(89)	
NPV	0	24	0	109	0	131	94	10	0	0	94	(37)	

Discount Rate 8.22

Benefit/Cost Ratio (Col(12) / Col(7)) : 0.72

0143

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	WH-9
(1) UTILITY NON RECURRING COST PER CUSTOMER	$12
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$20
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	•
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	•

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVRS95c - HVAC Residential

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.22	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.29	kW
(3) kW LINE LOSS PERCENTAGE	>4.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	705.1	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.64957	
(5) K FACTOR FOR T & D	1.66867	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	8.34	%**

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	—	%

0144

* 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 12

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: HVRS95e - HVAC Residential

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	18,144	798	138	1,045	728	290	601	43	3,844	3,844	3,844
1998	17,380	765	132	1,001	458	290	601	282	3,529	3,231	6,874
1999	16,516	727	126	951	458	290	601	244	3,398	2,849	9,724
2000	15,686	690	119	904	460	290	601	210	3,275	2,513	12,237
2001	14,892	655	113	858	460	290	601	178	3,155	2,217	14,454
2002	14,129	622	107	814	458	290	601	148	3,041	1,956	16,410
2003	13,392	589	102	771	455	290	601	121	2,930	1,726	18,136
2004	12,682	558	96	731	451	290	601	96	2,824	1,523	19,659
2005	11,997	527	91	690	427	290	601	82	2,719	1,343	21,001
2006	11,294	497	86	651	396	290	601	82	2,615	1,182	22,184
2007	10,601	466	81	611	370	290	601	82	2,511	1,039	23,223
2008	9,908	436	75	571	342	290	601	82	2,407	912	24,135
2009	9,215	405	70	[illegible]	313	290	601	82	2,303	799	24,934
2010	8,522	375	65	491	285	290	601	82	2,199	698	25,632
2011	7,829	344	60	451	256	290	601	82	2,095	604	26,241
2012	7,136	314	54	411	228	290	601	82	1,991	530	26,772
2013	6,443	284	49	371	200	290	601	82	1,887	480	27,231
2014	5,750	253	44	331	171	290	601	82	1,783	398	27,629
2015	5,057	223	39	291	143	290	601	82	1,679	343	27,972
2016	4,364	192	33	251	115	290	601	82	1,575	295	28,267
2017	3,747	165	28	216	241	290	601	(82)	1,482	254	28,521
2018	3,203	144	25	186	377	290	601	(215)	1,412	221	28,742
2019	2,887	127	22	167	381	290	601	(215)	1,354	194	28,937
2020	2,511	110	19	145	345	290	601	(215)	1,296	170	29,107
2021	2,125	93	16	122	330	290	601	(215)	1,238	149	29,256
2022	1,738	76	13	100	314	290	601	(215)	1,180	130	29,386
2023	1,352	59	10	78	298	290	601	(215)	1,122	113	29,500
2024	966	42	7	56	282	290	601	(215)	1,064	98	29,598
2025	579	25	4	33	266	290	601	(215)	1,008	85	29,683
2026	193	8	1	11	250	290	601	(215)	948	73	29,756

IN SERVICE COST ($000)	18,039
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	6%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.84957

0146

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: HVR595x - HVAC Residential

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	669	669	601	601	557	557	43	1,318	0	0	0	43
1998	7.22%	1,287	1,956	601	1,203	557	1,115	282	1,318	0	0	0	282
1999	6.68%	1,191	3,147	601	1,804	557	1,672	244	1,318	0	0	0	244
2000	6.18%	1,102	4,248	601	2,405	557	2,229	210	1,318	0	0	0	210
2001	5.71%	1,018	5,267	601	3,006	557	2,787	178	1,318	0	0	0	178
2002	5.28%	941	6,208	601	3,606	557	3,344	148	1,318	0	0	0	148
2003	4.89%	872	7,080	601	4,208	557	3,902	121	1,318	0	0	0	121
2004	4.52%	806	7,885	601	4,810	557	4,459	96	1,318	0	0	0	96
2005	4.46%	795	8,681	601	5,412	557	5,016	92	1,318	0	0	0	92
2006	4.46%	795	9,476	601	6,013	557	5,574	92	1,318	0	0	0	92
2007	4.46%	795	10,271	601	6,614	557	6,131	92	1,318	0	0	0	92
2008	4.46%	795	11,066	601	7,216	557	6,688	92	1,318	0	0	0	92
2009	4.46%	795	11,861	601	7,817	557	7,246	92	1,318	0	0	0	92
2010	4.46%	795	12,656	601	8,418	557	7,803	92	1,318	0	0	0	92
2011	4.46%	795	13,452	601	9,019	557	8,361	92	1,318	0	0	0	92
2012	4.46%	795	14,247	601	9,621	557	8,918	92	1,318	0	0	0	92
2013	4.46%	795	15,042	601	10,222	557	9,475	92	1,318	0	0	0	92
2014	4.46%	795	15,837	601	10,823	557	10,033	92	1,318	0	0	0	92
2015	4.46%	795	16,632	601	11,425	557	10,590	92	1,318	0	0	0	92
2016	4.46%	795	17,427	601	12,026	557	11,147	92	1,318	0	0	0	92
2017	2.23%	401	17,828	601	12,627	557	11,705	(90)	1,318	0	0	0	(90)
2018	0.00%	0	17,828	601	13,228	557	12,262	(215)	1,318	0	0	0	(215)
2019	0.00%	0	17,828	601	13,830	557	12,820	(215)	1,318	0	0	0	(215)
2020	0.00%	0	17,828	601	14,431	557	13,377	(215)	1,318	0	0	0	(215)
2021	0.00%	0	17,828	601	15,032	557	13,934	(215)	1,318	0	0	0	(215)
2022	0.00%	0	17,828	601	15,634	557	14,492	(215)	1,318	0	0	0	(215)
2023	0.00%	0	17,828	601	16,235	557	15,049	(215)	1,318	0	0	0	(215)
2024	0.00%	0	17,828	601	16,836	557	15,606	(215)	1,318	0	0	0	(215)
2025	0.00%	0	17,828	601	17,438	557	16,164	(215)	1,318	0	0	0	(215)
2026	0.00%	0	17,828	601	18,039	557	16,721	(215)	1,318	0	0	0	(215)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(427)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,318
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

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(1) YEAR	(2) NO YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($A/W)	(7) CUMULATIVE AVERAGE SPENDING ($A/W)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.80%	1.028	44.55%	179.18	144.12
1996	-1	2.63%	1.053	41.54%	171.47	319.45
				100.00%	405.18	

YEAR	NO YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($A/W)	(9a)* DEBT AFUDC ($A/W)	(9b)* CUMULATIVE DEBT AFUDC ($A/W)	(9) YEARLY TOTAL AFUDC ($A/W)	(9a)* CUMULATIVE TOTAL AFUDC ($A/W)	(9b)* CONSTRUCTION PERIOD INTEREST ($A/W)	(9c)* CUMULATIVE CPI ($A/W)	(9d)* DEFERRED TAXES ($A/W)	(9e)* CUMULATIVE DEFERRED TAXES ($A/W)	(10) INCREMENTA YEAR-END BOOK VALUE ($A/W)	(11) CUMULATIVE YEAR-END BOOK VALUE ($A/W)
1994	-3	27.27	1.20	1.20	2.99	2.99	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	18.13	19.11	14.66	17.41	(3.10)	(3.75)	195.31	252.82
1996	-1	336.55	15.08	22.78	37.38	56.49	33.69	51.10	(7.18)	(10.93)	208.85	461.67
			22.78	31.68	58.49		51.10		(10.93)		461.67	

IN SERVICE YEA	1997
PLANT COSTS	392
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	15,832	15,832	15,832
EQUITY AFUDC	1,318		
DEBT AFUDC	889	889	
CPI			1,997
TOTAL	18,079	16,721	17,829

* Column not specified in workbook

0149

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVR585x - HVAC Residential

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	3,844	1,027	0.054	17	19	4,868
1998	3,529	1,070	0.061	19	20	4,587
1999	3,399	1,118	0.332	104	196	4,426
2000	3,275	1,170	0.034	9	14	4,438
2001	3,155	1,226	0.040	13	23	4,371
2002	3,041	1,282	0.042	14	25	4,313
2003	2,930	1,341	0.078	28	44	4,254
2004	2,824	1,400	0.131	49	76	4,197
2005	2,719	1,463	0.077	29	43	4,188
2006	2,615	1,532	0.069	26	36	4,138
2007	2,511	1,604	0.134	48	63	4,100
2008	2,407	1,683	0.123	49	62	4,077
2009	2,303	1,767	0.072	29	36	4,063
2010	2,199	1,857	0.295	120	142	4,034
2011	2,095	1,953	0.255	105	125	4,029
2012	1,991	2,057	0.335	139	173	4,013
2013	1,887	2,168	0.423	176	214	4,015
2014	1,783	2,291	0.427	178	216	4,076
2015	1,679	2,399	0.420	175	209	4,045
2016	1,575	2,524	0.514	214	257	4,056
NOM	51,358	32,919	3.896	1,540	1,994	84,029
NPV	21,894	10,827	1.080	405	560	32,366

0151

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVR95a - HVAC Residential

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	2,722	27,673	0	30,395	0	887	775	0	1,662	(28,733)	(26,307)
1996	0	3,006	29,678	0	32,687	0	1,958	2,442	0	4,399	(28,288)	(50,103)
1997	0	0	0	0	0	4,868	1,850	3,803	0	10,122	10,122	(42,335)
1998	0	0	0	0	0	4,587	1,841	3,822	0	10,250	10,250	(35,126)
1999	0	0	0	0	0	4,426	1,837	4,445	0	10,708	10,708	(28,237)
2000	0	0	0	0	0	4,436	1,837	4,426	0	10,701	10,701	(21,834)
2001	0	0	0	0	0	4,371	1,842	4,848	0	11,061	11,061	(15,988)
2002	0	0	0	0	0	4,313	1,838	5,168	0	11,329	11,329	(10,375)
2003	0	0	0	0	0	4,254	1,859	5,712	0	11,824	11,824	(5,030)
2004	0	0	0	0	0	4,187	1,868	6,205	0	12,270	12,270	48
2005	0	1,977	7,133	0	9,110	4,169	1,861	6,526	0	12,579	3,469	1,361
2006	0	2,329	8,401	0	10,730	4,136	1,866	6,941	0	12,977	2,247	2,141
2007	0	0	0	0	0	4,100	1,918	7,838	0	13,857	13,857	6,479
2008	0	0	0	0	0	4,077	1,942	8,010	0	14,029	14,029	10,556
2009	0	0	0	0	0	4,063	1,970	8,115	0	14,148	14,148	14,325
2010	0	2,778	44,704	0	47,482	4,054	2,002	8,915	0	14,851	(32,631)	6,395
2011	0	2,972	47,883	0	50,855	4,029	2,039	9,243	0	15,309	(35,546)	(1,539)
2012	0	0	0	0	0	4,013	2,080	9,641	0	15,735	15,735	1,677
2013	0	0	0	0	0	4,015	2,126	10,313	0	16,453	16,453	4,750
2014	0	0	0	0	0	4,026	2,175	10,943	0	17,144	17,144	7,692
2015	0	3,242	11,896	0	14,938	4,045	2,227	11,422	0	17,694	2,756	8,124
2016	0	3,837	13,842	0	17,679	4,056	2,267	12,113	0	18,457	778	8,239
NOM	0	22,866	191,011	0	213,876	84,026	42,070	151,267	0	277,366	63,489	
NPV	0	8,971	81,239	0	90,210	32,366	16,751	49,329	0	98,446	8,236	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.09

0153

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVR98Ss - HVAC Residential

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	2,722	5,835	1,590	0	10,148	775	887	0	0	1,662	(8,486)	(7,769)
1996	0	3,009	6,008	4,956	0	13,971	2,442	1,858	0	0	4,300	(9,671)	(15,678)
1997	0	0	0	6,715	0	6,715	8,271	1,850	0	0	10,122	3,407	(13,262)
1998	0	0	0	6,822	0	6,822	6,419	1,841	0	0	10,260	3,438	(10,845)
1999	0	0	0	6,951	0	6,951	8,871	1,837	0	0	10,708	3,756	(8,479)
2000	0	0	0	7,117	0	7,117	8,864	1,837	0	0	10,701	3,583	(6,318)
2001	0	0	0	7,361	0	7,361	9,220	1,842	0	0	11,061	3,700	(4,323)
2002	0	0	0	7,606	0	7,606	9,481	1,848	0	0	11,329	3,723	(2,485)
2003	0	0	0	7,950	0	7,950	9,998	1,858	0	0	11,824	3,873	(734)
2004	0	0	0	8,157	0	8,157	10,402	1,868	0	0	12,270	4,112	868
2005	0	1,977	882	8,404	0	11,264	10,695	1,881	0	0	12,576	1,312	1,488
2006	0	2,329	883	8,881	0	12,002	11,079	1,898	0	0	12,977	975	1,804
2007	0	0	0	9,070	0	9,070	11,739	1,918	0	0	13,657	4,586	3,261
2008	0	0	0	9,358	0	9,358	12,067	1,942	0	0	14,009	4,673	4,620
2009	0	0	0	9,715	0	9,715	12,178	1,970	0	0	14,148	4,433	5,800
2010	0	2,779	4,953	9,989	0	17,720	12,948	2,002	0	0	14,951	(2,769)	5,125
2011	0	2,972	5,013	10,442	0	18,427	13,271	2,038	0	0	15,309	(3,117)	4,429
2012	0	0	0	10,880	0	10,880	13,955	2,080	0	0	15,735	4,875	5,425
2013	0	0	0	11,436	0	11,436	14,307	2,128	0	0	16,453	5,017	6,364
2014	0	0	0	11,970	0	11,970	14,969	2,175	0	0	17,144	5,174	7,250
2015	0	3,242	882	12,268	0	16,392	15,467	2,227	0	0	17,694	1,302	7,454
2016	0	3,837	883	12,667	0	17,386	16,169	2,287	0	0	18,457	781	7,584
NOM.	0	22,866	25,558	190,263	0	238,707	235,295	42,070	0	0	277,366	38,658	
NPV	0	9,971	13,663	68,247	0	90,882	81,695	16,751	0	0	98,446	7,564	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.08

0155

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVR601R- HVAC Residential

01/30/95

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.21	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.29	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	683.4	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.65890	
(5) K FACTOR FOR T & D	1.66867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOME	***	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	558	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	80	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	0.34	%**

V. NON-FUEL ENERGY AND DEMAND CHARGES

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

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* 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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVRS01R- HVAC Residential

01/00/00

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	75,108	3,306	571	4,326	3,022	1,100	2,480	100	15,087	15,087	15,087
2002	71,861	3,166	547	4,144	1,011	1,100	2,480	1,166	14,013	13,379	28,467
2003	68,760	3,019	520	3,939	1,017	1,100	2,480	1,015	14,077	11,800	40,267
2004	64,956	2,858	494	3,741	1,018	1,100	2,480	874	13,563	10,409	50,676
2005	61,888	2,713	469	3,562	1,017	1,100	2,480	741	13,089	9,183	59,859
2006	58,808	2,574	445	3,370	1,009	1,100	2,480	618	12,595	8,103	67,963
2007	55,495	2,440	422	3,195	1,005	1,100	2,480	508	12,130	7,149	75,112
2008	52,529	2,311	399	3,009	1,079	1,100	2,480	404	11,807	6,308	81,420
2009	49,653	2,185	377	2,860	1,779	1,100	2,480	307	11,265	5,562	86,982
2010	46,786	2,059	356	2,695	1,801	1,100	2,480	307	10,835	4,886	91,868
2011	42,919	1,832	334	2,530	1,544	1,100	2,480	307	10,405	4,309	96,168
2012	41,052	1,806	312	2,366	1,428	1,100	2,480	307	9,974	3,779	99,948
2013	38,185	1,680	290	2,199	1,309	1,100	2,480	307	9,544	3,311	103,277
2014	35,318	1,554	268	2,034	1,192	1,100	2,480	307	9,113	2,896	106,171
2015	32,452	1,429	247	1,868	1,074	1,100	2,480	307	8,683	2,525	108,696
2016	29,585	1,302	225	1,704	957	1,100	2,480	307	8,252	2,197	110,894
2017	26,718	1,176	202	1,539	839	1,100	2,480	307	7,822	1,907	112,800
2018	23,851	1,049	181	1,374	722	1,100	2,480	307	7,391	1,650	114,450
2019	20,984	923	159	1,209	605	1,100	2,480	307	6,961	1,422	115,873
2020	18,117	797	138	1,044	487	1,100	2,480	307	6,530	1,222	117,094
2021	15,250	671	116	880	1,008	1,100	2,480	307	6,147	1,053	118,147
2022	13,049	574	99	753	1,080	1,100	2,480	(338)	5,868	918	119,065
2023	12,008	528	91	693	1,001	1,100	2,480	(975)	5,817	807	119,873
2024	10,439	459	79	601	1,435	1,100	2,480	(975)	5,379	707	120,579
2025	8,869	390	67	509	1,268	1,100	2,480	(975)	5,136	618	121,198
2026	7,301	318	55	419	1,303	1,100	2,480	(975)	4,894	539	121,737
2027	5,810	247	43	334	1,238	1,100	2,480	(975)	4,654	470	122,208
2028	4,012	177	30	231	1,172	1,100	2,480	(975)	4,413	408	122,614
2029	2,407	106	18	139	1,106	1,100	2,480	(975)	4,172	353	122,967
2030	802	35	6	46	1,041	1,100	2,480	(975)	3,931	304	123,271

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65650

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page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/30/96

PROGRAM NAME: HVRS01R- HVAC Residential

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2001	3.75%	2,751	188	71,819	2,480	(1,867)	79,441	73,775	76,108
2002	7.22%	5,297	1,188	66,439	4,990	(999)	73,775	70,127	71,951
2003	6.68%	4,901	1,015	66,958	7,440	327	70,127	66,832	68,380
2004	6.18%	4,534	874	94,479	9,920	1,200	66,832	63,279	64,956
2005	5.71%	4,189	741	61,999	12,400	1,941	63,279	60,058	61,668
2006	5.29%	3,874	619	59,519	14,880	2,560	60,058	56,959	58,505
2007	4.89%	3,588	509	57,039	17,360	3,069	56,959	53,970	55,465
2008	4.52%	3,316	404	54,559	19,840	3,473	53,970	51,089	52,529
2009	4.46%	3,272	367	52,079	22,320	3,840	51,089	48,220	49,653
2010	4.46%	3,272	367	49,599	24,800	4,247	48,220	45,353	46,786
2011	4.46%	3,272	367	47,119	27,280	4,634	45,353	42,486	43,919
2012	4.46%	3,272	367	44,639	29,760	5,020	42,486	39,619	41,052
2013	4.46%	3,272	367	42,159	32,239	5,407	39,619	36,752	38,185
2014	4.46%	3,272	367	39,679	34,719	5,794	36,752	33,886	35,319
2015	4.46%	3,272	367	37,199	37,199	6,181	33,886	31,019	32,452
2016	4.46%	3,272	367	34,719	39,679	6,568	31,019	28,151	29,585
2017	4.46%	3,272	367	32,239	42,159	6,955	28,151	25,284	26,718
2018	4.46%	3,272	367	29,759	44,639	7,342	25,284	22,417	23,851
2019	4.46%	3,272	367	27,280	47,119	7,729	22,417	19,550	20,984
2020	4.46%	3,272	367	24,800	49,599	8,116	19,550	16,684	18,117
2021	2.25%	1,651	(238)	22,320	52,079	7,877	16,684	14,442	15,563
2022	0.00%	0	(570)	19,840	54,559	7,002	14,442	12,877	13,660
2023	0.00%	0	(570)	17,360	57,039	6,127	12,877	11,233	12,055
2024	0.00%	0	(570)	14,880	59,519	5,252	11,233	9,828	10,530
2025	0.00%	0	(570)	12,400	61,999	4,376	9,828	8,023	8,926
2026	0.00%	0	(570)	9,920	64,479	3,501	8,023	6,419	7,221
2027	0.00%	0	(570)	7,440	66,959	2,626	6,419	4,814	5,616
2028	0.00%	0	(570)	4,960	69,439	1,751	4,814	3,209	4,012
2029	0.00%	0	(570)	2,480	71,919	875	3,209	1,605	2,407
2030	0.00%	0	(570)	0	74,399	0	1,605	0	802

* Column not specified in workbook

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: HVRS95x - HVAC Residential

PSC FORM CE 1.1A
PAGE 2b OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
1987	3.75%	669	43	17,[illegible]	601	(384)	18,466	17,822	18,144
1988	7.22%	1,287	282	16,838	1,203	(103)	17,822	16,838	17,380
1989	6.68%	1,191	244	16,235	1,804	142	16,838	16,093	16,516
1990	6.18%	1,102	210	15,634	2,405	352	15,093	15,282	15,688
2001	5.71%	1,018	178	15,032	3,006	529	15,282	14,503	14,892
2002	5.29%	941	148	14,431	3,608	676	14,503	13,754	14,129
2003	4.89%	872	121	13,830	4,209	799	13,754	13,031	13,392
2004	4.52%	808	96	13,229	4,810	895	13,031	12,334	12,682
2005	4.46%	795	92	12,627	5,412	966	12,334	11,641	11,987
2006	4.46%	795	92	12,026	6,013	1,070	11,641	10,948	11,294
2007	4.46%	795	92	11,425	6,614	1,170	10,948	10,253	10,601
2008	4.46%	795	92	10,823	7,216	1,262	10,255	9,562	9,908
2009	4.46%	795	92	10,222	7,817	1,353	9,562	8,869	9,215
2010	4.46%	795	92	9,621	8,418	1,445	8,869	8,176	8,522
2011	4.46%	795	92	9,019	9,019	1,537	8,176	7,483	7,829
2012	4.46%	795	92	8,418	9,621	1,629	7,483	6,790	7,136
2013	4.46%	795	92	7,817	10,222	1,720	6,790	6,097	6,443
2014	4.46%	795	92	7,216	10,823	1,812	6,097	5,404	5,750
2015	4.46%	795	92	6,614	11,425	1,904	5,404	4,711	5,057
2016	4.46%	795	92	6,013	12,026	1,995	4,711	4,018	4,364
2017	2.25%	401	(80)	5,412	12,627	1,835	4,018	3,477	3,747
2018	0.00%	0	(215)	4,810	13,229	1,720	3,477	3,090	3,283
2019	0.00%	0	(215)	4,209	13,830	1,505	3,090	2,704	2,897
2020	0.00%	0	(215)	3,608	14,431	1,290	2,704	2,318	2,511
2021	0.00%	0	(215)	3,006	15,032	1,075	2,318	1,931	2,125
2022	0.00%	0	(215)	2,405	15,634	860	1,931	1,545	1,738
2023	0.00%	0	(215)	1,804	16,235	645	1,545	1,159	1,352
2024	0.00%	0	(215)	1,203	16,836	430	1,159	773	966
2025	0.00%	0	(215)	601	17,438	215	773	386	579
2026	0.00%	0	(215)	0	18,038	0	386	0	193

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVR9854 - HVAC Residential

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CA/kWh)	(5) AVOIDED MARGINAL FUEL COST (CA/kWh)	(6)* INCREASED MARGINAL FUEL COST (CA/kWh)	(7) REPLACEMENT FUEL COST (CA/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.11	1.89	0.00	1.00	1.00
1995	64,681	64,681	0.00	3.40	1.92	0.00	1.00	1.00
1996	133,700	133,700	0.00	3.48	1.92	0.00	1.00	1.00
1997	133,700	133,700	0.00	3.82	2.03	4.28	1.00	1.00
1998	133,700	133,700	0.00	4.05	2.04	4.25	1.00	1.00
1999	133,700	133,700	0.00	4.71	2.19	7.85	1.00	1.00
2000	133,700	133,700	0.00	4.88	2.43	8.21	1.00	1.00
2001	133,700	133,700	0.00	5.14	2.52	8.42	1.00	1.00
2002	133,700	133,700	0.00	5.48	2.59	8.98	1.00	1.00
2003	133,700	133,700	0.00	6.06	2.77	9.29	1.00	1.00
2004	133,700	133,700	0.00	6.56	2.84	9.80	1.00	1.00
2005	133,700	133,700	0.00	6.92	3.14	9.82	1.00	1.00
2006	133,700	133,700	0.00	7.36	3.30	9.52	1.00	1.00
2007	133,700	133,700	0.00	8.10	3.57	9.70	1.00	1.00
2008	133,700	133,700	0.00	8.48	3.81	10.08	1.00	1.00
2009	133,700	133,700	0.00	8.90	3.92	10.57	1.00	1.00
2010	133,700	133,700	0.00	9.45	4.18	10.86	1.00	1.00
2011	133,700	133,700	0.00	9.80	4.14	11.45	1.00	1.00
2012	133,700	133,700	0.00	10.22	4.53	12.84	1.00	1.00
2013	133,700	133,700	0.00	10.53	4.62	13.05	1.00	1.00
2014	133,700	133,700	0.00	11.00	4.88	13.71	1.00	1.00
2015	133,700	133,700	0.00	12.11	5.18	14.19	1.00	1.00
2016	133,700	133,700	0.00	12.64	5.39	15.01	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 T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVR995x - HVAC Residential

PSC FORM CE 2.2
PAGE 1 OF 1

YEAR	(1)	(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994		0	0	0	0	0	0	0	0
1995		369	63	432	174	281	435	775	0
1996		808	134	942	360	556	916	2,442	0
1997		782	139	921	350	579	929	3,803	0
1998		758	145	903	337	604	941	3,822	0
1999		729	151	880	326	631	957	4,445	0
2000		704	158	862	315	660	975	4,429	0
2001		680	166	846	304	692	996	4,648	0
2002		657	173	831	294	724	1,017	5,188	0
2003		635	181	817	284	757	1,041	5,712	0
2004		614	189	803	274	790	1,065	6,205	0
2005		593	198	790	265	826	1,091	6,539	0
2006		571	207	778	255	864	1,120	6,941	0
2007		550	217	767	246	905	1,151	7,838	0
2008		529	228	756	238	949	1,186	8,010	0
2009		507	239	746	227	997	1,224	8,115	0
2010		486	251	737	217	1,048	1,265	8,915	0
2011		465	264	729	208	1,102	1,310	8,243	0
2012		443	278	722	199	1,161	1,359	8,641	0
2013		422	293	715	189	1,222	1,411	10,313	0
2014		401	308	709	179	1,287	1,466	10,943	0
2015		379	325	704	170	1,354	1,523	11,422	0
2016		361	341	702	161	1,424	1,585	12,113	0
NOM.		12,457	4,649	17,106	5,570	19,395	24,964	151,297	0
NPV		5,736	1,634	7,370	2,565	6,816	9,381	48,329	0

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

0152

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVR99x - HVAC Residential

PSC FORM CE 2.4
PAGE 1 OF 1

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	2,807	0	5,635	0	8,443	27,673	0	0	27,673	(19,231)	(17,807)
1996	8,124	0	6,006	0	14,130	29,678	0	0	29,678	(15,548)	(30,640)
1997	11,008	0	0	0	11,008	0	0	0	0	11,008	(22,192)
1998	11,398	0	0	0	11,183	0	0	0	0	11,183	(14,334)
2000	11,668	0	0	0	11,398	0	0	0	0	11,398	(7,002)
2001	12,067	0	0	0	11,668	0	0	0	0	11,668	(130)
2002	12,488	0	0	0	12,067	0	0	0	0	12,067	6,379
2003	13,033	0	0	0	12,488	0	0	0	0	12,488	12,534
2004	13,373	0	0	0	13,033	0	0	0	0	13,033	18,428
2005	13,777	0	862	0	13,373	0	0	0	0	13,373	23,989
2006	14,230	0	903	0	14,660	7,133	0	0	7,133	7,527	26,813
2007	14,869	0	0	0	15,223	8,401	0	0	8,401	6,822	29,179
2008	15,338	0	0	0	14,869	0	0	0	0	14,869	33,902
2009	15,926	0	0	0	15,338	0	0	0	0	15,338	38,363
2010	16,375	0	4,953	0	15,926	0	0	0	0	15,926	42,503
2011	17,118	0	5,013	0	21,329	44,704	0	0	44,704	(23,375)	36,905
2012	17,803	0	0	0	22,131	47,883	0	0	47,883	(25,752)	31,157
2013	18,747	0	0	0	17,803	0	0	0	0	17,803	34,795
2014	19,623	0	0	0	18,747	0	0	0	0	18,747	38,303
2015	20,111	0	862	0	19,623	0	0	0	0	19,623	41,864
2016	21,083	0	903	0	20,993	11,696	0	0	11,696	9,297	43,122
					22,085	13,842	0	0	13,842	8,243	44,308
NOM	311,940	0	25,558	0	337,498	191,011	0	0	191,011	146,487	
NPV	111,861	0	13,863	0	125,544	81,239	0	0	81,239	44,306	

In Service of Gen Unit: 1997

Discount Rate: 9.22

Benefit/Cost Ratio (Col(6) / Col(10)): 1.55

0154

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM		
	RSC-1	RSC-21A	RSC-24
(1) UTILITY NON RECURRING COST PER CUSTOMER	$39	$39	$39
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$791	$625	$142
(6) CUSTOMER O&M COST	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$27	$152	$29
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

0156

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/30/08

PROGRAM NAME: HVRB01R- HVAC Residential

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	2,751	2,751	2,460	2,460	2,299	2,299	188	6,326	0	0	0	188
2002	7.22%	5,297	8,048	2,460	4,920	2,299	4,598	1,166	6,326	0	0	0	1,166
2003	6.68%	4,901	12,948	2,460	7,440	2,299	6,907	1,015	6,326	0	0	0	1,015
2004	6.18%	4,534	17,483	2,460	9,920	2,299	9,076	874	6,326	0	0	0	874
2005	5.71%	4,188	21,672	2,480	12,400	2,299	11,345	741	6,326	0	0	0	741
2006	5.29%	3,874	25,546	2,460	14,880	2,299	13,014	619	6,326	0	0	0	619
2007	4.89%	3,588	29,134	2,460	17,360	2,299	15,803	509	6,326	0	0	0	509
2008	4.52%	3,316	32,450	2,480	19,840	2,299	16,152	404	6,326	0	0	0	404
2009	4.46%	3,272	35,722	2,460	22,320	2,299	20,421	367	6,326	0	0	0	367
2010	4.46%	3,272	38,994	2,460	24,800	2,299	22,889	367	6,326	0	0	0	367
2011	4.46%	3,272	42,266	2,460	27,280	2,299	25,356	367	6,326	0	0	0	367
2012	4.46%	3,272	45,538	2,460	29,760	2,299	27,228	367	6,326	0	0	0	367
2013	4.46%	3,272	48,810	2,460	32,239	2,299	29,457	367	6,326	0	0	0	367
2014	4.46%	3,272	52,083	2,460	34,719	2,299	31,756	367	6,326	0	0	0	367
2015	4.46%	3,272	55,355	2,460	37,199	2,299	34,026	367	6,326	0	0	0	367
2016	4.46%	3,272	58,627	2,460	39,679	2,299	36,304	367	6,326	0	0	0	367
2017	4.46%	3,272	61,899	2,460	42,159	2,299	38,573	367	6,326	0	0	0	367
2018	4.46%	3,272	65,171	2,460	44,639	2,299	40,842	367	6,326	0	0	0	367
2019	4.46%	3,272	68,443	2,460	47,118	2,299	43,112	367	6,326	0	0	0	367
2020	4.46%	3,272	71,715	2,460	49,598	2,299	45,381	367	6,326	0	0	0	367
2021	2.23%	1,651	73,366	2,460	52,078	2,299	47,669	(230)	6,326	0	0	0	(230)
2022	0.00%	0	73,366	2,460	54,558	2,299	49,918	(875)	6,326	0	0	0	(875)
2023	0.00%	0	73,366	2,460	57,039	2,299	52,186	(875)	6,326	0	0	0	(875)
2024	0.00%	0	73,366	2,460	59,519	2,299	54,457	(875)	6,326	0	0	0	(875)
2025	0.00%	0	73,366	2,460	61,999	2,299	56,726	(875)	6,326	0	0	0	(875)
2026	0.00%	0	73,366	2,460	64,479	2,299	58,995	(875)	6,326	0	0	0	(875)
2027	0.00%	0	73,366	2,460	66,958	2,299	61,264	(875)	6,326	0	0	0	(875)
2028	0.00%	0	73,366	2,460	69,438	2,299	63,533	(875)	6,326	0	0	0	(875)
2029	0.00%	0	73,366	2,460	71,918	2,299	65,802	(875)	6,326	0	0	0	(875)
2030	0.00%	0	73,366	2,460	74,398	2,299	68,071	(875)	6,326	0	0	0	(875)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 6)	(2,043)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 6)	6,326
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0160

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($MW)	(7) CUMULATIVE AVERAGE SPENDING ($MW)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.00%	1.020	0.00%	0.00	0.00
1996	-5	2.02%	1.053	0.84%	4.62	2.46
1997	-4	3.15%	1.086	1.66%	10.03	6.93
1998	-3	3.02%	1.128	13.00%	81.35	55.62
1999	-2	3.85%	1.169	60.50%	393.17	292.69
2000	-1	3.66%	1.214	24.00%	162.01	570.47
				100.00%	661.40	

YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($MW)	(9a)* DEBT AFUDC ($MW)	(9b)* CUMULATIVE DEBT AFUDC ($MW)	(9) YEARLY TOTAL AFUDC ($MW)	(9a)* CUMULATIVE TOTAL AFUDC ($MW)	(9b)* CONSTRUCTION PERIOD INTEREST ($MW)	(9c)* CUMULATIVE CPI ($MW)	(9d)* DEFERRED TAXES ($MW)	(9e)* CUMULATIVE DEFERRED TAXES ($MW)	(10) INCREMENTAL YEAR-END BOOK VALUE ($MW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($MW)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.46	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.39	0.45	0.56	1.12	1.39	1.02	1.26	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.95	(1.22)	(1.49)	87.81	103.94
1999	-2	300.52	13.29	16.37	32.89	40.52	29.98	36.94	(6.44)	(7.93)	426.15	530.09
2000	-1	611.10	27.34	43.61	67.80	108.22	60.74	97.68	(12.02)	(20.06)	229.81	758.70
			43.61	63.72	108.22		97.68		(20.06)		758.70	

		BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
IN SERVICE YEA	2001	CONSTRUCTION CASH	63,800	63,800
PLANT COSTS	558	EQUITY AFUDC	6,326	
AFUDC RATE	10.92%	DEBT AFUDC	4,270	4,270
		CPI		9,566
		TOTAL	74,396	68,071

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME HVR501R- HVAC Residential

PSC FORM CE 1.3
PAGE 1 OF 1

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CAWN)	AVOIDED MARGINAL FUEL COST (CAWN)	INCREASED MARGINAL FUEL COST (CAWN)	REPLACEMENT FUEL COST (CAWN)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.12	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.41	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.51	1.92	0.00	1.00	1.00
1997	74,782	74,782	0.00	3.85	2.03	0.00	1.00	1.00
1998	164,272	164,272	0.00	4.08	2.04	0.00	1.00	1.00
1999	253,762	253,762	0.00	4.76	2.19	0.00	1.00	1.00
2000	343,252	343,252	0.00	4.72	2.43	0.00	1.00	1.00
2001	343,252	343,252	0.00	5.17	2.52	5.01	1.00	1.00
2002	343,252	343,252	0.00	5.51	2.59	5.43	1.00	1.00
2003	343,252	343,252	0.00	6.08	2.77	5.37	1.00	1.00
2004	343,252	343,252	0.00	6.62	2.84	5.85	1.00	1.00
2005	343,252	343,252	0.00	6.96	3.14	5.89	1.00	1.00
2006	343,252	343,252	0.00	7.40	3.30	6.32	1.00	1.00
2007	343,252	343,252	0.00	8.16	3.67	6.85	1.00	1.00
2008	343,252	343,252	0.00	8.58	3.81	7.04	1.00	1.00
2009	343,252	343,252	0.00	8.66	3.92	7.57	1.00	1.00
2010	343,252	343,252	0.00	9.52	4.18	8.27	1.00	1.00
2011	343,252	343,252	0.00	9.86	4.14	8.53	1.00	1.00
2012	343,252	343,252	0.00	10.28	4.53	8.96	1.00	1.00
2013	343,252	343,252	0.00	11.00	4.92	9.57	1.00	1.00
2014	343,252	343,252	0.00	11.88	4.88	10.14	1.00	1.00
2015	343,252	343,252	0.00	12.19	5.19	10.51	1.00	1.00
2016	343,252	343,252	0.00	12.83	5.38	11.12	1.00	1.00
2017	343,252	343,252	0.00	13.67	5.66	11.73	1.00	1.00
2018	343,252	343,252	0.00	13.67	5.66	12.38	1.00	1.00
2019	343,252	343,252	0.00	14.47	6.25	13.06	1.00	1.00
2020	343,252	343,252	0.00	15.31	6.57	13.77	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0163

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVRS01R- HVAC Residential

01/30/96

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	480	76	536	206	316	522	963	0
1998	1,016	174	1,189	454	724	1,178	3,336	0
1999	1,573	280	1,853	703	1,169	1,872	8,800	0
2000	2,131	397	2,529	953	1,854	2,807	9,639	0
2001	2,094	416	2,479	923	1,734	2,656	12,127	0
2002	1,992	435	2,427	891	1,813	2,704	12,829	0
2003	1,924	455	2,379	860	1,897	2,757	14,293	0
2004	1,859	475	2,334	831	1,980	2,811	15,526	0
2005	1,797	496	2,293	833	2,069	2,873	16,324	0
2006	1,726	510	2,256	776	2,167	2,943	17,372	0
2007	1,677	544	2,221	750	2,266	3,016	19,136	0
2008	1,618	570	2,189	724	2,380	3,103	20,057	0
2009	1,581	599	2,180	698	2,489	3,186	20,302	0
2010	1,503	629	2,132	672	2,826	3,298	22,334	0
2011	1,445	662	2,107	646	2,783	3,408	23,132	0
2012	1,387	697	2,084	620	2,909	3,529	24,127	0
2013	1,329	734	2,063	594	3,063	3,657	25,810	0
2014	1,270	773	2,044	568	3,225	3,794	27,400	0
2015	1,212	813	2,026	542	3,393	3,936	28,884	0
2016	1,154	856	2,010	516	3,570	4,086	30,335	0
2017	1,098	900	1,998	490	3,756	4,245	32,067	0
2018	1,041	947	1,988	466	3,961	4,416	32,067	0
2019	983	996	1,980	444	4,158	4,600	33,944	0
2020	562	1,048	2,000	426	4,372	4,798	35,932	0
NOM.	34,791	14,409	49,202	15,555	60,453	76,008	404,583	0
NPV	12,041	3,713	15,754	5,384	15,488	20,872	117,838	0

0165

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVR501A: HVAC Residential

01/20/96

PSC FORM CE 2.3
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(0.00)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	2,380	32,195	0	26,575	0	1,058	982	0	2,041	(23,534)	(20,730)
1999	0	4,217	40,850	0	45,068	0	2,368	3,336	0	5,704	(39,363)	(32,399)
2000	0	4,408	42,688	0	47,094	0	3,725	6,800	0	10,525	(36,568)	(78,821)
2001	0	4,839	44,662	0	48,202	0	5,135	8,639	0	14,774	(34,428)	(97,238)
2002	0	0	0	0	0	10,182	5,139	12,137	0	27,458	27,458	(82,424)
2003	0	0	0	0	0	8,991	5,131	12,929	0	27,021	27,021	(66,002)
2004	0	0	0	0	0	10,188	5,139	14,283	0	29,598	29,598	(55,702)
2005	0	0	0	0	0	8,551	5,145	15,539	0	29,222	29,222	(43,938)
2006	0	0	0	0	0	10,148	5,105	16,324	0	31,636	31,636	(31,821)
2007	0	0	0	0	0	8,648	5,139	17,272	0	32,419	32,419	(20,373)
2008	0	0	0	0	0	10,483	5,282	18,139	0	34,809	21,869	(12,308)
2009	0	0	0	0	0	10,869	5,356	20,057	0	36,016	30,302	(7,468)
2010	0	2,709	10,063	0	12,839	8,574	5,430	20,300	0	35,333	18,704	(2,407)
2011	0	3,410	12,300	0	15,713	7,942	5,516	22,334	0	35,707	18,398	1,991
2012	0	3,591	12,918	0	16,509	10,305	5,613	23,132	0	39,053	39,053	10,676
2013	0	3,783	13,577	0	17,360	10,572	5,720	24,127	0	40,713	(14,679)	7,796
2014	0	0	0	0	0	10,818	5,837	25,818	0	42,152	(28,839)	2,403
2015	0	3,107	51,892	0	54,799	10,008	5,991	27,420	0	43,243	(21,810)	(2,886)
2016	0	4,145	66,045	0	70,990	8,488	6,099	28,594	0	44,042	(34,600)	(8,421)
2017	0	4,305	70,389	0	74,753	8,383	6,242	30,328	0	45,814	45,814	(1,943)
2018	0	4,892	74,050	0	78,942	8,063	6,404	32,067	0	47,392	26,137	1,503
2019	0	0	0	0	0	8,672	6,588	32,067	0	47,143	21,057	4,129
2020	0	4,813	16,842	0	21,356	8,032	6,708	33,944	0	48,586	21,122	6,456
2021	0	5,002	21,425	0	26,087	7,550		35,932	0	50,279	21,409	8,615
2022	0	5,058	21,467	0	27,443							#VALUE!
2023	0	6,288	22,606	0	28,670							#VALUE!
NOM	0	66,947	553,270	0	622,218	190,610	125,260	484,563	0	800,483	178,265	#VALUE!
NPV	0	20,327	178,710	0	197,037	51,188	36,629	117,838	0	206,653	8,615	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col[11] / Col[6]): 1.04

0186

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVR501R- HVAC Residential

01/20/95

PSC FORM CE 2.4
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	2,961	1	6,220	0	9,177	32,195	0	0	32,195	(23,018)	(17,885)
1998	9,837	0	7,811	0	17,248	40,850	0	0	40,850	(23,602)	(16,584)
1999	17,239	0	7,811	0	24,850	42,688	0	0	42,688	(17,838)	(11,479)
2000	25,247	0	7,812	0	32,858	44,652	0	0	44,652	(11,794)	(6,947)
2001	30,038	0	0	0	30,038	0	0	0	0	30,038	16,199
2002	31,039	0	0	0	31,039	0	0	0	0	31,039	15,325
2003	32,444	0	0	0	32,444	0	0	0	0	32,444	14,888
2004	33,288	0	0	0	33,288	0	0	0	0	33,288	13,777
2005	34,299	0	0	0	34,299	0	0	0	0	34,299	12,888
2006	35,424	0	0	0	35,424	0	0	0	0	35,424	12,200
2007	37,013	0	1,135	0	38,148	10,053	0	0	10,053	28,095	8,824
2008	38,180	0	1,304	0	39,504	12,303	0	0	12,303	27,201	7,811
2009	39,648	0	1,304	0	40,969	12,718	0	0	12,918	28,051	7,469
2010	40,783	0	1,304	0	42,087	13,577	0	0	13,577	28,510	6,900
2011	42,812	0	0	0	42,812	0	0	0	0	42,812	6,511
2012	44,318	0	6,892	0	48,410	51,892	0	0	51,892	(2,183)	(440)
2013	48,867	0	6,238	0	52,954	66,845	0	0	66,845	(13,891)	(2,599)
2014	48,848	0	6,288	0	55,136	70,388	0	0	70,388	(15,252)	(2,813)
2015	50,662	0	6,288	0	56,950	74,650	0	0	74,650	(17,700)	(2,779)
2016	52,506	0	0	0	52,506	0	0	0	0	52,506	7,539
2017	54,758	0	1,135	0	55,893	16,642	0	0	16,642	39,252	5,160
2018	57,100	0	1,304	0	58,424	20,425	0	0	20,425	37,999	4,576
2019	58,729	0	1,304	0	60,052	21,467	0	0	21,467	38,585	4,259
2020	61,395	0	1,304	0	62,698	22,805	0	0	22,805	[illegible]894	4,044
NOM	924,170	0	63,227	0	987,397	553,270	0	0	553,270	434,126	
NPV	241,384	0	25,795	0	267,180	176,710	0	0	176,710	90,479	

In Service of Gen Unit: 2001

Discount Rate : 8.22

Benefit/Cost Ratio (Col(6) / Col(10)) 1.51

0157

01/30/96

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVRS01R- HVAC Residential

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PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	3,360	6,226	1,800	0	11,406	983	1,058	0	0	2,041	(9,366)	(7,186)
1998	0	4,217	7,811	6,679	0	17,708	3,328	2,388	0	0	6,704	(12,002)	(8,434)
1999	0	4,408	7,811	10,516	0	22,533	6,853	3,725	0	0	10,525	(12,008)	(7,735)
2000	0	4,809	7,812	15,401	0	27,021	8,639	5,135	0	0	14,774	(12,848)	(7,565)
2001	0	0	0	18,323	0	18,323	22,300	5,139	0	0	27,488	9,143	4,930
2002	0	0	0	16,934	0	16,934	21,989	5,131	0	0	27,021	8,087	3,993
2003	0	0	0	18,791	0	18,791	24,462	5,138	0	0	29,599	8,807	4,433
2004	0	0	0	20,308	0	20,308	24,077	5,145	0	0	29,222	8,917	3,880
2005	0	0	0	20,820	0	20,820	26,471	5,186	0	0	31,636	10,716	4,060
2006	0	0	0	21,803	0	21,803	27,220	5,199	0	0	32,419	10,616	3,760
2007	0	2,788	1,126	22,579	0	26,499	29,589	5,230	0	0	34,828	8,329	2,648
2008	0	3,410	1,324	23,280	0	28,024	30,723	5,293	0	0	36,016	7,992	2,324
2009	0	3,581	1,324	24,184	0	29,088	29,877	5,356	0	0	35,233	6,145	1,636
2010	0	3,703	1,324	24,886	0	29,952	30,276	5,430	0	0	35,707	5,754	1,403
2011	0	0	0	25,993	0	25,993	33,437	5,515	0	0	38,953	12,960	2,892
2012	0	3,187	5,082	27,034	0	35,302	35,100	5,613	0	0	40,713	5,390	1,101
2013	0	4,145	6,289	28,457	0	38,930	36,432	5,720	0	0	42,152	3,252	606
2014	0	4,366	6,288	29,786	0	40,450	37,406	5,837	0	0	43,243	2,793	478
2015	0	4,982	6,288	30,538	0	41,418	38,081	5,961	0	0	44,042	2,624	412
2016	0	0	0	32,029	0	32,029	39,719	6,095	0	0	45,814	13,785	1,979
2017	0	4,613	1,126	33,403	0	39,150	41,150	6,242	0	0	47,392	8,241	1,083
2018	0	5,992	1,324	34,831	0	41,216	40,739	6,404	0	0	47,143	5,927	641
2019	0	6,956	1,324	36,825	0	43,104	41,876	6,589	0	0	48,585	5,481	602
2020	0	6,296	1,324	37,433	0	45,022	43,481	6,798	0	0	50,279	5,257	530
NOM.	0	66,947	63,227	583,744	0	695,917	675,193	125,290	0	0	800,483	104,565	
NPV	0	20,327	25,795	147,250	0	193,372	169,026	36,826	0	0	205,853	12,280	

Discount Rate: 8.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.06

0158

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: RESIDENTIAL AIR CONDITIONING (1997 - 2000)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM		
	RSC-1	RSC-21A	RSC-24
(1) UTILITY NON RECURRING COST PER CUSTOMER	$39	$39	$39
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$791	$525	$142
(6) CUSTOMER O&M COST	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$27	$152	$29
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

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INPUT DATA – PART I CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVR604R - HVAC Residential

01/26/95

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.25	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.34	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMEF	848.3	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	20	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85688	
(5) K FACTOR FOR T & D	1.86867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMI	***	$/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	8.27	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2004	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2003	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	55%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	4.20	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	8.34	%**

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	***	%

0170

* 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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVRS04R - HVAC Residential

01/26/95

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PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	34,180	1,803	280	1,968	1,274	545	1,128	85	6,882	6,882	6,882
2005	32,724	1,440	249	1,885	899	545	1,128	531	6,848	6,065	12,947
2006	31,100	1,368	236	1,791	872	545	1,128	482	6,402	5,367	18,314
2007	29,542	1,300	225	1,702	872	545	1,128	367	6,189	4,734	23,048
2008	28,047	1,234	213	1,616	872	545	1,128	337	5,944	4,177	27,225
2009	26,610	1,171	202	1,533	866	545	1,128	282	5,728	3,685	30,910
2010	25,226	1,110	192	1,453	862	545	1,128	231	5,520	3,252	34,162
2011	23,890	1,051	182	1,376	855	545	1,128	184	5,320	2,868	37,030
2012	22,593	994	172	1,301	809	545	1,128	176	5,124	2,530	39,560
2013	21,279	936	162	1,229	756	545	1,128	176	4,929	2,220	41,780
2014	19,975	879	152	1,151	702	545	1,128	176	4,732	1,958	43,738
2015	18,671	822	142	1,075	649	545	1,128	176	4,538	1,719	45,465
2016	17,367	764	132	1,000	595	545	1,128	176	4,341	1,508	46,971
2017	16,063	707	122	925	542	545	1,128	176	4,145	1,317	48,288
2018	14,759	649	112	850	489	545	1,128	176	3,949	1,148	49,436
2019	13,455	592	102	775	435	545	1,128	176	3,753	999	50,435
2020	12,151	535	92	700	382	545	1,128	176	3,557	867	51,303
2021	10,846	477	82	625	328	545	1,128	176	3,362	750	52,053
2022	9,544	420	73	550	275	545	1,128	176	3,166	647	52,700
2023	8,240	363	63	475	222	545	1,128	176	2,970	558	53,258
2024	7,079	311	54	408	459	545	1,128	(106)	2,798	479	53,734
2025	6,553	273	47	367	712	545	1,128	(368)	2,684	418	54,152
2026	5,474	241	42	315	682	545	1,128	(368)	2,555	367	54,519
2027	4,744	209	36	273	653	545	1,128	(368)	2,445	321	54,840
2028	4,014	177	31	231	623	545	1,128	(368)	2,336	281	55,122
2029	3,284	145	25	189	593	545	1,128	(368)	2,229	245	55,367
2030	2,554	112	19	147	563	545	1,128	(368)	2,116	214	55,580
2031	1,825	80	14	105	533	545	1,128	(368)	2,007	185	55,766
2032	1,095	48	8	63	503	545	1,128	(368)	1,867	160	55,926
2033	366	16	3	21	472	545	1,128	(368)	1,758	139	56,065

IN SERVICE COST ($000)	9
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.91%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65606

0172

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/26/95

PROGRAM NAME:HVR504R - HVAC Residential

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2004	3.75%	1,251	1,251	1,128	1,128	1,032	1,032	85	2,877	0	0	0	85
2005	7.22%	2,409	3,660	1,128	2,256	1,032	2,064	531	2,877	0	0	0	531
2006	6.68%	2,229	5,889	1,128	3,384	1,032	3,096	462	2,877	0	0	0	462
2007	6.18%	2,062	7,952	1,128	4,512	1,032	4,128	397	2,877	0	0	0	397
2008	5.71%	1,905	9,857	1,128	5,640	1,032	5,160	337	2,877	0	0	0	337
2009	5.29%	1,762	11,618	1,128	6,768	1,032	6,192	282	2,877	0	0	0	282
2010	4.89%	1,632	13,250	1,128	7,896	1,032	7,224	231	2,877	0	0	0	231
2011	4.52%	1,509	14,759	1,128	9,023	1,032	8,256	184	2,877	0	0	0	184
2012	4.46%	1,488	16,247	1,128	10,151	1,032	9,288	179	2,877	0	0	0	179
2013	4.46%	1,488	17,735	1,128	11,279	1,032	10,320	179	2,877	0	0	0	179
2014	4.46%	1,488	19,223	1,128	12,407	1,032	11,352	179	2,877	0	0	0	179
2015	4.46%	1,488	20,712	1,128	13,535	1,032	12,384	179	2,877	0	0	0	179
2016	4.46%	1,488	22,200	1,128	14,663	1,032	13,416	179	2,877	0	0	0	179
2017	4.46%	1,488	23,688	1,128	15,791	1,032	14,448	179	2,877	0	0	0	179
2018	4.46%	1,488	25,176	1,128	16,919	1,032	15,480	179	2,877	0	0	0	179
2019	4.46%	1,488	26,664	1,128	18,047	1,032	16,512	179	2,877	0	0	0	179
2020	4.46%	1,488	28,153	1,128	19,175	1,032	17,544	179	2,877	0	0	0	179
2021	4.46%	1,488	29,641	1,128	20,303	1,032	18,576	179	2,877	0	0	0	179
2022	4.46%	1,488	31,129	1,128	21,430	1,032	19,608	179	2,877	0	0	0	179
2023	4.46%	1,488	32,617	1,128	22,558	1,032	20,640	179	2,877	0	0	0	179
2024	2.25%	751	33,368	1,128	23,686	1,032	21,672	(108)	2,877	0	0	0	(108)
2025	0.00%	0	33,368	1,128	24,814	1,032	22,704	(396)	2,877	0	0	0	(396)
2026	0.00%	0	33,368	1,128	25,942	1,032	23,736	(396)	2,877	0	0	0	(396)
2027	0.00%	0	33,368	1,128	27,070	1,032	24,768	(396)	2,877	0	0	0	(396)
2028	0.00%	0	33,368	1,128	28,198	1,032	25,801	(396)	2,877	0	0	0	(396)
2029	0.00%	0	33,368	1,128	29,326	1,032	26,833	(396)	2,877	0	0	0	(396)
2030	0.00%	0	33,368	1,128	30,454	1,032	27,865	(396)	2,877	0	0	0	(396)
2031	0.00%	0	33,368	1,128	31,582	1,032	28,897	(396)	2,877	0	0	0	(396)
2032	0.00%	0	33,368	1,128	32,710	1,032	29,929	(396)	2,877	0	0	0	(396)
2033	0.00%	0	33,368	1,128	33,838	1,032	30,961	(396)	2,877	0	0	0	(396)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(929)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	2,877
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/29/96

PROGRAM NAME: HVRS04R - HVAC Residential

PSC FORM CE 1.1A
PAGE 2b OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
2004	3.75%	1,251	85	32,710	1,128	(844)	34,798	33,564	34,180
2005	7.22%	2,409	621	31,582	2,256	(313)	33,564	31,895	32,724
2006	6.68%	2,229	462	30,454	3,384	149	31,895	30,305	31,100
2007	6.18%	2,062	397	29,326	4,512	546	30,305	28,780	29,542
2008	5.71%	1,905	337	28,198	5,640	883	28,780	27,315	28,047
2009	5.28%	1,762	282	27,070	6,768	1,186	27,315	25,905	26,610
2010	4.89%	1,632	231	25,942	7,895	1,399	25,905	24,546	25,226
2011	4.52%	1,508	184	24,814	9,023	1,580	24,546	23,235	23,890
2012	4.46%	1,488	176	23,686	10,151	1,756	23,235	21,931	22,583
2013	4.46%	1,488	176	22,558	11,279	1,932	21,931	20,627	21,279
2014	4.46%	1,488	176	21,430	12,407	2,108	20,627	19,323	19,975
2015	4.46%	1,488	176	20,303	13,535	2,284	19,323	18,019	18,671
2016	4.46%	1,488	176	19,175	14,663	2,460	18,019	16,715	17,367
2017	4.46%	1,488	176	18,047	15,791	2,636	16,715	15,411	16,063
2018	4.46%	1,488	176	16,919	16,919	2,812	15,411	14,107	14,759
2019	4.46%	1,488	176	15,791	18,047	2,987	14,107	12,803	13,455
2020	4.46%	1,488	176	14,663	19,175	3,163	12,803	11,499	12,151
2021	4.46%	1,488	176	13,535	20,303	3,339	11,499	10,196	10,848
2022	4.46%	1,488	176	12,407	21,430	3,515	10,196	8,892	9,544
2023	4.46%	1,488	176	11,279	22,558	3,691	8,892	7,588	8,240
2024	2.25%	751	(108)	10,151	23,686	3,583	7,588	6,588	7,079
2025	0.00%	0	(368)	9,023	24,814	3,185	6,588	5,839	6,203
2026	0.00%	0	(368)	7,895	25,942	2,787	5,839	5,109	5,474
2027	0.00%	0	(368)	6,768	27,070	2,389	5,109	4,379	4,744
2028	0.00%	0	(368)	5,640	28,198	1,991	4,379	3,649	4,014
2029	0.00%	0	(368)	4,512	29,326	1,592	3,649	2,919	3,284
2030	0.00%	0	(368)	3,384	30,454	1,194	2,919	2,189	2,554
2031	0.00%	0	(368)	2,256	31,582	796	2,189	1,460	1,825
2032	0.00%	0	(368)	1,128	32,710	398	1,460	730	1,095
2033	0.00%	0	(368)	0	33,838	0	730	0	365

* Column not specified in workbook

0174

01/26/96

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($AW)	(7) CUMULATIVE AVERAGE SPENDING ($AW)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.80%	1.028	0.00%	0.00	0.00
1996	-8	2.83%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.82%	1.126	0.00%	0.00	0.00
1999	-5	3.95%	1.169	0.84%	5.46	2.73
2000	-4	3.86%	1.214	1.66%	11.21	11.06
2001	-3	3.83%	1.260	13.00%	91.21	62.27
2002	-2	3.86%	1.311	60.50%	440.92	338.33
2003	-1	3.86%	1.363	24.00%	181.82	638.70
				100.00%	730.61	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($AW)	(9a)* DEBT AFUDC ($AW)	(9b)* CUMULATIVE DEBT AFUDC ($AW)	(9) YEARLY TOTAL AFUDC ($AW)	(9a)* CUMULATIVE TOTAL AFUDC ($AW)	(9b)* CONSTRUCTION PERIOD INTEREST ($AW)	(9c)* CUMULATIVE CPI ($AW)	(9d)* DEFERRED TAXES ($AW)	(9e)* CUMULATIVE DEFERRED TAXES ($AW)	(10) INCREMENTAL YEAR-END BOOK VALUE ($AW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($AW)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.06)	(0.06)	5.76	5.76
2000	-4	11.33	0.00	0.02	1.25	1.55	1.13	1.41	(0.24)	(0.30)	12.45	18.21
2001	-3	83.81	2.82	2.84	7.00	8.55	6.77	7.77	(1.37)	(1.67)	98.21	116.42
2002	-2	336.88	14.90	16.34	36.97	45.52	33.81	41.38	(7.22)	(8.89)	477.89	594.31
2003	-1	665.21	30.54	46.88	75.80	121.31	66.11	108.09	(14.48)	(23.36)	257.81	851.82
			48.88	71.41	121.31		108.49		(23.36)		851.82	

IN SERVICE YEA	2004
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	29.019	29.019	29.019
EQUITY AFUDC	2.877		
DEBT AFUDC	1.941	1.941	
CPI			4.340
TOTAL	33.838	30.961	33.359

* Column not specified in workbook

0175

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME HVR504R - HVAC Residential

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAN/h)	(5) AVOIDED MARGINAL FUEL COST (CAN/h)	(6)* INCREASED MARGINAL FUEL COST (CAN/h)	(7) REPLACEMENT FUEL COST (CAN/h)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.11	1.80	0.00	1.00	1.00
1995	0	0	0.00	3.40	1.82	0.00	1.00	1.00
1996	0	0	0.00	3.49	1.82	0.00	1.00	1.00
1997	0	0	0.00	3.82	2.03	0.00	1.00	1.00
1998	0	0	0.00	4.05	2.04	0.00	1.00	1.00
1999	0	0	0.00	4.71	2.19	0.00	1.00	1.00
2000	0	0	0.00	4.89	2.43	0.00	1.00	1.00
2001	39,812	39,812	0.00	5.14	2.52	0.00	1.00	1.00
2002	77,624	77,624	0.00	5.48	2.59	0.00	1.00	1.00
2003	116,436	116,436	0.00	5.06	2.77	0.00	1.00	1.00
2004	116,436	116,436	0.00	6.59	2.84	5.95	1.00	1.00
2005	116,436	116,436	0.00	6.92	3.14	6.89	1.00	1.00
2006	116,436	116,436	0.00	7.36	3.30	6.32	1.00	1.00
2007	116,436	116,436	0.00	8.10	3.57	6.85	1.00	1.00
2008	116,436	116,436	0.00	8.48	3.81	7.04	1.00	1.00
2009	116,436	116,436	0.00	8.80	3.92	7.57	1.00	1.00
2010	116,436	116,436	0.00	9.45	4.18	8.37	1.00	1.00
2011	116,436	116,436	0.00	9.80	4.14	8.53	1.00	1.00
2012	116,436	116,436	0.00	10.22	4.53	8.86	1.00	1.00
2013	116,436	116,436	0.00	10.63	4.82	8.57	1.00	1.00
2014	116,436	116,436	0.00	11.60	4.88	10.14	1.00	1.00
2015	116,436	116,436	0.00	12.11	5.18	10.51	1.00	1.00
2016	116,436	116,436	0.00	12.84	5.38	11.12	1.00	1.00
2017	116,436	116,436	0.00	13.57	5.88	11.73	1.00	1.00
2018	116,436	116,436	0.00	13.57	5.95	12.38	1.00	1.00
2019	116,436	116,436	0.00	14.37	6.25	13.06	1.00	1.00
2020	116,436	116,436	0.00	15.70	6.57	13.77	1.00	1.00
2021	116,436	116,436	0.00	16.09	6.90	14.53	1.00	1.00
2022	116,436	116,436	0.00	17.03	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0176

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVR504R - HVAC Residential

01/26/95

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	6,862	1,352	52	8,027	11,364	4,829
2005	6,648	1,308	51	7,872	10,517	5,481
2006	6,402	1,270	47	7,378	9,909	5,266
2007	6,168	1,434	41	6,992	8,821	5,485
2008	5,944	1,505	39	6,388	8,339	5,529
2009	5,728	1,580	43	7,182	9,471	5,042
2010	5,520	1,660	46	7,567	10,439	4,347
2011	5,320	1,747	33	5,858	7,478	5,390
2012	5,124	1,838	27	4,818	6,079	5,529
2013	4,939	1,937	28	4,711	6,241	5,363
2014	4,732	2,039	30	5,147	6,858	5,094
2015	4,539	2,145	35	6,037	7,882	4,882
2016	4,341	2,257	34	5,759	7,591	4,799
2017	4,145	2,374	34	5,814	7,711	4,856
2018	3,949	2,498	35	6,039	8,039	4,469
2019	3,753	2,629	38	6,503	8,726	4,188
2020	3,557	2,764	40	6,816	9,207	3,971
2021	3,362	2,908	41	6,956	9,485	3,811
2022	3,138	3,059	43	7,181	9,818	3,631
NOM	94,184	38,305	739	122,366	163,991	91,621
NPV	21,811	7,054	162	26,508	35,575	19,991

0277

01/26/96

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVR504R - HVAC Residential

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	2,094	26,027	0	28,121	0	783	848	0	1,609	(26,512)	(14,297)
2002	0	2,191	27,224	0	29,415	0	1,558	2,706	0	4,264	(25,151)	(26,715)
2003	0	2,292	28,479	0	30,766	0	2,362	4,864	0	7,367	(23,401)	(37,294)
2004	0	0	0	0	0	4,829	2,380	6,497	0	13,706	13,706	(31,621)
2005	0	0	0	0	0	5,461	2,378	6,834	0	14,671	14,671	(26,062)
2006	0	0	0	0	0	5,288	2,379	7,269	0	14,936	14,936	(20,860)
2007	0	0	0	0	0	5,485	2,367	7,599	0	15,671	15,671	(15,839)
2008	0	0	0	0	0	5,529	2,401	8,386	0	16,315	16,315	(11,094)
2009	0	0	0	0	0	5,042	2,420	8,498	0	15,961	15,961	(6,845)
2010	0	0	0	0	0	4,347	2,445	9,336	0	16,129	16,129	(2,913)
2011	0	957	3,454	0	4,412	5,260	2,475	9,679	0	17,434	13,022	(0)
2012	0	1,008	3,637	0	4,646	5,529	2,511	10,099	0	18,138	13,490	2,750
2013	0	1,062	3,830	0	4,892	5,363	2,550	10,799	0	18,712	13,820	5,336
2014	0	0	0	0	0	5,004	2,592	11,058	0	18,148	18,148	8,818
2015	0	0	0	0	0	4,862	2,639	11,881	0	19,482	19,482	11,869
2016	0	2,078	49,126	0	52,203	4,799	2,689	12,685	0	20,173	(31,030)	7,089
2017	0	2,235	51,682	0	54,918	4,858	2,744	13,407	0	20,809	(34,110)	2,584
2018	0	2,404	54,370	0	57,773	4,468	2,804	13,407	0	20,680	(37,093)	(1,880)
2019	0	0	0	0	0	4,186	2,869	14,190	0	21,246	21,246	481
2020	0	0	0	0	0	3,971	2,939	15,018	0	21,929	21,929	2,673
2021	0	1,504	5,791	0	7,345	3,811	3,015	15,895	0	22,721	15,376	4,994
2022	0	1,677	6,050	0	7,727	3,631	3,100	16,822	0	23,553	15,826	5,432
												#VALUE!
NOM	0	22,590	259,829	0	282,219	91,631	54,417	218,777	0	364,825	82,606	
NPV	0	5,431	84,016	0	89,447	19,961	12,303	42,815	0	74,879	5,432	

Discount Rate: 0.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.08

0179

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVRS04R - HVAC Residential

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	2,094	4,448	1,294	0	7,826	840	783	0	0	1,608	(6,218)	(3,364)
2003	0	2,191	4,448	3,991	0	10,621	2,709	1,558	0	0	4,264	(6,356)	(3,130)
2004	0	2,292	4,448	6,936	0	13,676	4,994	2,392	0	0	7,387	(6,310)	(2,852)
2005	0	0	0	8,540	0	8,540	11,327	2,380	0	0	13,708	5,167	2,139
2006	0	0	0	8,798	0	8,798	12,294	2,379	0	0	14,671	5,872	2,225
2007	0	0	0	9,087	0	9,087	12,557	2,379	0	0	14,936	5,849	2,029
2008	0	0	0	9,405	0	9,405	13,484	2,387	0	0	15,871	6,375	2,025
2009	0	0	0	9,795	0	9,795	13,914	2,401	0	0	16,315	6,520	1,899
2010	0	0	0	10,170	0	10,170	13,541	2,420	0	0	15,961	5,791	1,542
2011	0	0	0	10,457	0	10,457	13,883	2,445	0	0	16,328	5,871	1,363
2012	0	957	320	10,821	0	12,209	14,069	2,475	0	0	17,434	5,225	1,166
2013	0	1,009	320	11,369	0	12,697	15,025	2,511	0	0	18,136	5,438	1,111
2014	0	1,062	320	11,872	0	13,353	15,162	2,550	0	0	18,712	5,358	1,003
2015	0	0	0	12,531	0	12,531	14,553	2,593	0	0	18,146	5,815	1,133
2016	0	0	0	12,843	0	12,843	15,822	2,639	0	0	18,462	5,619	1,038
2017	0	3,079	4,129	12,470	0	12,612	17,486	2,688	0	0	20,173	(501)	(72)
2018	0	3,235	4,129	14,048	0	20,674	18,064	2,744	0	0	20,808	(934)	(79)
2019	0	3,404	4,129	14,848	0	21,412	17,879	2,804	0	0	20,683	(1,001)	(181)
2020	0	0	0	15,099	0	22,181	18,370	2,869	0	0	21,240	6,180	861
2021	0	0	0	15,742	0	15,099	18,969	2,939	0	0	21,908	6,188	624
2022	0	1,594	320	16,451	0	15,742	18,708	3,015	0	0	22,721	4,358	402
	0	1,677	320	17,185	0	16,305	20,483	3,100	0	0	23,583	4,361	369
					0	18,102							
NOM.	0	22,500	27,336	244,809	0	294,733	310,408	54,417	0	0	364,825	70,092	
NPV	0	5,431	8,493	40,868	0	63,790	82,576	12,333	0	0	74,879	11,089	

Discount Rate: 8.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.17

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM		
	RSC-1	RSC-21A	RSC-24
(1) UTILITY NON RECURRING COST PER CUSTOMER	$39	$39	$39
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$791	$625	$142
(6) CUSTOMER O&M COST	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$27	$152	$29
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0 %	*

* Values apply to first year only.

0182

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: u195.r - Residential Load Control

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.02	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.37	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	97.4	kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	47.8	kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.84957	
(5) K FACTOR FOR T & D	1.88887	

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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	30	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.83	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	2.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

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 1:2
**** THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK.

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* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: v186s - Residential Load Control

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	6,894	2,145	0	9,009	88	0	0	0	0	0
1996	11,804	6,240	0	18,044	257	0	0	0	0	0
1997	10,067	8,190	0	18,257	340	0	0	0	0	0
1998	9,484	8,190	0	17,674	346	0	0	0	0	0
1999	8,914	8,190	0	17,104	352	0	0	0	0	0
2000	9,469	8,190	0	17,679	360	0	0	0	0	0
2001	5,292	8,190	0	13,489	373	0	0	0	0	0
2002	687	8,190	0	8,877	385	0	0	0	0	0
2003	716	8,190	0	8,906	403	0	0	0	0	0
2004	744	8,190	0	8,934	413	0	0	0	0	0
2005	902	8,190	0	9,092	428	0	0	0	0	0
2006	1,185	8,190	0	9,375	439	0	0	0	0	0
2007	1,324	8,190	0	9,514	459	0	0	0	0	0
2008	1,328	8,190	0	9,518	474	0	0	0	0	0
2009	1,335	8,190	0	9,525	492	0	0	0	0	0
2010	1,398	8,190	0	9,588	508	0	0	0	0	0
2011	1,248	8,190	0	9,438	525	0	0	0	0	0
2012	1,051	8,190	0	9,241	550	0	0	0	0	0
2013	1,102	8,190	0	9,292	579	0	0	0	0	0
2014	1,158	8,190	0	9,348	608	0	0	0	0	0
2015	1,422	8,190	0	9,612	621	0	0	0	0	0
2016	1,883	8,190	0	10,073	651	0	0	0	0	0
NOM	70,108	172,185	0	251,591	8,846	0	0	0	0	0
NPV	40,367	68,883	0	118,249	3,466	0	0	0	0	0

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: v180x - Residential Load Control

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	66,805	2,839	908	3,948	2,670	1,000	2,214	166	13,416	13,416	13,416
1998	62,894	2,816	486	3,888	1,895	1,000	2,214	1,037	12,993	11,896	25,312
1999	60,012	2,679	462	3,503	1,802	1,000	2,214	909	12,519	10,481	35,800
2000	57,761	2,542	438	3,327	1,803	1,000	2,214	772	12,057	9,264	45,064
2001	54,834	2,413	417	3,158	1,803	1,000	2,214	664	11,670	8,164	53,229
2002	52,030	2,289	396	2,948	1,888	1,000	2,214	545	11,185	7,202	60,432
2003	49,319	2,170	375	2,840	1,674	1,000	2,214	447	10,709	6,355	66,777
2004	46,699	2,055	355	2,690	1,691	1,000	2,214	353	10,306	5,608	72,393
2005	44,127	1,942	336	2,542	1,571	1,000	2,214	338	10,012	4,943	77,327
2006	41,595	1,830	318	2,395	1,487	1,000	2,214	338	9,920	4,353	81,679
2007	39,094	1,717	297	2,248	1,382	1,000	2,214	338	9,848	3,827	85,509
2008	36,482	1,605	277	2,101	1,256	1,000	2,214	338	9,692	3,358	88,864
2009	33,829	1,492	258	1,954	1,153	1,000	2,214	338	9,479	2,942	91,823
2010	31,279	1,381	276	1,807	1,049	1,000	2,214	338	9,686	2,572	94,377
2011	28,827	1,268	219	1,660	944	1,000	2,214	338	7,713	2,243	96,621
2012	26,376	1,156	200	1,513	840	1,000	2,214	338	7,320	1,952	98,572
2013	23,724	1,044	180	1,366	735	1,000	2,214	338	6,947	1,693	100,266
2014	21,172	932	161	1,220	631	1,000	2,214	338	6,564	1,466	101,731
2015	18,620	819	142	1,073	526	1,000	2,214	338	6,181	1,263	102,994
2016	16,068	707	122	926	422	1,000	2,214	338	5,798	1,085	104,079
2017	13,797	607	105	795	368	1,000	2,214	(332)	5,466	936	105,013
2018	12,000	532	92	690	1,388	1,000	2,214	(792)	6,200	818	105,829
2019	10,667	469	81	614	1,330	1,000	2,214	(792)	4,987	716	106,544
2020	9,345	407	70	533	1,272	1,000	2,214	(792)	4,772	627	107,172
2021	7,823	344	59	451	1,214	1,000	2,214	(792)	4,558	549	107,721
2022	6,400	282	49	369	1,155	1,000	2,214	(792)	4,346	479	108,200
2023	4,978	219	38	287	1,097	1,000	2,214	(792)	4,132	417	108,617
2024	3,556	156	27	205	1,039	1,000	2,214	(792)	3,918	362	108,979
2025	2,133	94	16	123	981	1,000	2,214	(792)	3,705	313	109,292
2026	711	31	5	41	922	1,000	2,214	(792)	3,492	270	109,562

IN SERVICE COST ($000)	66,410
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.91%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.64057

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME v1 95a - Residential Load Control

PSC FORM CE 1.1A
PAGE 3a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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	(1/9)*(11) *TAX RATE $(000)	SALVAGE *TAX RATE $(000)	ANNUAL DEFERRED TAX (8)-(12)+(13) $(000)
1997	3.75%	2,462	2,462	2,214	2,214	2,052	2,052	158	4,552	0	0	0	158
1998	7.22%	4,739	7,201	2,214	4,428	2,052	4,104	1,027	4,552	0	0	0	1,027
1999	6.68%	4,386	11,588	2,214	6,642	2,052	6,157	900	4,552	0	0	0	600
2000	6.18%	4,057	15,643	2,214	8,856	2,052	8,209	773	4,552	0	0	0	773
2001	5.71%	3,746	19,391	2,214	11,070	2,052	10,261	664	4,552	0	0	0	664
2002	5.29%	3,469	22,857	2,214	13,284	2,052	12,313	645	4,552	0	0	0	645
2003	4.89%	3,210	26,067	2,214	15,498	2,052	14,366	447	4,552	0	0	0	447
2004	4.52%	2,967	29,034	2,214	17,712	2,052	16,418	353	4,552	0	0	0	353
2005	4.46%	2,928	31,962	2,214	19,926	2,052	18,470	338	4,552	0	0	0	338
2006	4.46%	2,928	34,890	2,214	22,140	2,052	20,522	338	4,552	0	0	0	338
2007	4.46%	2,928	37,817	2,214	24,354	2,052	22,574	338	4,552	0	0	0	338
2008	4.46%	2,928	40,746	2,214	26,567	2,052	24,627	338	4,552	0	0	0	338
2009	4.46%	2,928	43,673	2,214	28,781	2,052	26,679	338	4,552	0	0	0	338
2010	4.46%	2,928	46,600	2,214	30,995	2,052	28,731	338	4,552	0	0	0	338
2011	4.46%	2,928	49,528	2,214	33,209	2,052	30,783	338	4,552	0	0	0	338
2012	4.42%	2,928	52,456	2,214	35,423	2,052	32,836	338	4,552	0	0	0	338
2013	4.46%	2,928	55,384	2,214	37,637	2,052	34,888	376	4,552	0	0	0	338
2014	4.46%	2,928	58,311	2,214	39,851	2,052	36,940	338	4,552	0	0	0	338
2015	4.46%	2,928	61,239	2,214	42,065	2,052	38,992	338	4,552	0	0	0	338
2016	4.46%	2,928	64,167	2,214	44,279	2,052	41,044	338	4,552	0	0	0	338
2017	2.25%	1,477	65,644	2,214	46,493	2,052	43,097	(222)	4,552	0	0	0	(222)
2018	0.00%	0	65,644	2,214	48,707	2,052	45,149	(792)	4,552	0	0	0	(792)
2019	0.00%	0	65,644	2,214	50,921	2,052	47,201	(792)	4,552	0	0	0	(792)
2020	0.00%	0	65,644	2,214	53,135	2,052	49,253	(792)	4,552	0	0	0	(792)
2021	0.00%	0	65,644	2,214	55,348	2,052	51,306	(792)	4,552	0	0	0	(792)
2022	0.00%	0	65,644	2,214	57,562	2,052	53,358	(792)	4,552	0	0	0	(792)
2023	0.00%	0	65,644	2,214	59,777	2,052	55,410	(792)	4,552	0	0	0	(792)
2024	0.00%	0	65,644	2,214	61,991	2,052	57,462	(792)	4,552	0	0	0	(792)
2025	0.00%	0	65,644	2,214	64,205	2,052	59,515	(792)	4,552	0	0	0	(792)
2026	0.00%	0	65,644	2,214	66,419	2,052	61,567	(792)	4,552	0	0	0	(792)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 6)	(1,572)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 9)	4,552
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

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page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME v186x - Residential Load Control

PSC FORM CE 1.1A
PAGE 3b OF 3

(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)
1997	3.75%	2,462	188	94,206	2,214	(1,415)	67,591	66,819	66,805
1998	7.22%	4,739	1,037	91,991	4,428	(378)	66,819	62,398	63,894
1999	6.68%	4,385	900	89,777	6,642	522	62,398	58,256	60,612
2000	6.18%	4,057	773	87,563	8,856	1,295	58,256	58,398	57,791
2001	5.71%	3,748	664	85,349	11,070	1,949	58,398	53,400	54,834
2002	5.28%	3,466	646	83,135	13,284	2,405	53,400	50,840	52,020
2003	4.89%	3,210	447	80,921	15,498	2,841	50,840	47,880	49,310
2004	4.52%	2,967	389	78,707	17,712	3,284	47,880	45,413	46,693
2005	4.46%	2,928	339	76,493	19,926	3,622	45,413	42,891	44,127
2006	4.46%	2,928	339	74,279	22,140	3,879	42,891	40,319	41,555
2007	4.46%	2,928	339	72,065	24,354	4,357	40,319	37,758	39,034
2008	4.46%	2,928	339	69,851	26,567	4,846	37,758	35,206	36,482
2009	4.46%	2,928	339	67,637	28,781	5,333	35,206	32,655	33,930
2010	4.46%	2,928	339	65,423	30,995	5,669	32,655	30,103	31,379
2011	4.46%	2,928	339	63,209	33,209	6,008	30,103	27,551	28,827
2012	4.46%	2,928	339	60,995	35,423	6,346	27,551	25,000	26,276
2013	4.46%	2,928	339	58,781	37,637	6,334	25,000	22,448	23,724
2014	4.46%	2,928	339	56,567	39,851	6,671	22,448	19,896	21,172
2015	4.46%	2,928	339	54,354	42,065	7,009	19,896	17,345	18,620
2016	4.46%	2,928	339	52,140	44,279	7,347	17,345	14,793	16,069
2017	2.22%	1,477	(222)	16,926	46,493	7,125	14,793	12,601	13,797
2018	0.00%	0	(782)	17,712	48,707	6,339	12,601	11,378	12,089
2019	0.00%	0	(782)	16,486	50,921	5,542	11,378	9,956	10,667
2020	0.00%	0	(782)	13,284	53,136	4,760	9,956	8,534	9,245
2021	0.00%	0	(782)	11,070	55,348	3,958	8,534	7,112	7,823
2022	0.00%	0	(782)	8,856	57,563	3,167	7,112	5,689	6,400
2023	0.00%	0	(782)	6,642	59,777	2,375	5,689	4,267	4,978
2024	0.00%	0	(782)	4,428	61,991	1,583	4,267	2,845	3,556
2025	0.00%	0	(782)	2,214	64,206	792	2,845	1,422	2,133
2026	0.00%	0	(782)	0	66,419	0	1,422	0	711

* Column not specified in workbook

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page8

PSC FORM CE 1.1B
PAGE 1 OF 1

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($MM)	(7) CUMULATIVE AVERAGE SPENDING ($MM)
1994	-3	0.79%	1.000	13.91%	54.53	27.27
1995	-2	2.80%	1.028	44.58%	176.18	141.12
1996	-1	2.82%	1.063	41.54%	171.47	318.46
				100.00%	405.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($MM)	(9a)* DEBT AFUDC ($MM)	(9b)* CUMULATIVE DEBT AFUDC ($MM)	(9) YEARLY TOTAL AFUDC ($MM)	(9c)* CUMULATIVE TOTAL AFUDC ($MM)	(9d)* CONSTRUCTION PERIOD INTEREST ($MM)	(9e)* CUMULATIVE CPI ($MM)	(9d)* DEFERRED TAXES ($MM)	(9e)* CUMULATIVE DEFERRED TAXES ($MM)	(10) INCREMENTAL YEAR-END BOOK VALUE ($MM)	(11) CUMULATIVE YEAR-END BOOK VALUE ($MM)
1994	-3	27.27	1.39	1.39	2.68	2.68	2.73	2.73	(0.68)	(0.68)	57.51	57.51
1995	-2	147.16	6.50	7.79	16.13	16.11	14.69	17.41	(3.16)	(3.76)	166.31	302.82
1996	-1	336.55	15.00	22.79	27.39	66.49	23.69	51.10	(7.16)	(10.93)	336.55	491.37
			22.79	31.89	56.49		51.10		(10.93)		491.37	

		BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
IN BERVICE YEA	1997	CONSTRUCTION CASH	58,292	58,292
PLANT COSTS	392	EQUITY AFUDC	4,882	
AFUDC RATE	10.82%	DEBT AFUDC	3,274	3,274
		CPI		7,351
		TOTAL	66,448	68,917

* Column not specified in workbook

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME v1 95a - Residential Load Control

PSC FORM CE 1.1A
PAGE 3a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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	(1/9)*(11) *TAX RATE $(000)	SALVAGE *TAX RATE $(000)	ANNUAL DEFERRED TAX (8)-(12)+(13) $(000)
1997	3.75%	2,462	2,462	2,214	2,214	2,052	2,052	158	4,552	0	0	0	158
1998	7.22%	4,739	7,201	2,214	4,428	2,052	4,104	1,027	4,552	0	0	0	1,027
1999	6.68%	4,386	11,588	2,214	6,642	2,052	6,157	900	4,552	0	0	0	600
2000	6.18%	4,057	15,643	2,214	8,856	2,052	8,209	773	4,552	0	0	0	773
2001	5.71%	3,746	19,391	2,214	11,070	2,052	10,261	664	4,552	0	0	0	664
2002	5.29%	3,469	22,857	2,214	13,284	2,052	12,313	645	4,552	0	0	0	645
2003	4.89%	3,210	26,067	2,214	15,498	2,052	14,366	447	4,552	0	0	0	447
2004	4.52%	2,967	29,034	2,214	17,712	2,052	16,418	353	4,552	0	0	0	353
2005	4.46%	2,928	31,962	2,214	19,926	2,052	18,470	338	4,552	0	0	0	338
2006	4.46%	2,928	34,890	2,214	22,140	2,052	20,522	338	4,552	0	0	0	338
2007	4.46%	2,928	37,817	2,214	24,354	2,052	22,574	338	4,552	0	0	0	338
2008	4.46%	2,928	40,746	2,214	26,567	2,052	24,627	338	4,552	0	0	0	338
2009	4.46%	2,928	43,673	2,214	28,781	2,052	26,679	338	4,552	0	0	0	338
2010	4.46%	2,928	46,600	2,214	30,995	2,052	28,731	338	4,552	0	0	0	338
2011	4.46%	2,928	49,528	2,214	33,209	2,052	30,783	338	4,552	0	0	0	338
2012	4.42%	2,928	52,456	2,214	35,423	2,052	32,836	338	4,552	0	0	0	338
2013	4.46%	2,928	55,384	2,214	37,637	2,052	34,888	376	4,552	0	0	0	338
2014	4.46%	2,928	58,311	2,214	39,851	2,052	36,940	338	4,552	0	0	0	338
2015	4.46%	2,928	61,239	2,214	42,065	2,052	38,992	338	4,552	0	0	0	338
2016	4.46%	2,928	64,167	2,214	44,279	2,052	41,044	338	4,552	0	0	0	338
2017	2.25%	1,477	65,644	2,214	46,493	2,052	43,097	(222)	4,552	0	0	0	(222)
2018	0.00%	0	65,644	2,214	48,707	2,052	45,149	(792)	4,552	0	0	0	(792)
2019	0.00%	0	65,644	2,214	50,921	2,052	47,201	(792)	4,552	0	0	0	(792)
2020	0.00%	0	65,644	2,214	53,135	2,052	49,253	(792)	4,552	0	0	0	(792)
2021	0.00%	0	65,644	2,214	55,348	2,052	51,306	(792)	4,552	0	0	0	(792)
2022	0.00%	0	65,644	2,214	57,562	2,052	53,358	(792)	4,552	0	0	0	(792)
2023	0.00%	0	65,644	2,214	59,777	2,052	55,410	(792)	4,552	0	0	0	(792)
2024	0.00%	0	65,644	2,214	61,991	2,052	57,462	(792)	4,552	0	0	0	(792)
2025	0.00%	0	65,644	2,214	64,205	2,052	59,515	(792)	4,552	0	0	0	(792)
2026	0.00%	0	65,644	2,214	66,419	2,052	61,567	(792)	4,552	0	0	0	(792)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 6)	(1,572)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 9)	4,552
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0187

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME :v1 95s - Residential Load Control

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAN/h)	(5) AVOIDED MARGINAL FUEL COST (CAN/h)	(6)* INCREASED MARGINAL FUEL COST (CAN/h)	(7) REPLACEMENT FUEL COST (CAN/h)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.82	1.89	0.00	1.00	1.00
1995	85,000	85,000	0.00	4.89	1.82	0.00	1.00	1.00
1996	105,000	105,000	0.00	5.96	1.92	0.00	1.00	1.00
1997	105,000	105,000	0.00	5.92	2.03	4.20	1.00	1.00
1998	105,000	105,000	0.00	6.01	2.04	4.25	1.00	1.00
1999	105,000	105,000	0.00	7.19	2.19	7.85	1.00	1.00
2000	105,000	105,000	0.00	7.35	2.43	8.21	1.00	1.00
2001	105,000	105,000	0.00	7.79	2.52	8.42	1.00	1.00
2002	105,000	105,000	0.00	8.20	2.59	8.59	1.00	1.00
2003	105,000	105,000	0.00	8.13	2.77	9.28	1.00	1.00
2004	105,000	105,000	0.00	9.85	2.84	9.50	1.00	1.00
2005	105,000	105,000	0.00	10.60	3.14	9.52	1.00	1.00
2006	105,000	105,000	0.00	11.33	3.30	9.52	1.00	1.00
2007	105,000	105,000	0.00	13.06	3.67	9.79	1.00	1.00
2008	105,000	105,000	0.00	13.29	3.81	10.08	1.00	1.00
2009	105,000	105,000	0.00	13.21	3.92	10.57	1.00	1.00
2010	105,000	105,000	0.00	14.48	4.18	10.88	1.00	1.00
2011	105,000	105,000	0.00	15.39	4.14	11.45	1.00	1.00
2012	105,000	102,000	0.00	15.92	4.53	12.04	1.00	1.00
2013	105,000	105,000	0.00	16.92	4.62	13.05	1.00	1.00
2014	105,000	105,000	0.00	17.66	4.85	13.71	1.00	1.00
2015	105,000	105,000	0.00	16.77	5.16	14.19	1.00	1.00
2016	105,000	107,000	0.00	16.82	5.39	15.01	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.

0190

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: rr96x - Residential Load Control

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	13,416	3,791	0.200	61	70	17,187
1998	12,883	3,640	0.225	69	75	16,827
1999	12,516	4,117	1.224	383	722	16,295
2000	12,057	4,307	0.068	28	52	16,341
2001	11,018	4,813	0.147	49	86	16,096
2002	11,186	4,721	0.154	53	91	15,879
2003	10,750	4,838	0.302	101	164	15,855
2004	10,399	5,156	0.462	161	279	15,454
2005	10,012	5,307	0.346	108	156	15,350
2006	9,829	5,041	0.253	87	132	15,234
2007	9,348	5,809	0.467	178	232	15,068
2008	8,982	6,105	0.464	181	229	15,011
2009	8,479	6,935	0.395	157	123	14,958
2010	8,006	6,827	1.068	442	524	14,862
2011	7,713	7,182	0.937	399	402	14,830
2012	7,330	7,573	1.234	510	627	14,777
2013	6,947	7,975	1.809	648	799	14,782
2014	6,884	8,397	1.873	666	795	14,823
2015	6,101	8,834	1.847	646	799	14,803
2016	5,799	9,269	1.803	799	848	14,935
NOM	166,839	121,207	14.345	5,872	7,340	300,399
NPV	79,877	36,864	3.879	1,490	2,083	118,171

0151

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: w/86x - Residential Load Control

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	6,864	0	0	6,864	0	2,260	104	0	3,363	(3,500)	(3,206)
1996	0	11,804	0	0	11,804	0	5,303	314	0	6,618	(5,186)	(7,552)
1997	0	10,067	0	0	10,067	17,167	5,269	484	0	23,940	13,873	3,099
1998	0	9,484	0	0	9,484	16,927	5,273	523	0	23,703	14,219	13,087
1999	0	8,914	0	0	8,914	16,295	5,275	616	0	23,186	14,272	22,399
2000	0	8,469	0	0	8,469	16,341	6,282	909	0	23,541	13,761	30,398
2001	0	8,298	0	0	8,298	16,095	6,328	858	0	23,079	17,781	39,956
2002	0	667	0	0	667	16,879	6,304	707	0	22,881	22,294	60,550
2003	0	715	0	0	715	16,995	5,414	783	0	22,992	22,147	80,992
2004	0	744	0	0	744	16,454	5,466	855	0	23,776	22,032	79,091
2005	0	802	0	0	802	16,350	6,529	922	0	22,801	21,999	78,379
2006	0	1,186	0	0	1,186	16,234	6,607	979	0	23,800	21,636	96,888
2007	0	1,324	0	0	1,324	16,099	6,660	1,101	0	23,992	21,669	92,764
2008	0	1,329	0	0	1,329	15,011	6,709	1,102	0	23,809	21,681	99,088
2009	0	1,335	0	0	1,335	14,868	6,913	1,137	0	23,099	21,674	104,039
2010	0	1,360	0	0	1,360	14,802	7,049	1,202	0	23,159	21,792	110,139
2011	0	1,248	0	0	1,248	14,839	7,105	1,226	0	23,363	22,115	115,095
2012	0	1,051	0	0	1,051	14,777	7,202	1,303	0	23,522	22,471	119,057
2013	0	1,102	0	0	1,102	14,782	7,543	1,479	0	23,804	22,703	133,804
2014	0	1,156	0	0	1,156	14,823	7,740	1,563	0	24,126	22,970	127,639
2015	0	1,422	0	0	1,422	14,883	7,848	1,637	0	24,479	23,054	131,464
2016	0	1,883	0	0	1,883	14,835	8,188	1,734	4	24,949	22,866	134,751
NOM	0	79,408	0	0	79,408	208,388	148,911	21,382	0	477,681	398,175	
NPV	0	48,367	0	0	48,367	118,171	58,089	8,877	0	184,117	134,751	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 3.73

0193

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: sf Bbs - Residential Load Control

PSC FORM CE 2.4
PAGE 1 OF 1

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED JET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	141	0	2,146	0	2,288	0	0	0	0	2,288	2,063
1996	421	0	6,240	0	6,661	0	0	0	0	6,661	7,679
1997	557	0	6,190	0	6,747	0	0	0	0	6,747	14,390
1998	588	0	6,190	0	6,778	0	0	0	0	6,778	20,542
1999	577	0	6,190	0	6,767	0	0	0	0	6,767	26,103
2000	591	0	6,190	0	6,781	0	0	0	0	6,781	31,354
2001	611	0	6,190	0	6,801	0	0	0	0	6,801	36,101
2002	631	0	6,190	0	6,821	0	0	0	0	6,821	40,469
2003	660	0	6,190	0	6,850	0	0	0	0	6,850	44,487
2004	677	0	6,190	0	6,867	0	0	0	0	6,867	48,139
2005	698	0	6,190	0	6,888	0	0	0	0	6,888	51,494
2006	720	0	6,190	0	6,910	0	0	0	0	6,910	54,598
2007	753	0	6,190	0	6,943	0	0	0	0	6,943	57,429
2008	777	0	6,190	0	6,967	0	0	0	0	6,967	60,024
2009	808	0	6,190	0	6,998	0	0	0	0	6,998	62,429
2010	820	0	6,190	0	7,010	0	0	0	0	7,010	64,636
2011	857	0	6,190	0	7,047	0	0	0	0	7,047	66,649
2012	901	0	6,190	0	7,091	0	0	0	0	7,091	68,507
2013	948	0	6,190	0	7,139	0	0	0	0	7,139	70,217
2014	994	0	6,190	0	7,184	0	0	0	0	7,184	71,790
2015	1,018	0	6,190	0	7,208	0	0	0	0	7,208	73,234
2016	1,068	0	6,190	0	7,258	0	0	0	0	7,258	74,563
NOM	15,812	0	172,185	0	187,997	0	0	0	0	187,997	
NPV	5,881	0	68,563	0	74,563	0	0	0	0	74,563	

In Service of Gen Unit: 1997

Discount Rate : 8.22

Benefit/Cost Ratio (Col(9) / Col(10)) Infinite

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: v186x - Residential Load Control

PSC FORM CE 2.5
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	6,994	2,145	88	0	9,086	104	3,260	0	0	3,362	(5,721)	(5,347)
1996	0	11,804	6,240	357	0	18,300	314	6,303	0	0	6,618	(11,683)	(15,040)
1997	0	10,087	6,180	340	0	16,607	17,051	6,289	0	0	23,340	6,343	(10,539)
1998	0	6,424	6,180	345	0	16,019	17,430	6,273	0	0	23,703	6,684	(6,946)
1999	0	6,914	6,180	352	0	17,456	16,911	6,275	0	0	23,186	5,730	(3,256)
2000	0	6,469	6,180	360	0	16,009	16,950	6,292	0	0	23,241	6,202	(195)
2001	0	6,378	6,180	373	0	13,881	16,754	6,329	0	0	23,079	9,219	4,779
2002	0	787	6,180	385	0	9,292	16,586	6,364	0	0	22,951	13,659	11,535
2003	0	716	6,180	403	0	9,306	16,446	6,414	0	0	22,862	13,555	17,662
2004	0	744	6,180	413	0	9,347	16,310	6,466	0	0	22,776	13,429	23,220
2005	0	802	6,180	426	0	9,518	16,272	6,539	0	0	22,811	13,594	28,354
2006	0	1,185	6,180	439	0	9,914	16,213	6,607	0	0	22,820	13,006	32,766
2007	0	1,304	6,180	458	0	9,973	16,288	6,693	0	0	22,982	13,009	36,899
2008	0	1,339	6,180	474	0	9,991	16,163	6,796	0	0	22,959	12,968	40,669
2009	0	1,335	6,180	492	0	10,018	16,099	6,913	0	0	23,009	12,992	44,139
2010	0	1,368	6,180	509	0	10,092	16,104	7,040	0	0	23,150	13,057	47,312
2011	0	1,349	6,180	529	0	9,957	16,188	7,166	0	0	23,363	13,397	50,302
2012	0	1,351	6,180	550	0	9,781	16,160	7,302	0	0	23,522	13,732	53,158
2013	0	1,102	6,180	570	0	9,271	16,201	7,643	0	0	23,804	13,834	55,714
2014	0	1,158	6,180	606	0	9,902	16,366	7,740	0	0	24,128	14,171	58,142
2015	0	1,422	6,180	621	0	10,223	16,530	7,948	0	0	24,478	14,242	60,376
2016	0	1,289	6,180	661	0	10,734	16,885	8,180	0	0	24,849	14,115	62,403
NOM.	0	70,409	172,185	8,843	0	261,239	330,770	146,811	0	0	477,581	216,345	
NPV	0	46,287	66,883	3,485	0	121,714	126,048	58,069	0	0	184,117	62,403	

Discount Rate	0.22
Benefit/Cost Ratio (Col(12) / Col(7)) :	1.51

0195

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	RS-DLC	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$69	* Excludes capital costs.
(2) UTILITY RECURRING COST PER CUSTOMER	$0	
(4) CUSTOMER EQUIPMENT COST	$0	
(6) CUSTOMER O&M COST	$0	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0	
(13) UTILITY RECURRING REBATE/INCENTIVE	$78	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.6%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

0196

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: U101R - Residential Load Control

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.02	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.37	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	87.4	kWh ***
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	47.8	kWh ***

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85800	
(5) K FACTOR FOR T & D	1.86857	

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	8.23	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	558	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	30	$/kW
(7) GEN, TRANS & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.83	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	82%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.29	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	9.34	%**

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 12
**** 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: UN01R - Residential Load Control

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	5,995	1,756	0	0	0	0	0	0	0	0
1998	10,084	5,070	0	7,720	72	0	0	0	0	0
1999	13,498	7,506	0	15,154	214	0	0	0	0	0
2000	16,953	10,726	0	21,483	344	0	0	0	0	0
2001	14,947	12,000	0	27,179	472	0	0	0	0	0
2002	15,021	12,000	0	27,037	550	0	0	0	0	0
2003	11,018	12,000	0	27,113	568	0	0	0	0	0
2004	7,548	12,000	0	23,108	584	0	0	0	0	0
2005	4,713	12,000	0	18,636	610	0	0	0	0	0
2006	1,102	12,000	0	16,803	628	0	0	0	0	0
2007	1,382	12,000	0	13,392	648	0	0	0	0	0
2008	1,710	12,000	0	13,472	679	0	0	0	0	0
2009	2,037	12,000	0	13,800	699	0	0	0	0	0
2010	2,366	12,000	0	14,127	729	0	0	0	0	0
2011	2,524	12,000	0	14,466	747	0	0	0	0	0
2012	2,579	12,000	0	14,614	780	0	0	0	0	0
2013	2,402	12,000	0	14,868	812	0	0	0	0	0
2014	2,239	12,000	0	14,402	855	0	0	0	0	0
2015	2,087	12,000	0	14,328	895	0	0	0	0	0
2016	1,877	12,000	0	14,177	917	0	0	0	0	0
2017	2,202	12,000	0	13,967	962	0	0	0	0	0
2018	2,754	12,000	0	14,292	1,003	0	0	0	0	0
2019	3,305	12,000	0	14,844	1,046	0	0	0	0	0
2020	3,856	12,000	0	15,395	1,079	0	0	0	0	0
				15,946	1,124	0	0	0	0	0
NOM	134,290	267,345	0	401,805	17,020	0	0	0	0	0
NPV	62,084	80,357	0	142,421	4,485	0	0	0	0	0

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

0198

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: UR01R - Residential Load Control

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	162,881	7,167	1,238	9,382	6,553	2,500	5,379	403	32,719	32,719	32,719
2002	154,035	6,886	1,186	8,969	4,143	2,500	5,379	2,533	31,691	29,015	61,734
2003	148,289	6,525	1,127	8,541	4,157	2,587	5,379	2,202	30,529	25,590	87,324
2004	140,887	6,198	1,071	8,114	4,180	2,500	5,379	1,895	29,413	22,574	109,897
2005	133,734	5,884	1,018	7,702	4,157	2,500	5,379	1,608	28,343	18,916	128,813
2006	126,892	5,583	964	7,308	4,140	2,500	5,379	1,342	27,314	17,572	147,384
2007	120,291	5,292	914	6,928	4,109	2,500	5,379	1,103	26,323	15,504	162,889
2008	113,914	5,712	866	6,561	4,076	2,500	5,379	876	25,367	13,680	176,569
2009	107,879	4,728	818	6,202	3,857	2,500	5,379	839	24,430	12,082	188,650
2010	101,461	4,464	771	5,844	3,603	2,500	5,379	839	23,497	10,622	199,252
2011	95,244	4,191	724	5,486	3,348	2,500	5,379	839	22,563	9,336	208,588
2012	89,020	3,917	677	5,128	3,093	2,500	5,379	839	21,630	8,198	216,787
2013	82,809	3,644	629	4,770	2,839	2,500	5,379	839	20,696	7,180	223,967
2014	76,592	3,370	582	4,412	2,584	2,500	5,379	839	19,763	6,277	230,244
2015	70,375	3,096	535	4,054	2,330	2,500	5,379	839	18,829	5,476	235,720
2016	64,158	2,823	488	3,695	2,075	2,500	5,379	839	17,896	4,795	240,466
2017	57,940	2,549	440	3,337	1,821	2,500	5,379	839	16,962	4,135	244,600
2018	51,723	2,276	393	2,979	1,566	2,500	5,379	839	16,029	3,579	248,180
2019	45,506	2,002	346	2,621	1,311	2,500	5,379	839	15,095	3,095	251,282
2020	39,289	1,729	299	2,263	1,057	2,500	5,379	839	14,162	2,650	253,932
2021	33,750	1,485	256	1,944	2,186	2,500	5,379	839	13,330	2,283	256,215
2022	28,579	1,301	225	1,704	3,397	2,500	5,379	(517)	12,704	1,992	258,208
2023	24,088	1,148	198	1,503	3,254	2,500	5,379	(1,000)	12,182	1,748	259,957
2024	22,820	886	172	1,303	3,112	2,500	5,379	(1,000)	11,859	1,533	261,490
2025	18,140	842	148	1,102	2,969	2,500	5,379	(1,000)	11,127	1,340	262,830
2026	15,000	699	119	902	2,827	2,500	5,379	(1,000)	10,614	1,170	264,000
2027	12,180	539	93	702	2,684	2,500	5,379	(1,000)	10,092	1,018	265,018
2028	8,700	363	68	501	2,542	2,500	5,379	(1,000)	9,588	884	265,902
2029	5,220	220	40	301	2,399	2,500	5,379	(1,000)	9,047	765	266,667
2030	1,740	77	13	100	2,257	2,500	5,379	(1,000)	8,524	660	267,327

IN SERVICE COST ($000)	161,342
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65600

0139

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: R01R - Residential Load Control

PSC FORM DE 1.1A
PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	5,906	5,906	5,378	5,378	4,821	4,821	403	13,723	0	0	0	403
2002	7.22%	11,467	17,454	5,378	10,756	4,821	9,641	2,533	13,723	0	0	0	2,533
2003	6.68%	10,626	28,082	5,378	16,134	4,821	14,762	2,202	13,723	0	0	0	2,202
2004	6.18%	9,833	37,914	5,378	21,512	4,821	19,583	1,865	13,723	0	0	0	1,865
2005	5.71%	9,095	48,009	5,378	26,890	4,821	24,403	1,809	13,723	0	0	0	1,809
2006	5.29%	8,401	56,309	5,378	32,268	4,821	29,524	1,342	13,723	0	0	0	1,342
2007	4.89%	7,790	63,180	5,378	37,646	4,821	34,444	1,103	13,723	0	0	0	1,103
2008	4.52%	7,181	70,371	5,378	43,025	4,821	39,265	879	13,723	0	0	0	879
2009	4.46%	7,098	77,467	5,378	48,403	4,821	44,086	839	13,723	0	0	0	839
2010	4.46%	7,098	84,563	5,378	53,781	4,821	48,908	839	13,723	0	0	0	839
2011	4.46%	7,098	91,658	5,378	59,159	4,821	53,727	839	13,723	0	0	0	839
2012	4.46%	7,098	98,756	5,378	64,537	4,821	58,548	839	13,723	0	0	0	839
2013	4.46%	7,098	105,851	5,378	69,915	4,821	63,368	839	13,723	0	0	0	839
2014	4.46%	7,098	112,947	5,378	75,293	4,821	68,189	839	13,723	0	0	0	839
2015	4.46%	7,098	120,043	5,378	80,671	4,821	73,010	839	13,723	0	0	0	839
2016	4.46%	7,098	127,139	5,378	86,049	4,821	77,830	839	13,723	0	0	0	839
2017	4.46%	7,098	134,236	5,378	91,427	4,821	82,651	839	13,723	0	0	0	839
2018	4.46%	7,098	141,331	5,378	96,805	4,821	87,471	839	13,723	0	0	0	839
2019	4.46%	7,098	148,427	5,378	102,183	4,821	92,292	839	13,723	0	0	0	839
2020	4.46%	7,098	155,522	5,378	107,561	4,821	97,113	839	13,723	0	0	0	839
2021	2.25%	3,580	159,102	5,378	112,939	4,821	101,933	(517)	13,723	0	0	0	(517)
2022	0.00%	0	159,102	5,378	118,317	4,821	106,754	(1,896)	13,723	0	0	0	(1,896)
2023	0.00%	0	159,102	5,378	123,695	4,821	111,575	(1,896)	13,723	0	0	0	(1,896)
2024	0.00%	0	159,102	5,378	129,074	4,821	116,395	(1,896)	13,723	0	0	0	(1,896)
2025	0.00%	0	159,102	5,378	134,452	4,821	121,216	(1,896)	13,723	0	0	0	(1,896)
2026	0.00%	0	159,102	5,378	139,830	4,821	126,037	(1,896)	13,723	0	0	0	(1,896)
2027	0.00%	0	159,102	5,378	145,208	4,821	130,857	(1,896)	13,723	0	0	0	(1,896)
2028	0.00%	0	159,102	5,378	150,586	4,821	135,678	(1,896)	13,723	0	0	0	(1,896)
2029	0.00%	0	159,102	5,378	155,964	4,821	140,498	(1,896)	13,723	0	0	0	(1,896)
2030	0.00%	0	159,102	5,378	161,342	4,821	145,319	(1,896)	13,723	0	0	0	(1,896)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(4,430)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	13,723
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0200

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: Ut01R - Residential Load Control

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2001	3.75%	5,906	403	156,964	5,379	(4,026)	166,772	158,990	162,881
2002	7.22%	11,467	2,533	150,588	10,758	(1,493)	158,990	152,079	156,035
2003	6.68%	10,628	2,202	145,208	16,134	708	152,079	144,499	148,289
2004	6.18%	9,833	1,895	139,830	21,512	2,603	144,499	137,226	140,863
2005	5.71%	9,085	1,808	134,452	26,890	4,208	137,226	130,242	133,734
2006	5.29%	8,401	1,342	129,074	32,268	5,552	130,242	123,522	126,882
2007	4.89%	7,780	1,103	123,695	37,646	6,655	123,522	117,041	120,281
2008	4.52%	7,191	878	118,317	43,025	7,531	117,041	110,787	113,914
2009	4.46%	7,098	839	112,939	48,403	8,370	110,787	104,589	107,679
2010	4.46%	7,098	839	107,561	53,781	9,209	104,589	98,352	101,481
2011	4.46%	7,098	839	102,183	59,159	10,048	98,352	92,135	95,244
2012	4.46%	7,098	839	96,805	64,537	10,887	92,135	85,918	89,026
2013	4.46%	7,098	839	91,427	69,915	11,727	85,918	79,701	82,809
2014	4.46%	7,098	839	86,049	75,293	12,566	79,701	73,483	76,592
2015	4.46%	7,098	839	80,671	80,671	13,405	73,483	67,266	70,375
2016	4.46%	7,098	839	75,293	86,049	14,244	67,266	61,049	64,158
2017	4.46%	7,098	839	69,915	91,427	15,083	61,049	54,832	57,940
2018	4.46%	7,098	839	64,537	96,805	15,922	54,832	48,615	51,723
2019	4.42%	7,098	839	59,159	102,183	16,761	48,615	42,397	45,506
2020	4.46%	7,098	839	53,781	107,561	17,600	42,397	36,180	39,289
2021	2.23%	3,583	(517)	48,403	112,939	17,083	36,180	31,318	33,750
2022	0.00%	0	(1,808)	43,025	118,317	15,185	31,318	27,839	29,579
2023	0.00%	0	(1,808)	37,646	123,695	13,287	27,839	24,359	26,099
2024	0.00%	0	(1,808)	32,268	129,074	11,389	24,359	20,880	22,620
2025	0.00%	0	(1,808)	26,890	134,452	9,491	20,880	17,400	19,140
2026	0.00%	0	(1,808)	21,512	139,830	7,593	17,400	13,920	15,660
2027	0.00%	0	(1,808)	16,134	145,208	5,694	13,920	10,440	12,180
2028	0.00%	0	(1,808)	10,756	150,586	3,796	10,440	6,960	8,700
2029	0.00%	0	(1,808)	5,379	155,964	1,898	6,960	3,480	5,220
2030	0.00%	0	(1,808)	0	161,342	0	3,480	0	1,740

* Column not specified in workbook

0201

(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)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.90%	1.029	0.00%	0.00	0.00
1996	-5	2.93%	1.059	0.84%	4.92	2.46
1997	-4	3.15%	1.088	1.66%	10.03	6.93
1998	-3	3.62%	1.128	13.00%	81.35	55.82
1999	-2	3.85%	1.169	60.50%	393.17	392.88
2000	-1	3.86%	1.214	24.00%	162.01	570.47
				100.00%	661.48	

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 ($/kW)	(10) INCREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.46	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.20	0.45	0.56	1.12	1.39	1.02	1.26	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.95	(1.22)	(1.49)	87.61	103.94
1999	-2	300.52	13.29	16.37	32.98	40.62	29.98	36.94	(6.44)	(7.93)	429.15	530.09
2000	-1	611.10	27.24	43.61	67.80	108.22	60.74	97.68	(12.92)	(20.86)	229.81	758.70
			43.61	63.72	108.22		97.68		(20.86)		758.70	

	IN SERVICE YEA	2001
	PLANT COST$	556
	AFUDC RATE	10.82%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	136,358	136,358	136,358
EQUITY AFUDC	13,723		
DEBT AFUDC	8,261	8,261	
CPI			20,744
TOTAL	181,342	147,619	157,102

2020

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME U01R - Residential Load Control

PSC FORM CE 1.2
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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	(5) AVOIDED MARGINAL FUEL COST (C/kWh)	(6)* INCREASED MARGINAL FUEL COST (C/kWh)	(7) REPLACEMENT FUEL COST (C/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.62	1.89	0.00	1.00	1.00
1995	0	0	0.00	4.89	1.92	0.00	1.00	1.00
1996	0	0	0.00	5.08	1.92	0.00	1.00	1.00
1997	45,000	45,000	0.00	5.82	2.03	0.00	1.00	1.00
1998	85,000	85,000	0.00	6.01	2.04	0.00	1.00	1.00
1999	120,000	120,000	0.00	7.19	2.19	0.00	1.00	1.00
2000	155,000	155,000	0.00	7.25	2.43	0.00	1.00	1.00
2001	155,000	155,000	0.00	7.78	2.52	5.01	1.00	1.00
2002	155,000	155,000	0.00	8.29	2.59	5.43	1.00	1.00
2003	155,000	155,000	0.00	9.13	2.77	5.37	1.00	1.00
2004	155,000	155,000	0.00	9.86	2.84	5.95	1.00	1.00
2005	155,000	155,000	0.00	10.69	3.14	5.89	1.00	1.00
2006	155,000	155,000	0.00	11.33	3.30	6.32	1.00	1.00
2007	155,000	155,000	0.00	13.55	3.57	6.85	1.00	1.00
2008	155,000	155,000	0.00	13.29	3.81	7.04	1.00	1.00
2009	155,000	155,000	0.00	13.21	3.82	7.57	1.00	1.00
2010	155,000	155,000	0.00	14.48	4.18	8.37	1.00	1.00
2011	155,000	155,000	0.00	15.29	4.14	8.53	1.00	1.00
2012	155,000	155,000	0.00	15.93	4.53	8.86	1.00	1.00
2013	155,000	155,000	0.00	16.82	4.62	9.57	1.00	1.00
2014	155,000	155,000	0.00	17.89	4.88	10.14	1.00	1.00
2015	155,000	155,000	0.00	18.77	5.18	10.51	1.00	1.00
2016	155,000	155,000	0.00	19.82	5.39	11.12	1.00	1.00
2017	155,000	155,000	0.00	20.89	5.86	11.73	1.00	1.00
2018	155,000	155,000	0.00	20.89	5.92	12.38	1.00	1.00
2019	155,000	155,000	0.00	22.02	6.19	13.06	1.00	1.00
2020	155,000	155,000	0.00	23.24	6.48	13.77	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.

0203

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME UI01R - Residential Load Control

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	32,718	5,881	230,047	31,564	48,209	22,105
2002	31,891	6,130	250,496	35,832	54,442	18,432
2003	30,528	6,412	264,582	38,251	54,404	22,052
2004	29,413	6,695	278,498	42,820	60,782	18,544
2005	28,343	6,996	272,054	42,829	58,233	22,003
2006	27,314	7,325	250,140	38,449	52,980	21,357
2007	26,323	7,669	221,394	35,019	47,184	22,888
2008	25,367	8,045	207,200	34,05_	44,540	23,130
2009	24,439	8,447	230,145	36,284	50,636	20,793
2010	23,467	8,878	241,134	40,408	55,799	17,224
2011	22,563	9,339	178,234	30,252	39,865	22,348
2012	21,630	9,824	144,927	24,791	32,504	23,799
2013	20,688	10,358	147,089	25,152	33,369	23,022
2014	19,783	10,904	160,449	27,521	36,653	21,809
2015	18,829	11,471	167,572	32,279	42,185	20,572
2016	17,866	12,068	178,316	30,764	40,509	20,348
2017	16,862	12,695	181,884	31,088	41,231	18,867
2018	16,029	13,356	188,881	32,219	42,966	16,807
2019	15,095	14,050	204,758	34,789	46,721	17,418
2020	14,182	14,781	215,176	36,444	48,230	16,372
NOM	463,250	191,312	4233,924	686,277	930,714	413,358
NPV	138,939	43,035	1183,913	187,003	258,814	111,007

0204

page 8

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: LR01R - Residential Load Control

PSC FORM CE 2.2
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(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	1,330	216	1,546	357	914	1,271	123	24
1998	2,515	431	2,946	875	1,800	2,474	380	69
1999	3,541	636	4,177	950	2,855	3,805	718	117
2000	4,570	860	5,430	1,226	3,587	4,813	971	173
2001	4,423	901	5,324	1,167	3,780	4,946	1,175	203
2002	4,271	843	5,213	1,146	3,932	5,078	1,252	206
2003	4,125	986	5,111	1,106	4,113	5,220	1,379	223
2004	3,966	1,029	5,014	1,069	4,294	5,363	1,492	229
2005	3,851	1,076	4,927	1,033	4,488	5,521	1,614	253
2006	3,722	1,126	4,848	998	4,699	5,697	1,711	266
2007	3,595	1,179	4,774	964	4,819	5,884	2,046	287
2008	3,469	1,237	4,706	931	5,160	6,091	2,007	306
2009	3,344	1,299	4,643	897	5,418	6,315	1,994	315
2010	3,219	1,365	4,584	863	5,695	6,558	2,196	337
2011	3,094	1,436	4,530	830	5,991	6,821	2,309	333
2012	2,968	1,512	4,480	796	6,308	7,105	2,406	366
2013	2,843	1,592	4,435	763	6,643	7,406	2,555	372
2014	2,718	1,677	4,394	729	6,995	7,724	2,701	393
2015	2,593	1,764	4,358	695	7,359	8,054	2,833	417
2016	2,467	1,856	4,323	662	7,741	8,403	2,993	434
2017	2,342	1,952	4,294	628	8,144	8,772	3,150	456
2018	2,225	2,053	4,279	587	8,567	9,154	3,150	477
2019	2,109	2,160	4,268	570	9,013	9,583	3,325	488
2020	2,041	2,273	4,313	547	9,481	10,029	3,508	521
NOM.	75,376	31,562	106,938	20,220	131,677	151,897	47,979	7,277
NPV	26,413	8,150	34,563	7,066	34,002	41,068	11,726	1,825

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

0205

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: LM01R - Residential Load Control

PSC FORM CE 2.3
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	8,995	0	0	8,995	0	2,821	0	0	2,820	(3,045)	(2,327)
2000	0	10,084	0	0	10,084	0	5,421	0	0	5,732	(4,352)	(5,305)
2001	0	13,408	0	0	13,408	0	7,782	99	0	8,384	(5,114)	(8,888)
2002	0	16,953	0	0	16,953	0	10,243	311	0	11,010	(5,913)	(12,168)
2003	0	14,647	0	0	14,647	0	10,271	802	0	33,347	18,401	(2,340)
2004	0	16,023	0	0	16,023	22,105	10,291	797	0	30,787	14,744	5,529
2005	0	11,018	0	0	11,018	18,432	10,331	872	0	33,539	22,520	16,709
2006	0	7,548	0	0	7,548	22,052	10,370	1,043	0	30,184	22,637	25,078
2007	0	4,713	0	0	4,713	18,544	10,448	1,158	0	33,812	29,099	36,104
2008	0	1,182	0	0	1,182	22,003	10,545	1,263	0	33,347	32,165	47,280
2009	0	1,382	0	0	1,382	21,387	10,658	1,301	0	36,094	33,702	57,995
2010	0	1,710	0	0	1,710	22,868	10,797	1,445	0	36,809	33,918	67,828
2011	0	2,037	0	0	2,037	23,120	10,958	1,759	0	33,400	31,363	76,179
2012	0	2,388	0	0	2,388	20,763	11,142	1,701	0	30,218	27,850	82,998
2013	0	2,824	0	0	2,824	17,224	11,350	1,870	0	35,672	33,149	88,367
2014	0	2,876	0	0	2,876	22,348	11,585	1,849	0	37,423	34,644	97,487
2015	0	2,402	0	0	2,402	23,786	11,841	1,875	0	37,049	34,845	103,999
2016	0	2,239	0	0	2,239	23,022	12,118	2,041	0	36,125	33,887	109,774
2017	0	2,067	0	0	2,067	21,899	12,410	2,183	0	36,399	33,712	114,898
2018	0	1,877	0	0	1,877	20,572	12,726	2,308	0	35,833	33,756	118,845
2019	0	2,302	0	0	2,302	20,348	13,068	2,418	0	35,458	33,255	4,372
2020	0	2,754	0	0	2,754	18,607	13,443	2,559	0	34,824	32,170	3,872
		3,306			3,306	17,418	13,869	2,684	0	34,113	30,808	3,306
		3,856			3,856	16,372	14,342	2,873	0	33,701	29,845	3,011
								2,829	0			
								2,987	0			
NOM	0	134,260	0	0	134,260	413,358	256,835	40,702	0	712,895	578,635	
NPV	0	82,084	0	0	82,084	111,007	75,851	8,901	0	196,559	134,495	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 3.17

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: U01R - Residential Load Control

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	5,965	1,756	73	0	7,793	99	2,821	0	0	2,920	(4,873)	(3,740)
1998	0	10,084	5,070	214	0	15,368	311	5,421	0	0	5,732	(9,636)	(10,510)
1999	0	13,498	7,995	344	0	21,836	802	7,782	0	0	8,584	(13,452)	(19,185)
2000	0	16,953	10,725	472	0	28,150	797	10,243	0	0	11,040	(17,110)	(28,243)
2001	0	14,947	12,090	550	0	27,587	23,077	10,271	0	0	33,347	5,760	(26,136)
2002	0	15,023	12,090	568	0	27,681	20,475	10,291	0	0	30,767	3,086	(24,813)
2003	0	11,018	12,090	594	0	23,702	23,208	10,331	0	0	33,539	9,836	(20,167)
2004	0	7,548	12,090	610	0	20,247	18,807	10,378	0	0	30,184	9,937	(16,054)
2005	0	4,713	12,090	629	0	17,421	23,384	10,448	0	0	33,812	16,391	(9,847)
2006	0	1,182	12,090	649	0	13,831	22,802	10,545	0	0	33,347	19,516	(3,111)
2007	0	1,362	12,090	678	0	14,150	24,427	10,658	0	0	35,084	20,934	3,539
2008	0	1,710	12,090	699	0	14,500	24,831	10,797	0	0	35,628	21,129	8,883
2009	0	2,037	12,090	726	0	14,853	22,442	10,958	0	0	33,400	18,547	14,621
2010	0	2,366	12,090	747	0	15,202	19,073	11,142	0	0	30,216	15,013	18,291
2011	0	2,524	12,090	780	0	15,394	24,323	11,350	0	0	35,673	20,279	22,808
2012	0	2,578	12,090	812	0	15,480	25,876	11,585	0	0	37,423	21,943	27,291
2013	0	2,402	12,090	855	0	15,348	25,208	11,841	0	0	37,048	21,700	31,351
2014	0	2,239	12,090	895	0	15,223	24,009	12,118	0	0	36,125	20,902	34,932
2015	0	2,087	12,090	917	0	15,093	22,989	12,410	0	0	35,399	20,306	37,118
2016	0	1,877	12,090	962	0	14,929	22,908	12,726	0	0	35,633	20,704	41,089
2017	0	2,202	12,090	1,003	0	15,295	22,391	13,098	0	0	35,488	20,192	2,851
2018	0	2,754	12,090	1,048	0	15,890	21,481	13,443	0	0	34,924	19,034	2,291
2019	0	3,306	12,090	1,078	0	16,471	20,244	13,899	0	0	34,113	17,642	1,944
2020	0	3,858	12,090	1,124	0	17,070	18,359	14,342	0	0	33,701	16,632	1,678
NOM.	0	134,260	267,345	17,020	0	418,625	464,081	256,635	0	0	712,885	294,271	
NPV	0	62,084	80,357	4,405	0	146,907	120,808	75,651	0	0	196,559	49,653	

Discount Rate: 9.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.34

8020

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: RESIDENTIAL LOAD MANAGEMENT (ON CALL) (1997 - 2000)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	RS-01C	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$69	* Excludes capital costs.
(2) UTILITY RECURRING COST PER CUSTOMER	$0	
(4) CUSTOMER EQUIPMENT COST	$0	
(6) CUSTOMER O&M COST	$0	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0	
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	$78	
	0%	

III. (2,5,7,9) ESCALATION RATES

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.6%
2004	4.4%	3.7%
2005	4.5%	3.8%
2006	4.7%	3.9%
2007	4.7%	4.0%
2008	4.9%	4.2%
2009	5.0%	4.3%
2010	5.1%	4.4%
2011	5.2%	4.4%
2012	5.3%	4.5%
2013	5.3%	4.4%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%
		4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 ¢/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

6020

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME U104R - RESIDENTIAL LOAD CONTROL

01/29/96

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	35,270	1,352	266	2,032	1,419	562	1,186	87	7,086	7,086	7,086
2005	33,758	1,487	257	1,946	997	562	1,186	548	6,982	6,293	13,368
2006	32,111	1,413	244	1,850	900	562	1,186	477	6,811	5,541	18,909
2007	30,503	1,342	232	1,757	801	562	1,186	410	6,389	4,888	23,797
2008	28,959	1,274	220	1,669	900	562	1,186	348	6,127	4,312	28,110
2009	27,475	1,209	209	1,583	808	562	1,186	291	5,915	3,805	31,915
2010	26,048	1,146	198	1,500	880	562	1,186	239	5,700	3,357	35,272
2011	24,687	1,086	187	1,421	883	562	1,186	190	5,493	2,962	38,234
2012	23,317	1,026	177	1,343	826	562	1,186	142	5,280	2,612	40,846
2013	21,971	967	167	1,265	780	562	1,186	142	5,068	2,300	43,146
2014	20,624	907	157	1,188	725	562	1,186	142	4,868	2,022	45,168
2015	19,278	848	147	1,110	670	562	1,186	142	4,804	1,775	46,943
2016	17,932	789	136	1,033	615	562	1,186	142	4,482	1,555	48,498
2017	16,585	729	126	955	560	562	1,186	142	4,279	1,359	49,857
2018	15,239	671	116	879	504	562	1,186	142	4,077	1,188	51,043
2019	13,893	611	106	800	449	562	1,186	142	3,875	1,032	52,075
2020	12,546	552	95	723	394	562	1,186	142	3,673	895	52,970
2021	11,200	493	85	645	339	562	1,186	142	3,471	775	53,745
2022	9,854	434	75	568	284	562	1,186	142	3,269	668	54,413
2023	8,508	374	65	490	229	562	1,186	142	3,067	574	54,987
2024	7,308	322	56	421	473	562	1,186	142	2,867	494	55,481
2025	6,405	282	49	369	735	562	1,186	142	2,751	431	55,912
2026	5,662	249	43	329	706	562	1,186	(112)	2,638	379	56,291
2027	4,766	216	37	282	674	562	1,186	(411)	2,525	332	56,623
2028	4,144	182	31	239	643	562	1,186	(411)	2,412	290	56,913
2029	3,301	149	26	195	612	562	1,186	(411)	2,298	253	57,167
2030	2,837	116	20	152	581	562	1,186	(411)	2,185	220	57,387
2031	1,804	83	14	109	550	562	1,186	(411)	2,072	191	57,579
2032	1,120	50	9	65	520	562	1,186	(411)	1,959	166	57,744
2033	377	17	3	22	489	562	1,186	(411)	1,848	143	57,887

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	4%	10.00 %
P/S	2%	8.50 %
C/S	4%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST =

1.65068

0242

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/26/95

PROGRAM NAME U104R - RESIDENTIAL LOAD CONTROL

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2004	3.75%	1,292	1,292	1,166	1,166	1,066	1,066	87	2,870	0	0	0	87
2005	7.22%	2,487	3,779	1,166	2,329	1,066	2,131	649	2,870	0	0	0	649
2006	6.68%	2,301	6,081	1,166	3,494	1,066	3,197	477	2,870	0	0	0	477
2007	6.18%	2,129	8,210	1,166	4,658	1,066	4,262	410	2,870	0	0	0	410
2008	5.71%	1,967	10,177	1,166	5,823	1,066	5,329	318	2,870	0	0	0	318
2009	5.28%	1,819	11,996	1,166	6,987	1,066	6,393	291	2,870	0	0	0	291
2010	4.89%	1,685	13,681	1,166	8,152	1,066	7,458	239	2,870	0	0	0	239
2011	4.52%	1,557	15,238	1,166	9,317	1,066	8,525	190	2,870	0	0	0	190
2012	4.46%	1,537	16,775	1,166	10,481	1,066	9,590	182	2,870	0	0	0	182
2013	4.46%	1,537	18,312	1,166	11,646	1,066	10,656	182	2,870	0	0	0	182
2014	4.46%	1,537	19,849	1,166	12,810	1,066	11,721	182	2,870	0	0	0	182
2015	4.46%	1,537	21,385	1,166	13,975	1,066	12,787	182	2,870	0	0	0	182
2016	4.46%	1,537	22,921	1,166	15,140	1,066	13,852	182	2,870	0	0	0	182
2017	4.46%	1,537	24,458	1,166	16,304	1,066	14,918	182	2,870	0	0	0	182
2018	4.46%	1,537	25,995	1,166	17,469	1,066	15,984	182	2,870	0	0	0	182
2019	4.46%	1,537	27,531	1,166	18,633	1,066	17,049	182	2,870	0	0	0	182
2020	4.46%	1,537	29,068	1,166	19,798	1,066	18,115	182	2,870	0	0	0	182
2021	4.46%	1,537	30,604	1,166	20,962	1,066	19,180	182	2,870	0	0	0	182
2022	4.46%	1,537	32,141	1,166	22,127	1,066	20,246	182	2,870	0	0	0	182
2023	4.46%	1,537	33,678	1,166	23,292	1,066	21,311	182	2,870	0	0	0	182
2024	2.25%	775	34,453	1,166	24,458	1,066	22,377	(112)	2,870	0	0	0	(112)
2025	0.00%	0	34,453	1,166	25,621	1,066	23,442	(411)	2,870	0	0	0	(411)
2026	0.00%	0	34,453	1,166	26,785	1,066	24,508	(411)	2,870	0	0	0	(411)
2027	0.00%	0	34,453	1,166	27,950	1,066	25,574	(411)	2,870	0	0	0	(411)
2028	0.00%	0	34,453	1,166	29,115	1,066	26,639	(411)	2,870	0	0	0	(411)
2029	0.00%	0	34,453	1,166	30,279	1,066	27,705	(411)	2,870	0	0	0	(411)
2030	0.00%	0	34,453	1,166	31,444	1,066	28,770	(411)	2,870	0	0	0	(411)
2031	0.00%	0	34,453	1,166	32,608	1,066	29,836	(411)	2,870	0	0	0	(411)
2032	0.00%	0	34,453	1,166	33,773	1,066	30,901	(411)	2,870	0	0	0	(411)
2033	0.00%	0	34,453	1,166	34,937	1,066	31,967	(411)	2,870	0	0	0	(411)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(958)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	2,870
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0213

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/25/96

PROGRAM NAME: U104R - RESIDENTIAL LOAD CONTROL

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2004	3.75%	1,292	87	33,773	1,165	(872)	35,899	34,644	35,270
2005	7.22%	2,487	549	32,608	2,329	(323)	34,644	32,931	33,786
2006	6.68%	2,301	477	31,444	3,494	154	32,931	31,290	32,111
2007	6.15%	2,129	410	30,279	4,658	564	31,290	29,715	30,503
2008	5.71%	1,967	348	29,115	5,823	912	29,715	28,203	28,959
2009	5.29%	1,818	291	27,950	6,987	1,203	28,203	26,747	27,475
2010	4.89%	1,685	239	26,785	8,152	1,441	26,747	25,344	26,046
2011	4.52%	1,557	190	25,621	9,317	1,631	25,344	23,990	24,667
2012	4.46%	1,537	182	24,456	10,481	1,813	23,990	22,644	23,317
2013	4.46%	1,537	182	23,292	11,646	1,994	22,644	21,297	21,970
2014	4.42%	1,537	182	22,127	12,810	2,176	21,297	19,951	20,624
2015	4.46%	1,537	182	20,962	13,975	2,358	19,951	18,605	19,278
2016	4.46%	1,537	182	19,798	15,140	2,540	18,605	17,258	17,932
2017	4.46%	1,537	182	18,633	16,304	2,721	17,258	15,912	16,585
2018	4.46%	1,537	182	17,469	17,469	2,903	15,912	14,566	15,239
2019	4.46%	1,537	182	16,304	18,633	3,085	14,566	13,220	13,893
2020	4.46%	1,537	182	15,140	19,798	3,266	13,220	11,873	12,546
2021	4.46%	1,537	182	13,975	20,962	3,448	11,873	10,527	11,200
2022	4.46%	1,537	182	12,810	22,127	3,630	10,527	9,181	9,854
2023	4.46%	1,537	182	11,646	23,292	3,811	9,181	7,834	8,508
2024	2.29%	775	(112)	10,481	24,456	3,699	7,834	6,782	7,308
2025	0.00%	0	(411)	9,317	25,621	3,288	6,782	6,028	6,405
2026	0.00%	0	(411)	8,152	26,785	2,877	6,028	5,275	5,652
2027	0.00%	0	(411)	6,987	27,950	2,466	5,275	4,521	4,898
2028	0.00%	0	(411)	5,823	29,115	2,055	4,521	3,768	4,144
2029	0.00%	0	(411)	4,658	30,279	1,644	3,768	3,014	3,391
2030	0.00%	0	(411)	3,494	31,444	1,233	3,014	2,261	2,637
2031	0.00%	0	(411)	2,329	32,608	822	2,261	1,507	1,884
2032	0.00%	0	(411)	1,165	33,773	411	1,507	754	1,130
2033	0.00%	0	(411)	0	34,937	0	754	0	377

* Column not specified in workbook

0214

01/25/95

(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)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.60%	1.026	0.00%	0.00	0.00
1996	-8	2.63%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.62%	1.126	0.00%	0.00	0.00
1999	-5	3.65%	1.166	0.84%	5.48	2.73
2000	-4	3.66%	1.214	1.66%	11.21	11.06
2001	-3	3.83%	1.262	13.00%	91.21	62.27
2002	-2	3.89%	1.311	60.50%	440.82	326.33
2003	-1	3.95%	1.362	24.00%	181.82	638.70
				100.00%	730.81	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* CUMULATIVE DEBT AFUDC ($/kW)	(9) YEARLY TOTAL AFUDC ($/kW)	(9c)* CUMULATIVE TOTAL AFUDC ($/kW)	(9d)* CONSTRUCTION PERIOD INTEREST ($/kW)	(9e)* 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)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.08)	(0.08)	5.78	5.78
2000	-4	11.39	0.50	0.61	1.25	1.55	1.13	1.41	(0.24)	(0.30)	12.45	18.21
2001	-3	83.81	2.62	3.44	7.00	8.55	6.37	7.77	(1.37)	(1.67)	98.21	116.42
2002	-2	336.89	14.90	18.34	38.97	45.52	33.81	41.38	(7.22)	(8.89)	477.89	594.31
2003	-1	695.21	30.54	48.88	75.80	121.31	66.11	108.49	(14.49)	(23.38)	357.01	951.02
			48.68	71.41	121.31		108.49		(23.38)		951.02	

IN SERVICE YEA	2004
PLANT COSTS	558
AFUDC RATE	10.82%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	29.982	29.982	29.982
EQUITY AFUDC	2.970		
DEBT AFUDC	2.005	2.005	
CPI			4.490
TOTAL	34.957	31.987	34.472

0215

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME U104R - RESIDENTIAL LOAD CONTROL

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAN/kWh)	(5) AVOIDED MARGINAL FUEL COST (CAN/kWh)	(6)* INCREASED MARGINAL FUEL COST (CAN/kWh)	(7) REPLACEMENT FUEL COST (CAN/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1904	0	0	0.00	3.82	1.89	0.00	1.00	1.00
1905	0	0	0.00	4.89	1.92	0.00	1.00	1.00
1906	0	0	0.00	5.06	1.92	0.00	1.00	1.00
1907	0	0	0.00	5.82	2.03	0.00	1.00	1.00
1908	0	0	0.00	6.01	2.04	0.00	1.00	1.00
1909	0	0	0.00	7.19	2.10	0.00	1.00	1.00
2000	0	0	0.00	7.35	2.43	0.00	1.00	1.00
2001	8,877	8,877	0.00	7.76	2.52	0.00	1.00	1.00
2002	18,954	18,954	0.00	8.29	2.58	0.00	1.00	1.00
2003	29,831	29,831	0.00	8.13	2.77	0.00	1.00	1.00
2004	29,831	29,831	0.00	8.88	2.84	0.00	1.00	1.00
2005	29,831	29,831	0.00	10.60	3.14	5.85	1.00	1.00
2006	29,831	29,831	0.00	11.33	3.20	6.89	1.00	1.00
2007	29,831	29,831	0.00	12.56	3.57	6.32	1.00	1.00
2008	29,831	29,831	0.00	13.29	3.81	6.65	1.00	1.00
2009	29,831	29,831	0.00	13.21	3.92	7.04	1.00	1.00
2010	29,831	29,831	0.00	14.46	4.18	7.57	1.00	1.00
2011	29,831	29,831	0.00	15.29	4.14	8.37	1.00	1.00
2012	29,831	29,831	0.00	15.93	4.53	8.53	1.00	1.00
2013	29,831	29,831	0.00	16.82	4.62	8.98	1.00	1.00
2014	29,831	29,831	0.00	17.80	4.88	8.57	1.00	1.00
2015	29,831	29,831	0.00	16.77	5.18	10.14	1.00	1.00
2016	29,831	29,831	0.00	18.82	5.38	10.51	1.00	1.00
2017	29,831	29,831	0.00	20.86	5.86	11.12	1.00	1.00
2018	29,831	29,831	0.00	20.86	5.86	11.73	1.00	1.00
2019	29,831	29,831	0.00	22.02	6.25	12.38	1.00	1.00
2020	29,831	29,831	0.00	23.24	6.57	13.08	1.00	1.00
2021	29,831	29,831	0.00	24.52	6.90	13.77	1.00	1.00
2022	29,831	29,831	0.00	25.88	7.25	14.53	1.00	1.00
						15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0216

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: U104R - RESIDENTIAL LOAD CONTROL

01/29/96

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	1,370	0	0	1,370	0	727	31	0	758	(612)	(330)
2003	0	2,249	0	0	2,249	0	1,487	101	0	1,588	(661)	(856)
2004	0	3,119	0	0	3,119	0	2,277	186	0	2,463	(656)	(852)
2005	0	2,425	0	0	2,425	0	2,260	244	0	2,503	(656)	(852)
2006	0	2,422	0	0	2,422	4,966	2,263	283	0	7,510	5,088	1,152
2007	0	2,715	0	0	2,715	5,636	2,292	279	0	8,184	5,782	3,326
2008	0	2,307	0	0	2,307	5,460	2,305	340	0	8,031	5,316	5,180
2009	0	1,921	0	0	1,921	5,663	2,325	329	0	8,308	6,001	7,009
2010	0	1,364	0	0	1,364	5,705	2,350	324	0	8,359	6,436	8,958
2011	0	1,864	0	0	1,864	5,208	2,301	357	0	7,881	6,517	10,694
2012	0	1,575	0	0	1,575	4,489	2,417	361	0	7,227	5,563	12,050
2013	0	1,327	0	0	1,327	5,451	2,458	364	0	8,250	6,675	13,540
2014	0	1,069	0	0	1,069	5,708	2,504	402	0	8,581	7,234	15,018
2015	0	861	0	0	861	5,537	2,553	446	0	8,462	7,372	16,387
2016	0	853	0	0	853	5,200	2,606	467	0	8,259	7,387	17,694
2017	0	984	0	0	984	5,020	2,662	494	0	8,092	7,240	18,800
2018	0	1,407	0	0	1,407	4,955	2,724	520	0	8,112	7,128	19,823
2019	0	1,827	0	0	1,827	4,808	2,791	516	0	8,052	6,845	20,667
2020	0	2,343	0	0	2,343	4,614	2,863	545	0	7,920	6,092	21,420
2021	0	2,742	0	0	2,742	4,324	2,940	575	0	7,731	5,488	22,036
2022	0	2,599	0	0	2,599	4,100	3,022	608	0	7,815	4,873	22,527
		2,101			2,101	3,935	3,110	642	0	7,586	4,987	22,999
						3,749				7,509	5,315	23,435
NOM	0	41,253	0	0	41,253	84,809	53,395	8,483	0	186,438	115,184	#VALUE!
NPV	0	10,788	0	0	10,788	20,610	11,982	1,849	0	34,421	23,435	

Discount Rate: 6.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 2.17

0219

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME U104R - RESIDENTIAL LOAD CONTROL

01/26/95

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	29	0	389	0	418	0	0	0	0	418	225
2002	90	0	1,167	0	1,257	0	0	0	0	1,257	621
2003	157	0	1,945	0	2,102	0	0	0	0	2,102	950
2004	193	0	2,335	0	2,528	0	0	0	0	2,528	1,048
2005	198	0	2,335	0	2,533	0	0	0	0	2,533	990
2006	205	0	2,335	0	2,540	0	0	0	0	2,540	891
2007	215	0	2,335	0	2,549	0	0	0	0	2,549	810
2008	221	0	2,335	0	2,556	0	0	0	0	2,556	743
2009	230	0	2,335	0	2,564	0	0	0	0	2,564	683
2010	236	0	2,335	0	2,571	0	0	0	0	2,571	627
2011	247	0	2,335	0	2,582	0	0	0	0	2,582	578
2012	257	0	2,335	0	2,592	0	0	0	0	2,592	530
2013	271	0	2,335	0	2,605	0	0	0	0	2,605	487
2014	283	0	2,335	0	2,618	0	0	0	0	2,618	448
2015	290	0	2,335	0	2,625	0	0	0	0	2,625	412
2016	305	0	2,335	0	2,639	0	0	0	0	2,639	379
2017	318	0	2,335	0	2,652	0	0	0	0	2,652	349
2018	331	0	2,335	0	2,666	0	0	0	0	2,666	321
2019	341	0	2,335	0	2,675	0	0	0	0	2,675	295
2020	356	0	2,335	0	2,690	0	0	0	0	2,690	271
2021	372	0	2,335	0	2,706	0	0	0	0	2,706	250
2022	389	0	2,335	0	2,723	0	0	0	0	2,723	230
NOM	5,535	0	47,858	0	53,392	0	0	0	0	53,392	
NPV	1,127	0	10,967	0	12,095	0	0	0	0	12,095	

0220

In Service of Gen Unit:	2004
Discount Rate :	9.22
Benefit/Cost Ratio (Col(6) / Col(10))	Infinite

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME U1045I - RESIDENTIAL LOAD CONTROL

01/26/95

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PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	?	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,370	389	18	0	1,777	31	727	0	0	758	(1,018)	(549)
2002	0	2,249	1,167	55	0	3,471	101	1,487	0	0	1,588	(1,883)	(930)
2003	0	3,119	1,945	96	0	5,160	188	2,277	0	0	2,463	(2,697)	(1,218)
2004	0	2,425	2,335	118	0	4,877	5,230	2,280	0	0	7,510	2,633	1,090
2005	0	2,422	2,335	121	0	4,879	5,901	2,283	0	0	8,184	3,306	1,253
2006	0	2,715	2,335	125	0	5,175	5,736	2,292	0	0	8,031	2,857	991
2007	0	2,307	2,335	131	0	4,772	6,003	2,305	0	0	8,308	3,536	1,123
2008	0	1,921	2,335	135	0	4,391	6,034	2,325	0	0	8,359	3,968	1,154
2009	0	1,394	2,335	140	0	3,839	5,531	2,350	0	0	7,881	4,042	1,078
2010	0	1,804	2,335	144	0	4,143	4,946	2,381	0	0	7,327	3,084	752
2011	0	1,575	2,335	151	0	4,060	5,833	2,417	0	0	8,250	4,190	935
2012	0	1,327	2,335	157	0	3,818	6,103	2,458	0	0	8,561	4,743	980
2013	0	1,089	2,335	165	0	3,589	5,959	2,504	0	0	8,462	4,873	912
2014	0	861	2,335	173	0	3,369	5,705	2,553	0	0	8,259	4,890	838
2015	0	853	2,335	177	0	3,364	5,467	2,608	0	0	8,092	4,728	742
2016	0	864	2,335	186	0	3,504	5,449	2,662	0	0	8,112	4,608	662
2017	0	1,407	2,335	194	0	3,935	5,320	2,724	0	0	8,052	4,116	541
2018	0	1,827	2,335	202	0	4,363	5,130	2,791	0	0	7,920	3,557	429
2019	0	2,243	2,335	208	0	4,785	4,888	2,863	0	0	7,751	2,966	325
2020	0	2,742	2,335	217	0	5,294	4,575	2,940	0	0	7,515	2,322	224
2021	0	2,909	2,335	227	0	5,160	4,543	3,023	0	0	7,566	2,406	222
2022	0	2,101	2,335	227	0	4,762	4,391	3,116	0	0	7,506	2,744	232
NOM.	0	41,253	47,858	3,376	0	92,487	103,672	53,366	0	0	156,43x	63,950	
NPV	0	10,758	10,867	666	0	22,441	22,258	11,862	0	0	34,221	11,780	

Discount Rate	9.22
Benefit/Cost Ratio (Col(12) / Col(7)) :	1.52

0221

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	RS-DLC	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$69	* Excludes capital costs.
(2) UTILITY RECURRING COST PER CUSTOMER	$0	
(4) CUSTOMER EQUIPMENT COST	$0	
(6) CUSTOMER O&M COST	$0	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0	
(13) UTILITY RECURRING REBATE/INCENTIVE	$75	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

22221

RES. HEAT RECOVERY
WATER HEATING

RESIDENTIAL HEAT RECOVERY WATER HEATING

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	2,515	2,437	1.03	3,379	3,115	1.08	2,515	3,302	0.76
1997-2000	6,094	6,042	1.01	8,433	7,945	1.06	6,094	8,420	0.72
2001-2003	4,309	4,011	1.07	5,528	5,500	1.01	4,309	5,830	0.74
1995-2003	12,918	12,490	1.03	17,340	16,560	1.05	12,918	17,552	0.74

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH495X - Heat Recovery

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PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.19	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.25	kW
(3) kW LINE LOSS PERCENTAGE	10.50	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	626.1	kWh
(5) kWh LINE LOSS PERCENTAGE	7.62	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	22	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.04857	
(5) K FACTOR FOR T & D	1.05007	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.82	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.28	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.83	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.24	%**

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 12

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DEFERRED TAX AND MID-YEAR RATE BAS
PROGRAM METHOD SELECTED: I

PROGRAM NAME: W

(1)	(2)	(3)	(4)	(5)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION $(000)	ACCUMULATED TAX DEPRECIATION $(000)	BOOK DEPRECIATION $(000)
1997	3.75%	17	17	15
1998	7.22%	33	50	15
1999	6.68%	30	80	15
2000	6.18%	28	108	15
2001	5.71%	26	133	15
2002	5.29%	24	157	15
2003	4.89%	22	179	15
2004	4.52%	20	200	15
2005	4.46%	20	220	15
2006	4.46%	20	240	15
2007	4.46%	20	260	15
2008	4.46%	20	280	15
2009	4.46%	20	301	15
2010	4.46%	20	321	15
2011	4.46%	20	341	15
2012	4.46%	20	361	15
2013	4.46%	20	381	15
2014	4.46%	20	401	15
2015	4.46%	20	421	15
2016	4.46%	20	442	15
2017	2.23%	10	452	15
2018	0.00%	0	452	15
2019	0.00%	0	452	15
2020	0.00%	0	452	15
2021	0.00%	0	452	15
2022	0.00%	0	452	15
2023	0.00%	0	452	15
2024	0.00%	0	452	15
2025	0.00%	0	452	15
2026	0.00%	0	452	15

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

(227)

(225)

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* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH495X - Heat Recovery

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	44	140	0	184	27	0	634	11	0	645
1996	88	302	0	401	115	0	1,418	35	0	1,453
1997	0	0	0	0	179	0	0	36	0	36
1998	0	0	0	0	183	0	0	36	0	36
1999	0	0	0	0	187	0	0	36	0	36
2000	0	0	0	0	193	0	0	39	0	39
2001	0	0	0	0	200	0	0	41	0	41
2002	0	0	0	0	209	0	0	43	0	43
2003	0	0	0	0	214	0	0	45	0	45
2004	0	0	0	0	221	0	0	47	0	47
2005	0	0	0	0	229	0	0	49	0	49
2006	0	0	0	0	238	0	0	52	0	52
2007	0	0	0	0	248	0	0	54	0	54
2008	0	0	0	0	258	0	0	57	0	57
2009	0	0	0	0	268	0	0	59	0	59
2010	0	0	0	0	279	0	0	62	0	62
2011	89	140	0	229	290	0	1,231	68	0	1,297
2012	184	302	0	486	302	0	2,709	68	0	2,868
2013	0	0	0	0	315	0	0	72	0	72
2014	0	0	0	0	328	0	0	76	0	76
2015	0	0	0	0	342	0	0	81	0	81
2016	0	0	0	0	356	0	0	85	0	85
NOM	402	884	0	1,306	4,970	0	6,092	1,208	0	7,300
NPV	167	483	0	670	1,767	0	2,694	421	0	3,115

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WI1485X - Heat Recovery

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	44	140	0	184	27	0	814	11	0	846
1996	98	302	0	401	115	0	1,418	35	0	1,453
1997	0	0	0	0	176	0	0	36	0	36
1998	0	0	0	0	179	0	0	36	0	36
1999	0	0	0	0	183	0	0	39	0	39
2000	0	0	0	0	187	0	0	41	0	41
2001	0	0	0	0	193	0	0	43	0	43
2002	0	0	0	0	200	0	0	45	0	45
2003	0	0	0	0	209	0	0	47	0	47
2004	0	0	0	0	214	0	0	48	0	48
2005	0	0	0	0	221	0	0	82	0	82
2006	0	0	0	0	228	0	0	54	0	54
2007	0	0	0	0	238	0	0	57	0	57
2008	0	0	0	0	248	0	0	59	0	59
2009	0	0	0	0	255	0	0	62	0	62
2010	69	140	0	225	262	0	1,231	66	0	1,297
2011	104	302	0	407	274	0	2,799	69	0	2,868
2012	0	0	0	0	285	0	0	73	0	73
2013	0	0	0	0	300	0	0	76	0	76
2014	0	0	0	0	315	0	0	81	0	81
2015	0	0	0	0	322	0	0	85	0	85
2016	0	0	0	0	336	0	0	89	0	89
NOM	432	894	0	1,306	4,970	0	6,002	1,208	0	7,291
NPV	187	483	0	670	1,787	0	2,894	421	0	3,116

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: WH48SX - Heat Recovery

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	460	20	3	26	18	7	15	1	92	92	92
1998	440	19	3	25	12	7	15	7	88	82	174
1999	418	18	3	24	12	7	15	6	86	72	246
2000	397	17	3	23	12	7	15	5	83	64	310
2001	377	17	3	22	12	7	15	5	80	58	368
2002	358	16	3	21	12	7	15	4	77	50	418
2003	339	15	3	20	12	7	15	3	74	44	460
2004	321	14	2	19	11	7	15	2	72	39	499
2005	304	13	2	17	11	7	15	2	69	34	532
2006	288	13	2	16	10	7	15	2	66	30	562
2007	269	12	2	15	9	7	15	2	64	26	588
2008	251	11	2	14	9	7	15	2	61	23	612
2009	233	10	2	13	8	7	15	2	58	20	632
2010	216	10	2	12	7	7	15	2	56	18	649
2011	198	9	2	11	6	7	15	2	53	15	665
2012	181	8	1	10	6	7	15	2	50	13	678
2013	163	7	1	9	5	7	15	2	48	12	690
2014	146	6	1	8	4	7	15	2	45	10	700
2015	128	6	1	7	4	7	15	2	43	9	709
2016	111	5	1	6	3	7	15	2	40	7	716
2017	95	4	1	5	0	7	15	(2)	36	6	723
2018	83	4	1	5	10	7	15	(5)	36	6	729
2019	73	3	1	4	8	7	15	(6)	34	5	733
2020	64	3	0	4	8	7	15	(5)	33	4	737
2021	54	2	0	3	8	7	15	(5)	31	4	741
2022	44	2	0	3	8	7	15	(5)	30	3	745
2023	34	2	0	2	8	7	15	(5)	28	3	747
2024	24	1	0	1	7	7	15	(5)	27	2	750
2025	15	1	0	1	7	7	15	(5)	25	2	752
2026	6	0	0	0	6	7	15	(5)	24	2	754

IN SERVICE COST ($000)	457
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	
DEBT	44%	10.00	%
P/S	8%	9.50	%
C/S	48%	12.00	%

K-FACTOR = CPWFC / IN-SVC COST = 1.64957

926

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAM WH495X - Heat Recovery

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PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	17	17	15	15	14	14	1	33	0	0	0	1
1998	7.22%	33	50	15	30	14	28	7	33	0	0	0	7
1999	6.68%	30	80	15	46	14	42	6	33	0	0	0	6
2000	6.18%	28	108	15	61	14	56	5	33	0	0	0	5
2001	5.71%	26	133	15	76	14	71	5	33	0	0	0	5
2002	5.28%	24	157	15	91	14	85	4	33	0	0	0	4
2003	4.89%	22	179	15	107	14	99	3	33	0	0	0	3
2004	4.52%	20	200	15	122	14	113	2	33	0	0	0	2
2005	4.46%	20	220	15	137	14	127	2	33	0	0	0	2
2006	4.46%	20	240	15	152	14	141	2	33	0	0	0	2
2007	4.46%	20	260	15	166	14	155	2	33	0	0	0	2
2008	4.46%	20	280	15	183	14	169	2	33	0	0	0	2
2009	4.46%	20	301	15	198	14	184	2	33	0	0	0	2
2010	4.46%	20	321	15	213	14	198	2	33	0	0	0	2
2011	4.46%	20	341	15	229	14	212	2	33	0	0	0	2
2012	4.46%	20	361	15	244	14	226	2	33	0	0	0	2
2013	4.46%	20	381	15	259	14	240	2	33	0	0	0	2
2014	4.46%	20	401	15	274	14	254	2	33	0	0	0	2
2015	4.46%	20	421	15	289	14	268	2	33	0	0	0	2
2016	4.46%	20	442	15	305	14	282	2	33	0	0	0	2
2017	2.25%	10	452	15	320	14	297	(2)	33	0	0	0	(2)
2018	0.00%	0	452	15	335	14	311	(5)	33	0	0	0	(5)
2019	0.00%	0	452	15	350	14	325	(5)	33	0	0	0	(5)
2020	0.00%	0	452	15	366	14	339	(5)	33	0	0	0	(5)
2021	0.00%	0	452	15	381	14	353	(5)	33	0	0	0	(5)
2022	0.00%	0	452	15	396	14	367	(5)	33	0	0	0	(5)
2023	0.00%	0	452	15	411	14	381	(5)	33	0	0	0	(5)
2024	0.00%	0	452	15	427	14	395	(5)	33	0	0	0	(5)
2025	0.00%	0	452	15	442	14	410	(5)	33	0	0	0	(5)
2026	0.00%	0	452	15	457	14	424	(5)	33	0	0	0	(5)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(11)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	33
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

L222(1)

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME W1H495X - Heat Recovery

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
1997	3.75%	17	1	442	15	(10)	466	452	460
1998	7.22%	31	7	427	30	(3)	452	429	440
1999	6.68%	30	6	411	46	4	429	408	418
2000	6.18%	28	5	396	61	9	408	387	397
2001	5.71%	26	5	381	76	13	387	367	377
2002	5.28%	24	4	366	91	17	367	348	358
2003	4.89%	22	3	350	107	20	348	330	339
2004	4.52%	20	2	335	122	23	330	313	321
2005	4.46%	20	2	320	137	25	313	295	304
2006	4.46%	20	2	305	152	27	295	277	286
2007	4.46%	20	2	289	168	30	277	260	268
2008	4.46%	20	2	274	183	32	260	242	251
2009	4.46%	20	2	259	198	34	242	225	233
2010	4.46%	20	2	244	213	37	225	207	216
2011	4.46%	20	2	229	229	39	207	190	199
2012	4.46%	20	2	213	244	41	190	172	181
2013	4.46%	20	2	198	259	44	172	154	163
2014	4.46%	20	2	183	274	46	154	137	146
2015	4.46%	20	2	168	289	48	137	119	128
2016	4.46%	20	2	152	305	51	119	102	111
2017	2.25%	10	(2)	137	320	49	102	88	95
2018	0.00%	0	(5)	122	335	44	88	78	83
2019	0.00%	0	(5)	107	350	38	78	68	73
2020	0.00%	0	(5)	91	366	33	68	59	64
2021	0.00%	0	(5)	76	381	27	59	49	54
2022	0.00%	0	(5)	61	396	22	49	39	44
2023	0.00%	0	(5)	46	411	16	39	29	34
2024	0.00%	0	(5)	30	427	11	29	20	24
2025	0.00%	0	(5)	15	442	5	20	10	15
2026	0.00%	0	(5)	0	457	0	10	0	5

* Column not specified in workbook

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page6

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PAGE 1 OF 1

(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)
1994	-3	0.00%	1.000	13.91%	84.53	27.27
1995	-2	2.80%	1.028	44.55%	179.18	144.12
1996	-1	2.83%	1.053	41.54%	171.47	319.46
				100.00%	405.18	

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 ($/kW)	(10) NOREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-3	27.27	1.20	1.20	2.88	2.88	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	18.13	19.11	14.69	17.41	(3.10)	(3.75)	196.31	252.82
1996	-1	338.86	13.09	22.79	37.38	56.48	33.69	51.10	(7.18)	(10.93)	208.85	461.67
			22.79	31.69	58.48		51.10		(10.93)		461.67	

IN SERVICE YEA	1997
PLANT COSTS	302
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	401	401	401
EQUITY AFUDC	33		
DEBT AFUDC	23	23	
CPI			51
TOTAL	457	424	452

* Column not specified in workbook

0229

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME WH495X - Heat Recovery

PSC FORM CE 1.2
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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CA¢/Wh)	(5) AVOIDED MARGINAL FUEL COST (CA¢/Wh)	(6)* INCREASED MARGINAL FUEL COST (CA¢/Wh)	(7) REPLACEMENT FUEL COST (CA¢/Wh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.10	1.89	0.00	1.00	1.00
1995	1,248	1,248	0.00	3.39	1.92	0.00	1.00	1.00
1996	3,045	3,045	0.00	3.47	1.92	0.00	1.00	1.00
1997	3,045	3,045	0.00	3.79	2.03	4.28	1.00	1.00
1998	3,045	3,045	0.00	4.02	2.04	4.25	1.00	1.00
1999	3,045	3,045	0.00	4.67	2.19	7.85	1.00	1.00
2000	3,045	3,045	0.00	4.67	2.43	8.21	1.00	1.00
2001	3,045	3,045	0.00	5.11	2.52	8.42	1.00	1.00
2002	3,045	3,045	0.00	5.45	2.59	8.98	1.00	1.00
2003	3,045	3,045	0.00	6.02	2.77	9.28	1.00	1.00
2004	3,045	3,045	0.00	6.54	2.84	9.80	1.00	1.00
2005	3,045	3,045	0.00	6.88	3.14	9.82	1.00	1.00
2006	3,045	3,045	0.00	7.21	3.30	9.82	1.00	1.00
2007	3,045	3,045	0.00	8.04	3.57	9.70	1.00	1.00
2008	3,045	3,045	0.00	8.44	3.91	10.00	1.00	1.00
2009	3,045	3,045	0.00	8.55	3.82	10.57	1.00	1.00
2010	3,045	3,045	0.00	9.39	4.19	10.66	1.00	1.00
2011	3,045	3,045	0.00	9.74	4.14	11.46	1.00	1.00
2012	3,045	3,045	0.00	10.16	4.53	12.64	1.00	1.00
2013	3,045	3,045	0.00	10.67	4.82	13.05	1.00	1.00
2014	3,045	3,045	0.00	11.53	4.88	13.71	1.00	1.00
2015	3,045	3,045	0.10	12.04	5.18	14.19	1.00	1.00
2016	3,045	3,045	0.00	12.78	5.39	15.01	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.

0230

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME WH465X - Heat Recovery

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	92	29	0.001	0	0	118
1998	89	27	0.002	0	1	116
1999	86	26	0.006	3	5	112
2000	83	30	0.001	0	0	112
2001	80	31	0.001	0	1	111
2002	77	32	0.001	0	1	109
2003	74	34	0.002	1	1	108
2004	72	35	0.003	1	2	106
2005	69	37	0.002	1	1	106
2006	66	39	0.002	1	1	105
2007	64	41	0.003	1	2	104
2008	61	43	0.003	1	2	103
2009	59	45	0.002	1	1	103
2010	56	47	0.007	3	4	102
2011	53	49	0.006	3	3	102
2012	50	52	0.008	4	4	102
2013	48	55	0.011	4	5	102
2014	45	58	0.011	5	5	102
2015	43	61	0.011	4	5	102
2016	40	64	0.013	5	7	103
NOM	1,308	834	0.099	39	51	2,129
NPV	560	274	0.027	10	14	820

0234

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH48SX - Heat Recovery

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	6	1	7	3	4	7	13	0
1996	21	3	24	9	14	23	57	0
1997	20	4	24	9	15	24	84	0
1998	19	4	23	9	15	24	100	0
1999	19	4	22	8	16	24	116	0
2000	18	4	22	8	17	25	116	0
2001	17	4	22	8	18	25	127	0
2002	17	4	21	8	18	26	135	0
2003	16	5	21	7	19	26	149	0
2004	16	5	21	7	20	27	162	0
2005	15	5	20	7	21	28	170	0
2006	15	5	20	7	22	29	181	0
2007	14	5	20	6	23	29	199	0
2008	14	6	19	6	24	30	209	0
2009	12	6	19	6	25	31	212	0
2010	12	6	19	6	27	32	233	0
2011	12	7	19	5	28	33	241	0
2012	11	7	18	5	29	34	252	0
2013	11	7	18	5	31	36	269	0
2014	10	8	18	5	33	37	286	0
2015	10	8	18	4	34	39	298	0
2016	9	9	18	4	36	40	316	0
NOM.	318	117	433	141	488	630	3,835	0
NPV	144	41	184	84	171	236	1,275	0

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

0232

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME WH485X - Heat Recovery

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	44	845	0	889	0	15	13	0	28	(861)	(805)
1996	0	98	1,453	0	1,551	0	47	57	0	104	(1,447)	(1,818)
1997	0	0	36	0	36	118	47	94	0	259	223	(1,647)
1998	0	0	36	0	36	116	47	100	0	263	225	(1,489)
1999	0	0	39	0	39	112	47	116	0	275	235	(1,337)
2000	0	0	41	0	41	112	47	116	0	275	234	(1,200)
2001	0	0	43	0	43	111	47	127	0	284	241	(1,070)
2002	0	0	46	0	46	109	47	135	0	291	246	(948)
2003	0	0	47	0	47	109	47	149	0	304	257	(832)
2004	0	0	49	0	49	108	48	162	0	318	267	(722)
2005	0	0	52	0	52	106	48	170	0	324	272	(618)
2006	0	0	54	0	54	105	48	181	0	334	280	(521)
2007	0	0	57	0	57	104	48	199	0	352	295	(429)
2008	0	0	59	0	59	103	48	209	0	362	302	(340)
2009	0	0	62	0	62	103	50	212	0	365	303	(258)
2010	0	86	1,297	0	1,382	102	51	233	0	386	(996)	(932)
2011	0	194	2,859	0	3,052	101	52	241	0	395	(2,657)	(1,057)
2012	0	0	73	0	73	102	53	252	0	409	334	(1,029)
2013	0	0	78	0	78	102	54	268	0	425	348	(964)
2014	0	0	81	0	81	102	55	286	0	443	363	(902)
2015	0	0	85	0	85	102	57	296	0	457	373	(843)
2016	0	0	89	0	89	103	58	316	0	477	388	(788)
NOM	0	422	7,290	0	7,712	2,129	1,060	3,935	0	7,127	(585)	
NPV	0	167	3,115	0	3,302	820	410	1,275	0	2,515	(788)	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 0.76

0233

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH48SX - Heat Recovery

PSC FORM CE 2.4
PAGE 1 OF 1

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED JET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	44	0	0	0	44	634	11	0	645	(601)	(422)
1996	189	0	140	0	184	1,418	35	0	1,453	(982)	(1,228)
1997	288	0	302	0	491	0	38	0	38	353	(1,034)
1998	294	0	0	0	294	0	38	0	38	256	(854)
1999	299	0	0	0	299	0	39	0	39	260	(697)
2000	307	0	0	0	307	0	41	0	41	266	(521)
2001	317	0	0	0	317	0	43	0	43	274	(363)
2002	328	0	0	0	328	0	45	0	45	283	(214)
2003	342	0	0	0	342	0	47	0	47	295	(110)
2004	361	0	0	0	361	0	49	0	49	312	18
2005	382	0	0	0	382	0	52	0	52	330	132
2006	370	0	0	0	374	0	54	0	54	320	243
2007	391	0	0	0	391	0	57	0	57	334	349
2008	403	0	0	0	403	0	59	0	59	344	448
2009	410	0	0	0	410	0	62	0	62	350	544
2010	430	0	140	0	570	1,221	66	0	1,287	(727)	367
2011	460	0	302	0	762	2,799	68	0	2,868	(2,110)	(106)
2012	468	0	0	0	468	0	73	0	73	395	(25)
2013	403	0	0	0	423	0	78	0	78	416	53
2014	510	0	0	0	510	0	81	0	81	428	128
2015	529	0	0	0	529	0	85	0	85	444	187
2016	554	0	0	0	554	0	88	0	88	466	264
NOM	8,147	0	994	0	8,030	8,082	1,208	0	7,290	1,741	
NPV	2,866	0	463	0	3,379	2,864	421	0	3,115	264	

In Service of Gen Unit: 1997

Discount Rate : 9.22

Benefit/Cost Ratio (Col(8) / Col(10)) 1.08

0234

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH495X - Heat Recovery

PSC FORM CE 2.5
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	44	140	27	0	211	13	15	0	0	28	(183)	(167)
1996	0	86	302	115	0	516	57	47	0	0	104	(412)	(512)
1997	0	0	0	179	0	179	212	47	0	0	259	83	(449)
1998	0	0	0	179	0	179	218	47	0	0	263	84	(390)
1999	0	0	0	183	0	183	228	47	0	0	275	92	(331)
2000	0	0	0	187	0	187	228	47	0	0	275	88	(279)
2001	0	0	0	183	0	183	237	47	0	0	284	91	(230)
2002	0	0	0	200	0	200	244	47	0	0	291	92	(185)
2003	0	0	0	209	0	209	257	47	0	0	304	95	(142)
2004	0	0	0	214	0	214	268	48	0	0	316	102	(99)
2005	0	0	0	221	0	221	279	48	0	0	324	103	(60)
2006	0	0	0	228	0	228	288	48	0	0	334	106	(24)
2007	0	0	0	238	0	238	303	49	0	0	352	114	13
2008	0	0	0	246	0	246	312	48	0	0	362	116	46
2009	0	0	0	255	0	255	315	50	0	0	366	110	78
2010	0	88	140	262	0	488	336	51	0	0	388	(100)	51
2011	0	184	302	274	0	771	343	52	0	0	395	(376)	(33)
2012	0	0	0	285	0	285	354	53	0	0	408	121	(0)
2013	0	0	0	300	0	300	371	54	0	0	425	125	15
2014	0	0	0	315	0	315	388	55	0	0	443	129	37
2015	0	0	0	322	0	322	401	57	0	0	457	135	58
2016	0	0	0	338	0	338	419	58	0	0	477	139	78
NOM.	0	422	884	4,970	0	6,276	6,084	1,063	0	0	7,127	851	
NPV	0	167	483	1,787	0	2,437	2,001	419	0	0	2,515	78	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.03

0235

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH401R - HEAT RECOVERY

PSC FORM CE 1
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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.19	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	0.25	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	626.1	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.05000	
(5) K FACTOR FOR T & D	1.06867	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.82	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.50	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

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 12

0237

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH401R - HEAT RECOVERY

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	104	316	0	412	82	0	1,501	25	0	1,526
1999	111	314	0	425	169	0	1,665	53	0	1,648
2000	115	321	0	436	324	0	1,750	84	0	1,788
2001	126	327	0	453	468	0	1,814	110	0	1,823
2002	0	0	0	0	558	0	0	124	0	124
2003	0	0	0	0	574	0	0	130	0	130
2004	0	0	0	0	600	0	0	136	0	136
2005	0	0	0	0	618	0	0	142	0	142
2006	0	0	0	0	635	0	0	148	0	148
2007	0	0	0	0	655	0	0	155	0	155
2008	0	0	0	0	675	0	0	163	0	163
2009	0	0	0	0	695	0	0	171	0	171
2010	0	0	0	0	716	0	0	179	0	179
2011	0	0	0	0	734	0	0	188	0	188
2012	0	0	0	0	754	0	0	198	0	198
2013	0	0	0	0	788	0	0	208	0	208
2014	0	0	0	0	820	0	0	220	0	220
2015	0	0	0	0	854	0	0	231	0	231
2016	0	0	0	0	828	0	0	243	0	243
2017	0	0	0	0	972	0	0	255	0	255
2018	0	0	0	0	1,013	0	0	268	0	268
2019	0	0	0	0	1,057	0	0	283	0	283
2020	0	0	0	0	1,135	0	0	298	0	298
								314		314
NOM	1,382	2,540	0	3,632	17,124	0	20,034	4,341	0	24,375
NPV	476	1,084	0	1,559	4,483	0	6,831	1,114	0	7,945

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: WH401R - HEAT RECOVERY

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	2,182	96	17	120	88	35	72	5	436	436	436
2002	2,090	92	16	120	88	35	72	34	425	389	827
2003	1,997	87	15	114	56	35	72	20	409	343	1,170
2004	1,897	83	14	109	56	35	72	25	394	302	1,472
2005	1,792	79	14	103	56	35	72	22	380	257	1,729
2006	1,700	75	13	98	56	35	72	18	368	235	1,975
2007	1,611	71	12	93	55	35	72	15	353	208	2,182
2008	1,526	67	12	88	55	35	72	12	340	183	2,366
2009	1,443	63	12	83	55	35	72	11	327	162	2,527
2010	1,359	60	11	88	52	35	72	11	315	142	2,669
2011	1,276	56	10	83	48	35	72	11	302	125	2,795
2012	1,193	52	10	79	48	35	72	11	290	110	2,904
2013	1,109	48	9	73	41	35	72	11	277	96	3,001
2014	1,026	46	8	68	41	35	72	11	265	84	3,085
2015	943	41	8	64	38	35	72	11	252	73	3,158
2016	860	38	7	59	35	35	72	11	240	64	3,222
2017	776	34	7	54	35	35	72	11	227	55	3,277
2018	693	30	6	50	31	35	72	11	215	48	3,325
2019	610	27	5	45	28	35	72	11	202	41	3,367
2020	526	23	5	40	24	35	72	11	190	36	3,402
2021	452	20	4	36	21	35	72	11	179	31	3,433
2022	396	17	3	30	18	35	72	11	170	27	3,459
2023	350	15	3	30	14	35	72	11	163	23	3,482
2024	303	13	3	26	39	35	72	11	159	21	3,503
2025	259	11	2	23	46	35	72	11	151	18	3,521
2026	210	9	2	20	44	35	72	11	142	16	3,537
2027	163	7	2	17	42	35	72	11	136	14	3,551
2028	117	5	1	15	40	35	72	11	129	12	3,562
2029	70	3	1	12	38	35	72	11	121	10	3,572
2030	23	1	0	7	36	35	72	11	114	9	3,581
				4	34						
				1	32						
					30						

IN SERVICE COST ($000)	2,182
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	9%	9.50 %
C/S	47%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65900

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:W1401R - HEAT RECOVERY

PSC FORM CE 1.1A
PAGE 2b OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
2001	3.75%	80	8	2,080	72	(54)	2,221	2,143	2,182
2002	7.22%	154	34	2,017	144	(20)	2,143	2,037	2,090
2003	6.68%	142	29	1,945	216	0	2,037	1,938	1,987
2004	6.18%	132	25	1,873	288	35	1,938	1,838	1,887
2005	5.71%	122	22	1,801	360	56	1,838	1,745	1,792
2006	5.29%	113	18	1,729	432	74	1,745	1,655	1,700
2007	4.89%	104	15	1,657	504	89	1,655	1,568	1,611
2008	4.52%	96	12	1,585	576	101	1,568	1,484	1,526
2009	4.46%	95	11	1,513	648	112	1,484	1,401	1,443
2010	4.46%	95	11	1,441	721	123	1,401	1,318	1,359
2011	4.46%	95	11	1,369	793	135	1,318	1,234	1,276
2012	4.46%	95	11	1,297	865	146	1,234	1,151	1,193
2013	4.46%	95	11	1,225	937	157	1,151	1,068	1,109
2014	4.46%	95	11	1,153	1,009	168	1,068	984	1,026
2015	4.46%	95	11	1,081	1,081	180	984	901	943
2016	4.46%	95	11	1,009	1,153	191	901	818	860
2017	4.46%	95	11	937	1,225	202	818	735	776
2018	4.46%	95	11	865	1,297	213	735	651	693
2019	4.46%	95	11	793	1,369	225	651	568	610
2020	4.46%	95	11	721	1,441	236	568	485	526
2021	2.25%	48	7	648	1,513	239	485	420	452
2022	0.00%	0	(0)	576	1,585	203	420	373	396
2023	0.00%	0	(0)	504	1,657	178	373	326	350
2024	0.00%	0	(0)	432	1,729	153	326	280	303
2025	0.00%	0	(0)	360	1,801	127	280	233	256
2026	0.00%	0	(0)	288	1,873	102	233	186	210
2027	0.00%	0	(0)	216	1,945	76	186	140	163
2028	0.00%	0	(0)	144	2,017	51	140	93	117
2029	0.00%	0	(0)	72	2,089	25	93	47	70
2030	0.00%	0	(0)	0	2,162	0	47	0	23

* Column not specified in workbook

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PAGE 1 OF 1

(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)
1994						
1995	-7	0.00%	1.000	0.00%	0.00	0.00
1996	-6	2.60%	1.026	0.00%	0.00	0.00
1997	-5	2.63%	1.053	0.84%	4.82	2.48
1998	-4	2.15%	1.076	1.88%	10.03	6.83
1999	-3	3.62%	1.115	13.00%	81.35	55.62
2000	-2	3.89%	1.159	60.50%	393.17	292.88
	-1	3.89%	1.214	24.00%	162.01	570.47
				100.00%	651.48	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) NOREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994												
1995	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
1997	-5	2.48	0.11	0.11	0.27	0.27	0.26	0.25	(0.06)	(0.06)	5.19	5.19
1998	-4	10.30	0.45	0.56	1.12	1.39	1.02	1.26	(0.22)	(0.27)	11.14	16.33
1999	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.95	(1.22)	(1.48)	87.81	103.94
2000	-2	300.52	13.29	16.37	32.98	40.62	29.98	36.94	(6.44)	(7.92)	426.15	530.09
	-1	811.10	27.24	43.61	67.80	108.22	60.74	87.68	(12.82)	(20.86)	229.81	758.70
			43.61	63.72	108.22		97.66		(20.86)		758.70	

IN SERVICE YEA	2001
PLANT COSTS	558
AFUDC RATE	10.22%

CONSTRUCTION CASH	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
EQUITY AFUDC	1,854	1,854	1,854
DEBT AFUDC	184		
CPI	124	124	
TOTAL	2,162	1,979	276

* Column not specified in workbook

0242

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME WH401R - HEAT RECOVERY

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.10	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.38	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.47	1.92	0.00	1.00	1.00
1997	2,751	2,751	0.00	3.79	2.03	0.00	1.00	1.00
1998	5,557	5,557	0.00	4.02	2.04	0.00	1.00	1.00
1999	8,419	8,419	0.00	4.67	2.19	0.00	1.00	1.00
2000	11,338	11,338	0.00	4.87	2.43	0.00	1.00	1.00
2001	11,338	11,338	0.00	5.11	2.52	5.01	1.00	1.00
2002	11,338	11,338	0.00	5.45	2.58	5.43	1.00	1.00
2003	11,338	11,338	0.00	6.02	2.77	5.37	1.00	1.00
2004	11,338	11,338	0.00	6.54	2.84	5.65	1.00	1.00
2005	11,338	11,338	0.00	6.88	3.14	5.89	1.00	1.00
2006	11,338	11,338	0.00	7.31	3.30	6.32	1.00	1.00
2007	11,338	11,338	0.00	8.04	3.57	6.86	1.00	1.00
2008	11,338	11,338	0.00	8.44	3.81	7.04	1.00	1.00
2009	11,338	11,338	0.00	8.86	3.92	7.57	1.00	1.00
2010	11,338	11,338	0.00	9.39	4.18	8.27	1.00	1.00
2011	11,338	11,338	0.00	9.74	4.14	8.53	1.00	1.00
2012	11,338	11,338	0.00	10.18	4.53	8.99	1.00	1.00
2013	11,338	11,338	0.00	10.67	4.82	8.97	1.00	1.00
2014	11,338	11,338	0.00	11.53	4.88	10.14	1.00	1.00
2015	11,338	11,338	0.00	12.04	5.18	10.51	1.00	1.00
2016	11,338	11,338	0.00	12.79	5.39	11.12	1.00	1.00
2017	11,338	11,338	0.00	13.48	5.66	11.73	1.00	1.00
2018	11,338	11,338	0.00	13.48	5.95	12.38	1.00	1.00
2019	11,338	11,338	0.00	14.27	6.25	13.09	1.00	1.00
2020	11,338	11,338	0.00	15.10	6.57	13.77	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 WH401R - HEAT RECOVERY

PSC FORM CE 2.1
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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	436	79	3,082	423	847	299
2002	425	82	3,356	450	729	260
2003	409	86	3,545	526	729	295
2004	394	89	3,731	575	814	248
2005	380	94	3,845	571	753	295
2006	368	98	3,261	529	710	286
2007	353	103	2,999	477	632	304
2008	340	108	2,777	466	587	310
2009	327	113	3,083	513	678	278
2010	315	118	3,230	541	748	231
2011	302	125	3,388	468	536	299
2012	290	132	1,942	321	435	319
2013	277	139	1,870	338	447	309
2014	265	146	2,150	368	491	291
2015	252	154	2,513	432	585	279
2016	240	162	2,402	413	544	273
2017	227	170	2,434	417	552	284
2018	215	179	2,531	432	578	252
2019	202	188	2,743	466	626	233
2020	190	198	2,883	488	680	219
NOM	8,208	2,563	56,724	9,181	12,469	5,538
NPV	1,835	569	15,091	2,512	3,465	1,487

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AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH401R - HEAT RECOVERY

PSC FORM CE 2.2
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(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)	(9)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	15	2	17	7	10	17	33	0
1998	30	5	35	13	22	35	105	0
1999	46	8	54	20	34	55	206	0
2000	62	12	73	28	48	76	289	0
2001	60	12	72	27	50	77	364	0
2002	58	13	70	26	53	79	366	0
2003	56	13	69	25	55	80	429	0
2004	54	14	68	24	58	82	466	0
2005	52	14	66	23	60	83	490	0
2006	50	15	65	22	63	85	521	0
2007	48	16	64	22	66	88	573	0
2008	47	17	63	21	69	90	601	0
2009	45	17	62	20	73	93	609	0
2010	44	18	62	19	76	96	669	0
2011	42	19	61	19	80	99	694	0
2012	40	20	60	18	85	102	724	0
2013	38	21	60	17	89	106	774	0
2014	37	22	59	16	94	110	821	0
2015	35	24	59	16	99	114	857	0
2016	33	25	58	15	104	119	909	0
2017	32	26	58	14	109	123	960	0
2018	30	28	58	13	115	128	980	0
2019	29	29	58	13	121	134	1,016	0
2020	28	30	58	12	127	139	1,075	0
NOM.	1,011	421	1,432	452	1,758	2,210	14,531	0
NPV	361	106	468	157	451	608	3,539	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 WH401R - HEAT RECOVERY

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PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	104	1,526	0	1,630	0	34	33	0	67	(1,563)	(1,200)
1998	0	111	1,648	0	1,759	0	70	105	0	175	(1,584)	(2,313)
1999	0	118	1,785	0	1,903	0	109	205	0	313	(1,590)	(3,335)
2000	0	126	1,933	0	2,059	0	148	289	0	436	(1,623)	(4,290)
2001	0	0	124	0	124	298	149	364	0	809	665	(3,833)
2002	0	0	130	0	130	280	149	368	0	797	667	(3,501)
2003	0	0	136	0	136	295	149	429	0	873	737	(3,254)
2004	0	0	142	0	142	348	149	468	0	864	721	(2,966)
2005	0	0	148	0	148	295	150	490	0	935	786	(2,661)
2006	0	0	155	0	155	288	151	521	0	958	802	(2,363)
2007	0	0	163	0	163	304	152	573	0	1,028	866	(2,106)
2008	0	0	171	0	171	310	154	601	0	1,064	894	(1,848)
2009	0	0	179	0	179	278	155	609	0	1,043	864	(1,618)
2010	0	0	188	0	188	231	158	669	0	1,057	869	(1,409)
2011	0	0	198	0	198	259	160	694	0	1,153	955	(1,193)
2012	0	209	3,215	0	3,424	319	163	724	0	1,206	(2,218)	(1,849)
2013	0	224	3,449	0	3,673	308	166	774	0	1,249	(2,424)	(2,100)
2014	0	241	3,699	0	3,940	291	169	821	0	1,281	(2,659)	(2,332)
2015	0	259	3,964	0	4,223	278	173	857	0	1,308	(2,917)	(3,013)
2016	0	0	258	0	258	273	177	908	0	1,358	1,102	(2,655)
2017	0	0	269	0	269	264	181	960	0	1,405	1,136	149
2018	0	0	283	0	283	252	186	960	0	1,398	1,115	134
2019	0	0	298	0	298	233	191	1,018	0	1,441	1,143	126
2020	0	0	314	0	314	219	197	1,075	0	1,492	1,178	119
NOM	0	1,382	24,375	0	25,757	5,538	3,842	14,531	0	23,711	(2,046)	
NPV	0	475	7,945	0	8,420	1,467	1,067	3,539	0	6,094	(2,326)	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(8)): 0.72

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH401R - HEAT RECOVERY

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	101	0	308	0	409	1,501	25	0	1,526	(1,117)	(957)
1998	309	0	314	0	624	1,585	53	0	1,648	(1,025)	(1,578)
1999	530	0	321	0	851	1,700	84	0	1,785	(934)	(2,176)
2000	788	0	327	0	1,095	1,814	119	0	1,933	(839)	(2,672)
2001	911	0	0	0	911	0	124	0	124	787	(2,247)
2002	942	0	0	0	942	0	130	0	130	811	(1,847)
2003	994	0	0	0	994	0	136	0	136	840	(1,483)
2004	1,010	0	0	0	1,010	0	142	0	142	868	(1,164)
2005	1,040	0	0	0	1,040	0	148	0	148	892	(788)
2006	1,075	0	0	0	1,075	0	155	0	155	919	(447)
2007	1,123	0	0	0	1,123	0	163	0	163	960	(142)
2008	1,158	0	0	0	1,158	0	171	0	171	987	148
2009	1,203	0	0	0	1,203	0	179	0	179	1,022	417
2010	1,237	0	0	0	1,237	0	188	0	188	1,048	672
2011	1,293	0	0	0	1,293	0	198	0	198	1,094	917
2012	1,344	0	308	0	1,652	3,008	209	0	3,215	(1,562)	599
2013	1,416	0	314	0	1,730	3,229	220	0	3,449	(1,719)	276
2014	1,482	0	321	0	1,802	3,468	231	0	3,699	(1,897)	(48)
2015	1,519	0	327	0	1,846	3,721	243	0	3,964	(2,118)	(391)
2016	1,593	0	0	0	1,593	0	256	0	256	1,337	(189)
2017	1,691	0	0	0	1,691	0	269	0	269	1,392	183
2018	1,732	0	0	0	1,732	0	283	0	283	1,449	174
2019	1,792	0	0	0	1,792	0	299	0	298	1,493	163
2020	1,861	0	0	0	1,861	0	314	0	314	1,548	158
NOM	28,072	0	2,540	0	30,612	20,034	4,341	0	24,375	6,237	
NPV	7,349	0	1,084	0	8,433	6,831	1,114	0	7,945	488	

In Service of Gen Unit: 2001

Discount Rate : 8.22

Benefit/Cost Ratio (Col(6) / Col(10)) 1.06

0247

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME 93-H401R - HEAT RECOVERY

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PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	104	308	62	0	474	33	34	0	0	67	(407)	(312)
1998	0	111	314	189	0	614	105	70	0	0	175	(439)	(620)
1999	0	118	321	324	0	762	205	108	0	0	313	(449)	(909)
2000	0	126	327	[illegible]	0	921	289	149	0	0	438	(483)	(1,163)
2001	0	0	0	558	0	558	660	149	0	0	809	253	(1,057)
2002	0	0	0	574	0	574	649	149	0	0	797	223	(947)
2003	0	0	0	600	0	600	724	149	0	0	872	273	(822)
2004	0	0	0	618	0	618	714	149	0	0	864	246	(721)
2005	0	0	0	635	0	635	785	150	0	0	935	300	(607)
2006	0	0	0	655	0	655	807	151	0	0	958	302	(502)
2007	0	0	0	685	0	685	876	152	0	0	1,028	343	(383)
2008	0	0	0	706	0	706	911	154	0	0	1,064	358	(288)
2009	0	0	0	734	0	734	887	155	0	0	1,043	309	(207)
2010	0	0	0	754	0	754	908	158	0	0	1,067	303	(133)
2011	0	0	0	788	0	788	953	160	0	0	1,113	325	(52)
2012	0	209	308	820	0	1,337	1,043	163	0	0	1,206	(132)	(79)
2013	0	224	314	864	0	1,402	1,083	168	0	0	1,249	(154)	(107)
2014	0	241	321	904	0	1,465	1,112	159	0	0	1,281	(184)	(139)
2015	0	259	327	926	0	1,512	1,133	173	0	0	1,306	(206)	(171)
2016	0	0	0	972	0	972	1,181	177	0	0	1,358	387	(116)
2017	0	0	0	1,013	0	1,013	1,224	181	0	0	1,405	392	52
2018	0	0	0	1,057	0	1,057	1,212	186	0	0	1,398	342	41
2019	0	0	0	1,087	0	1,087	1,250	191	0	0	1,441	354	39
2020	0	0	0	1,135	0	1,138	1,296	197	0	0	1,492	357	36
NOM.	0	1,392	2,540	17,124	0	21,056	20,069	3,642	0	0	23,711	2,656	
NPV	0	475	1,084	4,483	0	6,042	5,027	1,067	0	0	6,094	52	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.01

0248

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: RESIDENTIAL HEAT RECOVERY WATER HEATING (1997 - 2000)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MH-1
(1) UTILITY NON RECURRING COST PER CUSTOMER	$33
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$475
(6) CUSTOMER O&M COST (ANNUAL INCREMENTAL)	$8
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$112
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

III. (1,5,7,9) ESCALATION RATES

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	(1995 c/kWh)
(4) DEMAND CHARGE ESCALATION RATE	0 %	*

* Values apply to first year only.

0249

* INPUT DATA - PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME WH404 - Heat Recovery

01/26/96

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2002	136	0	0	0	0	0	0	0	0	0
2003	144	414	0	0	0	0	0	0	0	0
2004	153	422	0	0	0	0	0	0	0	0
2005	0	431	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0
2017	277	414	0	0	0	0	0	0	0	0
2018	299	422	0	0	0	0	0	0	0	0
2019	319	431	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0
NOM	1,328	2,633	0	3,860	14,187	0	18,001	3,704	0	22,705
NPV	339	793	0	1,123	2,858	0	4,758	744	0	5,500

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

0251

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME WH404 - Heat Recovery

01/29/95

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	1,967	87	15	113	79	31	65	5	395	395	395
2005	1,884	83	14	109	50	31	65	31	383	350	745
2006	1,791	79	14	103	50	31	65	27	369	309	1,054
2007	1,701	75	13	98	50	31	65	23	355	273	1,327
2008	1,615	71	12	93	50	31	65	19	342	240	1,568
2009	1,532	67	12	88	50	31	65	18	330	212	1,780
2010	1,452	64	11	84	50	31	65	13	318	187	1,967
2011	1,378	61	10	79	49	31	65	11	306	165	2,132
2012	1,308	57	10	75	47	31	65	10	295	146	2,278
2013	1,225	54	9	71	44	31	65	10	284	128	2,406
2014	1,150	51	9	66	40	31	65	10	272	113	2,519
2015	1,075	47	8	62	37	31	65	10	261	99	2,618
2016	1,000	44	8	58	34	31	65	10	250	87	2,704
2017	925	41	7	53	31	31	65	10	239	76	2,780
2018	850	37	6	49	28	31	65	10	227	66	2,846
2019	775	34	6	45	25	31	65	10	216	58	2,904
2020	700	31	5	40	22	31	65	10	205	50	2,954
2021	625	27	5	36	19	31	65	10	194	43	2,997
2022	549	24	4	32	16	31	65	10	182	37	3,034
2023	474	21	4	27	13	31	65	10	171	32	3,066
2024	408	18	3	23	26	31	65	(6)	161	28	3,094
2025	367	16	3	21	41	31	65	(23)	153	24	3,118
2026	315	14	2	18	39	31	65	(23)	147	21	3,139
2027	273	12	2	16	38	31	65	(23)	141	19	3,158
2028	231	10	2	13	36	31	65	(23)	134	16	3,174
2029	189	8	1	11	34	31	65	(23)	128	14	3,188
2030	147	6	1	8	32	31	65	(23)	122	12	3,200
2031	105	5	1	6	31	31	65	(23)	116	11	3,211
2032	63	3	0	4	29	31	65	(23)	109	9	3,220
2033	21	1	0	1	27	31	65	(23)	103	8	3,228

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65488

0252

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED REV_REQ

01/26/95

PROGRAM NAM WH404 - Heat Recovery

PSC FORM CE 1.1A
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2004	3.75%	72	72	66	66	50	50	5	100	0	0	0	5
2005	7.22%	139	211	65	130	50	119	31	100	0	0	0	31
2006	6.68%	128	339	65	195	50	178	27	100	0	0	0	27
2007	5.18%	110	450	65	260	50	228	23	100	0	0	0	23
2008	5.71%	110	560	65	325	50	267	19	100	0	0	0	19
2009	5.28%	101	660	65	390	50	357	18	100	0	0	0	18
2010	4.89%	94	753	65	455	50	416	13	100	0	0	0	13
2011	4.52%	87	850	65	520	50	475	11	100	0	0	0	11
2012	4.46%	86	935	65	584	50	535	10	100	0	0	0	10
2013	4.46%	86	1,021	65	649	50	594	10	100	0	0	0	10
2014	4.46%	86	1,107	65	714	50	654	10	100	0	0	0	10
2015	4.46%	86	1,193	65	779	50	713	10	100	0	0	0	10
2016	4.46%	86	1,279	65	844	50	772	10	100	0	0	0	10
2017	4.46%	86	1,364	65	909	50	832	10	100	0	0	0	10
2018	4.46%	86	1,450	65	974	50	891	10	100	0	0	0	10
2019	4.46%	86	1,535	65	1,039	50	951	10	100	0	0	0	10
2020	4.46%	86	1,621	65	1,104	50	1,010	10	100	0	0	0	10
2021	4.46%	86	1,707	65	1,169	50	1,070	10	100	0	0	0	10
2022	4.46%	86	1,792	65	1,234	50	1,129	10	100	0	0	0	10
2023	4.46%	86	1,878	65	1,299	50	1,188	10	100	0	0	0	10
2024	2.25%	43	1,921	65	1,364	50	1,248	(8)	101	0	0	0	(8)
2025	0.00%	0	1,921	65	1,429	50	1,307	(23)	100	0	0	0	(23)
2026	0.00%	0	1,921	65	1,494	50	1,367	(23)	100	0	0	0	(23)
2027	0.00%	0	1,921	65	1,559	50	1,426	(23)	100	0	0	0	(23)
2028	0.00%	0	1,921	65	1,624	50	1,486	(23)	100	0	0	0	(23)
2029	0.00%	0	1,921	65	1,688	50	1,545	(23)	100	0	0	0	(23)
2030	0.00%	0	1,921	65	1,753	50	1,604	(23)	100	0	0	0	(23)
2031	0.00%	0	1,921	65	1,818	50	1,664	(23)	100	0	0	0	(23)
2032	0.00%	0	1,921	65	1,883	50	1,723	(23)	100	0	0	0	(23)
2033	0.00%	0	1,921	65	1,948	50	1,783	(23)	100	0	0	0	(23)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(57)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	100
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/25/05

PROGRAM NAME:WH404 - Heat Recovery

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2004	3.75%	72	5	1,883	85	(48)	2,002	1,832	1,867
2005	7.22%	139	21	1,818	130	(18)	1,832	1,838	1,884
2006	6.68%	128	27	1,753	195	9	1,838	1,745	1,791
2007	6.18%	118	23	1,688	260	31	1,745	1,657	1,701
2008	5.71%	110	18	1,624	325	51	1,657	1,573	1,615
2009	5.28%	101	16	1,559	390	67	1,573	1,482	1,528
2010	4.89%	94	13	1,494	455	80	1,482	1,413	1,452
2011	4.52%	87	11	1,429	520	91	1,413	1,338	1,376
2012	4.46%	86	10	1,364	584	101	1,338	1,263	1,300
2013	4.46%	86	10	1,299	649	111	1,263	1,188	1,225
2014	4.46%	86	10	1,234	714	121	1,188	1,113	1,150
2015	4.46%	86	10	1,169	779	131	1,113	1,037	1,075
2016	4.46%	86	10	1,104	844	142	1,037	962	1,000
2017	4.46%	86	10	1,039	909	152	962	887	925
2018	4.46%	86	10	974	974	162	887	812	850
2019	4.46%	86	10	909	1,039	172	812	737	775
2020	4.46%	86	10	844	1,104	182	737	662	700
2021	4.46%	86	10	779	1,169	192	662	587	625
2022	4.46%	86	10	714	1,234	202	587	512	549
2023	4.46%	86	10	649	1,299	213	512	437	474
2024	2.25%	43	(0)	584	1,364	208	437	379	408
2025	0.00%	0	(23)	520	1,429	183	379	336	357
2026	0.00%	0	(23)	455	1,494	160	336	294	315
2027	0.00%	0	(23)	390	1,559	138	294	252	273
2028	0.00%	0	(23)	325	1,624	115	252	210	231
2029	0.00%	0	(23)	260	1,688	92	210	168	189
2030	0.00%	0	(23)	195	1,753	69	168	126	147
2031	0.00%	0	(23)	130	1,818	46	126	84	105
2032	0.00%	0	(23)	65	1,883	23	84	42	63
2033	0.00%	0	(23)	0	1,948	0	42	0	21

* Column not specified in workbook

0254

page6

01/26/96

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($A/W)	(7) CUMULATIVE AVERAGE SPENDING ($A/W)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.60%	1.026	0.00%	0.00	0.00
1996	-8	2.63%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.62%	1.126	0.00%	0.00	0.00
1999	-5	3.85%	1.169	0.84%	5.48	2.73
2000	-4	3.68%	1.214	1.66%	11.21	11.06
2001	-3	3.97%	1.262	13.00%	91.21	62.27
2002	-2	3.88%	1.311	60.50%	440.92	328.33
2003	-1	3.86%	1.363	24.00%	181.82	638.70
				100.00%	730.61	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($A/W)	(9a)* DEBT AFUDC ($A/W)	(9b)* CUMULATIVE DEBT AFUDC ($A/W)	(9) YEARLY TOTAL AFUDC ($A/W)	(9a)* CUMULATIVE TOTAL AFUDC ($A/W)	(9b)* CONSTRUCTION PERIOD INTEREST ($A/W)	(9c)* CUMULATIVE CPI ($A/W)	(9d)* DEFERRED TAXES ($A/W)	(9e)* CUMULATIVE DEFERRED TAXES ($A/W)	(10) INCREMENTAL YEAR-END BOOK VALUE ($A/W)	(11) CUMULATIVE YEAR-END BOOK VALUE ($A/W)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.08)	(0.08)	0.78	0.78
2000	-4	11.39	0.50	0.62	1.25	1.55	1.13	1.41	(0.34)	(0.30)	12.46	18.21
2001	-3	93.81	2.82	3.44	7.00	8.55	6.37	7.77	(1.37)	(1.67)	98.21	116.42
2002	-2	336.88	14.80	18.34	36.87	45.52	33.61	41.38	(7.22)	(8.89)	477.60	594.31
2003	-1	695.21	30.54	48.88	75.80	121.31	68.11	108.49	(14.49)	(23.38)	257.81	851.82
			48.88	71.41	121.31		108.49		(23.38)		851.82	

IN SERVICE YEA	2004
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	1,671	1,671	1,671
EQUITY AFUDC	168		
DEBT AFUDC	112	112	
CPI			250
TOTAL	1,949	1,783	1,921

* Column not specified in workbook

0255

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME W1404 - Heat Recovery

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAW/h)	(5) AVOIDED MARGINAL FUEL COST (CAW/h)	(6)* INCREASED MARGINAL FUEL COST (CAW/h)	(7) REPLACEMENT FUEL COST (CAW/h)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.10	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.39	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.47	1.92	0.00	1.00	1.00
1997	0	0	0.00	3.79	2.03	0.00	1.00	1.00
1998	0	0	0.00	4.02	2.04	0.00	1.00	1.00
1999	0	0	0.00	4.67	2.19	0.00	1.00	1.00
2000	0	0	0.00	4.67	2.43	0.00	1.00	1.00
2001	2,078	2,078	0.00	5.11	2.52	0.00	1.00	1.00
2002	6,015	6,015	0.00	5.45	2.59	0.00	1.00	1.00
2003	8,113	8,113	0.00	6.02	2.77	0.00	1.00	1.00
2004	8,113	8,113	0.00	6.54	2.84	5.85	1.00	1.00
2005	8,113	8,113	0.00	6.88	3.14	5.89	1.00	1.00
2006	8,113	8,113	0.00	7.31	3.30	6.32	1.00	1.00
2007	8,113	8,113	0.00	8.04	3.57	6.95	1.00	1.00
2008	8,113	8,113	0.00	8.44	3.81	7.04	1.00	1.00
2009	8,113	8,113	0.00	8.85	3.82	7.57	1.00	1.00
2010	8,113	8,113	0.00	9.39	4.10	8.37	1.00	1.00
2011	8,113	8,113	0.00	9.76	4.14	8.53	1.00	1.00
2012	8,113	8,113	0.00	10.16	4.53	8.98	1.00	1.00
2013	8,113	8,113	0.00	10.67	4.62	9.57	1.00	1.00
2014	8,113	8,113	0.00	11.53	4.88	10.14	1.00	1.00
2015	8,113	8,113	0.00	12.04	5.18	10.51	1.00	1.00
2016	8,113	8,113	0.00	12.76	5.39	11.12	1.00	1.00
2017	8,113	8,113	0.00	13.48	5.88	11.73	1.00	1.00
2018	8,113	8,113	0.00	13.48	5.95	12.38	1.00	1.00
2019	8,113	8,113	0.00	14.27	6.25	13.06	1.00	1.00
2020	8,113	8,113	0.00	15.10	6.57	13.77	1.00	1.00
2021	8,113	8,113	0.00	15.98	6.90	14.53	1.00	1.00
2022	8,113	8,113	0.00	16.91	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0256

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH404 - Heat Recovery

01/26/98

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	18	3	22	8	13	21	48	0
2003	27	7	44	17	28	45	154	0
2004	57	11	67	25	44	70	288	0
2005	55	11	66	25	46	71	374	0
2006	53	12	65	24	48	72	394	0
2007	51	12	64	23	51	74	419	0
2008	50	13	62	22	53	75	480	0
2009	48	13	61	21	56	77	483	0
2010	46	14	60	21	58	79	490	0
2011	45	15	59	20	61	81	537	0
2012	43	15	58	19	65	84	558	0
2013	42	16	58	19	68	87	562	0
2014	40	17	57	18	72	90	622	0
2015	39	18	57	17	75	93	680	0
2016	37	19	56	17	79	96	686	0
2017	36	20	56	16	83	99	730	0
2018	34	21	55	15	88	103	772	0
2019	33	22	55	15	92	107	772	0
2020	31	23	54	14	97	111	817	0
2021	30	24	54	13	102	115	864	0
2022	28	26	54	13	107	120	915	0
	27	27	54	12	113	125	968	0
NOM.	880	360	1,239	393	1,500	1,893	12,583	0
NPV	231	72	303	103	301	405	2,452	0

8520

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH404 - Heat Recovery

01/26/95

PSC FORM CE 2.3
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	135	1,872	0	0	0	0	0	0	0	0	0
2003	0	144	2,136	0	2,107	0	43	48	0	91	(2,016)	(1,067)
2004	0	153	2,317	0	2,282	0	89	154	0	243	(2,039)	(2,094)
2005	0	0	114	0	2,470	0	137	286	0	423	(2,047)	(3,019)
2006	0	0	119	0	114	278	137	374	0	790	676	(2,740)
2007	0	0	125	0	119	314	137	394	0	845	726	(2,466)
2008	0	0	131	0	125	304	137	419	0	860	735	(2,209)
2009	0	0	137	0	131	316	137	460	0	914	783	(1,941)
2010	0	0	144	0	137	318	138	483	0	939	802	(1,728)
2011	0	0	151	0	144	290	139	490	0	918	775	(1,521)
2012	0	0	159	0	151	250	141	537	0	929	777	(1,332)
2013	0	0	166	0	159	304	143	558	0	1,004	845	(1,143)
2014	0	0	177	0	166	318	145	582	0	1,045	877	(964)
2015	0	0	186	0	177	309	147	622	0	1,078	901	(790)
2016	0	0	199	0	186	293	149	660	0	1,103	917	(636)
2017	0	277	4,199	0	4,477	276	155	720	0	1,121	935	(493)
2018	0	266	4,501	0	4,799	266	158	772	0	1,182	(3,315)	(988)
2019	0	319	4,825	0	5,145	257	161	772	0	1,190	(3,601)	(1,443)
2020	0	0	240	0	240	241	165	817	0	1,191	(3,954)	(1,918)
2021	0	0	252	0	252	229	169	864	0	1,222	969	(1,810)
2022	0	0	265	0	265	219	174	915	0	1,282	1,016	(1,708)
			279		279	209	179	969	0	1,356	1,076	(1,612)
NOM	0	1,326	22,795	0	24,122	5,276	3,133	12,583	0	21,001	(3,121)	(1,521)
NPV	0	330	5,900	0	5,830	1,149	709	2,452	0	4,309	(1,521)	#VALUE!

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 0.74

0259

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH404 - Heat Recovery

01/09/96

PSC FORM CE 2.4
PAGE 1 OF 1

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	120	0	0	0	0	0	0	0	0	0	0
2002	272	0	414	0	0	0	0	0	0	0	0
2003	667	0	422	0	534	1,828	0	0	0	0	0
2004	812	0	421	0	798	2,069	33	0	1,872	(1,428)	(776)
2005	839	0	0	0	1,087	2,207	68	0	2,138	(1,342)	(963)
2006	894	0	0	0	812	0	109	0	2,317	(1,230)	(956)
2007	902	0	0	0	839	0	114	0	114	597	(598)
2008	921	0	0	0	894	0	119	0	119	717	259
2009	967	0	0	0	902	0	125	0	125	728	272
2010	994	0	0	0	921	0	121	0	121	772	259
2011	1,039	0	0	0	967	0	127	0	127	784	245
2012	1,081	0	0	0	994	0	144	0	144	823	231
2013	1,139	0	0	0	1,039	0	151	0	151	842	219
2014	1,191	0	0	0	1,081	0	159	0	159	880	205
2015	1,221	0	0	0	1,139	0	168	0	168	913	194
2016	1,280	0	0	0	1,191	0	177	0	177	901	187
2017	1,335	0	414	0	1,221	0	188	0	188	1,005	180
2018	1,392	0	422	0	1,694	3,883	198	0	198	1,025	172
2019	1,432	0	421	0	1,757	4,264	208	0	4,109	(2,505)	161
2020	1,499	0	0	0	1,823	4,568	217	0	4,501	(2,744)	(392)
2021	1,564	0	0	0	1,432	0	228	0	4,825	(3,023)	(381)
2022	1,634	0	0	0	1,499	0	240	0	240	1,182	(381)
				0	1,564	0	252	0	252	1,244	131
				0	1,634	0	265	0	265	1,298	128
						0	279	0	279	1,355	120
NOM	23,257	0	2,533	0	25,791	18,081	3,704	0	22,795	2,995	115
NPV	4,734	0	783	0	5,528	4,755	744	0	5,500	28	

In Service of Gen Unit: 2004

Discount Rate : 9.22

Benefit/Cost Ratio (Col(6) / Col(10)) 1.01

0260

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: WH404 - Heat Recovery

01/26/95

PSC FORM CE 2.5
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	136	414	73	0	622	48	43	0	0	91	(531)	(286)
2003	0	144	422	228	0	794	154	89	0	0	243	(551)	(272)
2004	0	153	431	401	0	984	288	137	0	0	423	(561)	(254)
2005	0	0	0	495	0	495	652	137	0	0	789	294	122
2006	0	0	0	510	0	510	708	137	0	0	845	335	127
2007	0	0	0	527	0	527	723	137	0	0	860	333	118
2008	0	0	0	550	0	550	776	137	0	0	914	363	115
2009	0	0	0	568	0	568	801	136	0	0	938	371	109
2010	0	0	0	590	0	590	750	139	0	0	919	330	88
2011	0	0	0	606	0	606	788	141	0	0	929	322	79
2012	0	0	0	634	0	634	882	143	0	0	1,004	370	83
2013	0	0	0	659	0	659	900	145	0	0	1,045	386	79
2014	0	0	0	694	0	694	931	147	0	0	1,078	384	72
2015	0	0	0	727	0	727	953	149	0	0	1,103	376	64
2016	0	277	414	781	0	1,472	1,007	155	0	0	1,121	376	59
2017	0	288	422	814	0	1,524	1,040	158	0	0	1,162	(311)	(45)
2018	0	319	431	849	0	1,599	1,009	161	0	0	1,169	(336)	(44)
2019	0	0	0	873	0	873	1,058	165	0	0	1,191	(409)	(48)
2020	0	0	0	913	0	913	1,093	169	0	0	1,223	350	39
2021	0	0	0	954	0	954	1,134	174	0	0	1,308	354	33
2022	0	0	0	997	0	997	1,177	179	0	0	1,356	358	30
NOM.	0	1,328	2,533	14,187	0	18,047	17,888	3,133	0	0	21,021	2,954	
NPV	0	320	793	2,888	0	4,011	3,801	708	0	0	4,309	298	

Discount Rate: 9.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.07

0261

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MH-4
(1) UTILITY NON RECURRING COST PER CUSTOMER	$53
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$475
(6) CUSTOMER O&M COST (ANNUAL INCREMENTAL)	$8
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$139
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	RS	
(1) NON FUEL COST IN CUSTOMER BILL	4.92	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

0262

COMMERCIAL/INDUSTRAL HEATING, VENTILATING AND AIR CONDITIONING

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	80,462	64,097	1.26	78,345	30,825	2.54	80,462	35,487	2.27
1997-2000	171,362	158,282	1.08	193,704	77,062	2.51	171,362	88,655	1.93
2001-2003	42,675	37,852	1.13	45,331	22,638	2.00	42,675	25,592	1.67
1995-2003	294,499	260,231	1.13	317,380	130,525	2.43	294,499	149,734	1.97

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVACX - HVAC COMMERCIAL

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.85	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.15	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	2,054.4	kWh *****
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	176.1	kWh *****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.84	
(5) K FACTOR FOR T & D	1.86867	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	382	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	8.34	%**

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 12
***** 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: HVACX - HVAC COMMERCIAL

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	1,661	2,522	0	4,182	742	431	11,019	0	0	11,019
1996	1,944	2,818	0	4,762	2,402	1,305	12,864	0	0	12,864
1997	0	0	0	0	3,311	1,737	0	0	0	0
1998	0	0	0	0	3,369	1,755	0	0	0	0
1999	0	0	0	0	3,453	1,777	0	0	0	0
2000	0	0	0	0	3,561	1,036	0	0	0	0
2001	0	0	0	0	3,721	1,871	0	0	0	0
2002	0	0	0	0	3,883	1,962	0	0	0	0
2003	0	0	0	0	4,109	2,060	0	0	0	0
2004	0	0	0	0	4,248	2,124	0	0	0	0
2005	0	0	0	0	4,411	2,228	0	0	0	0
2006	0	0	0	0	4,596	2,354	0	0	0	0
2007	0	0	0	0	4,853	2,489	0	0	0	0
2008	0	0	0	0	5,042	2,575	0	0	0	0
2009	0	0	0	0	5,282	2,729	0	0	0	0
2010	1,710	753	0	2,463	5,465	2,842	10,531	0	0	10,531
2011	2,024	847	0	2,871	5,766	3,043	12,472	0	0	12,472
2012	0	0	0	0	6,041	3,135	0	0	0	0
2013	0	0	0	0	6,419	3,295	0	0	0	0
2014	0	0	0	0	6,775	3,519	0	0	0	0
2015	1,958	1,779	0	3,737	6,871	3,818	14,050	0	0	14,050
2016	2,344	1,970	0	4,314	7,366	3,792	16,704	0	0	16,704
NOM	11,641	10,699	0	22,340	101,799	52,419	77,640	0	0	77,640
NPV	4,662	5,614	0	10,277	35,507	18,314	30,825	0	0	30,825

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVACX - HVAC COMMERCIAL

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	19,150	843	146	1,103	798	307	635	45	3,846	3,846	3,846
1998	18,344	807	139	1,057	483	307	635	297	3,725	3,410	7,254
1999	17,432	767	132	1,004	485	307	635	258	3,588	3,007	10,263
2000	16,558	729	126	954	485	307	635	222	3,458	2,653	12,916
2001	15,719	692	119	905	485	307	635	188	3,330	2,340	15,256
2002	14,912	656	113	859	483	307	635	156	3,209	2,085	17,321
2003	14,135	622	107	814	480	307	635	129	3,093	1,822	19,142
2004	13,388	589	102	771	476	307	635	101	2,980	1,607	20,749
2005	12,652	557	96	729	450	307	635	87	2,870	1,417	22,166
2006	11,921	525	91	687	420	307	635	87	2,760	1,248	23,414
2007	11,189	492	85	645	390	307	635	87	2,650	1,097	24,511
2008	10,458	460	79	602	361	307	635	87	2,541	963	25,474
2009	9,726	428	74	560	331	307	635	87	2,431	843	26,317
2010	8,995	396	68	518	301	307	635	87	2,321	737	27,054
2011	8,264	364	63	476	271	307	635	87	2,211	643	27,697
2012	7,532	331	57	434	241	307	635	87	2,101	559	28,257
2013	6,801	299	52	392	211	307	635	87	1,991	485	28,742
2014	6,069	267	46	350	181	307	635	87	1,882	420	29,162
2015	5,338	235	41	307	151	307	635	87	1,772	362	29,524
2016	4,606	203	35	265	121	307	635	87	1,662	311	29,835
2017	3,955	174	30	228	255	307	635	(94)	1,564	268	30,103
2018	3,466	152	26	200	398	307	635	(227)	1,491	234	30,337
2019	3,058	135	23	176	381	307	635	(227)	1,429	205	30,542
2020	2,650	117	20	153	365	307	635	(227)	1,368	180	30,722
2021	2,242	99	17	129	348	307	635	(227)	1,307	157	30,879
2022	1,835	81	14	106	331	307	635	(227)	1,246	137	31,016
2023	1,427	63	11	82	314	307	635	(227)	1,185	120	31,136
2024	1,019	45	8	59	298	307	635	(227)	1,123	104	31,240
2025	612	27	5	35	281	307	635	(227)	1,062	90	31,329
2026	204	9	2	12	264	307	635	(227)	1,001	78	31,407

IN SERVICE COST ($000)	19,039
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.64957

9926

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVACX - HVAC COMMERCIAL

PSC FORM CE 1.1A
PAGE 2a OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) ACCUMULATED TAX DEPRECIATION $(000)	(5) BOOK DEPRECIATION $(000)	(6) ACCUMULATED BOOK DEPRECIATION $(000)	(7) BOOK DEPRECIATION FOR DEFERRED TAX $(000)	(8) ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	(9) DEFERRED TAX DUE TO DEPRECIATION $(000)	(10) TOTAL EQUITY AFUDC $(000)	(11) BOOK DEPR RATE MINUS 1/LIFE	(12) (10)*(11) *TAX RATE $(000)	(13) SALVAGE *TAX RATE $(000)	(14) ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)
1997	3.75%	706	706	635	635	588	588	45	1,391	0	0	0	45
1998	7.22%	1,359	2,064	635	1,269	588	1,177	297	1,391	0	0	0	297
1999	6.68%	1,257	3,321	635	1,904	588	1,765	258	1,391	0	0	0	258
2000	6.18%	1,163	4,484	635	2,539	588	2,353	222	1,391	0	0	0	222
2001	5.71%	1,074	5,559	635	3,173	588	2,941	188	1,391	0	0	0	188
2002	5.28%	994	6,552	635	3,808	588	3,530	158	1,391	0	0	0	158
2003	4.89%	920	7,472	635	4,443	588	4,118	128	1,391	0	0	0	128
2004	4.52%	851	8,323	635	5,077	588	4,706	101	1,391	0	0	0	101
2005	4.46%	838	9,162	635	5,712	588	5,295	97	1,391	0	0	0	97
2006	4.46%	838	10,001	635	6,346	588	5,883	97	1,391	0	0	0	97
2007	4.46%	838	10,841	635	6,981	588	6,471	97	1,391	0	0	0	97
2008	4.46%	838	11,680	635	7,616	588	7,059	97	1,391	0	0	0	97
2009	4.46%	838	12,518	635	8,250	588	7,648	97	1,391	0	0	0	97
2010	4.46%	838	13,356	635	8,885	588	8,236	97	1,391	0	0	0	97
2011	4.46%	838	14,195	635	9,520	588	8,824	97	1,391	0	0	0	97
2012	4.46%	838	15,037	635	10,154	588	9,413	97	1,391	0	0	0	97
2013	4.46%	838	15,876	635	10,789	588	10,001	97	1,391	0	0	0	97
2014	4.46%	838	16,715	635	11,424	588	10,589	97	1,391	0	0	0	97
2015	4.46%	838	17,555	635	12,058	588	11,177	97	1,391	0	0	0	97
2016	4.46%	838	18,394	635	12,693	588	11,766	97	1,391	0	0	0	97
2017	2.25%	423	18,817	635	13,328	588	12,354	(64)	1,391	0	0	0	(64)
2018	0.00%	0	18,817	635	13,962	588	12,942	(227)	1,391	0	0	0	(227)
2019	0.00%	0	18,817	635	14,597	588	13,531	(227)	1,391	0	0	0	(227)
2020	0.00%	0	18,817	635	15,232	588	14,119	(227)	1,391	0	0	0	(227)
2021	0.00%	0	18,817	635	15,866	588	14,707	(227)	1,391	0	0	0	(227)
2022	0.00%	0	18,817	635	16,501	588	15,295	(227)	1,391	0	0	0	(227)
2023	0.00%	0	18,817	635	17,136	588	15,884	(227)	1,391	0	0	0	(227)
2024	0.00%	0	18,817	635	17,770	588	16,472	(227)	1,391	0	0	0	(227)
2025	0.00%	0	18,817	635	18,405	588	17,060	(227)	1,391	0	0	0	(227)
2026	0.00%	0	18,817	635	19,039	588	17,649	(227)	1,391	0	0	0	(227)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(411)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,391
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

4920

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVACX - HVAC COMMERCIAL

(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)
1997	3.75%	706	45	18,405	635	(406)	19,490	18,810	19,150
1998	7.22%	1,358	297	17,770	1,269	(108)	18,810	17,879	18,344
1999	6.68%	1,257	258	17,136	1,904	150	17,879	16,986	17,432
2000	6.18%	1,163	222	16,501	2,539	371	16,986	16,130	16,558
2001	5.71%	1,074	188	15,866	3,173	559	16,130	15,307	15,719
2002	5.28%	994	156	15,232	3,808	715	15,307	14,516	14,912
2003	4.89%	920	126	14,597	4,443	843	14,516	13,754	14,135
2004	4.52%	851	101	13,962	5,077	944	13,754	13,018	13,386
2005	4.46%	839	97	13,328	5,712	1,041	13,018	12,287	12,652
2006	4.46%	839	97	12,693	6,346	1,138	12,287	11,555	11,921
2007	4.46%	839	97	12,058	6,981	1,235	11,555	10,824	11,189
2008	4.46%	839	97	11,424	7,616	1,332	10,824	10,092	10,458
2009	4.46%	839	97	10,789	8,250	1,428	10,092	9,361	9,726
2010	4.46%	839	97	10,154	8,885	1,525	9,361	8,629	8,995
2011	4.46%	839	97	9,520	9,520	1,622	8,629	7,898	8,264
2012	4.46%	839	97	8,885	10,154	1,719	7,898	7,166	7,532
2013	4.46%	839	97	8,250	10,789	1,816	7,166	6,435	6,801
2014	4.46%	839	97	7,616	11,424	1,912	6,435	5,703	6,069
2015	4.46%	839	97	6,981	12,058	2,009	5,703	4,972	5,338
2016	4.46%	839	97	6,346	12,693	2,106	4,972	4,240	4,606
2017	2.25%	423	(64)	5,712	13,328	2,042	4,240	3,669	3,955
2018	0.00%	0	(227)	5,077	13,962	1,815	3,669	3,262	3,464
2019	0.00%	0	(227)	4,443	14,597	1,588	3,262	2,854	3,058
2020	0.00%	0	(227)	3,808	15,232	1,362	2,854	2,446	2,650
2021	0.00%	0	(227)	3,173	15,866	1,135	2,446	2,039	2,242
2022	0.00%	0	(227)	2,539	16,501	908	2,039	1,631	1,835
2023	0.00%	0	(227)	1,904	17,136	681	1,631	1,223	1,427
2024	0.00%	0	(227)	1,269	17,770	454	1,223	815	1,019
2025	0.00%	0	(227)	635	18,405	227	815	408	612
2026	0.00%	0	(227)	0	19,039	0	408	0	204

* Column not specified in workbook

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PROGRAM NAME HVACX - HVAC COMMERCIAL

PSC FORM CE 1.1B
PAGE 1 OF 1

(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)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.80%	1.028	44.55%	179.18	144.12
1996	-1	2.63%	1.053	41.54%	171.47	319.45
				100.00%	405.18	

YEAR	NO YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994	-3	27.27	1.20	1.20	2.98	2.98	2.73	2.72	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	19.11	14.68	17.41	(3.16)	(3.75)	195.31	252.82
1996	-1	338.55	15.06	22.76	37.38	56.48	33.69	51.10	(7.18)	(10.93)	208.85	461.67
			22.76	31.66	56.48		51.10		(10.93)		461.67	

IN SERVICE YEAR		1997
PLANT COSTS		392
AFUDC RATE		10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	16.710	16.710	16.710
EQUITY AFUDC	1.391		
DEBT AFUDC	839	839	
CPI			2.107
TOTAL	18.939	17.549	18.817

* Column not specified in workbook

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INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME: HVACX - HVAC COMMERCIAL

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.29	1.89	0.00	1.00	1.00
1995	16,918	16,918	0.00	3.79	1.92	0.00	1.00	1.00
1996	35,964	35,964	0.00	4.12	1.92	0.00	1.00	1.00
1997	35,964	35,964	0.00	4.57	2.03	4.28	1.00	1.00
1998	35,964	35,964	0.00	4.84	2.04	4.25	1.00	1.00
1999	35,964	35,964	0.00	5.73	2.19	7.85	1.00	1.00
2000	35,964	35,964	0.00	5.77	2.43	8.21	1.00	1.00
2001	35,964	35,964	0.00	6.61	2.52	8.42	1.00	1.00
2002	35,964	35,964	0.00	7.66	2.59	8.66	1.00	1.00
2003	35,964	35,964	0.00	7.20	2.77	9.28	1.00	1.00
2004	35,964	35,964	0.00	8.16	2.84	9.60	1.00	1.00
2005	35,964	35,964	0.00	8.29	3.14	9.62	1.00	1.00
2006	35,964	35,964	0.00	8.66	3.30	9.52	1.00	1.00
2007	35,964	35,964	0.00	8.89	3.57	9.70	1.00	1.00
2008	35,964	35,964	0.00	9.39	3.81	10.08	1.00	1.00
2009	35,964	35,964	0.00	10.13	3.92	10.57	1.00	1.00
2010	35,964	35,964	0.00	11.03	4.18	10.86	1.00	1.00
2011	35,964	35,964	0.00	10.24	4.14	11.45	1.00	1.00
2012	35,964	35,964	0.00	10.41	4.53	12.64	1.00	1.00
2013	35,964	35,964	0.00	11.08	4.62	13.05	1.00	1.00
2014	35,964	35,964	0.00	11.70	4.86	13.71	1.00	1.00
2015	35,964	35,964	0.00	12.27	5.18	14.19	1.00	1.00
2016	35,964	35,964	0.00	12.90	5.39	15.01	1.00	1.00

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

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YEAR	(1)	(2) INCREASED SUPPLY COSTS $(000)
1994		0
1995		0
1996		0
1997		0
1998		0
1999		0
2000		0
2001		0
2002		0
2003		0
2004		0
2005		0
2006		0
2007		0
2008		0
2009		0
2010		0
2011		0
2012		0
2013		0
2014		0
2015		0
2016		0
NOM		0
NPV		0

Discount Rate:

Benefit/Cost Ratio (Col(11) / Col(8)) :

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVACX - HVAC COMMERCIAL

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	3,848	1,064	0	17	20	4,927
1998	3,725	1,129	0	20	21	4,852
1999	3,588	1,180	0	110	207	4,871
2000	3,456	1,235	0	8	15	4,884
2001	3,330	1,294	0	14	24	4,814
2002	3,209	1,353	0	15	26	4,552
2003	3,093	1,416	0	29	47	4,490
2004	2,980	1,478	0	52	80	4,430
2005	2,870	1,544	0	31	45	4,400
2006	2,760	1,617	0	28	38	4,367
2007	2,650	1,693	0	51	67	4,329
2008	2,541	1,779	0	52	65	4,303
2009	2,431	1,865	0	31	38	4,266
2010	2,321	1,960	0	127	150	4,257
2011	2,211	2,062	0	111	132	4,251
2012	2,101	2,171	0	148	183	4,238
2013	1,991	2,288	0	186	226	4,227
2014	1,882	2,407	0	188	228	4,248
2015	1,772	2,532	0	185	220	4,288
2016	1,662	2,664	1	226	271	4,261
NOM	54,418	34,745	4	1,626	2,104	88,689
NPV	22,867	11,427	1	427	561	34,161

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PSC FORM CE 2.1
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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVACX - HVAC COMMERCIAL

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	3,848	1,084	0	17	20	4,927
1998	3,725	1,129	0	20	21	4,852
1999	3,588	1,180	0	110	207	4,671
2000	3,456	1,235	0	8	15	4,664
2001	3,336	1,294	0	14	24	4,614
2002	3,208	1,353	0	15	26	4,552
2003	3,083	1,418	0	29	47	4,490
2004	2,980	1,478	0	52	80	4,430
2005	2,870	1,544	0	31	45	4,400
2006	2,780	1,617	0	28	36	4,367
2007	2,650	1,692	0	51	67	4,328
2008	2,541	1,778	0	52	65	4,303
2009	2,431	1,865	0	31	36	4,288
2010	2,321	1,960	0	127	150	4,257
2011	2,211	2,062	0	111	132	4,251
2012	2,101	2,171	0	146	183	4,236
2013	1,991	2,288	0	186	226	4,237
2014	1,882	2,407	0	188	228	4,248
2015	1,772	2,532	0	185	220	4,269
2016	1,662	2,664	1	226	271	4,281
NOM	54,418	34,745	4	1,626	2,104	88,689
NPV	22,897	11,427	1	427	591	34,161

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AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVACX - HVAC COMMERCIAL

PSC FORM CF 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	71	11	82	32	47	79	858	71
1996	151	25	176	67	104	172	2,241	97
1997	146	26	172	65	108	174	3,378	140
1998	141	27	168	63	113	176	3,577	140
1999	136	28	165	61	118	179	4,232	151
2000	132	30	161	59	123	182	4,262	167
2001	127	31	158	57	129	186	4,883	173
2002	123	32	156	55	135	190	5,656	178
2003	119	34	153	53	142	195	5,372	190
2004	115	35	150	51	148	199	6,043	195
2005	111	37	148	50	154	204	6,122	218
2006	107	38	146	48	162	210	6,305	227
2007	103	41	144	46	169	215	6,567	245
2008	99	43	142	44	178	222	6,935	262
2009	95	45	140	42	187	229	7,488	269
2010	91	47	138	41	196	237	6,153	266
2011	87	49	136	39	206	245	7,568	284
2012	83	52	135	37	217	254	7,892	311
2013	79	55	134	35	229	264	8,187	318
2014	75	58	133	34	241	274	8,647	336
2015	71	61	132	32	253	285	9,066	358
2016	68	64	131	30	266	297	9,529	370
NOM	2,331	870	3,200	1,042	3,628	4,670	132,600	4,945
NPV	1,072	305	1,378	479	1,274	1,754	44,828	1,669

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

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVACX - HVAC COMMERCIAL

PSC FORM CE 2.3
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	1,661	11,019	0	12,680	0	161	828	0	788	(11,891)	(10,887)
1996	0	1,944	12,864	0	14,808	0	348	2,144	0	2,491	(12,317)	(21,211)
1997	0	0	0	0	0	4,927	346	3,236	0	8,510	8,510	(14,680)
1998	0	0	0	0	0	4,852	345	3,437	0	8,634	8,634	(8,614)
1999	0	0	0	0	0	4,671	344	4,081	0	9,096	9,096	(2,782)
2000	0	0	0	0	0	4,664	344	4,095	0	9,123	9,123	2,611
2001	0	0	0	0	0	4,614	345	4,709	0	9,668	9,668	7,825
2002	0	0	0	0	0	4,552	346	5,478	0	10,376	10,376	12,948
2003	0	0	0	0	0	4,490	348	5,132	0	9,970	9,970	17,455
2004	0	0	0	0	0	4,430	350	5,847	0	10,627	10,627	21,653
2005	0	0	0	0	0	4,400	352	5,908	0	10,659	10,659	25,862
2006	0	0	0	0	0	4,367	355	6,169	0	10,891	10,891	29,670
2007	0	0	0	0	0	4,328	359	6,322	0	11,009	11,009	33,167
2008	0	0	0	0	0	4,303	363	6,674	0	11,340	11,340	36,465
2009	0	0	0	0	0	4,288	369	7,219	0	11,875	11,875	39,627
2010	0	1,710	10,531	0	12,241	4,257	375	7,866	0	12,498	257	39,669
2011	0	2,024	12,472	0	14,496	4,251	382	7,263	0	11,916	(2,580)	39,113
2012	0	0	0	0	0	4,236	389	7,381	0	12,008	12,008	41,567
2013	0	0	0	0	0	4,237	398	7,869	0	12,505	12,505	43,906
2014	0	0	0	0	0	4,249	407	8,312	0	12,968	12,968	46,138
2015	0	1,959	14,050	0	16,009	4,269	417	8,710	0	13,396	(2,612)	45,718
2016	0	2,344	16,704	0	19,047	4,281	428	8,158	0	13,868	(5,179)	44,974
NOM	0	11,641	77,640	0	89,281	88,589	7,870	127,655	0	224,213	134,932	
NPV	0	4,662	30,825	0	35,487	34,161	3,131	43,169	0	80,462	44,974	

Discount Rate 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) 2.27

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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVACX - HVAC COMMERCIAL

PSC FORM CE 2.4
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	1,586	0	2,532	0	4,118	11,019	0	0	11,019	(6,901)	(6,319)
1996	5,010	0	2,818	0	7,828	12,864	0	0	12,864	(5,036)	(4,222)
1997	6,822	0	0	0	6,822	0	0	0	0	6,822	1,014
1998	6,925	0	0	0	6,925	0	0	0	0	6,925	5,891
1999	7,069	0	0	0	7,069	0	0	0	0	7,069	10,426
2000	7,253	0	0	0	7,253	0	0	0	0	7,253	14,700
2001	7,557	0	0	0	7,557	0	0	0	0	7,557	18,775
2002	7,899	0	0	0	7,899	0	0	0	0	7,899	22,675
2003	8,336	0	0	0	8,336	0	0	0	0	8,336	26,444
2004	8,608	0	0	0	8,608	0	0	0	0	8,608	30,008
2005	8,971	0	0	0	8,971	0	0	0	0	8,971	33,405
2006	9,302	0	0	0	9,302	0	0	0	0	9,302	36,664
2007	9,894	0	0	0	9,894	0	0	0	0	9,894	39,807
2008	10,294	0	0	0	10,294	0	0	0	0	10,294	42,850
2009	10,827	0	0	0	10,827	0	0	0	0	10,827	45,683
2010	11,227	0	753	0	11,980	10,531	0	0	10,531	1,449	46,038
2011	11,807	0	947	0	12,754	12,472	0	0	12,472	282	46,099
2012	12,401	0	0	0	12,401	0	0	0	0	12,401	46,833
2013	13,127	0	0	0	13,127	0	0	0	0	13,127	51,069
2014	13,897	0	0	0	13,897	0	0	0	0	13,897	53,470
2015	14,308	0	1,778	0	16,086	14,050	0	0	14,050	2,036	53,709
2016	15,079	0	1,970	0	17,049	16,704	0	0	16,704	345	53,838
											#VALUE!
											#VALUE!
											#VALUE!
											#VALUE!
NOM	208,368	0	10,609	0	219,087	77,640	0	0	77,640	141,447	
NPV	72,731	0	5,614	0	78,345	30,825	0	0	30,825	47,520	

In Service of Gen Unit	1997
Discount Rate	9.22
Benefit/Cost Ratio (Col(6) / Col(10))	2.54

0274

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVACX - HVAC COMMERCIAL

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PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	1,661	2,532	1,174	0	5,366	626	161	0	0	789	(4,577)	(4,190)
1996	0	1,944	2,818	3,706	0	8,469	2,144	348	0	0	2,491	(5,978)	(9,201)
1997	0	0	0	5,049	0	5,049	8,163	348	0	0	8,510	3,461	(6,545)
1998	0	0	0	5,125	0	5,125	8,299	345	0	0	8,834	3,709	(4,000)
1999	0	0	0	5,231	0	5,231	8,752	344	0	0	9,096	3,865	(1,593)
2000	0	0	0	5,367	0	5,367	8,779	344	0	0	9,123	3,756	619
2001	0	0	0	5,582	0	5,582	9,323	345	0	0	9,668	4,076	2,817
2002	0	0	0	5,845	0	5,845	10,030	348	0	0	10,378	4,531	5,054
2003	0	0	0	6,189	0	6,189	9,622	348	0	0	9,970	3,801	6,772
2004	0	0	0	6,370	0	6,370	10,277	350	0	0	10,627	4,257	8,534
2005	0	0	0	6,639	0	6,639	10,307	352	0	0	10,659	4,020	10,058
2006	0	0	0	6,950	0	6,950	10,536	355	0	0	10,891	3,941	11,425
2007	0	0	0	7,322	0	7,322	10,650	359	0	0	11,009	3,687	12,596
2008	0	0	0	7,818	0	7,818	10,977	363	0	0	11,340	3,723	13,678
2009	0	0	0	8,012	0	8,012	11,507	369	0	0	11,875	3,864	14,707
2010	0	1,710	753	8,308	0	10,771	12,123	375	0	0	12,498	1,727	15,129
2011	0	2,024	847	8,811	0	11,683	11,534	382	0	0	11,916	233	15,180
2012	0	0	0	9,178	0	9,178	11,617	389	0	0	12,006	2,830	15,758
2013	0	0	0	9,714	0	9,714	12,107	398	0	0	12,505	2,791	16,280
2014	0	0	0	10,284	0	10,284	12,581	407	0	0	12,988	2,684	16,740
2015	0	1,958	1,778	10,588	0	14,325	12,980	417	0	0	13,396	(928)	16,595
2016	0	2,344	1,970	11,158	0	15,472	13,440	428	0	0	13,868	(1,604)	16,364
													#VALUE!
													#VALUE!
													#VALUE!
													#VALUE!
NOM	0	11,641	10,899	154,267	0	176,547	216,344	7,870	0	0	224,213	47,666	
NPV	0	4,662	5,614	53,821	0	64,097	77,330	3,131	0	0	80,462	16,364	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.26

0275

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM								
GS RATE CLASS	SCD 1	SCD-2	SCD-3	SCD-4	V-D-1	V-D-10	V-D-11	PPL-1	TES
(1) UTILITY NON RECURRING COST PER CUSTOMER			$170	$170			$270		
(2) UTILITY RECURRING COST PER CUSTOMER			$0	$0			$0		
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)			$1,000	$301			$5,116		
(6) CUSTOMER O&M COST			$0	$0			$0		
(12) UTILITY NON RECURRING REBATE/INCENTIVE			$287	$5			$1,080		
(13) UTILITY RECURRING REBATE/INCENTIVE			$0	$0			$0		
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE			0%	0%			0%		
GSD RATE CLASS									
(1) UTILITY NON RECURRING COST PER CUSTOMER	$6,310	$6,310	$170		$170		$270	$1,540	$12,376
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0		$0		$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$25,000	$60,000	$1,000		$949		$5,116	$7,259	$93,600
(6) CUSTOMER O&M COST	$0	$0	$0		$0		$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$1,000	$940	$49		$61		$120	$460	$72,000
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0		$0		$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%		0%		0%	0%	0%
GSLD RATE CLASS									
(1) UTILITY NON RECURRING COST PER CUSTOMER	$6,310	$6,310	$170		$170	$270	$270	$1,540	$9,208
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0		$0	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$25,000	$60,000	$1,000		$10,163	$11,000	$5,116	$7,259	$180,025
(6) CUSTOMER O&M COST	$0	$0	$0		$0	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$3,450	$4,600	$151		$2,440	$580	$330	$920	$89,600
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0		$0	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%		0%	0%	0%	0%	0%

9220 - 0276

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.8%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

4420 -

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	1.884	1.576	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	1.60 %	*

* Values apply to first year only.

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVAC0133R - HVAC COMMERCIAL

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.85	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.15	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMEF	1,946.9	kWh *****
(5) kWh LINE LOSS PERCENTAGE	7.62	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	195.8	kWh *****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	27	YEARS
(2) GENERATOR ECONOMIC LIFE	20	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85690	
(5) K FACTOR FOR T & D	1.68867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMI	***	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	8.34	%**

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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM
***** THIS PROGRAM IS PRIMARILY A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUSTOMER SHIFTED AWAY FROM PEAK HOURS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUSTOM AFTER ADJUSTING ONE OF THESE NUMBERS TO PLACE BOTH AT THE METER OR AT THE GENERATOR, THE DIFFERENCE BETWEEN THE TWO IS THE ANNUAL KWH/CUSTOMER REDUCTION

(1278)

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVAC01XR - HVAC COMMERCIAL

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	2,313	2,973	0	5,285	1,011	540	14,791	0	0	14,791
1998	2,767	3,181	0	5,948	3,258	1,624	17,404	0	0	17,404
1999	3,196	5,066	0	8,262	5,798	2,977	22,285	0	0	22,285
2000	3,343	5,066	0	8,409	8,505	4,540	23,310	0	0	23,310
2001	0	0	0	0	10,207	5,427	0	0	0	0
2002	0	0	0	0	10,852	5,690	0	0	0	0
2003	0	0	0	0	11,270	5,875	0	0	0	0
2004	0	0	0	0	11,045	5,161	0	0	0	0
2005	0	0	0	0	12,098	6,462	0	0	0	0
2006	0	0	0	0	12,809	6,829	0	0	0	0
2007	0	0	0	0	13,311	7,102	0	0	0	0
2008	0	0	0	0	13,832	7,471	0	0	0	0
2009	0	0	0	0	14,491	7,818	0	0	0	0
2010	0	0	0	0	14,894	8,248	0	0	0	0
2011	0	0	0	0	15,826	8,829	0	0	0	0
2012	2,548	969	0	3,518	16,573	8,995	15,205	0	0	15,205
2013	3,111	1,130	0	4,242	17,007	9,559	18,838	0	0	18,838
2014	3,270	1,130	0	4,400	18,588	10,179	18,826	0	0	18,826
2015	3,447	1,130	0	4,577	19,128	10,490	20,847	0	0	20,847
2016	0	0	0	0	20,209	11,091	0	0	0	0
2017	2,689	2,003	0	4,692	21,217	11,673	18,615	0	0	18,615
2018	3,210	2,051	0	5,261	22,251	12,413	21,394	0	0	21,394
2019	4,177	3,936	0	8,113	22,879	12,591	33,278	0	0	33,278
2020	4,395	3,936	0	8,331	24,164	13,368	35,006	0	0	35,006
NOM	38,473	32,572	0	71,045	342,219	186,221	290,196	0	0	290,196
NPV	11,593	12,881	0	24,474	86,942	48,867	77,062	0	0	77,062

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

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CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV. REQ
PROGRAM NAME HVAC01XR - HVAC COMMERCIAL

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	91,044	4,008	692	5,244	3,883	1,452	3,008	225	18,299	18,299	18,299
2002	87,218	3,839	663	5,024	2,319	1,452	3,008	1,416	17,714	16,218	34,507
2003	82,868	3,647	630	4,774	2,324	1,452	3,008	1,221	17,064	14,304	48,811
2004	78,727	3,464	598	4,535	2,325	1,452	3,008	1,059	16,441	12,618	61,428
2005	74,753	3,288	568	4,308	2,324	1,452	3,008	898	15,842	11,132	72,560
2006	70,922	3,121	539	4,085	2,314	1,452	3,008	750	15,267	9,822	82,382
2007	67,233	2,958	511	3,873	2,297	1,452	3,008	617	14,713	8,668	91,049
2008	63,673	2,802	484	3,663	2,279	1,452	3,008	490	14,179	7,646	98,695
2009	60,188	2,648	457	3,457	2,156	1,452	3,008	469	13,656	6,742	105,437
2010	56,713	2,495	431	3,257	2,264	1,452	3,008	470	13,134	5,937	111,375
2011	53,238	2,342	405	3,058	1,871	1,452	3,008	469	12,612	5,220	116,594
2012	49,762	2,190	378	2,858	1,729	1,452	3,008	469	12,090	4,581	121,176
2013	46,287	2,037	352	2,658	1,587	1,452	3,008	469	11,569	4,013	125,189
2014	42,812	1,884	325	2,458	1,444	1,452	3,008	469	11,047	3,509	128,698
2015	39,337	1,731	299	2,259	1,302	1,452	3,008	469	10,525	3,061	131,759
2016	35,862	1,578	273	2,059	1,160	1,452	3,008	469	10,003	2,663	134,422
2017	32,387	1,425	246	1,865	1,018	1,452	3,008	469	9,481	2,311	136,734
2018	28,911	1,272	220	1,665	875	1,452	3,008	469	8,960	2,000	138,733
2019	25,436	1,119	193	1,465	733	1,452	3,008	469	8,438	1,724	140,458
2020	21,961	966	167	1,265	591	1,452	3,008	469	7,918	1,481	141,939
2021	18,885	830	143	1,087	1,022	1,452	3,008	(260)	7,451	1,278	143,215
2022	16,534	727	126	952	1,899	1,452	3,008	(1,081)	7,101	1,114	144,329
2023	14,589	642	111	840	1,819	1,452	3,008	(1,081)	6,809	978	145,308
2024	12,643	556	96	728	1,738	1,452	3,008	(1,081)	6,517	857	146,165
2025	10,698	471	81	616	1,658	1,452	3,008	(1,081)	6,225	749	146,912
2026	8,753	385	67	504	1,580	1,452	3,008	(1,081)	5,933	654	147,566
2027	6,806	300	52	392	1,500	1,452	3,008	(1,081)	5,641	569	148,135
2028	4,863	214	37	280	1,421	1,452	3,008	(1,081)	5,349	494	148,629
2029	2,918	128	22	168	1,341	1,452	3,008	(1,081)	5,057	428	149,057
2030	973	43	7	56	1,261	1,452	3,008	(1,081)	4,765	369	149,426

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.85600

0280

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: HVAC01XR - HVAC COMMERCIAL

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	3,335	3,335	3,000	3,000	2,750	2,750	225	7,671	0	0	0	225
2002	7.22%	6,421	9,756	3,000	6,012	2,750	5,501	1,416	7,671	0	0	0	1,416
2003	6.68%	5,941	15,697	3,006	9,018	2,750	8,251	1,231	7,671	0	0	0	1,231
2004	6.19%	5,486	21,183	3,006	12,025	2,750	11,002	1,059	7,671	0	0	0	1,059
2005	5.71%	5,078	26,271	3,006	15,031	2,750	13,752	886	7,671	0	0	0	886
2006	5.29%	4,694	30,966	3,006	18,037	2,750	16,503	750	7,671	0	0	0	750
2007	4.89%	4,349	35,315	3,006	21,043	2,750	19,253	617	7,671	0	0	0	617
2008	4.52%	4,020	39,335	3,006	24,049	2,750	22,004	490	7,671	0	0	0	490
2009	4.46%	3,966	43,301	3,006	27,055	2,750	24,754	490	7,671	0	0	0	490
2010	4.46%	3,966	47,268	3,006	30,061	2,750	27,505	490	7,671	0	0	0	490
2011	4.46%	3,966	51,234	3,006	33,068	2,750	30,256	490	7,671	0	0	0	490
2012	4.46%	3,966	55,200	3,006	36,074	2,750	33,005	490	7,671	0	0	0	490
2013	4.46%	3,966	59,167	3,006	39,080	2,750	35,756	490	7,671	0	0	0	490
2014	4.46%	3,966	63,133	3,006	42,086	2,750	38,506	490	7,671	0	0	0	490
2015	4.46%	3,966	67,099	3,006	45,092	2,750	41,257	490	7,671	0	0	0	490
2016	4.46%	3,966	71,066	3,006	48,098	2,750	44,007	490	7,671	0	0	0	490
2017	4.46%	3,966	75,032	3,006	51,104	2,750	46,758	490	7,671	0	0	0	490
2018	4.46%	3,966	78,998	3,006	54,110	2,750	49,508	490	7,671	0	0	0	490
2019	4.46%	3,966	82,965	3,006	57,117	2,750	52,259	490	7,671	0	0	0	490
2020	4.46%	3,966	86,931	3,006	60,123	2,750	55,009	490	7,671	0	0	0	490
2021	2.25%	2,001	88,932	3,006	63,129	2,750	57,760	(299)	7,671	0	0	0	(299)
2022	0.00%	0	88,932	3,006	66,135	2,750	60,510	(1,061)	7,671	0	0	0	(1,061)
2023	0.00%	0	88,932	3,006	69,141	2,750	63,260	(1,061)	7,671	0	0	0	(1,061)
2024	0.00%	0	88,932	3,006	72,147	2,750	66,011	(1,061)	7,671	0	0	0	(1,061)
2025	0.00%	0	88,932	3,006	75,153	2,750	68,761	(1,061)	7,671	0	0	0	(1,061)
2026	0.00%	0	88,932	3,006	78,160	2,750	71,512	(1,061)	7,671	0	0	0	(1,061)
2027	0.00%	0	88,932	3,006	81,166	2,750	74,262	(1,061)	7,671	0	0	0	(1,061)
2028	0.00%	0	88,932	3,006	84,172	2,750	77,013	(1,061)	7,671	0	0	0	(1,061)
2029	0.00%	0	88,932	3,006	87,178	2,750	79,763	(1,061)	7,671	0	0	0	(1,061)
2030	0.00%	0	88,932	3,006	90,184	2,750	82,514	(1,061)	7,671	0	0	0	(1,061)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(2,479)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	7,671
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

(1281)

page6

(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)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.80%	1.028	0.00%	0.00	0.00
1996	-5	2.87%	1.053	0.84%	4.82	2.48
1997	-4	3.15%	1.086	1.86%	10.03	6.83
1998	-3	3.62%	1.125	13.00%	81.35	55.62
1999	-2	3.85%	1.169	60.50%	383.17	292.88
2000	-1	3.88%	1.214	24.00%	162.01	570.47
				100.00%	651.48	

YEAR	NO YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.48	0.11	0.11	0.27	0.27	0.25	0.25	(0.06)	(0.06)	5.19	5.19
1997	-4	10.20	0.45	0.56	1.12	1.39	1.02	1.26	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.95	(1.22)	(1.48)	87.61	103.94
1999	-2	300.52	13.29	16.37	32.98	40.62	29.98	36.94	(6.44)	(7.93)	426.15	530.09
2000	-1	811.10	27.24	43.61	67.60	108.22	80.74	97.68	(12.92)	(20.86)	228.61	758.70
			43.61	63.72	108.22		97.68		(20.86)		758.70	

		BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
IN SERVICE YEA	2001	CONSTRUCTION CASH	77,337	77,337
PLANT COSTS	558	EQUITY AFUDC	7,871	
AFUDC RATE	10.62%	DEBT AFUDC	5,176	5,176
		CPI		11,595
		TOTAL	90,184	93,514

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* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME HVAC01XR - HVAC COMMERCIAL

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.15	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.52	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.88	1.82	0.00	1.00	1.00
1997	21,027	21,027	0.00	4.12	2.03	0.00	1.00	1.00
1998	44,747	44,747	0.00	4.37	2.04	0.00	1.00	1.00
1999	74,134	74,134	0.00	5.17	2.19	0.00	1.00	1.00
2000	103,521	103,521	0.00	5.02	2.43	0.00	1.00	1.00
2001	103,521	103,521	0.00	5.48	2.52	5.01	1.00	1.00
2002	103,521	103,521	0.00	5.80	2.58	5.43	1.00	1.00
2003	103,521	103,521	0.00	6.42	2.77	5.37	1.00	1.00
2004	103,521	103,521	0.00	7.01	2.84	5.95	1.00	1.00
2005	103,521	103,521	0.00	7.33	3.14	5.89	1.00	1.00
2006	103,521	103,521	0.00	7.77	3.30	6.32	1.00	1.00
2007	103,521	103,521	0.00	8.05	3.57	6.66	1.00	1.00
2008	103,521	103,521	0.00	8.02	3.61	7.04	1.00	1.00
2009	103,521	103,521	0.00	9.05	3.92	7.57	1.00	1.00
2010	103,521	103,521	0.00	10.08	4.18	8.37	1.00	1.00
2011	103,521	103,521	0.00	10.10	4.14	8.53	1.00	1.00
2012	103,521	103,521	0.00	10.84	4.53	8.98	1.00	1.00
2013	103,521	103,521	0.00	11.67	4.82	9.57	1.00	1.00
2014	103,521	103,521	0.00	12.36	4.86	10.14	1.00	1.00
2015	103,521	103,521	0.00	12.82	5.18	10.51	1.00	1.00
2016	103,521	103,521	0.00	13.74	5.39	11.12	1.00	1.00
2017	103,521	103,521	0.00	14.51	5.86	11.73	1.00	1.00
2018	103,521	103,521	0.00	14.51	5.82	12.38	1.00	1.00
2019	103,521	103,521	0.00	15.39	6.19	13.06	1.00	1.00
2020	103,521	103,521	0.00	16.31	6.48	13.77	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS

0284

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVAC01XR - HVAC COMMERCIAL

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	18,298	3,276	129	17,854	26,702	12,356
2002	17,714	3,427	140	20,012	30,431	10,862
2003	17,084	3,584	148	21,940	30,410	12,326
2004	16,441	3,742	156	23,991	33,964	10,385
2005	15,842	3,910	152	23,827	31,432	12,299
2006	15,267	4,094	140	22,050	29,814	11,838
2007	14,713	4,267	124	18,910	29,363	12,871
2008	14,179	4,467	118	19,031	24,806	12,929
2009	13,658	4,722	129	21,405	28,205	11,808
2010	13,134	4,862	135	22,586	31,190	9,626
2011	12,612	5,220	100	16,810	22,350	12,481
2012	12,080	5,467	81	13,802	18,180	13,301
2013	11,569	5,768	82	14,081	18,652	12,866
2014	11,047	6,005	80	15,383	20,486	12,129
2015	10,525	6,412	105	18,043	23,586	11,499
2016	10,003	6,748	100	17,213	22,686	11,374
2017	9,481	7,006	102	17,377	23,048	11,010
2018	8,980	7,485	108	18,009	24,027	10,512
2019	8,439	7,854	114	19,449	26,116	9,739
2020	7,916	8,262	113	20,371	27,518	9,151
NOM	259,939	106,936	2,367	383,044	520,234	231,052
NPV	78,544	24,586	667	104,807	144,556	62,049

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVAC01XR - HVAC COMMERCIAL

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(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	88	15	104	40	61	101	644	45
1999	181	33	223	85	136	221	2,795	143
2000	318	58	374	142	235	377	5,887	377
2001	445	82	528	109	334	443	8,572	458
2002	431	86	518	183	370	553	11,060	555
2003	417	90	507	180	377	557	11,890	570
2004	402	95	497	176	394	570	12,948	638
2005	388	99	487	168	412	580	14,129	625
2006	376	103	479	162	430	592	14,784	691
2007	363	108	471	157	450	607	15,852	726
2008	351	113	464	151	472	623	17,432	785
2009	338	118	457	145	488	633	18,175	837
2010	326	124	451	141	519	660	18,248	862
2011	314	131	445	135	548	683	20,312	920
2012	302	136	440	130	574	704	20,871	910
2013	290	145	435	124	605	729	21,851	906
2014	278	153	431	119	637	756	23,511	1,017
2015	266	161	427	113	670	783	24,843	1,074
2016	254	169	423	108	705	813	26,034	1,140
2017	242	178	419	103	742	845	27,808	1,185
2018	230	187	417	97	781	878	29,251	1,245
2019	218	197	415	93	821	914	29,251	1,302
2020	206	207	413	89	864	953	31,008	1,362
		218			909	998	32,871	1,424
NOM.	7,228	3,008	10,242	3,235	12,540	15,775	440,100	18,758
NPV	2,490	767	3,257	1,113	3,201	4,314	108,844	4,902

0286

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVAC01XR - HVAC COMMERCIAL

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	2,313	14,791	0	17,103	0	205	799	0	1,004	(16,100)	(12,356)
1998	0	2,767	17,404	0	20,171	0	444	2,562	0	3,007	(17,074)	(24,354)
1999	0	3,196	22,285	0	25,481	0	752	5,710	0	6,462	(19,019)	(36,580)
2000	0	7,343	23,310	0	26,653	0	1,071	8,215	0	9,286	(17,367)	(46,819)
2001	0	0	0	0	0	12,356	1,071	10,505	0	23,932	23,932	(33,913)
2002	0	0	0	0	0	10,882	1,070	11,120	0	23,052	23,052	(22,531)
2003	0	0	0	0	0	12,326	1,071	12,340	0	25,737	25,737	(10,897)
2004	0	0	0	0	0	10,365	1,073	13,503	0	24,941	24,941	(574)
2005	0	0	0	0	0	12,299	1,077	14,073	0	27,449	27,449	9,827
2006	0	0	0	0	0	11,938	1,084	14,827	0	27,848	27,848	18,523
2007	0	0	0	0	0	12,571	1,092	16,647	0	30,410	30,410	29,182
2008	0	0	0	0	0	12,929	1,103	17,238	0	31,370	31,370	38,205
2009	0	0	0	0	0	11,808	1,116	17,387	0	30,109	30,109	46,322
2010	0	0	0	0	0	9,828	1,131	19,302	0	30,151	30,151	53,672
2011	0	0	0	0	0	12,491	1,148	20,061	0	33,701	33,701	61,194
2012	0	2,549	15,205	0	17,754	13,301	1,169	20,855	0	35,326	17,572	64,785
2013	0	3,111	18,678	0	21,790	12,888	1,192	22,494	0	36,555	14,805	67,554
2014	0	3,279	19,626	0	22,902	12,139	1,216	23,866	0	37,214	14,311	70,009
2015	0	3,447	20,647	0	24,092	11,499	1,242	24,894	0	37,634	13,541	72,130
2016	0	0	0	0	0	11,374	1,270	26,513	0	39,158	39,158	77,752
2017	0	2,689	18,615	0	21,304	11,018	1,300	28,008	0	40,318	19,012	80,251
2018	0	3,210	21,394	0	24,605	10,512	1,334	27,949	0	39,795	15,191	82,080
2019	0	4,177	33,276	0	37,453	9,736	1,372	31,647	0	42,754	3,301	82,444
2020	0	4,395	35,008	0	39,400	8,151	1,415	31,447	0	42,013	2,613	82,707
												#VALUE!
												#VALUE!
												#VALUE!
NOM	0	38,473	260,199	0	298,669	231,052	26,017	420,342	0	677,411	378,742	
NPV	0	11,503	77,062	0	88,865	82,048	7,572	101,742	0	171,362	82,707	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.93

0287

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVAC01XR - HVAC COMMERCIAL

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YEAR	(1)	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994		0	0	0	0	0	0	0	0	0	0	0	0	0
1995		0	0	0	0	0	0	0	0	0	0	0	0	0
1996		0	0	0	0	0	0	0	0	0	0	0	0	0
1997		0	0	0	0	0	0	0	0	0	0	0	0	0
1998		0	2,313	2,073	1,551	0	6,836	700	205	0	0	1,004	(5,833)	(4,478)
1999		0	2,767	3,181	4,883	0	10,831	2,952	444	0	0	3,097	(7,734)	(5,435)
2000		0	3,196	5,088	8,775	0	17,037	5,710	752	0	0	6,462	(10,575)	(6,803)
2001		0	3,343	5,088	13,045	0	21,455	8,215	1,071	0	0	9,286	(12,169)	(7,166)
2002		0	0	0	15,634	0	15,634	22,801	1,071	0	0	23,872	8,298	4,475
2003		0	0	0	16,342	0	16,342	21,982	1,070	0	0	23,052	6,710	3,313
2004		0	0	0	17,245	0	17,245	24,666	1,071	0	0	25,737	8,492	3,839
2005		0	0	0	17,806	0	17,806	23,869	1,073	0	0	24,941	7,136	2,653
2006		0	0	0	18,561	0	18,561	26,372	1,077	0	0	27,449	8,888	3,368
2007		0	0	0	18,437	0	18,437	26,664	1,084	0	0	27,848	8,810	2,953
2008		0	0	0	20,474	0	20,474	29,318	1,092	0	0	30,410	9,838	2,958
2009		0	0	0	21,302	0	21,302	30,267	1,103	0	0	31,370	10,068	2,829
2010		0	0	0	22,409	0	22,409	29,993	1,116	0	0	31,109	7,700	2,050
2011		0	0	0	23,240	0	23,240	30,022	1,131	0	0	31,151	6,911	1,885
2012		0	0	0	24,855	0	24,855	32,552	1,149	0	0	33,701	8,847	2,210
2013		0	2,549	960	25,869	0	29,187	34,156	1,169	0	0	35,329	6,139	1,254
2014		0	3,111	1,120	27,166	0	31,406	35,383	1,192	0	0	36,555	5,147	883
2015		0	3,279	1,120	28,795	0	33,171	35,999	1,216	0	0	37,214	4,042	652
2016		0	3,447	1,120	29,616	0	34,183	36,383	1,270	0	0	37,834	3,442	540
2017		0	0	0	31,208	0	31,208	37,887	1,300	0	0	39,188	7,949	1,141
2018		0	2,689	2,010	32,891	0	37,592	39,016	1,334	0	0	40,350	2,733	359
2019		0	3,210	2,051	34,864	0	39,926	39,462	1,372	0	0	40,794	(120)	(16)
2020		0	4,177	3,936	36,571	0	43,684	39,383	1,415	0	0	42,013	(2,830)	(327)
		0	4,305	3,936	37,532	0	45,883	40,599		0	0		(3,850)	(399)
NOM.		0	36,472	32,572	528,440	0	598,485	651,394	26,017	0	0	677,411	77,925	
NPV		0	11,593	12,861	133,808	0	158,262	163,790	7,572	0	0	171,362	13,080	

Discount Rate: 8.22

Benefit/Cost Ratio (Cnt(12) / Cnt(7)): 1.08

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM								
	SCD-1	SCD-2	SCD-3	SCD-4	V-D-1	V-D-10	V-D-11	FPL-1	TES
GS RATE CLASS									
(1) UTILITY NON RECURRING COST PER CUSTOMER			$170	$170			$270		
(2) UTILITY RECURRING COST PER CUSTOMER			$0	$0			$0		
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)			$1,000	$301			$5,116		
(6) CUSTOMER O&M COST			$0	$0			$0		
(12) UTILITY NON RECURRING REBATE/INCENTIVE			$287	$5			$1,080		
(13) UTILITY RECURRING REBATE/INCENTIVE			$0	$0			$0		
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE			0%	0%			0%		
GSD RATE CLASS									
(1) UTILITY NON RECURRING COST PER CUSTOMER	$6,310	$6,310	$170		$170		$270	$1,540	$12,376
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0		$0		$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$25,000	$60,000	$1,000		$949		$5,116	$7,259	$93,600
(6) CUSTOMER O&M COST	$0	$0	$0		$0		$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$1,000	$940	$49		$61		$120	$460	$72,000
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0		$0		$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%		0%		0%	0%	0%
GSLD RATE CLASS									
(1) UTILITY NON RECURRING COST PER CUSTOMER	$6,310	$6,310	$170		$170	$270	$270	$1,540	$9,208
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0		$0	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$25,000	$60,000	$1,000		$10,163	$11,000	$5,116	$7,259	$180,025
(6) CUSTOMER O&M COST	$0	$0	$0		$0	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$3,450	$4,600	$151		$2,440	$580	$330	$920	$89,600
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0		$0	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%		0%	0%	0%	0%	0%

0290

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	1.884	1.576	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	1.60 %	*

* Values apply to first year only.

(291)

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVAC043R - HVAC Commercial

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.85	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.15	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	963.2	kWh *****
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	297.6	kWh *****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	29	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.65868	
(5) K FACTOR FOR T & D	1.66867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOME	***	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2004	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2003	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	55%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	4.20	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM
***** THIS PROGRAM IS PRIMARILY A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUSTOMER SHIFTED AWAY FROM PEAK HOURS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUSTOM
AFTER ADJUSTING ONE OF THESE NUMBERS TO PLACE BOTH AT THE METER OR AT THE GENERATOR, THE DIFFERENCE BETWEEN THE TWO IS THE ANNUAL KWH/CUSTOMER REDUCTION

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* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVAC04XR - HVAC Commercial

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	1,930	4,411	0	6,341	493	565	15,001	0	0	15,001
2002	1,348	2,941	0	4,287	1,372	1,495	10,524	0	0	10,524
2003	703	1,470	0	2,173	1,864	2,132	5,501	0	0	5,501
2004	0	0	0	0	2,247	2,362	0	0	0	0
2005	0	0	0	0	2,337	2,466	0	0	0	0
2006	0	0	0	0	2,430	2,640	0	0	0	0
2007	0	0	0	0	2,573	2,760	0	0	0	0
2008	0	0	0	0	2,675	2,899	0	0	0	0
2009	0	0	0	0	2,806	3,062	0	0	0	0
2010	0	0	0	0	2,906	3,189	0	0	0	0
2011	0	0	0	0	3,072	3,415	0	0	0	0
2012	0	0	0	0	3,210	3,518	0	0	0	0
2013	0	0	0	0	3,408	3,687	0	0	0	0
2014	0	0	0	0	3,588	3,938	0	0	0	0
2015	0	0	0	0	3,704	4,058	0	0	0	0
2016	1,821	415	0	2,236	3,810	4,259	8,779	0	0	8,779
2017	1,278	278	1	1,554	4,111	4,518	6,157	0	0	6,157
2018	671	138	0	809	4,307	4,703	3,234	0	0	3,234
2019	0	0	0	0	4,450	4,871	0	0	0	0
2020	0	0	0	0	4,684	5,172	0	0	0	0
2021	2,772	3,998	0	6,769	4,943	5,462	20,726	0	0	20,726
2022	1,945	2,864	0	4,809	5,217	5,831	20,148	0	0	20,148
NOM	12,467	16,312	0	28,779	70,454	77,089	86,161	0	0	86,161
NPV	2,854	5,302	0	8,156	14,214	15,481	22,638	0	0	22,638

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVACDHXR - HVAC Commercial

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	36,516	1,807	278	2,103	1,469	582	1,206	90	7,335	7,335	7,335
2005	34,981	1,539	266	2,015	929	582	1,206	568	7,105	6,505	13,840
2006	33,245	1,463	253	1,915	932	582	1,206	494	6,844	5,737	19,577
2007	31,580	1,390	240	1,819	933	582	1,206	425	6,594	5,061	24,638
2008	29,982	1,319	228	1,727	932	582	1,206	360	6,354	4,465	29,102
2009	28,445	1,252	215	1,638	926	582	1,206	301	6,123	3,939	33,042
2010	26,996	1,186	205	1,553	921	582	1,206	247	5,901	3,476	36,518
2011	25,536	1,124	194	1,471	914	582	1,206	198	5,687	3,067	39,584
2012	24,140	1,062	183	1,390	865	582	1,206	158	5,477	2,704	42,288
2013	22,748	1,001	173	1,310	808	582	1,206	160	5,268	2,381	44,670
2014	21,352	940	162	1,230	751	582	1,206	158	5,058	2,094	46,763
2015	19,959	879	152	1,150	693	582	1,206	156	4,848	1,837	48,601
2016	18,565	817	141	1,069	636	582	1,206	158	4,640	1,610	50,211
2017	17,171	756	130	989	579	582	1,206	158	4,431	1,407	51,618
2018	15,777	694	120	908	522	582	1,206	158	4,221	1,228	52,846
2019	14,383	633	109	828	465	582	1,206	158	4,012	1,068	53,914
2020	12,988	572	99	748	408	582	1,206	158	3,803	927	54,841
2021	11,596	510	88	668	351	582	1,206	158	3,593	802	55,643
2022	10,202	449	78	588	294	582	1,206	158	3,384	692	56,334
2023	8,808	388	67	507	237	582	1,206	158	3,175	594	56,928
2024	7,566	333	58	436	490	582	1,206	(116)	2,968	512	57,440
2025	6,631	292	50	382	791	582	1,206	(426)	2,848	447	57,887
2026	5,861	257	44	337	720	582	1,206	(426)	2,721	392	58,279
2027	5,071	223	39	292	666	582	1,206	(426)	2,614	344	58,623
2028	4,291	189	33	247	666	582	1,206	(426)	2,487	301	58,923
2029	3,511	154	27	202	634	582	1,206	(426)	2,300	262	59,185
2030	2,731	120	21	157	602	582	1,206	(426)	2,262	228	59,414
2031	1,950	86	15	112	570	582	1,206	(426)	2,145	198	59,612
2032	1,170	51	9	67	538	582	1,206	(426)	2,028	172	59,783
2033	390	17	3	22	506	582	1,206	(426)	1,911	148	59,931

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65406

(1294)

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME HVAC043R - HVAC Commercial

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2004	3.75%	1,338	1,338	1,206	1,206	1,103	1,103	90	3.075	0	0	0	90
2005	7.22%	2,575	3,913	1,206	2,411	1,103	2,206	566	3.075	0	0	0	566
2006	6.68%	2,383	6,296	1,206	3,617	1,103	3,310	494	3.075	0	0	0	494
2007	6.18%	2,204	8,500	1,206	4,823	1,103	4,413	425	3.075	0	0	0	425
2008	5.71%	2,037	10,537	1,206	6,029	1,103	5,516	360	3.075	0	0	0	360
2009	5.28%	1,883	12,420	1,206	7,234	1,103	6,618	301	3.075	0	0	0	301
2010	4.89%	1,744	14,164	1,206	8,440	1,103	7,722	247	3.075	0	0	0	247
2011	4.52%	1,612	15,777	1,206	9,646	1,103	8,826	196	3.075	0	0	0	196
2012	4.46%	1,591	17,367	1,206	10,851	1,103	9,929	188	3.075	0	0	0	188
2013	4.46%	1,591	18,958	1,206	12,057	1,103	11,032	188	3.075	0	0	0	188
2014	4.46%	1,591	20,549	1,206	13,263	1,103	12,135	188	3.075	0	0	0	188
2015	4.46%	1,591	22,140	1,206	14,468	1,103	13,238	188	3.075	0	0	0	188
2016	4.46%	1,591	23,731	1,206	15,674	1,103	14,342	188	3.075	0	0	0	188
2017	4.46%	1,591	25,322	1,206	16,880	1,103	15,445	188	3.075	0	0	0	188
2018	4.46%	1,591	26,913	1,206	18,086	1,103	16,548	188	3.075	0	0	0	188
2019	4.46%	1,591	28,503	1,206	19,291	1,103	17,651	188	3.075	0	0	0	188
2020	4.46%	1,591	30,094	1,206	20,497	1,103	18,754	188	3.075	0	0	0	188
2021	4.46%	1,591	31,685	1,206	21,703	1,103	19,858	188	3.075	0	0	0	188
2022	4.46%	1,591	33,276	1,206	22,908	1,103	20,961	188	3.075	0	0	0	188
2023	4.46%	1,591	34,867	1,206	24,114	1,103	22,064	188	3.075	0	0	0	188
2024	2.25%	803	35,669	1,206	25,320	1,103	23,167	(116)	3.075	0	0	0	(116)
2025	0.00%	0	35,669	1,206	26,526	1,103	24,270	(426)	3.075	0	0	0	(426)
2026	0.00%	0	35,669	1,206	27,731	1,103	25,374	(426)	3.075	0	0	0	(426)
2027	0.00%	0	35,669	1,206	28,937	1,103	26,477	(426)	3.075	0	0	0	(426)
2028	0.00%	0	35,669	1,206	30,143	1,103	27,580	(426)	3.075	0	0	0	(426)
2029	0.00%	0	35,669	1,206	31,348	1,103	28,683	(426)	3.075	0	0	0	(426)
2030	0.00%	0	35,669	1,206	32,554	1,103	29,786	(426)	3.075	0	0	0	(426)
2031	0.00%	0	35,669	1,206	33,760	1,103	30,889	(426)	3.075	0	0	0	(426)
2032	0.00%	0	35,669	1,206	34,966	1,103	31,993	(426)	3.075	0	0	0	(426)
2033	0.00%	0	35,669	1,206	36,171	1,103	33,096	(426)	3.075	0	0	0	(426)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(992)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3.075
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: HVAC04XR - HVAC Commercial

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2004	3.75%	1,308	90	34,998	1,206	(902)	37,164	35,868	36,516
2005	7.22%	2,575	568	33,780	2,411	(334)	35,868	34,094	34,981
2006	6.68%	2,383	494	32,554	3,617	159	34,094	32,395	33,245
2007	6.18%	2,204	425	31,348	4,823	584	32,395	30,794	31,580
2008	5.71%	2,037	380	30,143	6,029	944	30,794	29,199	29,982
2009	5.29%	1,523	301	28,937	7,234	1,245	29,199	27,602	28,445
2010	4.89%	1,744	247	27,731	8,440	1,492	27,602	26,229	26,966
2011	4.52%	1,612	196	23,526	9,646	1,689	26,229	24,837	25,536
2012	4.46%	1,591	188	25,320	10,851	1,877	24,837	23,443	24,140
2013	4.46%	1,591	188	24,114	12,057	2,065	23,443	22,049	22,746
2014	4.46%	1,591	188	22,908	13,263	2,253	22,049	20,655	21,352
2015	4.46%	1,591	188	21,703	14,468	2,441	20,655	19,262	19,958
2016	4.46%	1,591	188	20,497	15,674	2,629	19,262	17,868	18,565
2017	4.46%	1,591	188	19,291	16,880	2,817	17,868	16,474	17,171
2018	4.46%	1,591	188	18,086	18,086	3,005	16,474	15,080	15,777
2019	4.46%	1,591	188	16,880	19,291	3,194	15,080	13,686	14,383
2020	4.46%	1,591	188	15,674	20,497	3,382	13,686	12,293	12,989
2021	4.46%	1,591	188	14,468	21,703	3,570	12,293	10,899	11,596
2022	4.46%	1,591	188	13,263	22,908	3,758	10,899	9,505	10,202
2023	4.46%	1,591	188	12,057	24,114	3,946	9,505	8,111	8,808
2024	2.25%	803	(110)	10,851	25,320	3,836	8,111	7,021	7,566
2025	0.00%	0	(426)	9,646	26,526	3,404	7,021	6,241	6,631
2026	0.00%	0	(426)	8,440	27,731	2,979	6,241	5,461	5,851
2027	0.00%	0	(426)	7,234	28,937	2,553	5,461	4,681	5,071
2028	0.00%	0	(426)	6,029	30,143	2,128	4,681	3,901	4,291
2029	0.00%	0	(426)	4,823	31,348	1,702	3,901	3,121	3,511
2030	0.00%	0	(426)	3,617	32,554	1,277	3,121	2,340	2,731
2031	0.00%	0	(426)	2,411	33,760	851	2,340	1,560	1,950
2032	0.00%	0	(426)	1,206	34,966	426	1,560	780	1,170
2033	0.00%	0	(426)	0	36,171	0	780	0	390

* Column not specified in workbook

9621296

INPUT DATA - PART 2
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME HVAC04XR - HVAC Commercial

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWN)	(5) AVOIDED MARGINAL FUEL COST (CAWN)	(6)* INCREASED MARGINAL FUEL COST (CAWN)	(7) REPLACEMENT FUEL COST (CAWN)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.22	1.86	0.00	1.00	1.00
1995	0	0	0.00	3.83	1.92	0.00	1.00	1.00
1996	0	0	0.00	4.07	1.92	0.00	1.00	1.00
1997	0	0	0.00	4.87	2.03	0.00	1.00	1.00
1998	0	0	0.00	4.91	2.04	0.00	1.00	1.00
1999	0	0	0.00	5.95	2.19	0.00	1.00	1.00
2000	0	0	0.00	5.84	2.43	0.00	1.00	1.00
2001	16,514	16,514	0.00	6.17	2.52	0.00	1.00	1.00
2002	30,857	30,857	0.00	6.47	2.58	0.00	1.00	1.00
2003	37,026	37,026	0.00	7.21	2.77	0.00	1.00	1.00
2004	37,026	37,026	0.00	7.84	2.84	5.05	1.00	1.00
2005	37,026	37,026	0.00	8.18	3.14	5.89	1.00	1.00
2006	37,026	37,026	0.00	8.52	3.30	6.32	1.00	1.00
2007	37,026	37,026	0.00	9.70	3.57	6.85	1.00	1.00
2008	37,026	37,026	0.00	10.00	3.81	7.04	1.00	1.00
2009	37,026	37,026	0.00	9.91	3.92	7.57	1.00	1.00
2010	37,026	37,026	0.00	11.35	4.18	8.37	1.00	1.00
2011	37,026	37,026	0.00	11.73	4.14	8.53	1.00	1.00
2012	37,026	37,026	0.00	12.23	4.53	8.96	1.00	1.00
2013	37,026	37,026	0.00	13.29	4.82	9.57	1.00	1.00
2014	37,026	37,026	0.00	14.10	4.88	10.14	1.00	1.00
2015	37,026	37,026	0.00	14.67	5.18	10.51	1.00	1.00
2016	37,026	37,026	0.00	15.67	5.29	11.12	1.00	1.00
2017	37,026	37,026	0.00	16.53	5.88	11.73	1.00	1.00
2018	37,026	37,026	0.00	16.53	5.95	12.38	1.00	1.00
2019	37,026	37,026	0.00	17.55	6.25	13.06	1.00	1.00
2020	37,026	37,026	0.00	18.64	6.57	13.77	1.00	1.00
2021	37,023	37,026	0.00	19.80	6.90	14.53	1.00	1.00
2022	37,026	37,026	0.00	21.03	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0298

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME HVAC0430 - HVAC Commercial

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	0	0	0	0	0	0
2006	7,336	1,336	58	8,581	12,148	5,162
2007	7,155	1,368	54	8,522	11,242	5,837
2008	6,844	1,404	50	7,887	10,582	5,653
2009	6,594	1,533	44	7,121	9,429	5,883
2010	6,354	1,608	41	6,806	8,905	5,907
2011	6,123	1,689	46	7,856	10,124	5,390
2012	5,901	1,775	48	8,078	11,156	4,847
2013	5,687	1,867	36	6,048	7,884	5,844
2014	5,477	1,966	29	4,938	6,488	5,910
2015	5,268	2,070	29	5,039	6,671	5,733
2016	5,069	2,180	32	5,502	7,327	5,445
2017	4,849	2,293	37	6,453	8,439	5,186
2018	4,640	2,413	36	6,158	8,115	5,130
2019	4,421	2,539	36	6,215	8,243	4,877
2020	4,221	2,670	41	6,441	8,594	4,777
2021	4,012	2,809	43	6,955	9,341	4,478
2022	3,803	2,955	44	7,268	9,842	4,245
2023	3,583	3,109	46	7,445	10,117	4,074
2024	3,364	3,270		7,676	10,466	3,881
NOM	100,889	40,947	787	130,805	175,269	97,950
NPV	23,316	7,541	173	28,337	38,028	21,336

PSC FORM CE 2.1
PAGE 1 OF 1

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVAC643R - HVAC Commercial

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	66	11	78	29	47	76	550	75
2002	199	35	234	89	147	236	1,534	208
2003	400	71	477	180	307	488	2,358	304
2004	391	77	468	175	321	496	2,833	340
2005	378	80	458	169	335	504	2,917	378
2006	366	84	449	163	351	514	3,037	395
2007	352	88	440	157	368	525	3,459	427
2008	340	92	433	152	386	538	3,588	455
2009	329	97	426	147	405	552	3,536	468
2010	318	102	420	142	426	568	4,048	500
2011	307	107	414	137	448	585	4,183	495
2012	296	113	409	132	471	604	4,302	541
2013	286	119	405	128	496	624	4,741	553
2014	275	125	400	123	523	646	5,027	584
2015	264	132	396	118	550	668	5,233	620
2016	253	139	392	113	579	692	5,599	644
2017	243	146	389	109	609	717	5,804	677
2018	232	153	385	104	640	744	5,804	711
2019	221	161	382	99	674	773	6,280	747
2020	211	170	380	94	709	803	6,649	785
2021	200	179	379	89	745	835	7,061	825
2022	189	188	377	85	784	869	7,499	867
NOM.	6,110	2,474	8,500	2,735	10,321	13,055	96,231	11,506
NPV	1,570	490	2,060	702	2,045	2,747	18,844	2,314

0300

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVAC04XR - HVAC Commercial

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,830	15,091	0	17,021	0	152	475	0	627	(16,394)	(8,841)
2002	0	1,348	10,524	0	11,870	0	470	1,332	0	1,801	(10,069)	(13,812)
2003	0	703	5,501	0	6,204	0	964	2,054	0	3,019	(3,186)	(15,252)
2004	0	0	0	0	0	5,182	964	2,493	0	8,620	8,620	(11,884)
2005	0	0	0	0	0	5,837	962	2,541	0	9,340	9,340	(8,145)
2006	0	0	0	0	0	5,653	963	2,642	0	9,258	9,258	(4,833)
2007	0	0	0	0	0	5,883	965	3,033	0	9,881	9,881	(1,801)
2008	0	0	0	0	0	5,907	971	2,111	0	9,988	9,988	1,104
2009	0	0	0	0	0	5,390	978	3,067	0	9,435	9,435	3,816
2010	0	0	0	0	0	4,647	988	3,546	0	9,181	9,181	5,854
2011	0	0	0	0	0	5,644	999	3,698	0	10,331	10,331	8,180
2012	0	0	0	0	0	5,910	1,013	3,820	0	10,744	10,744	10,355
2013	0	0	0	0	0	5,733	1,029	4,188	0	10,949	10,949	12,404
2014	0	0	0	0	0	5,445	1,048	4,443	0	10,934	10,934	14,277
2015	0	0	0	0	0	5,198	1,064	4,613	0	10,874	10,874	15,962
2016	0	1,821	8,779	0	10,601	5,130	1,084	4,945	0	11,159	558	16,083
2017	0	1,278	6,157	0	7,435	4,977	1,108	5,217	0	11,300	3,865	16,571
2018	0	671	3,234	0	3,906	4,777	1,129	5,183	0	11,089	7,183	17,435
2019	0	0	0	0	0	4,478	1,155	5,513	0	11,144	11,144	18,883
2020	0	0	0	0	0	4,245	1,183	5,863	0	11,291	11,291	19,903
2021	0	2,772	26,726	0	31,499	4,074	1,213	6,238	0	11,524	(19,975)	17,957
2022	0	1,945	23,148	0	22,093	3,981	1,248	6,633	0	11,760	(10,333)	17,094
												#VALUE!
NOM	0	12,467	98,161	0	110,628	97,950	21,648	84,835	0	204,231	93,603	
NPV	0	2,954	22,838	0	25,592	21,338	4,807	16,530	0	42,675	17,084	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.67

PARTICIPANT COSTS AND BENEFITS
PROGRAM MET-IOD SELECTED: REV_REQ
PROGRAM NAME HVACD4GR - HVAC Commercial

PSC FORM CE 2.4
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	1,430	0	4,411	0	5,841	15,091	0	0	15,091	(9,250)	(4,960)
2002	3,874	0	2,941	0	6,815	10,524	0	0	10,524	(3,709)	(1,821)
2003	5,576	0	1,470	0	7,046	5,501	0	0	5,501	1,545	608
2004	6,254	0	0	0	6,254	0	0	0	0	6,254	2,589
2005	6,534	0	0	0	6,534	0	0	0	0	6,534	2,476
2006	6,864	0	0	0	6,864	0	0	0	0	6,864	2,301
2007	7,220	0	0	0	7,220	0	0	0	0	7,220	2,203
2008	7,518	0	0	0	7,518	0	0	0	0	7,518	2,188
2009	7,830	0	0	0	7,830	0	0	0	0	7,830	2,111
2010	8,238	0	0	0	8,238	0	0	0	0	8,238	2,000
2011	8,786	0	0	0	8,786	0	0	0	0	8,786	1,958
2012	9,092	0	0	0	9,092	0	0	0	0	9,092	1,858
2013	9,589	0	0	0	9,589	0	0	0	0	9,589	1,796
2014	10,185	0	0	0	10,185	0	0	0	0	10,185	1,745
2015	10,490	0	0	0	10,490	0	0	0	0	10,490	1,645
2016	11,035	0	415	0	11,450	8,779	0	0	8,779	2,670	383
2017	11,868	0	276	0	11,834	6,157	0	0	6,157	5,777	759
2018	12,176	0	138	0	12,314	3,234	0	0	3,234	9,079	1,093
2019	12,588	0	0	0	12,588	0	0	0	0	12,588	1,368
2020	13,320	0	0	0	13,320	0	0	0	0	13,320	1,344
2021	14,101	0	3,996	0	18,097	28,729	0	0	28,729	(10,629)	(982)
2022	14,930	0	2,864	0	17,794	20,148	0	0	20,148	(2,353)	(216)
NOM	193,383	0	18,312	0	215,695	98,181	0	0	98,181	117,534	
NPV	40,129	0	5,202	0	45,331	22,638	0	0	22,638	22,693	

In Service of Gen Unit:	2004
Discount Rate :	9.22
Benefit/Cost Ratio (Col(6) / Col(10))	2.00

0302

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: HVAC04XR - HVAC Commercial

PSC FORM CE 2.5
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	1,830	4,411	1,056	0	7,399	475	152	0	0	627	(6,772)	(3,852)
2002	0	1,346	2,841	2,867	0	7,154	1,332	470	0	0	1,801	(5,352)	(2,643)
2003	0	703	1,470	4,126	0	6,299	2,054	964	0	0	3,019	(3,281)	(1,483)
2004	0	0	0	4,829	0	4,829	7,058	964	0	0	8,020	3,991	1,852
2005	0	0	0	4,835	0	4,835	8,378	962	0	0	9,340	4,505	1,707
2006	0	0	0	5,079	0	5,079	8,295	963	0	0	9,258	4,179	1,430
2007	0	0	0	5,342	0	5,342	8,896	965	0	0	9,861	4,519	1,406
2008	0	0	0	5,563	0	5,563	9,017	971	0	0	9,988	4,424	1,287
2009	0	0	0	5,868	0	5,868	8,458	978	0	0	9,435	3,568	950
2010	0	0	0	6,005	0	6,005	8,193	988	0	0	9,181	3,066	752
2011	0	0	0	6,487	0	6,487	9,332	999	0	0	10,331	3,844	858
2012	0	0	0	6,728	0	6,728	9,730	1,013	0	0	10,744	4,015	821
2013	0	0	0	7,104	0	7,104	9,921	1,029	0	0	10,949	3,846	720
2014	0	0	0	7,537	0	7,537	9,888	1,046	0	0	10,934	3,398	582
2015	0	0	0	7,792	0	7,792	9,810	1,064	0	0	10,874	3,112	488
2016	0	1,821	415	8,166	0	10,402	10,075	1,084	0	0	11,159	757	109
2017	0	1,278	278	8,827	0	10,181	10,194	1,106	0	0	11,300	1,119	147
2018	0	671	138	9,010	0	9,819	9,990	1,129	0	0	11,099	1,279	152
2019	0	0	0	9,321	0	9,321	9,969	1,155	0	0	11,144	1,823	201
2020	0	0	0	9,857	0	9,857	10,108	1,183	0	0	11,291	1,434	145
2021	0	2,773	3,898	10,435	0	17,204	10,310	1,213	0	0	11,524	(5,680)	(525)
2022	0	1,945	2,864	11,048	0	15,857	10,514	1,246	0	0	11,760	(3,897)	(330)
NOM.	0	12,467	16,312	147,543	0	176,322	182,585	21,648	0	0	204,231	27,909	
NPV	0	2,954	5,202	29,695	0	37,852	37,968	4,807	0	0	42,675	4,824	

Discount Rate	8.22
Benefit/Cost Ratio (Col(12) / Col(7)) :	1.13

0303

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM							
GS RATE CLASS	SCD-1	SCD-3	SCD-4	W-D-1	W-D-10	W-D-11	FPL-1	TES
(1) UTILITY NON RECURRING COST PER CUSTOMER		$170	$170			$270		
(2) UTILITY RECURRING COST PER CUSTOMER		$0	$0			$0		
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)		$1,000	$301			$5,116		
(6) CUSTOMER O&M COST		$0	$0			$0		
(12) UTILITY NON RECURRING REBATE/INCENTIVE		$287	$5			$1,080		
(13) UTILITY RECURRING REBATE/INCENTIVE		$0	$0			$0		
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE		0%	0%			0%		
GSD RATE CLASS								
(1) UTILITY NON RECURRING COST PER CUSTOMER	$6,310	$170		$170	$270	$270	$1,540	$12,376
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0		$0	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$25,000	$1,000		$949	$11,000	$5,116	$7,259	$93,600
(6) CUSTOMER O&M COST	$0	$0		$0	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$1,000	$49		$61	$610	$120	$460	$72,000
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0		$0	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%		0%	0%	0%	0%	0%
GSLD RATE CLASS								
(1) UTILITY NON RECURRING COST PER CUSTOMER	$6,310	$170		$170	$270		$1,540	$9,208
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0		$0	$0		$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$25,000	$1,000		$10,163	$11,000		$7,259	$180,025
(6) CUSTOMER O&M COST	$0	$0		$0	$0		$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$3,450	$151		$2,440	$580		$920	$89,600
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0		$0	$0		$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%		0%	0%		0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	1.884	1.576	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	1.60 %	*

* Values apply to first year only.

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C/I EFFICIENT
LIGHTING

COMMERCIAL/INDUSTRAL EFFICIENT LIGHTING

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	32,473	30,679	1.06	37,475	13,122	2.86	32,473	15,772	2.06
1997-2000	55,800	54,462	1.02	66,707	22,977	2.90	55,800	27,619	2.02
2001-2003	134,831	122,196	1.10	148,952	54,783	2.72	134,831	65,865	2.05
1995-2003	223,104	207,337	1.08	253,134	90,882	2.79	223,104	109,256	2.04

INPUT DATA – PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Ligom86 - Commercial Lighting

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.94	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.27	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	5,315.7	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	22	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.04857	
(5) K FACTOR FOR T & D	1.05867	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	2.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	0.34	%**

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 12

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* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Ligcm95 - Commercial Lighting

YEAR	*(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES $(000)	*(2) UTILITY INCENTIVES $(000)	*(3) OTHER UTILITY COSTS $(000)	*(4) TOTAL UTILITY PROGRAM COSTS $(000)	*(5) ENERGY CHARGE REVENUE LOSSES $(000)	*(6) DEMAND CHARGE REVENUE LOSSES $(000)	*(7) PARTICIPANT EQUIPMENT COSTS $(000)	*(8) PARTICIPANT O&M COSTS $(000)	*(9) OTHER PARTICIPANT COSTS $(000)	*(10) TOTAL PARTICIPANT COSTS $(000)
1994	0	0	0	0	0	0	0	0	0	0
1995	977	514	0	1,491	455	149	4,837	0	0	4,837
1996	1,011	514	0	1,526	1,414	447	5,006	0	0	5,006
1997	0	0	0	0	1,910	596	0	0	0	0
1998	0	0	0	0	1,947	602	0	0	0	0
1999	0	0	0	0	1,998	609	0	0	0	0
2000	0	0	0	0	2,064	619	0	0	0	0
2001	0	0	0	0	2,159	641	0	0	0	0
2002	0	0	0	0	2,253	672	0	0	0	0
2003	0	0	0	0	2,386	706	0	0	0	0
2004	0	0	0	0	2,468	728	0	0	0	0
2005	0	0	0	0	2,580	764	0	0	0	0
2006	0	0	0	0	2,663	807	0	0	0	0
2007	0	0	0	0	2,814	848	0	0	0	0
2008	0	0	0	0	2,923	883	0	0	0	0
2009	0	0	0	0	3,058	936	0	0	0	0
2010	1,896	514	0	2,412	3,162	974	9,366	0	0	9,366
2011	1,997	514	0	2,511	3,332	1,043	9,884	0	0	9,884
2012	0	0	0	0	3,497	1,075	0	0	0	0
2013	0	0	0	0	3,720	1,130	0	0	0	0
2014	0	0	0	0	3,823	1,203	0	0	0	0
2015	0	0	0	0	4,036	1,240	0	0	0	0
2016	0	0	0	0	4,299	1,300	0	0	0	0
NOM	5,883	2,057	0	7,940	58,008	17,970	29,123	0	0	29,123
NPV	2,651	1,142	0	3,793	20,808	6,279	13,122	0	0	13,122

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: Ligsm86 - Commercial Lighting

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	5,148	226	38	296	208	82	171	12	1,033	1,033	1,033
1998	4,930	217	37	284	120	82	171	60	1,001	916	1,950
1999	4,685	206	36	270	130	82	171	68	984	808	2,758
2000	4,450	196	34	256	130	82	171	60	929	713	3,471
2001	4,224	186	32	243	130	82	171	50	885	629	4,100
2002	4,007	176	30	231	130	82	171	42	862	555	4,655
2003	3,799	167	29	219	129	82	171	34	831	490	5,144
2004	3,597	158	27	207	128	82	171	27	801	432	5,576
2005	3,400	150	26	196	121	82	171	26	771	381	5,957
2006	3,203	141	24	185	113	82	171	26	742	335	6,292
2007	3,007	132	23	173	105	82	171	26	712	295	6,587
2008	2,810	124	21	162	97	82	171	26	683	259	6,845
2009	2,614	115	20	151	89	82	171	26	653	227	7,072
2010	2,417	106	18	139	81	82	171	26	624	198	7,270
2011	2,221	98	17	128	73	82	171	26	594	173	7,443
2012	2,024	89	15	117	65	82	171	26	565	150	7,593
2013	1,828	80	14	105	57	82	171	26	535	130	7,724
2014	1,631	72	12	94	49	82	171	26	506	113	7,837
2015	1,434	63	11	83	41	82	171	26	478	97	7,934
2016	1,238	54	9	71	32	82	171	26	447	84	8,017
2017	1,053	47	8	61	68	82	171	(17)	420	72	8,089
2018	931	41	7	54	107	82	171	(61)	401	63	8,152
2019	822	36	6	47	102	82	171	(61)	384	55	8,207
2020	712	31	5	41	98	82	171	(61)	368	48	8,256
2021	603	27	5	35	93	82	171	(61)	351	42	8,298
2022	493	22	4	28	89	82	171	(61)	335	37	8,335
2023	383	17	3	22	85	82	171	(61)	318	32	8,367
2024	274	12	2	16	80	82	171	(61)	302	28	8,395
2025	164	7	1	9	76	82	171	(61)	285	24	8,419
2026	55	2	0	3	71	82	171	(61)	268	21	8,440

IN SERVICE COST ($000)	5,116
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	2%	9.50 %
C/S	54%	12.00 %

K-FACTOR = CPWFC / IN SVC COST = 1.64957

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: Lgcm95 - Commercial Lighting

PSC FORM CE 1.1A
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	190	190	171	171	158	153	12	374	0	0	0	12
1998	7.22%	365	555	171	341	158	318	80	374	0	0	0	80
1999	6.68%	338	893	171	512	158	474	68	374	0	0	0	68
2000	6.18%	313	1,205	171	682	158	632	60	374	0	0	0	60
2001	5.71%	289	1,494	171	853	158	790	50	374	0	0	0	50
2002	5.29%	267	1,761	171	1,023	158	949	42	374	0	0	0	42
2003	4.89%	247	2,008	171	1,194	158	1,107	34	374	0	0	0	34
2004	4.52%	229	2,237	171	1,364	158	1,265	27	374	0	0	0	27
2005	4.46%	226	2,462	171	1,535	158	1,423	26	374	0	0	0	26
2006	4.46%	226	2,688	171	1,705	158	1,581	26	374	0	0	0	26
2007	4.46%	226	2,913	171	1,876	158	1,739	26	374	0	0	0	26
2008	4.46%	226	3,139	171	2,047	158	1,897	26	374	0	0	0	26
2009	4.46%	226	3,364	171	2,217	158	2,055	26	374	0	0	0	26
2010	4.46%	226	3,590	171	2,388	158	2,213	26	374	0	0	0	26
2011	4.46%	226	3,815	171	2,558	158	2,371	26	374	0	0	0	26
2012	4.46%	226	4,041	171	2,729	158	2,529	26	374	0	0	0	26
2013	4.46%	226	4,266	171	2,899	158	2,688	26	374	0	0	0	26
2014	4.46%	226	4,492	171	3,070	158	2,846	26	374	0	0	0	26
2015	4.46%	226	4,717	171	3,240	158	3,004	26	374	0	0	0	26
2016	4.46%	226	4,943	171	3,411	158	3,162	26	374	0	0	0	26
2017	2.25%	114	5,057	171	3,582	158	3,320	(17)	374	0	0	0	(17)
2018	0.00%	0	5,057	171	3,752	158	3,478	(61)	374	0	0	0	(61)
2019	0.00%	0	5,057	171	3,923	158	3,636	(61)	374	0	0	0	(61)
2020	0.00%	0	5,057	171	4,093	158	3,794	(61)	374	0	0	0	(61)
2021	0.00%	0	5,057	171	4,264	158	3,952	(61)	374	0	0	0	(61)
2022	0.00%	0	5,057	171	4,434	158	4,110	(61)	374	0	0	0	(61)
2023	0.00%	0	5,057	171	4,605	158	4,268	(61)	374	0	0	0	(61)
2024	0.00%	0	5,057	171	4,775	158	4,427	(61)	374	0	0	0	(61)
2025	0.00%	0	5,057	171	4,946	158	4,585	(61)	374	0	0	0	(61)
2026	0.00%	0	5,057	171	5,116	158	4,743	(61)	374	0	0	0	(61)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(121)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	374
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

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page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: Lgcm05 - Commercial Lighting

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
1997	3.75%	180	12	4,846	171	(108)	5,238	5,055	5,146
1998	7.22%	365	80	4,775	341	(29)	5,055	4,804	4,930
1999	6.68%	338	69	4,605	512	40	4,804	4,565	4,685
2000	6.18%	313	80	4,434	682	100	4,565	4,334	4,450
2001	5.71%	289	50	4,264	853	150	4,334	4,114	4,224
2002	5.28%	267	42	4,093	1,023	192	4,114	3,901	4,007
2003	4.89%	247	34	3,923	1,194	227	3,901	3,696	3,799
2004	4.52%	229	27	3,752	1,364	254	3,696	3,498	3,597
2005	4.46%	226	26	3,582	1,535	280	3,498	3,302	3,400
2006	4.46%	226	26	3,411	1,705	306	3,302	3,105	3,203
2007	4.46%	226	26	3,240	1,876	332	3,105	2,908	3,007
2008	4.46%	226	26	3,070	2,047	358	2,908	2,712	2,810
2009	4.46%	226	26	2,899	2,217	384	2,712	2,515	2,614
2010	4.46%	226	26	2,729	2,388	410	2,515	2,319	2,417
2011	4.46%	226	26	2,558	2,558	436	2,319	2,122	2,221
2012	4.46%	226	26	2,388	2,729	462	2,122	1,926	2,024
2013	4.46%	226	26	2,217	2,899	488	1,926	1,729	1,828
2014	4.46%	226	26	2,047	3,070	514	1,729	1,533	1,631
2015	4.46%	226	26	1,876	3,240	540	1,533	1,336	1,434
2016	4.46%	226	26	1,705	3,411	566	1,336	1,140	1,238
2017	2.25%	114	(17)	1,535	3,582	549	1,140	966	1,053
2018	0.00%	0	(61)	1,364	3,752	488	966	877	921
2019	0.00%	0	(61)	1,194	3,923	427	877	787	822
2020	0.00%	0	(61)	1,023	4,093	366	787	657	712
2021	0.00%	0	(61)	853	4,264	305	657	548	603
2022	0.00%	0	(61)	682	4,434	244	548	438	493
2023	0.00%	0	(61)	512	4,605	183	438	329	383
2024	0.00%	0	(61)	341	4,775	122	329	219	274
2025	0.00%	0	(61)	171	4,946	61	219	110	164
2026	0.00%	0	(61)	0	5,116	0	110	0	55

* Column not specified in workbook

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(1) YEAR	(2) NO YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($/kW)	(7) CUMULATIVE AVERAGE SPENDING ($/kW)
1994	-3	0.00%	1.000	13.81%	54.53	27.27
1995	-2	2.60%	1.026	44.55%	179.18	144.12
1996	-1	2.63%	1.053	41.64%	171.47	319.45
				100.00%	405.18	

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 ($/kW)	(10) NOREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-3	27.27	1.20	1.20	2.66	2.66	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	18.11	14.68	17.41	(3.16)	(3.75)	195.31	252.82
1996	-1	336.55	15.06	22.76	37.39	56.48	33.69	51.10	(7.18)	(10.93)	208.85	461.67
			22.76	31.66	56.48		51.10		(10.93)		461.67	

		BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
IN SERVICE YEA	1997	CONSTRUCTION CASH	4,490	4,490
PLANT COSTS	392	EQUITY AFUDC	374	
AFUDC RATE	10.92%	DEBT AFUDC	252	252
		CPI		566
		TOTAL	5,116	5,057

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* Column not specified in workbook

INPUT DATA - PART 2
PROGRAM METHOD SELECTED : REV REQ
PROGRAM NAME Lgcm05 - Commercial Lighting

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.03	1.89	0.00	1.00	1.00
1995	4,372	4,373	0.00	3.31	1.92	0.00	1.00	1.00
1996	8,745	8,745	0.00	3.31	1.92	0.00	1.00	1.00
1997	8,745	8,745	0.00	3.53	2.03	4.28	1.00	1.00
1998	8,745	8,745	0.00	3.73	2.04	4.25	1.00	1.00
1999	8,745	8,745	0.00	4.22	2.19	7.85	1.00	1.00
2000	8,745	8,745	0.00	4.37	2.43	8.21	1.00	1.00
2001	8,745	8,745	0.00	4.80	2.52	8.42	1.00	1.00
2002	8,745	8,745	0.00	5.14	2.58	8.98	1.00	1.00
2003	8,745	8,745	0.00	5.65	2.77	9.28	1.00	1.00
2004	8,745	8,745	0.00	6.13	2.84	9.60	1.00	1.00
2005	8,745	8,745	0.00	6.42	3.14	9.82	1.00	1.00
2006	8,745	8,745	0.00	6.76	3.30	9.52	1.00	1.00
2007	8,745	8,745	0.00	7.37	3.57	9.70	1.00	1.00
2008	8,745	8,745	0.00	7.76	3.81	10.08	1.00	1.00
2009	8,745	8,745	0.00	7.86	3.92	10.57	1.00	1.00
2010	8,745	8,745	0.00	8.51	4.18	10.66	1.00	1.00
2011	8,745	8,745	0.00	8.97	4.14	11.45	1.00	1.00
2012	8,745	8,745	0.00	9.36	4.53	12.64	1.00	1.00
2013	8,745	8,745	0.00	10.02	4.82	13.05	1.00	1.00
2014	8,745	8,745	0.00	10.57	4.88	13.71	1.00	1.00
2015	8,745	8,745	0.00	11.05	5.18	14.19	1.00	1.00
2016	8,745	8,745	0.00	11.66	5.39	15.01	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

0314

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Ligom05 - Commercial Lighting

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	1,033	291	0.015	5	5	1,324
1998	1,001	304	0.017	5	6	1,304
1999	964	317	0.094	29	56	1,255
2000	929	332	0.007	2	4	1,258
2001	895	348	0.011	4	7	1,240
2002	862	364	0.012	4	7	1,223
2003	831	380	0.022	8	13	1,207
2004	801	397	0.037	14	21	1,190
2005	771	415	0.022	8	12	1,182
2006	742	435	0.019	7	10	1,174
2007	712	455	0.035	14	18	1,183
2008	683	477	0.035	14	18	1,158
2009	653	501	0.020	8	10	1,152
2010	624	527	0.084	34	40	1,144
2011	594	554	0.072	30	36	1,142
2012	565	583	0.095	39	49	1,138
2013	535	614	0.120	50	61	1,139
2014	506	647	0.121	50	61	1,142
2015	476	681	0.118	50	58	1,147
2016	447	716	0.148	61	73	1,151
NOM	14,624	9,337	1.105	437	565	23,833
NPV	6,153	3,071	0.306	115	158	9,180

0315

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Ligom95 - Commercial Lighting

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	21	3	24	9	14	23	384	0
1996	42	7	48	18	29	48	1,154	0
1997	41	7	48	18	30	48	1,539	0
1998	39	8	47	18	31	48	1,725	0
1999	38	8	46	17	33	50	1,863	0
2000	37	8	45	16	34	51	2,031	0
2001	36	8	44	16	36	52	2,231	0
2002	34	8	43	15	38	53	2,399	0
2003	33	8	43	15	39	54	2,627	0
2004	32	10	42	14	41	56	2,852	0
2005	31	10	41	14	43	57	2,883	0
2006	30	11	41	13	45	58	3,143	0
2007	29	11	40	13	47	60	3,427	0
2008	28	12	39	12	50	62	3,608	0
2009	26	12	38	12	52	64	3,653	0
2010	25	13	38	11	55	66	3,954	0
2011	24	14	38	11	57	68	4,168	0
2012	23	15	38	10	61	71	4,349	0
2013	22	15	37	10	64	74	4,656	0
2014	21	16	37	9	67	76	4,913	0
2015	20	17	37	9	71	79	5,137	0
2016	18	18	37	8	74	83	5,419	0
NOM	650	243	892	290	1,012	1,302	68,421	0
NPV	300	85	385	134	356	490	22,418	0

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

0316

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME Lgcm95 - Commercial Lighting

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	877	4,837	0	5,814	0	49	384	0	432	(5,382)	(4,927)
1996	0	1,011	5,006	0	6,017	0	87	1,164	0	1,251	(4,766)	(8,923)
1997	0	0	0	0	0	1,324	96	1,639	0	3,060	3,060	(5,575)
1998	0	0	0	0	0	1,304	96	1,725	0	3,125	3,125	(4,372)
1999	0	0	0	0	0	1,255	96	1,963	0	3,314	3,314	(2,240)
2000	0	0	0	0	0	1,259	96	2,031	0	3,386	3,386	(246)
2001	0	0	0	0	0	1,240	96	2,231	0	3,567	3,567	1,677
2002	0	0	0	0	0	1,223	96	2,390	0	3,709	3,709	3,509
2003	0	0	0	0	0	1,207	97	2,627	0	3,930	3,930	5,298
2004	0	0	0	0	0	1,190	97	2,852	0	4,140	4,140	6,999
2005	0	0	0	0	0	1,182	98	2,983	0	4,264	4,264	8,614
2006	0	0	0	0	0	1,174	99	3,143	0	4,416	4,416	10,146
2007	0	0	0	0	0	1,163	100	3,427	0	4,690	4,690	11,636
2008	0	0	0	0	0	1,156	101	3,808	0	4,865	4,865	13,051
2009	0	0	0	0	0	1,152	103	3,853	0	4,908	4,908	14,358
2010	0	1,898	9,396	0	11,294	1,144	104	3,954	0	5,203	(6,091)	12,873
2011	0	1,997	9,884	0	11,881	1,142	106	4,168	0	5,418	(6,463)	11,431
2012	0	0	0	0	0	1,138	108	4,349	0	5,596	5,596	12,574
2013	0	0	0	0	0	1,139	111	4,658	0	5,909	5,909	13,680
2014	0	0	0	0	0	1,142	113	4,913	0	6,168	6,168	14,726
2015	0	0	0	0	0	1,147	116	5,137	0	6,400	6,400	15,740
2016	0	0	0	0	0	1,151	118	5,419	0	6,689	6,689	16,700
NOM	0	5,883	29,123	0	35,006	23,833	2,195	68,421	0	94,448	59,443	
NPV	0	2,851	13,122	0	15,772	9,180	875	22,418	0	32,473	16,700	

Discount Rate 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) 2.06

0317

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Ligcm95 - Commercial Lighting

PSC FORM CE 2.4
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(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	816	0	$14	0	1,331	4,837	0	0	4,837	(3,506)	(3,210)
1996	2,515	0	$14	0	3,029	5,006	0	0	5,006	(1,977)	(4,868)
1997	3,386	0	0	0	3,386	0	0	0	0	3,386	(2,269)
1998	3,444	0	0	0	3,444	0	0	0	0	3,444	151
1999	3,524	0	0	0	3,524	0	0	0	0	3,524	2,417
2000	3,626	0	0	0	3,626	0	0	0	0	3,626	4,553
2001	3,785	0	0	0	3,785	0	0	0	0	3,785	6,594
2002	3,953	0	0	0	3,953	0	0	0	0	3,953	8,548
2003	4,179	0	0	0	4,179	0	0	0	0	4,179	10,425
2004	4,317	0	0	0	4,317	0	0	0	0	4,317	12,202
2005	4,491	0	0	0	4,491	0	0	0	0	4,491	13,923
2006	4,688	0	0	0	4,688	0	0	0	0	4,688	15,588
2007	4,947	0	0	0	4,947	0	0	0	0	4,947	17,121
2008	5,143	0	0	0	5,143	0	0	0	0	5,143	18,617
2009	5,387	0	0	0	5,387	0	0	0	0	5,387	20,054
2010	5,509	0	$14	0	6,104	8,396	0	0	8,396	(3,291)	18,252
2011	5,812	0	$14	0	6,427	8,884	0	0	8,884	(3,458)	16,480
2012	6,178	0	0	0	6,178	0	0	0	0	6,178	18,743
2013	6,554	0	0	0	6,554	0	0	0	0	6,554	20,988
2014	6,927	0	0	0	6,927	0	0	0	0	6,927	22,155
2015	7,130	0	0	0	7,130	0	0	0	0	7,130	23,273
2016	7,525	0	0	0	7,525	0	0	0	0	7,525	24,354
NOM	104,026	0	2,057	0	106,084	29,123	0	0	29,123	76,961	
NPV	36,333	0	1,142	0	37,475	13,122	0	0	13,122	24,354	

In Service at Gen Unit: 1997

Discount Rate: 9.22

Benefit/Cost Ratio (Col(6) / Col(10)): 2.86

0318

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Ltgcml85 - Commercial Lighting

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	977	514	604	0	2,095	364	48	0	0	432	(1,663)	(1,523)
1996	0	1,011	514	1,861	0	3,386	1,154	97	0	0	1,251	(2,135)	(3,312)
1997	0	0	0	2,508	0	2,508	2,963	98	0	0	3,060	554	(2,887)
1998	0	0	0	2,548	0	2,548	3,039	96	0	0	3,135	586	(2,476)
1999	0	0	0	2,607	0	2,607	3,219	96	0	0	3,314	707	(2,021)
2000	0	0	0	2,683	0	2,683	3,289	96	0	0	3,385	702	(1,607)
2001	0	0	0	2,801	0	2,801	3,471	96	0	0	3,567	766	(1,194)
2002	0	0	0	2,925	0	2,925	3,613	96	0	0	3,709	784	(807)
2003	0	0	0	3,092	0	3,092	3,833	97	0	0	3,930	838	(429)
2004	0	0	0	3,194	0	3,194	4,042	97	0	0	4,140	945	(37)
2005	0	0	0	3,323	0	3,323	4,185	88	0	0	4,264	940	219
2006	0	0	0	3,470	0	3,470	4,317	99	0	0	4,416	946	647
2007	0	0	0	3,661	0	3,661	4,581	100	0	0	4,680	1,020	974
2008	0	0	0	3,806	0	3,806	4,764	101	0	0	4,865	1,059	1,262
2009	0	0	0	3,994	0	3,994	4,805	103	0	0	4,908	914	1,526
2010	0	1,808	514	4,137	0	6,549	5,098	104	0	0	5,203	(1,346)	1,198
2011	0	1,907	514	4,375	0	6,886	5,312	106	0	0	5,418	(1,468)	870
2012	0	0	0	4,571	0	4,571	5,487	108	0	0	5,596	1,024	1,079
2013	0	0	0	4,850	0	4,850	5,798	111	0	0	5,909	1,058	1,277
2014	0	0	0	5,126	0	5,126	6,054	113	0	0	6,168	1,042	1,456
2015	0	0	0	5,276	0	5,276	6,294	116	0	0	6,409	1,134	1,632
2016	0	0	0	5,569	0	5,569	6,570	119	0	0	6,689	1,121	1,793
NOM	0	5,883	2,057	76,979	0	84,920	92,254	2,195	0	0	94,447	9,529	
NPV	0	2,651	1,142	26,887	0	30,679	31,598	875	0	0	32,473	1,793	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.06

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: LTOCM01R

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.94	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.27	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	5,315.7	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85690	
(5) K FACTOR FOR T & D	1.86667	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.02	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	0.34	%**

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 12

0321

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: LTGCM01R

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	1,050	0	0	0	0	0	0	0	0	0
1998	1,094	514	0	0	0	0	0	0	0	0
1999	1,143	514	0	1,564	478	152	0	0	0	0
2000	1,198	514	0	1,608	1,460	455	5,196	0	0	5,196
2001	0	0	0	1,657	2,499	785	5,415	0	0	5,415
2002	0	0	0	1,710	3,613	1,087	5,858	0	0	5,858
2003	0	0	0	0	4,319	1,283	5,919	0	0	5,919
2004	0	0	0	0	4,509	1,345	0	0	0	0
2005	0	0	0	0	4,772	1,412	0	0	0	0
2006	0	0	0	0	4,932	1,458	0	0	0	0
2007	0	0	0	0	5,119	1,527	0	0	0	0
2008	0	0	0	0	5,329	1,614	0	0	0	0
2009	0	0	0	0	5,629	1,693	0	0	0	0
2010	0	0	0	0	5,849	1,788	0	0	0	0
2011	0	0	0	0	6,117	1,871	0	0	0	0
2012	2,102	0	0	0	6,324	1,948	0	0	0	0
2013	2,214	514	0	0	6,663	2,057	0	0	0	0
2014	2,331	514	0	2,617	6,903	2,150	0	0	0	0
2015	2,452	514	0	2,728	7,441	2,259	10,408	0	0	10,408
2016	0	0	0	2,846	7,846	2,408	10,980	0	0	10,980
2017	0	0	0	2,967	8,072	2,479	11,541	0	0	11,541
2018	0	0	0	0	8,537	2,600	12,141	0	0	12,141
2019	0	0	0	0	8,953	2,750	0	0	0	0
2020	0	0	0	0	9,306	2,873	0	0	0	0
				0	9,703	2,978	0	0	0	0
					10,191	3,160	0	0	0	0
NOM	13,582	4,115	0	17,866	144,735	44,123	67,237	0	0	67,237
NPV	4,641	1,790	0	6,401	36,875	11,188	22,977	0	0	22,977

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

0322

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: LTGCM01R

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	18,999	748	129	979	664	271	581	42	3,415	3,415	3,415
2002	16,285	717	124	938	632	271	581	264	3,307	3,029	6,443
2003	15,477	681	118	891	601	271	581	230	3,188	2,671	9,114
2004	14,702	647	112	847	434	271	581	196	3,070	2,356	11,470
2005	13,958	614	106	804	434	271	581	166	2,950	2,079	13,548
2006	13,242	583	101	763	432	271	581	140	2,851	1,834	15,382
2007	12,553	552	95	723	429	271	581	115	2,747	1,618	17,000
2008	11,889	523	90	685	425	271	581	91	2,647	1,428	18,428
2009	11,238	494	85	647	403	271	581	68	2,550	1,259	19,687
2010	10,589	466	80	610	378	271	581	66	2,452	1,109	20,795
2011	8,940	437	76	573	349	271	581	66	2,355	975	21,770
2012	8,291	408	71	535	323	271	581	66	2,257	856	22,625
2013	8,643	380	66	498	296	271	581	66	2,160	749	23,375
2014	7,994	352	61	460	270	271	581	66	2,063	656	24,030
2015	7,345	323	56	423	243	271	581	66	1,965	572	24,602
2016	6,696	295	51	386	217	271	581	66	1,868	497	25,099
2017	6,047	266	46	348	190	271	581	66	1,770	432	25,530
2018	5,398	238	41	311	163	271	581	66	1,673	373	25,904
2019	4,748	209	36	274	137	271	581	66	1,575	322	26,226
2020	4,100	180	31	236	110	271	581	66	1,478	277	26,502
2021	3,522	155	27	203	226	271	581	(54)	1,381	238	26,741
2022	3,067	135	23	178	354	271	581	(198)	1,326	208	26,949
2023	2,724	120	21	157	340	271	581	(198)	1,271	183	27,131
2024	2,381	104	18	138	325	271	581	(198)	1,217	160	27,291
2025	1,998	88	15	115	310	271	581	(198)	1,162	140	27,431
2026	1,634	72	12	94	295	271	581	(198)	1,108	122	27,553
2027	1,271	56	10	73	280	271	581	(198)	1,053	106	27,659
2028	908	40	7	52	265	271	581	(198)	999	92	27,752
2029	545	24	4	31	250	271	581	(198)	944	80	27,831
2030	182	8	1	10	236	271	581	(198)	889	69	27,900

IN SERVICE COST ($000)	18,839
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	13.00 %

K-FACTOR = CPW/C / IN-SVC COST = 1.85690

0323

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:LTGCM01R

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	623	623	581	581	$14	$14	42	1,432	0	0	0	42
2002	7.22%	1,199	1,822	581	1,123	$14	1,027	264	1,432	0	0	0	264
2003	6.68%	1,109	2,931	581	1,684	$14	1,541	230	1,432	0	0	0	230
2004	6.18%	1,026	3,957	581	2,245	$14	2,054	186	1,432	0	0	0	186
2005	5.71%	948	4,906	581	2,816	$14	2,568	166	1,432	0	0	0	166
2006	5.29%	877	5,782	581	3,368	$14	3,081	140	1,432	0	0	0	140
2007	4.89%	812	6,594	581	3,929	$14	3,595	115	1,432	0	0	0	115
2008	4.52%	751	7,344	581	4,490	$14	4,108	91	1,432	0	0	0	91
2009	4.46%	741	8,085	581	5,052	$14	4,622	88	1,432	0	0	0	88
2010	4.46%	741	8,826	581	5,613	$14	5,136	88	1,432	0	0	0	88
2011	4.46%	741	9,566	581	6,174	$14	5,649	88	1,432	0	0	0	88
2012	4.46%	741	10,307	581	6,736	$14	6,163	88	1,432	0	0	0	88
2013	4.46%	741	11,047	581	7,297	$14	6,678	88	1,432	0	0	0	88
2014	4.46%	741	11,788	581	7,858	$14	7,190	88	1,432	0	0	0	88
2015	4.46%	741	12,529	581	8,419	$14	7,703	88	1,432	0	0	0	88
2016	4.46%	741	13,269	581	8,981	$14	8,217	88	1,432	0	0	0	88
2017	4.46%	741	14,010	581	9,542	$14	8,730	88	1,432	0	0	0	88
2018	4.46%	741	14,750	581	10,103	$14	9,244	88	1,432	0	0	0	88
2019	4.46%	741	15,491	581	10,665	$14	9,758	88	1,432	0	0	0	88
2020	4.46%	741	16,231	581	11,226	$14	10,271	88	1,432	0	0	0	88
2021	2.25%	374	16,605	581	11,787	$14	10,785	(54)	1,432	0	0	0	(54)
2022	0.00%	0	16,605	581	12,348	$14	11,298	(100)	1,432	0	0	0	(100)
2023	0.00%	0	16,605	581	12,910	$14	11,812	(100)	1,432	0	0	0	(100)
2024	0.00%	0	16,605	581	13,471	$14	12,325	(100)	1,432	0	0	0	(100)
2025	0.00%	0	16,605	581	14,032	$14	12,839	(100)	1,432	0	0	0	(100)
2026	0.00%	0	16,605	581	14,594	$14	13,352	(100)	1,432	0	0	0	(100)
2027	0.00%	0	16,605	581	15,155	$14	13,866	(100)	1,432	0	0	0	(100)
2028	0.00%	0	16,605	581	15,716	$14	14,380	(100)	1,432	0	0	0	(100)
2029	0.00%	0	16,605	581	16,278	$14	14,893	(100)	1,432	0	0	0	(100)
2030	0.00%	0	16,605	581	16,839	$14	15,407	(100)	1,432	0	0	0	(100)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(462)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,432
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0324

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: LTGCM01R

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
2001	3.75%	623	42	16,278	561	(420)	17,301	16,898	16,899
2002	7.22%	1,199	264	15,718	1,123	(156)	16,898	15,672	16,285
2003	6.68%	1,109	230	15,155	1,884	74	15,672	15,081	15,477
2004	6.18%	1,026	198	14,594	2,245	272	15,081	14,322	14,702
2005	5.71%	948	166	14,032	2,808	439	14,322	13,593	13,958
2006	5.29%	877	140	13,471	3,368	579	13,593	12,892	13,242
2007	4.89%	812	115	12,910	3,929	695	12,892	12,215	12,553
2008	4.52%	751	91	12,348	4,490	786	12,215	11,583	11,899
2009	4.46%	741	88	11,787	5,052	874	11,583	10,914	11,248
2010	4.46%	741	88	11,226	5,613	961	10,914	10,265	10,589
2011	4.46%	741	88	10,665	6,174	1,049	10,265	9,616	9,940
2012	4.46%	741	88	10,103	6,736	1,136	9,616	8,967	9,291
2013	4.46%	741	88	9,542	7,297	1,224	8,967	8,318	8,643
2014	4.46%	741	88	8,981	7,858	1,311	8,318	7,669	7,994
2015	4.46%	741	88	8,419	8,419	1,399	7,669	7,020	7,345
2016	4.46%	741	88	7,858	8,981	1,487	7,020	6,372	6,696
2017	4.46%	741	88	7,297	9,542	1,574	6,372	5,723	6,047
2018	4.46%	741	88	6,736	10,103	1,662	5,723	5,074	5,398
2019	4.46%	741	88	6,174	10,665	1,749	5,074	4,425	4,749
2020	4.46%	741	88	5,613	11,226	1,837	4,425	3,776	4,100
2021	2.25%	374	(54)	5,052	11,787	1,763	3,776	3,288	3,532
2022	0.00%	0	(198)	4,490	12,348	1,585	3,288	2,906	3,097
2023	0.00%	0	(198)	3,929	12,910	1,387	2,906	2,542	2,724
2024	0.00%	0	(198)	3,368	13,471	1,189	2,542	2,179	2,361
2025	0.00%	0	(198)	2,808	14,032	991	2,179	1,816	1,998
2026	0.00%	0	(198)	2,245	14,594	792	1,816	1,453	1,634
2027	0.00%	0	(198)	1,684	15,155	594	1,453	1,090	1,271
2028	0.00%	0	(198)	1,123	15,716	396	1,090	726	908
2029	0.00%	0	(198)	561	16,278	198	726	363	545
2030	0.00%	0	(198)	0	16,839	0	363	0	182

* Column not specified in workbook

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(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($/kW)	(7) CUMULATIVE AVERAGE SPENDING ($/kW)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	1.60%	1.021	0.00%	0.00	0.00
1996	-5	2.62%	1.053	0.84%	4.92	2.46
1997	-4	3.15%	1.086	1.66%	10.03	6.83
1998	-3	3.62%	1.126	13.00%	81.35	55.62
1999	-2	3.85%	1.169	60.50%	383.17	292.88
2000	-1	3.88%	1.214	24.00%	182.01	570.17
				100.00%	851.48	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.46	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.20	0.45	0.58	1.12	1.39	1.02	1.28	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.95	(1.22)	(1.49)	87.81	103.94
1999	-2	300.52	13.29	16.37	32.98	40.62	29.96	36.84	(6.44)	(7.93)	426.15	530.09
2000	-1	811.10	27.24	43.61	67.60	108.22	80.74	87.68	(12.82)	(20.86)	229.81	759.70
			43.61	83.72	108.22		97.68		(20.86)		759.70	

IN SERVICE YEA	2001
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	14,440	14,440	14,440
EQUITY AFUDC	1,432		
DEBT AFUDC	967	967	
CPI			2,165
TOTAL	16,839	15,407	16,605

0226

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME LTGCM01R

PSC FORM DE 1.2
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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.03	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.31	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.31	1.92	0.00	1.00	1.00
1997	4,373	4,373	0.00	3.53	2.03	0.00	1.00	1.00
1998	8,745	8,745	0.00	3.73	2.04	0.00	1.00	1.00
1999	13,118	13,118	0.00	4.22	2.19	0.00	1.00	1.00
2000	17,490	17,490	0.00	4.37	2.43	0.00	1.00	1.00
2001	17,490	17,490	0.00	4.80	2.52	5.01	1.00	1.00
2002	17,490	17,490	0.00	5.14	2.59	5.43	1.00	1.00
2003	17,490	17,490	0.00	5.65	2.77	5.37	1.00	1.00
2004	17,490	17,490	0.00	6.13	2.84	5.95	1.00	1.00
2005	17,490	17,490	0.00	6.42	3.14	5.89	1.00	1.00
2006	17,490	17,490	0.00	6.79	3.30	6.32	1.00	1.00
2007	17,490	17,490	0.00	7.37	3.57	6.85	1.00	1.00
2008	17,490	17,490	0.00	7.78	3.81	7.04	1.00	1.00
2009	17,490	17,490	0.00	7.86	3.92	7.57	1.00	1.00
2010	17,490	17,490	0.00	8.51	4.18	8.37	1.00	1.00
2011	17,490	17,490	0.00	8.97	4.14	8.53	1.00	1.00
2012	17,490	17,490	0.00	9.36	4.53	8.99	1.00	1.00
2013	17,490	17,490	0.00	10.02	4.82	9.57	1.00	1.00
2014	17,490	17,490	0.00	10.57	4.86	10.14	1.00	1.00
2015	17,490	17,490	0.00	11.05	5.18	10.51	1.00	1.00
2016	17,490	17,490	0.00	11.66	5.39	11.12	1.00	1.00
2017	17,490	17,490	0.00	12.22	5.68	11.73	1.00	1.00
2018	17,490	17,490	0.00	12.22	5.92	12.38	1.00	1.00
2019	17,490	17,490	0.00	12.89	6.19	13.06	1.00	1.00
2020	17,490	17,490	0.00	13.60	6.48	13.77	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 LTGCM01R

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	3,415	612	24,009	2,296	5,040	2,307
2002	3,307	640	26,144	3,727	5,662	2,028
2003	3,186	668	27,614	4,087	5,678	2,302
2004	3,070	659	29,065	4,479	6,342	1,935
2005	2,958	733	26,394	4,448	5,999	2,299
2006	2,851	764	26,107	4,117	5,529	2,229
2007	2,747	800	23,108	3,717	4,922	2,308
2008	2,647	840	21,835	3,564	4,649	2,414
2009	2,550	882	24,020	3,897	5,285	2,167
2010	2,452	927	25,165	4,217	5,824	1,798
2011	2,355	975	18,812	3,157	4,173	2,332
2012	2,257	1,026	15,126	2,577	3,392	2,484
2013	2,160	1,081	15,349	2,629	3,483	2,403
2014	2,063	1,138	16,746	2,872	3,825	2,266
2015	1,965	1,197	19,576	3,369	4,404	2,147
2016	1,868	1,260	18,715	3,214	4,238	2,124
2017	1,770	1,325	18,060	3,245	4,303	2,058
2018	1,673	1,394	19,714	3,383	4,488	1,983
2019	1,575	1,466	21,370	3,631	4,876	1,818
2020	1,478	1,543	22,457	3,604	5,138	1,709
NOM	48,348	18,967	441,884	71,521	97,139	43,141
NPV	14,292	4,581	124,574	18,589	26,991	11,588

0328

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: LTGCM01R

FSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	22	4	26	10	15	25	410	0
1998	44	8	52	20	31	51	1,301	0
1999	66	12	78	30	49	79	2,454	0
2000	88	17	105	39	69	108	3,554	0
2001	86	17	103	38	72	110	4,462	0
2002	83	18	101	37	75	112	4,780	0
2003	80	19	99	36	79	115	5,253	0
2004	77	20	97	34	82	117	5,704	0
2005	74	21	95	33	86	119	5,998	0
2006	72	22	94	32	90	122	6,298	0
2007	70	23	92	31	94	125	6,955	0
2008	67	24	91	30	99	129	7,215	0
2009	65	25	90	29	104	133	7,305	0
2010	62	26	88	28	109	137	7,909	0
2011	60	28	87	27	115	142	8,339	0
2012	57	29	86	26	121	147	8,866	0
2013	55	31	86	25	127	152	9,319	0
2014	53	32	85	24	134	158	9,825	0
2015	50	34	84	22	141	164	10,272	0
2016	48	35	83	21	149	170	10,839	0
2017	46	37	83	20	158	177	11,384	0
2018	43	39	83	19	164	184	11,384	0
2019	41	41	83	18	173	191	11,869	0
2020	39	44	83	18	182	200	12,647	0
NOM.	1,447	804	2,051	647	2,520	3,167	174,111	0
NPV	503	155	658	225	847	872	42,664	0

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

0329

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME LTGCM01R

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	1,050	5,198	0	6,248	0	51	410	0	460	(5,788)	(4,440)
1998	0	1,084	5,415	0	6,509	0	103	1,301	0	1,404	(5,105)	(8,027)
1999	0	1,143	5,658	0	6,801	0	157	2,454	0	2,611	(4,190)	(10,723)
2000	0	1,198	5,919	0	7,114	0	213	3,554	0	3,767	(3,347)	(12,895)
2001	0	0	0	0	0	2,307	213	4,462	0	6,982	6,982	(8,430)
2002	0	0	0	0	0	2,028	213	4,780	0	7,021	7,021	(5,463)
2003	0	0	0	0	0	2,302	212	5,253	0	7,766	7,766	(1,952)
2004	0	0	0	0	0	1,935	214	5,704	0	7,853	7,853	1,299
2005	0	0	0	0	0	2,298	215	5,966	0	8,477	8,477	4,511
2006	0	0	0	0	0	2,229	216	6,286	0	8,731	8,731	7,540
2007	0	0	0	0	0	2,308	218	6,855	0	9,438	9,438	10,538
2008	0	0	0	0	0	2,414	220	7,215	0	9,849	9,849	13,402
2009	0	0	0	0	0	2,187	222	7,305	0	9,895	9,895	15,983
2010	0	0	0	0	0	1,798	226	7,909	0	9,932	9,932	18,405
2011	0	0	0	0	0	2,332	229	8,339	0	10,900	10,900	20,857
2012	0	2,102	10,409	0	12,511	2,484	233	8,698	0	11,415	(1,096)	20,014
2013	0	2,214	10,960	0	13,174	2,403	238	9,218	0	11,859	(1,314)	20,398
2014	0	2,331	11,541	0	13,872	2,295	243	9,825	0	12,332	(1,539)	20,123
2015	0	2,452	12,141	0	14,593	2,147	248	10,273	0	12,668	(1,925)	19,021
2016	0	0	0	0	0	2,124	253	10,839	0	13,216	13,216	21,719
2017	0	0	0	0	0	2,006	259	11,304	0	13,570	13,570	1,799
2018	0	0	0	0	0	1,903	266	11,304	0	13,583	13,583	1,636
2019	0	0	0	0	0	1,818	274	11,888	0	14,000	14,000	1,502
2020	0	0	0	0	0	1,709	283	12,647	0	14,638	14,638	1,477
NOM	0	13,582	67,237	0	80,819	43,141	5,218	174,111	0	222,470	141,651	
NPV	0	4,841	22,977	0	27,819	11,588	1,531	42,864	0	55,900	28,181	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 2.02

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME LTGCM01R

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(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED JET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	851	0	$14	0	1,365	5,198	0	0	5,198	(3,831)	(2,940)
1998	2,587	0	$14	0	3,101	5,415	0	0	5,415	(2,313)	(4,566)
1999	4,409	0	$14	0	4,923	5,658	0	0	5,658	(735)	(5,030)
2000	6,360	0	$14	0	6,865	5,919	0	0	5,919	946	(4,482)
2001	7,570	0	0	0	7,570	0	0	0	0	7,570	(400)
2002	7,808	0	0	0	7,808	0	0	0	0	7,808	3,564
2003	8,357	0	0	0	8,357	0	0	0	0	8,357	7,282
2004	8,833	0	0	0	8,833	0	0	0	0	8,833	10,855
2005	8,982	0	0	0	8,982	0	0	0	0	8,982	14,258
2006	9,379	0	0	0	9,379	0	0	0	0	9,379	17,512
2007	9,894	0	0	0	9,894	0	0	0	0	9,894	20,855
2008	10,299	0	0	0	10,299	0	0	0	0	10,299	23,849
2009	10,795	0	0	0	10,795	0	0	0	0	10,795	26,520
2010	11,180	0	0	0	11,180	0	0	0	0	11,180	29,240
2011	11,824	0	0	0	11,824	0	0	0	0	11,824	31,885
2012	12,355	0	$14	0	12,869	10,408	0	0	10,408	2,461	32,380
2013	13,108	0	$14	0	13,622	10,960	0	0	10,960	2,663	32,886
2014	13,854	0	$14	0	14,368	11,541	0	0	11,541	2,827	33,370
2015	14,258	0	$14	0	14,774	12,141	0	0	12,141	2,633	33,783
2016	15,051	0	0	0	15,051	0	0	0	0	15,051	35,944
2017	15,827	0	0	0	15,827	0	0	0	0	15,827	2,061
2018	16,583	0	0	0	16,583	0	0	0	0	16,583	1,906
2019	17,133	0	0	0	17,133	0	0	0	0	17,133	1,666
2020	18,041	0	0	0	18,041	0	0	0	0	18,041	1,620
NOM	256,214	0	4,115	0	259,329	67,237	0	0	67,237	192,091	
NPV	64,947	0	1,760	0	66,707	22,877	0	0	22,877	43,729	

In Service of Gen Unit: 2001

Discount Rate : 9.22

Benefit/Cost Ratio (Col(6) / Col(10)): 2.90

0331

RATE IMPACT TEST
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME LTGCM01R

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	1,050	$14	630	0	2,194	410	$1	0	0	400	(1,733)	(1,330)
1998	0	1,094	$14	1,914	0	3,523	1,301	103	0	0	1,404	(2,119)	(2,819)
1999	0	1,143	$14	3,263	0	4,920	2,454	157	0	0	2,611	(2,309)	(4,304)
2000	0	1,196	$14	4,989	0	6,409	3,554	213	0	0	3,767	(2,642)	(5,661)
2001	0	0	0	5,802	0	5,802	6,789	213	0	0	6,982	1,380	(5,116)
2002	0	0	0	5,850	0	5,850	6,808	213	0	0	7,021	1,170	(4,539)
2003	0	0	0	6,184	0	6,184	7,555	213	0	0	7,768	1,584	(3,822)
2004	0	0	0	6,389	0	6,389	7,639	214	0	0	7,853	1,464	(3,216)
2005	0	0	0	6,646	0	6,646	8,262	215	0	0	8,477	1,830	(2,523)
2006	0	0	0	6,940	0	6,940	8,515	216	0	0	8,731	1,791	(1,901)
2007	0	0	0	7,321	0	7,321	9,221	218	0	0	9,438	2,117	(1,229)
2008	0	0	0	7,612	0	7,612	9,629	220	0	0	9,849	2,237	(578)
2009	0	0	0	7,988	0	7,988	9,472	222	0	0	9,695	1,707	(124)
2010	0	0	0	8,273	0	8,273	9,706	226	0	0	9,932	1,659	281
2011	0	0	0	8,750	0	8,750	10,671	229	0	0	10,900	2,150	760
2012	0	2,102	$14	9,143	0	11,760	11,182	233	0	0	11,415	(345)	660
2013	0	2,214	$14	8,700	0	12,428	11,722	236	0	0	11,959	(469)	602
2014	0	2,331	$14	10,252	0	13,097	12,090	243	0	0	12,332	(765)	471
2015	0	2,452	$14	10,552	0	13,519	12,421	248	0	0	12,668	(850)	338
2016	0	0	0	11,136	0	11,136	12,963	253	0	0	13,216	2,079	638
2017	0	0	0	11,712	0	11,712	13,420	259	0	0	13,679	1,967	259
2018	0	0	0	12,271	0	12,271	13,327	266	0	0	13,593	1,322	159
2019	0	0	0	12,679	0	12,679	13,806	274	0	0	14,080	1,402	154
2020	0	0	0	13,350	0	13,350	14,356	283	0	0	14,638	1,288	131
NOM.	0	13,582	4,115	186,858	0	206,555	217,252	5,218	0	0	222,470	15,916	
NPV	0	4,641	1,760	48,060	0	54,462	54,209	1,531	0	0	55,800	1,338	

Discount Rate 8.22

Benefit/Cost Ratio (Col(12) / Col(7)) : 1.02

III. UTILITY & CUSTOMER COSTS (1993$ PER FIXTURE)

	ALL LIGHTING MEASURES
GS RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$12
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$59
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$6
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%
GSD RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$14
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$60
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$8
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%
GSLD RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$14
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$67
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$8
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	1.884	1.576	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0	% *
(3) DEMAND CHARGE IN CUSTOMER BILL	0	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	0	% *

* Values apply to first year only.

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INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED REV_REQ
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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.94	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.27	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMEF	5,192.0	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	29	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.65888	
(5) K FACTOR FOR T & D	1.66867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOME	***	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2004	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2003	
(4) BASE YEAR AVOIDED GENERATING COST	558	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.016	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	55%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	4.20	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	9.34	%**

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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME:LTGCM04R

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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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	2,338	938	0	3,274	1,042	268	11,548	0	0	11,548
2002	4,867	1,877	0	6,783	4,350	1,112	24,157	0	0	24,157
2003	7,857	2,815	0	10,483	10,358	2,818	37,805	0	0	37,805
2004	0	0	0	0	14,268	3,574	0	0	0	0
2005	0	0	0	0	14,821	3,748	0	0	0	0
2006	0	0	0	0	15,441	3,960	0	0	0	0
2007	0	0	0	0	16,304	4,153	0	0	0	0
2008	0	0	0	0	16,940	4,332	0	0	0	0
2009	0	0	0	0	17,743	4,580	0	0	0	0
2010	0	0	0	0	18,358	4,780	0	0	0	0
2011	0	0	0	0	19,367	5,117	0	0	0	0
2012	0	0	0	0	20,290	5,272	0	0	0	0
2013	0	0	0	0	21,532	5,540	0	0	0	0
2014	0	0	0	0	22,755	5,899	0	0	0	0
2015	0	0	0	0	23,415	6,079	0	0	0	0
2016	4,810	938	0	5,748	24,743	6,374	23,779	0	0	23,779
2017	10,110	1,877	0	11,986	25,874	6,763	50,027	0	0	50,027
2018	15,970	2,815	0	18,785	27,244	7,042	78,948	0	0	78,948
2019	0	0	0	0	28,134	7,264	0	0	0	0
2020	0	0	0	0	29,577	7,744	0	0	0	0
2021	0	0	0	0	31,105	8,221	0	0	0	0
2022	0	0	0	0	32,725	8,726	0	0	0	0
NOM	45,789	11,260	0	57,049	436,511	113,209	226,364	0	0	226,364
NPV	11,082	3,420	0	14,507	86,618	22,671	54,783	0	0	54,783

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

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CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME LTGCM04R

01/26/95

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	53,301	2,345	405	2,070	2,144	630	1,780	132	10,707	10,707	10,707
2005	51,080	2,247	388	2,041	1,358	650	1,780	829	10,370	9,495	20,202
2003	48,526	2,135	369	2,795	1,380	650	1,780	720	9,990	8,374	28,576
2007	46,096	2,028	350	2,655	1,301	650	1,780	620	8,825	7,387	35,963
2008	43,763	1,926	333	2,521	1,380	650	1,780	526	9,275	6,517	42,480
2009	41,521	1,827	316	2,392	1,355	650	1,780	439	8,938	5,750	48,230
2010	39,360	1,732	299	2,267	1,345	650	1,780	361	8,614	5,074	53,303
2011	37,277	1,640	283	2,147	1,234	650	1,780	287	8,301	4,479	57,780
2012	35,239	1,550	268	2,030	1,262	650	1,780	275	7,905	3,947	61,727
2013	33,202	1,461	252	1,912	1,179	650	1,780	275	7,889	3,478	65,203
2014	31,167	1,371	237	1,795	1,096	650	1,780	275	7,394	3,056	68,259
2015	29,133	1,282	221	1,678	1,012	650	1,780	275	7,078	2,682	70,941
2016	27,098	1,192	206	1,561	929	650	1,780	275	6,773	2,350	73,290
2017	25,064	1,103	190	1,444	846	650	1,780	275	6,487	2,054	75,345
2018	23,029	1,013	175	1,328	762	650	1,780	275	6,102	1,792	77,138
2019	20,995	924	160	1,209	679	650	1,780	275	5,858	1,559	78,698
2020	18,960	834	144	1,092	596	650	1,780	275	5,551	1,353	80,049
2021	16,926	745	129	975	512	650	1,780	275	5,245	1,171	81,220
2022	14,891	655	113	858	429	650	1,780	275	4,940	1,009	82,229
2023	12,857	566	98	741	346	650	1,780	275	4,634	867	83,096
2024	11,046	486	84	636	715	650	1,780	(168)	4,382	747	83,843
2025	9,679	426	74	558	1,111	650	1,780	(521)	4,157	652	84,495
2026	8,541	376	65	492	1,085	650	1,780	(521)	3,986	572	85,066
2027	7,402	326	56	426	1,018	650	1,780	(521)	3,815	502	85,569
2028	6,263	276	48	361	972	650	1,780	(521)	3,644	439	86,008
2029	5,124	225	39	295	925	650	1,780	(521)	3,473	383	86,391
2030	3,988	175	30	230	878	650	1,780	(521)	3,302	333	86,724
2031	2,847	125	22	164	832	650	1,780	(521)	3,131	289	87,013
2032	1,708	75	13	98	785	650	1,780	(521)	2,960	250	87,263
2033	569	25	4	33	738	650	1,780	(521)	2,788	216	87,479

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65468

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/26/95

PROGRAM NAME: LTGCM04R

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2004	3.75%	1,852	1,852	1,780	1,780	1,810	1,810	132	4,480	0	0	0	132
2005	7.22%	3,758	5,712	1,780	3,520	1,810	3,221	829	4,480	0	0	0	829
2006	6.68%	3,478	9,190	1,780	5,280	1,810	4,831	720	4,480	0	0	0	720
2007	6.18%	3,216	12,407	1,780	7,040	1,810	6,441	620	4,480	0	0	0	620
2008	5.71%	2,973	15,380	1,780	8,800	1,810	8,051	526	4,480	0	0	0	526
2009	5.28%	2,748	18,129	1,780	10,560	1,810	9,862	439	4,480	0	0	0	439
2010	4.89%	2,546	20,675	1,780	12,319	1,810	11,272	361	4,480	0	0	0	361
2011	4.52%	2,353	23,028	1,780	14,079	1,810	12,882	287	4,480	0	0	0	287
2012	4.46%	2,322	25,351	1,780	15,839	1,810	14,493	275	4,480	0	0	0	275
2013	4.46%	2,322	27,673	1,780	17,599	1,810	16,103	275	4,480	0	0	0	275
2014	4.46%	2,322	29,995	1,780	19,359	1,810	17,713	275	4,480	0	0	0	275
2015	4.46%	2,322	32,317	1,780	21,119	1,810	19,323	275	4,480	0	0	0	275
2016	4.46%	2,322	34,639	1,780	22,879	1,810	20,934	275	4,480	0	0	0	275
2017	4.46%	2,322	36,961	1,780	24,639	1,810	22,544	275	4,480	0	0	0	275
2018	4.46%	2,322	39,283	1,780	26,399	1,810	24,154	275	4,480	0	0	0	275
2019	4.46%	2,322	41,605	1,780	28,159	1,810	25,765	275	4,480	0	0	0	275
2020	4.46%	2,322	43,927	1,780	29,919	1,810	27,375	275	4,480	0	0	0	275
2021	4.46%	2,322	46,250	1,780	31,679	1,810	28,985	275	4,480	0	0	0	275
2022	4.46%	2,322	48,572	1,780	33,439	1,810	30,596	275	4,480	0	0	0	275
2023	4.46%	2,322	50,894	1,780	35,198	1,810	32,206	275	4,480	0	0	0	275
2024	2.25%	1,171	52,065	1,780	36,958	1,810	33,816	(190)	4,480	0	0	0	(190)
2025	0.00%	0	52,065	1,780	38,718	1,810	35,426	(621)	4,480	0	0	0	(621)
2026	0.00%	0	52,065	1,780	40,478	1,810	37,037	(621)	4,480	0	0	0	(621)
2027	0.00%	0	52,065	1,780	42,238	1,810	38,647	(621)	4,480	0	0	0	(621)
2028	0.00%	0	52,065	1,780	43,998	1,810	40,257	(621)	4,480	0	0	0	(621)
2029	0.00%	0	52,065	1,780	45,758	1,810	41,868	(621)	4,480	0	0	0	(621)
2030	0.00%	0	52,065	1,780	47,518	1,810	43,478	(621)	4,480	0	0	0	(621)
2031	0.00%	0	52,065	1,780	49,278	1,810	45,088	(621)	4,480	0	0	0	(621)
2032	0.00%	0	52,065	1,780	51,038	1,810	46,698	(621)	4,480	0	0	0	(621)
2033	0.00%	0	52,065	1,780	52,798	1,810	48,309	(621)	4,480	0	0	0	(621)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,449)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	4,480
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0337

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/26/95

PROGRAM NAME: LTGCM04R

PSC FORM CE 1.1A
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(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
2004	3.75%	1,952	132	51,038	1,760	(1,317)	54,247	52,355	53,301
2005	7.22%	3,759	829	49,278	3,520	(488)	52,355	49,798	51,080
2006	6.68%	3,478	720	47,518	5,280	232	49,798	47,288	48,526
2007	6.18%	3,218	620	45,758	7,040	852	47,288	44,908	46,098
2008	5.71%	2,973	526	43,998	8,800	1,378	44,908	42,620	43,763
2009	5.28%	2,749	439	42,238	10,560	1,817	42,620	40,421	41,521
2010	4.89%	2,546	381	40,478	12,21[illegible]	2,178	40,421	38,300	39,360
2011	4.52%	2,353	287	38,718	14,079	2,465	38,300	36,254	37,277
2012	4.46%	2,322	275	36,958	15,839	2,739	36,254	34,218	35,236
2013	4.46%	2,322	275	35,198	17,599	3,014	34,218	32,184	33,202
2014	4.46%	2,322	275	33,438	19,359	3,289	32,184	30,150	31,167
2015	4.46%	2,322	275	31,679	21,119	3,563	30,150	28,115	29,133
2016	4.46%	2,322	275	29,919	22,879	3,838	28,115	26,081	27,098
2017	4.46%	2,322	275	28,159	24,639	4,112	26,081	24,048	25,064
2018	4.46%	2,322	275	26,399	26,399	4,387	24,048	22,012	23,029
2019	4.46%	2,322	275	24,639	28,159	4,661	22,012	19,977	20,995
2020	4.46%	2,322	275	22,879	29,919	4,936	19,977	17,943	18,960
2021	4.46%	2,322	275	21,119	31,679	5,211	17,943	15,908	16,926
2022	4.46%	2,322	275	19,359	33,439	5,485	15,908	13,874	14,891
2023	4.46%	2,322	275	17,599	35,198	5,760	13,874	11,839	12,857
2024	2.25%	1,171	(199)	15,839	36,958	5,561	11,839	10,249	11,044
2025	0.00%	0	(621)	14,079	38,718	4,999	10,249	8,110	9,679
2026	0.00%	0	(621)	12,318	40,478	4,348	8,110	7,971	8,541
2027	0.00%	0	(621)	10,560	42,238	3,727	7,971	6,833	7,402
2028	0.00%	0	(621)	8,800	43,998	3,106	6,833	5,694	6,263
2029	0.00%	0	(621)	7,040	45,758	2,485	5,694	4,555	5,124
2030	0.00%	0	(621)	5,280	47,518	1,864	4,555	3,416	3,986
2031	0.00%	0	(621)	3,520	49,278	1,242	3,416	2,278	2,847
2032	0.00%	0	(621)	1,760	51,038	621	2,278	1,139	1,708
2033	0.00%	0	(621)	0	52,798	0	1,139	0	569

* Column not specified in workbook

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(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($/kW)	(7) CUMULATIVE AVERAGE SPENDING ($/kW)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.60%	1.026	0.00%	0.00	0.00
1996	-8	2.63%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.62%	1.126	0.00%	0.00	0.00
1999	-5	3.85%	1.169	0.84%	5.46	2.73
2000	-4	3.86%	1.214	1.86%	11.21	11.08
2001	-3	3.93%	1.262	13.00%	81.21	82.27
2002	-2	3.86%	1.311	60.50%	440.92	326.33
2003	-1	3.85%	1.362	24.00%	181.82	536.70
				100.00%	720.61	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.06)	(0.06)	5.76	5.76
2000	-4	11.38	0.50	0.62	1.25	1.55	1.13	1.41	(0.24)	(0.30)	12.45	18.21
2001	-3	83.81	2.82	3.44	7.00	8.55	6.37	7.77	(1.37)	(1.67)	98.21	116.42
2002	-2	326.88	14.90	18.34	36.97	45.52	33.81	41.38	(7.22)	(8.89)	477.89	594.31
2003	-1	695.21	30.54	48.88	75.80	121.31	68.11	109.49	(14.48)	(23.36)	257.61	851.92
			48.88	71.41	121.31		109.49		(23.36)		851.92	

IN SERVICE YEA	2004
PLANT COSTS	598
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	45,279	45,279	45,279
EQUITY AFUDC	4,488		
DEBT AFUDC	3,029	3,029	
CPI			6,796
TOTAL	52,796	48,308	52,075

* Column not specified in workbook

INPUT DATA - PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME LTGCM04R

PSC FORM CE 1.2
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(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CA/kWh)	AVOIDED MARGINAL FUEL COST (CA/kWh)	INCREASED MARGINAL FUEL COST (CA/kWh)	REPLACEMENT FUEL COST (CA/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.03	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.31	1.82	0.00	1.00	1.00
1996	0	0	0.00	3.32	1.82	0.00	1.00	1.00
1997	0	0	0.00	3.54	2.03	0.00	1.00	1.00
1998	0	0	0.00	3.74	2.04	0.00	1.00	1.00
1999	0	0	0.00	4.24	2.19	0.00	1.00	1.00
2000	0	0	0.00	4.36	2.43	0.00	1.00	1.00
2001	8,152	8,152	0.00	4.81	2.52	0.00	1.00	1.00
2002	24,455	24,455	0.00	5.16	2.59	0.00	1.00	1.00
2003	48,911	48,911	0.00	5.67	2.77	0.00	1.00	1.00
2004	48,911	48,911	0.00	6.15	2.84	5.95	1.00	1.00
2005	48,911	48,911	0.00	6.44	3.14	5.89	1.00	1.00
2006	48,911	48,911	0.00	6.79	3.3x	6.32	1.00	1.00
2007	48,911	48,911	0.00	7.41	3.57	6.85	1.00	1.00
2008	48,911	48,911	0.00	7.80	3.81	7.04	1.00	1.00
2009	48,911	48,911	0.00	7.90	3.92	7.57	1.00	1.00
2010	48,911	48,911	0.00	8.58	4.18	8.37	1.00	1.00
2011	48,911	48,911	0.00	9.01	4.14	8.53	1.00	1.00
2012	48,911	48,911	0.00	9.40	4.53	8.98	1.00	1.00
2013	48,911	48,911	0.00	10.07	4.82	9.57	1.00	1.00
2014	48,911	48,911	0.00	10.63	4.88	10.14	1.00	1.00
2015	48,911	48,911	0.00	11.11	5.18	10.51	1.00	1.00
2016	48,911	48,911	0.00	11.72	5.39	11.12	1.00	1.00
2017	48,911	48,911	0.00	12.20	5.68	11.73	1.00	1.00
2018	48,911	48,911	0.00	12.30	5.95	12.38	1.00	1.00
2019	48,911	48,911	0.00	12.98	6.25	13.06	1.00	1.00
2020	48,911	48,911	0.00	13.59	6.57	13.77	1.00	1.00
2021	48,911	48,911	0.00	14.44	6.90	14.53	1.00	1.00
2022	48,911	48,911	0.00	15.24	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME LTGCM04FI

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	10,707	1,854	81	12,525	17,731	7,530
2005	10,370	2,042	79	12,439	16,410	8,521
2006	9,990	2,137	73	11,512	15,481	8,252
2007	9,625	2,236	85	10,384	13,793	8,559
2008	8,275	2,348	80	9,937	12,998	8,622
2009	8,939	2,465	67	11,175	14,777	7,868
2010	8,614	2,591	70	11,702	16,283	6,793
2011	8,301	2,725	52	8,828	11,969	8,239
2012	7,995	2,870	42	7,206	9,485	8,627
2013	7,869	3,022	43	7,351	9,738	8,366
2014	7,384	3,182	47	8,031	10,695	7,949
2015	7,078	3,348	55	9,420	12,313	7,587
2016	6,773	3,522	52	8,868	11,845	7,466
2017	6,467	3,705	53	9,072	12,032	7,265
2018	6,162	3,897	55	9,402	12,544	6,972
2019	5,858	4,100	60	10,152	13,824	6,534
2020	5,551	4,313	63	10,835	14,388	6,199
2021	5,245	4,538	64	10,868	14,788	5,947
2022	4,940	4,774	67	11,206	15,320	5,665
NOM	148,958	59,789	1,149	190,830	255,833	142,974
NPV	34,033	11,007	253	41,362	55,508	31,146

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: LTGCM04R

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PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	72	12	84	32	52	84	1,010	0
2002	220	39	258	96	162	261	4,364	0
2003	445	81	527	189	340	539	10,767	0
2004	432	85	517	193	355	548	15,630	0
2005	417	89	506	187	371	557	16,359	0
2006	403	93	496	180	378	558	17,247	0
2007	388	97	486	174	406	580	18,809	0
2008	376	102	479	168	426	594	19,808	0
2009	353	107	471	162	448	610	20,088	0
2010	351	113	464	157	470	627	21,724	0
2011	339	119	458	152	485	640	22,882	0
2012	327	125	452	146	521	667	23,882	0
2013	316	132	447	141	549	690	25,584	0
2014	304	138	442	138	576	714	28,882	0
2015	292	146	438	130	608	738	28,207	0
2016	280	153	433	125	639	765	29,767	0
2017	268	161	429	120	673	793	31,229	0
2018	256	170	426	115	708	822	31,229	0
2019	244	178	423	109	744	854	32,950	0
2020	233	188	420	104	783	887	34,786	0
2021	221	197	418	99	824	923	36,682	0
2022	209	208	417	94	867	960	38,703	0
NOM.	6,758	2,724	9,482	3,022	11,405	14,427	508,705	0
NPV	1,735	542	2,277	776	2,260	3,036	98,373	0

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME LTGCM04R

01/26/96

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	2,338	11,548	0	13,884	7,535	166	1,019	0	1,187	(12,697)	(8,847)
2003	0	4,867	24,157	0	29,044	8,521	518	4,364	0	4,883	(24,161)	(18,778)
2004	0	7,867	37,905	0	45,573	8,252	1,066	10,787	0	11,883	(33,710)	(34,015)
2005	0	0	0	0	0	8,559	1,085	15,630	0	24,220	24,220	(23,998)
2006	0	0	0	0	0	8,622	1,083	16,359	0	25,943	25,943	(14,156)
2007	0	0	0	0	0	7,868	1,084	17,247	0	26,582	26,583	(4,840)
2008	0	0	0	0	0	6,783	1,087	18,808	0	26,434	26,434	4,092
2009	0	0	0	0	0	8,238	1,072	19,808	0	29,500	29,500	12,671
2010	0	0	0	0	0	8,627	1,081	20,088	0	29,017	29,017	20,397
2011	0	0	0	0	0	8,368	1,091	21,734	0	29,809	29,809	27,815
2012	0	0	0	0	0	7,848	1,104	22,892	0	32,235	32,235	34,809
2013	0	0	0	0	0	7,567	1,120	23,532	0	32,020	33,029	41,881
2014	0	0	0	0	0	7,488	1,127	25,564	0	35,089	35,089	48,249
2015	0	0	0	0	0	7,265	1,150	26,082	0	36,096	36,096	54,427
2016	0	0	0	0	0	6,972	1,176	26,307	0	36,969	36,969	60,225
2017	0	0	0	0	0	6,534	1,186	26,767	0	36,493	8,894	61,841
2018	0	4,810	23,779	0	28,589	6,186	1,222	31,229	0	38,718	(29,431)	58,955
2019	0	10,118	50,027	0	60,147	5,947	1,248	31,229	0	38,448	(55,468)	52,279
2020	0	15,870	78,948	0	94,817	5,666	1,277	32,950	0	40,700	45,780	58,771
2021	0	0	0	0	0	0	1,307	34,799	0	42,269	42,269	61,039
2022	0	0	0	0	0	0	1,341	36,682	0	43,970	43,970	65,087
							1,377	38,703		45,748	45,748	65,866
NOM	0	45,789	226,364	0	272,153	142,974	23,919	508,706	0	675,598	403,445	#VALUE!
NPV	0	11,082	54,783	0	65,865	31,108	5,312	98,373	0	134,531	68,666	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 2.05

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME LTGCM04R

01/26/05

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	1,770	0	938	0	2,708	11,548	0	0	11,548	(8,839)	(4,767)
2002	7,381	0	1,877	0	9,257	24,157	0	0	24,157	(14,900)	(7,357)
2003	17,533	0	2,815	0	20,348	37,905	0	0	37,905	(17,557)	(7,037)
2004	24,111	0	0	0	24,111	0	0	0	0	24,111	8,879
2005	25,083	0	0	0	25,083	0	0	0	0	25,083	8,509
2006	26,218	0	0	0	26,218	0	0	0	0	26,218	8,096
2007	27,845	0	0	0	27,845	0	0	0	0	27,845	8,781
2008	28,745	0	0	0	28,745	0	0	0	0	28,745	8,260
2009	30,180	0	0	0	30,180	0	0	0	0	30,180	8,038
2010	31,264	0	0	0	31,264	0	0	0	0	31,264	7,622
2011	33,087	0	0	0	33,087	0	0	0	0	33,087	7,385
2012	34,542	0	0	0	34,542	0	0	0	0	34,542	7,058
2013	36,824	0	0	0	36,824	0	0	0	0	36,824	6,852
2014	38,721	0	0	0	38,721	0	0	0	0	38,721	6,633
2015	39,858	0	0	0	39,858	0	0	0	0	39,858	6,251
2016	42,050	0	938	0	42,988	23,779	0	0	23,779	19,210	2,758
2017	44,239	0	1,877	0	46,116	50,027	0	0	50,027	(3,911)	(514)
2018	46,333	0	2,815	0	49,149	78,848	0	0	78,848	(29,700)	(3,567)
2019	47,878	0	0	0	47,878	0	0	0	0	47,878	5,279
2020	50,434	0	0	0	50,434	0	0	0	0	50,434	5,068
2021	53,144	0	0	0	53,144	0	0	0	0	53,144	4,909
2022	56,018	0	0	0	56,018	0	0	0	0	56,018	4,736
NOM	742,845	0	11,260	0	754,129	226,364	0	0	226,364	527,762	
NPV	145,526	0	3,426	0	148,952	54,783	0	0	54,783	94,168	

In Service of Gen Unit:	2004
Discount Rate :	9.22
Benefit/Cost Ratio (Col(9) / Col(10))	2.72

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RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: LTGCM04R

01/26/95

PSC FORM CE 2.5
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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM CORTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	2,336	936	1,310	0	4,584	1,019	166	0	0	1,187	(3,397)	(1,852)
2002	0	4,887	1,877	5,462	0	12,225	4,364	519	0	0	4,883	(7,342)	(3,825)
2003	0	7,867	2,815	12,974	0	23,457	10,797	1,066	0	0	11,863	(11,594)	(5,241)
2004	0	0	0	17,842	0	17,842	23,165	1,065	0	0	24,230	6,388	2,644
2005	0	0	0	18,589	0	18,589	24,880	1,063	0	0	25,943	7,374	2,784
2006	0	0	0	19,401	0	19,401	25,466	1,064	0	0	26,563	7,162	2,485
2007	0	0	0	20,457	0	20,457	27,367	1,067	0	0	28,434	7,977	2,534
2008	0	0	0	21,271	0	21,271	28,428	1,072	0	0	29,500	8,229	2,393
2009	0	0	0	22,333	0	22,333	27,938	1,081	0	0	29,017	6,684	1,780
2010	0	0	0	23,139	0	23,139	28,517	1,091	0	0	29,608	6,473	1,579
2011	0	0	0	24,484	0	24,484	31,130	1,104	0	0	32,235	7,750	1,720
2012	0	0	0	25,581	0	25,581	32,508	1,120	0	0	33,628	8,047	1,648
2013	0	0	0	27,102	0	27,102	33,952	1,137	0	0	35,088	7,987	1,494
2014	0	0	0	28,654	0	28,654	34,930	1,156	0	0	36,086	7,432	1,273
2015	0	0	0	29,494	0	29,494	35,794	1,179	0	0	36,969	7,476	1,172
2016	0	4,810	936	31,117	0	36,865	37,255	1,198	0	0	38,453	1,588	228
2017	0	10,119	1,877	32,737	0	44,733	38,494	1,222	0	0	39,716	(5,017)	(602)
2018	0	15,870	2,815	34,287	0	53,071	38,201	1,248	0	0	39,449	(13,622)	(1,540)
2019	0	0	0	35,429	0	35,429	39,484	1,277	0	0	40,760	5,332	558
2020	0	0	0	37,321	0	37,321	40,981	1,307	0	0	42,288	4,968	489
2021	0	0	0	38,327	0	38,327	42,629	1,341	0	0	43,970	4,643	429
2022	0	0	0	41,453	0	41,453	44,366	1,377	0	0	45,746	4,292	363
NOM.	0	45,789	11,290	549,720	0	606,770	661,679	23,819	0	0	675,599	68,829	
NPV	0	11,082	3,428	107,889	0	122,199	129,516	5,312	0	0	134,831	12,635	

Discount Rate 8.22

Benefit/Cost Ratio (Col(12) / Col(7)) : 1.10

III. UTILITY & CUSTOMER COSTS (1993$ PER FIXTURE)

	ALL LIGHTING MEASURES
GS RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$12
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$59
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$6
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%
GSD RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$14
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$68
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$8
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%
GSLD RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$14
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$67
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$8
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

III. (1,5,7,9) ESCALATION RATES

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	1.884	1.576	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0	% *
(3) DEMAND CHARGE IN CUSTOMER BILL	0	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	0	% *

* Values apply to first year only.

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COMMERCIAL/INDUSTRAL EFFICIENT MOTORS

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	3,277	2,822	1.16	3,250	1,149	2.83	3,277	1,495	2.19
1997-2000	5,546	5,066	1.09	5,885	2,038	2.88	5,546	2,653	2.09
2001-2003	2,901	2,453	1.18	2,821	1,050	2.69	2,901	1,366	2.12
1995-2003	11,724	10,341	1.13	11,936	4,237	2.82	11,724	5,514	2.13

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: mrge95x - Motors GS

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.00	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.34	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	3,151.4	kWh
(5) kWh LINE LOSS PERCENTAGE	7.02	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	20	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.84867	
(5) K FACTOR FOR T & D	1.86867	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.02	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1999	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

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 12

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: mtrgs65a - Motors GS

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	120	115	0	235	47	0	306	0	0	306
1996	140	130	0	270	151	0	466	0	0	466
1997	0	0	0	0	207	0	0	0	0	0
1998	0	0	0	0	211	0	0	0	0	0
1999	0	0	0	0	215	0	0	0	0	0
2000	0	0	0	0	220	0	0	0	0	0
2001	0	0	0	0	229	0	0	0	0	0
2002	0	0	0	0	240	0	0	0	0	0
2003	0	0	0	0	253	0	0	0	0	0
2004	0	0	0	0	261	0	0	0	0	0
2005	0	0	0	0	272	0	0	0	0	0
2006	0	0	0	0	286	0	0	0	0	0
2007	0	0	0	0	300	0	0	0	0	0
2008	0	0	0	0	312	0	0	0	0	0
2009	0	0	0	0	326	0	0	0	0	0
2010	233	115	0	348	341	0	773	0	0	773
2011	277	130	0	407	382	0	920	0	0	920
2012	0	0	0	0	376	0	0	0	0	0
2013	0	0	0	0	398	0	0	0	0	0
2014	0	0	0	0	421	0	0	0	0	0
2015	0	0	0	0	434	0	0	0	0	0
2016	0	0	0	0	467	0	0	0	0	0
NOM	771	489	0	1,261	6,318	0	2,557	0	0	2,557
NPV	348	271	0	618	2,304	0	1,149	0	0	1,149

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: mmge60z - Motors GS

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	611	27	5	36	24	10	20	1	123	123	123
1998	585	26	4	34	15	10	20	8	119	109	231
1999	556	24	4	32	15	10	20	7	114	96	327
2000	526	23	4	30	15	10	20	6	110	85	412
2001	501	22	4	29	15	10	20	6	108	75	487
2002	478	21	4	27	15	10	20	5	102	66	553
2003	451	20	4	26	15	10	20	4	98	58	610
2004	427	19	3	25	15	10	20	3	95	51	662
2005	403	18	3	23	14	10	20	3	92	45	707
2006	380	17	3	22	13	10	20	3	88	40	747
2007	357	16	3	21	12	10	20	3	85	36	782
2008	333	15	3	19	12	10	20	3	81	31	812
2009	310	14	3	18	11	10	20	3	78	27	839
2010	287	13	2	17	11	10	20	3	74	24	863
2011	264	12	2	15	10	10	20	3	71	21	883
2012	240	11	2	14	9	10	20	3	67	18	901
2013	217	10	2	12	8	10	20	3	64	16	917
2014	194	9	2	11	8	10	20	3	60	13	930
2015	170	8	1	10	7	10	20	3	57	12	942
2016	147	7	1	8	6	10	20	3	53	10	951
2017	124	6	1	7	5	10	20	3	50	9	960
2018	101	5	1	6	4	10	20	3	46	7	967
2019	77	4	1	5	3	10	20	3	43	7	974
2020	54	3	1	4	3	10	20	3	40	6	980
2021	31	2	0	3	2	10	20	3	36	5	985
2022	8	1	0	2	1	10	20	3	34	4	989
2023		0	0	1	0	10	20	3	32	3	993
2024		0	0	0	0	10	20	3		3	996
2025		0	0	0	0	10	20	3		3	999
2026		0	0	0	0	10	20	3		2	1,002

IN SERVICE COST ($000)	807
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	0%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.84957

0350

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED REV_REQ

PROGRAM NAM mrge95z - Motors 05

PSC FORM CE 1.1A
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	23	23	20	20	19	19	1	44	0	0	0	1
1998	7.22%	43	66	20	40	19	38	8	44	0	0	0	8
1999	6.68%	40	106	20	61	19	56	8	44	0	0	0	8
2000	6.18%	37	143	20	81	19	75	7	44	0	0	0	7
2001	5.71%	34	177	20	101	19	94	6	44	0	0	0	6
2002	5.29%	32	209	20	121	19	113	5	44	0	0	0	5
2003	4.89%	29	238	20	142	19	131	4	44	0	0	0	4
2004	4.52%	27	265	20	162	19	150	3	44	0	0	0	3
2005	4.46%	27	292	20	182	19	169	3	44	0	0	0	3
2006	4.46%	27	319	20	202	19	188	3	44	0	0	0	3
2007	4.46%	27	346	20	223	19	206	3	44	0	0	0	3
2008	4.46%	27	372	20	243	19	225	3	44	0	0	0	3
2009	4.46%	27	399	20	263	19	244	3	44	0	0	0	3
2010	4.46%	27	426	20	283	19	263	3	44	0	0	0	3
2011	4.46%	27	453	20	304	19	281	3	44	0	0	0	3
2012	4.46%	27	480	20	324	19	300	3	44	0	0	0	3
2013	4.46%	27	506	20	344	19	319	3	44	0	0	0	3
2014	4.46%	27	533	20	364	19	338	3	44	0	0	0	3
2015	4.46%	27	560	20	385	19	356	3	44	0	0	0	3
2016	4.46%	27	587	20	405	19	375	3	44	0	0	0	3
2017	2.25%	14	600	20	425	19	394	0	44	0	0	0	0
2018	0.00%	0	600	20	445	19	413	0	44	0	0	0	0
2019	0.00%	0	600	20	465	19	431	0	44	0	0	0	0
2020	0.00%	0	600	20	486	19	450	0	44	0	0	0	0
2021	0.00%	0	600	20	506	19	469	0	44	0	0	0	0
2022	0.00%	0	600	20	526	19	488	0	44	0	0	0	0
2023	0.00%	0	600	20	546	19	507	0	44	0	0	0	0
2024	0.00%	0	600	20	567	19	525	0	44	0	0	0	0
2025	0.00%	0	600	20	587	19	544	0	44	0	0	0	0
2026	0.00%	0	600	20	607	19	563	0	44	0	0	0	0

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2025
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(14)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	44
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0351

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: mrgal95x - Moore Q5

PSC FORM CE 1.1A
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(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)
1997	3.[illegible]%	23	1	567	20	(12)	622	600	611
1998	7.22%	43	9	567	40	(3)	600	570	585
1999	6.68%	40	8	548	61	5	570	542	556
2000	6.18%	37	7	526	81	12	542	514	528
2001	5.71%	34	6	506	101	18	514	488	501
2002	5.28%	32	5	486	121	23	488	461	476
2003	4.88%	29	4	466	142	27	463	439	451
2004	4.52%	27	3	445	162	30	439	415	427
2005	4.46%	27	3	425	182	33	415	392	403
2006	4.46%	27	3	406	202	36	392	368	380
2007	4.46%	27	3	386	223	39	368	346	357
2008	4.46%	27	3	364	243	42	346	322	333
2009	4.46%	27	3	344	263	46	322	299	310
2010	4.46%	27	3	324	283	48	299	276	287
2011	4.46%	27	3	304	304	52	276	252	264
2012	4.46%	27	3	283	324	56	252	229	240
2013	4.46%	27	3	263	344	59	229	205	217
2014	4.46%	27	3	243	364	61	205	182	194
2015	4.46%	27	3	223	385	64	182	159	170
2016	4.46%	27	3	202	405	67	159	135	147
2017	2.25%	14	(2)	182	425	65	135	117	126
2018	0.00%	0	(7)	162	445	58	117	104	111
2019	0.00%	0	(7)	142	465	51	104	91	98
2020	0.00%	0	(7)	121	486	43	91	78	85
2021	0.00%	0	(7)	101	506	36	78	65	72
2022	0.00%	0	(7)	81	526	29	65	52	59
2023	0.00%	0	(7)	61	546	22	52	39	46
2024	0.00%	0	(7)	40	567	14	39	26	33
2025	0.00%	0	(7)	20	587	7	26	13	20
2026	0.00%	0	(7)	0	607	0	13	0	7

* Column not specified in workbook

page5

PSC FORM CE 1.1B
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(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($MW)	(7) CUMULATIVE AVERAGE SPENDING ($MW)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.80%	1.028	44.55%	176.18	144.12
1996	-1	2.83%	1.053	41.54%	171.47	318.46
				100.00%	406.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($MW)	(9a)* DEBT AFUDC ($MW)	(9b)* CUMULATIVE DEBT AFUDC ($MW)	(9) YEARLY TOTAL AFUDC ($MW)	(9c)* CUMULATIVE TOTAL AFUDC ($MW)	(9b)* CONSTRUCTION PERIOD INTEREST ($MW)	(9e)* CUMULATIVE CPI ($MW)	(9d)* DEFERRED TAXES ($MW)	(9e)* CUMULATIVE DEFERRED TAXES ($MW)	(10) INCREMENTA YEAR-END BOOK VALUE ($MW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($MW)
1994	-3	27.27	1.20	1.20	2.98	2.98	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	16.11	14.88	17.[illegible]	(3.16)	(3.75)	195.31	252.82
1996	-1	336.55	15.09	22.79	37.39	56.48	33.89	51.10	(7.18)	(10.93)	338.86	491.67
			22.79	31.69	56.48		51.10		(10.93)		491.67	

		BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
IN SERVICE YEA	1997	CONSTRUCTION CASH	533	533
PLANT COSTS	392	EQUITY AFUDC	44	
AFUDC RATE	10.92%	DEBT AFUDC	30	30
		CPI		67
		TOTAL	607	630

0353

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME mrgelix - Motors Q5

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PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWN)	(5) AVOIDED MARGINAL FUEL COST (CAWN)	(6)* INCREASED MARGINAL FUEL COST (CAWN)	(7) REPLACEMENT FUEL COST (CAWN)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.12	1.89	0.00	1.00	1.00
1995	400	400	0.00	3.41	1.92	0.00	1.00	1.00
1996	900	900	0.00	3.51	1.92	0.00	1.00	1.00
1997	900	900	0.00	3.85	2.03	4.28	1.00	1.00
1998	900	900	0.00	4.08	2.04	4.25	1.00	1.00
1999	900	900	0.00	4.76	2.19	7.85	1.00	1.00
2000	900	900	0.00	4.72	2.43	8.21	1.00	1.00
2001	900	900	0.00	5.17	2.52	8.42	1.00	1.00
2002	900	900	0.00	5.51	2.59	8.68	1.00	1.00
2003	900	900	0.00	6.09	2.77	9.29	1.00	1.00
2004	900	900	0.00	6.02	2.84	9.80	1.00	1.00
2005	900	900	0.00	6.98	3.14	9.82	1.00	1.00
2006	900	900	0.00	7.40	3.30	9.52	1.00	1.00
2007	900	900	0.00	8.16	3.57	9.70	1.00	1.00
2007	900	900	0.00	8.56	3.81	10.08	1.00	1.00
2008	900	900	0.00	8.66	3.02	10.57	1.00	1.00
2010	900	900	0.00	8.52	4.18	10.88	1.00	1.00
2011	900	900	0.00	9.88	4.14	11.46	1.00	1.00
2012	900	900	0.00	10.28	4.53	12.84	1.00	1.00
2013	900	900	0.00	11.00	4.82	13.05	1.00	1.00
2014	900	900	0.00	11.68	4.88	13.71	1.00	1.00
2015	900	900	0.00	12.19	5.18	14.19	1.00	1.00
2016	900	900	0.00	12.93	5.39	15.01	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: mrgs05x - Mrkrs GS

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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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	123	35	0.002	1	1	157
1998	119	36	0.002	1	1	156
1999	114	36	0.011	3	7	149
2000	110	39	0.001	0	0	149
2001	106	41	0.001	0	1	147
2002	102	43	0.001	0	1	145
2003	99	45	0.003	1	1	143
2004	95	47	0.004	2	3	141
2005	92	49	0.002	1	1	140
2006	88	52	0.002	1	1	139
2007	85	54	0.004	2	2	138
2008	81	57	0.004	2	2	137
2009	78	59	0.002	1	1	137
2010	74	62	0.010	4	5	136
2011	71	65	0.009	4	4	136
2012	67	69	0.011	5	6	135
2013	64	73	0.014	6	7	135
2014	60	77	0.014	6	7	135
2015	59	81	0.014	6	7	135
2016	53	85	0.017	7	9	137
NOM	1,735	1,108	0.131	52	67	2,828
NPV	730	364	0.036	14	19	1,089

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: mrgp05z - Modere Q5

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	13	2	15	6	8	14	26	0
1996	27	5	32	12	19	31	80	0
1997	26	5	31	11	20	31	110	0
1998	25	5	30	11	20	32	126	0
1999	25	5	30	10	21	32	147	0
2000	24	5	29	10	22	32	148	0
2001	23	5	28	10	23	33	160	0
2002	22	5	27	10	24	34	170	0
2003	22	5	27	9	25	34	168	0
2004	21	6	27	9	27	36	204	0
2005	21	6	28	9	28	37	215	0
2006	20	6	26	9	29	38	229	0
2007	19	7	26	8	30	38	232	0
2008	19	7	26	8	32	40	254	0
2009	18	7	25	8	33	41	267	0
2010	17	8	25	8	34	42	284	0
2011	16	8	24	7	36	43	287	0
2012	16	8	24	7	37	44	304	0
2013	15	9	24	7	38	45	304	0
2014	14	9	24	6	41	47	318	0
2015	14	10	24	6	42	48	340	0
2016	13	10	24	6	45	51	361	0
2016	12	11	24	5	46	52	378	0
							388	0
NOM.	418	158	576	167	652	840	4,884	0
NPV	183	56	240	66	229	315	1,624	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: mtgal95x - Motors Q5

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	120	348	0	518	0	29	25	0	54	(465)	(425)
1996	0	140	466	0	606	0	63	80	0	142	(464)	(814)
1997	0	0	0	0	0	157	82	119	0	338	338	(565)
1998	0	0	0	0	0	155	82	126	0	343	343	(314)
1999	0	0	0	0	0	149	82	147	0	358	358	(94)
2000	0	0	0	0	0	148	82	148	0	357	357	127
2001	0	0	0	0	0	147	82	160	0	388	388	328
2002	0	0	0	0	0	145	82	170	0	378	378	612
2003	0	0	0	0	0	143	83	188	0	394	394	880
2004	0	0	0	0	0	141	83	204	0	408	408	859
2005	0	0	0	0	0	140	83	215	0	418	418	1,016
2006	0	0	0	0	0	139	84	229	0	432	432	1,168
2007	0	0	0	0	0	138	85	252	0	464	464	1,312
2008	0	0	0	0	0	137	86	264	0	487	487	1,448
2009	0	0	0	0	0	137	86	267	0	470	470	1,573
2010	0	233	773	0	1,007	136	87	294	0	497	(509)	1,448
2011	0	277	920	0	1,197	136	89	304	0	529	(668)	1,295
2012	0	0	0	0	0	135	70	318	0	523	523	1,402
2013	0	0	0	0	0	135	72	340	0	547	547	1,804
2014	0	0	0	0	0	139	73	361	0	569	569	1,802
2015	0	0	0	0	0	135	75	376	0	588	588	1,894
2016	0	0	0	0	0	137	77	399	0	613	613	1,782
NOM	0	771	2,557	0	3,328	2,829	1,416	4,964	0	9,227	5,899	
NPV	0	348	1,149	0	1,495	1,089	663	1,824	0	3,277	1,782	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 2.19

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: mrge95: - Moore Q5

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	64	0	115	0	179	398	0	0	398	(220)	(201)
1996	204	0	130	0	334	466	0	0	466	(132)	(312)
1997	280	0	0	0	280	0	0	0	0	280	(97)
1998	285	0	0	0	285	0	0	0	0	285	103
1999	290	0	0	0	290	0	0	0	0	290	299
2000	296	0	0	0	296	0	0	0	0	296	466
2001	310	0	0	0	310	0	0	0	0	310	633
2002	291	0	0	0	324	0	0	0	0	324	792
2003	341	0	0	0	341	0	0	0	0	341	947
2004	352	0	0	0	352	0	0	0	0	352	1,092
2005	367	0	0	0	367	0	0	0	0	367	1,232
2006	385	0	0	0	385	0	0	0	0	385	1,366
2007	405	0	0	0	405	0	0	0	0	405	1,494
2008	422	0	0	0	422	0	0	0	0	422	1,616
2009	444	0	0	0	444	0	0	0	0	444	1,735
2010	460	0	115	0	575	772	0	0	772	(198)	1,689
2011	489	0	130	0	619	820	0	0	820	(201)	1,618
2012	508	0	0	0	508	0	0	0	0	508	1,723
2013	527	0	0	0	527	0	0	0	0	527	1,823
2014	548	0	0	0	548	0	0	0	0	548	1,921
2015	588	0	0	0	588	0	0	0	0	588	2,013
2016	617	0	0	0	617	0	0	0	0	617	2,101
NOM	8,535	0	480	0	9,025	2,557	0	0	2,557	6,468	
NPV	2,979	0	271	0	3,250	1,149	0	0	1,149	2,101	

In Service of Gen Unit: 1997

Discount Rate : 8.22

Benefit/Cost Ratio (Col(9) / Col(10)) 2.83

0358

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: merge95x - Motors GS

PSC FORM CE 2.5
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	120	115	47	0	282	25	29	0	0	54	(220)	(208)
1996	0	140	130	151	0	421	80	63	0	0	142	(279)	(443)
1997	0	0	0	307	0	307	279	62	0	0	338	131	(343)
1998	0	0	0	211	0	211	281	62	0	0	343	132	(250)
1999	0	0	0	215	0	215	298	62	0	0	360	143	(158)
2000	0	0	0	220	0	220	295	62	0	0	357	137	(77)
2001	0	0	0	229	0	229	307	62	0	0	369	140	(2)
2002	0	0	0	240	0	240	315	62	0	0	378	138	88
2003	0	0	0	253	0	253	331	63	0	0	394	141	130
2004	0	0	0	261	0	261	348	63	0	0	408	148	191
2005	0	0	0	272	0	272	355	63	0	0	418	147	247
2006	0	0	0	285	0	285	368	64	0	0	432	147	298
2007	0	0	0	300	0	300	380	65	0	0	464	156	347
2008	0	0	0	312	0	312	401	65	0	0	467	155	392
2009	0	0	0	308	0	308	404	66	0	0	470	142	430
2010	0	233	115	341	0	689	433	67	0	0	467	(192)	383
2011	0	277	130	382	0	788	440	69	0	0	509	(280)	325
2012	0	0	0	378	0	378	453	70	0	0	523	147	355
2013	0	0	0	366	0	366	475	72	0	0	547	148	383
2014	0	0	0	421	0	421	496	73	0	0	569	148	408
2015	0	0	0	434	0	434	513	76	0	0	588	154	433
2016	0	0	0	457	0	457	536	77	0	0	613	156	455
NOM.	0	771	460	6,316	0	7,577	7,812	1,416	0	0	9,227	1,650	
NPV	0	348	271	2,204	0	2,822	2,714	563	0	0	3,277	455	

Discount Rate: 8.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.16

0359

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

GS RATE CLASS	FPL-M-1
(1) UTILITY NON RECURRING COST PER CUSTOMER	$15
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$51
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$16
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0% *	
(3) DEMAND CHARGE IN CUSTOMER BILL	0	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0% *	

* Values apply to first year only.

0360

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MTRG501R - Motors GS

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.00	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.34	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	3,151.4	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85690	
(5) K FACTOR FOR T & D	1.86867	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.82	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	558	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.83	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

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 12

0361

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MTRG501R - Meters GS

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	165	147	0	312	62	0	549	0	0	549
1998	202	172	0	374	201	0	669	0	0	669
1999	104	85	0	189	318	0	344	0	0	344
2000	109	85	0	194	402	0	380	0	0	380
2001	0	0	0	0	458	0	0	0	0	0
2002	0	0	0	0	479	0	0	0	0	0
2003	0	0	0	0	505	0	0	0	0	0
2004	0	0	0	0	521	0	0	0	0	0
2005	0	0	0	0	544	0	0	0	0	0
2006	0	0	0	0	570	0	0	0	0	0
2007	0	0	0	0	600	0	0	0	0	0
2008	0	0	0	0	624	0	0	0	0	0
2009	0	0	0	0	657	0	0	0	0	0
2010	0	0	0	0	681	0	0	0	0	0
2011	0	0	0	0	723	0	0	0	0	0
2012	331	147	0	478	752	0	1,099	0	0	1,099
2013	408	172	0	580	795	0	1,353	0	0	1,353
2014	212	85	0	297	842	0	702	0	0	702
2015	223	85	0	308	867	0	739	0	0	739
2016	0	0	0	0	913	0	0	0	0	0
2017	0	0	0	0	963	0	0	0	0	0
2018	0	0	0	0	1,008	0	0	0	0	0
2019	0	0	0	0	1,041	0	0	0	0	0
2020	0	0	0	0	1,099	0	0	0	0	0
NOM	1,754	978	0	2,732	15,022	0	5,814	0	0	5,814
NPV	815	429	0	1,043	4,023	0	2,038	0	0	2,038

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: MTRGS01R - Meters Q5

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PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	2,017	89	15	116	61	32	67	6	406	405	405
2002	1,932	85	15	111	51	32	67	31	392	359	765
2003	1,837	81	14	106	51	32	67	27	378	317	1,082
2004	1,745	77	13	100	52	32	67	23	364	280	1,361
2005	1,658	73	13	95	51	32	67	20	351	247	1,608
2006	1,571	69	12	91	51	32	67	17	338	219	1,825
2007	1,490	66	11	86	51	32	67	14	326	192	2,017
2008	1,411	62	11	81	50	32	67	11	314	169	2,187
2009	1,334	59	10	77	48	32	67	10	303	149	2,336
2010	1,257	55	10	72	46	32	67	10	291	132	2,468
2011	1,180	52	9	68	41	32	67	10	279	116	2,583
2012	1,103	49	8	64	38	32	67	10	268	102	2,685
2013	1,028	45	8	59	35	32	67	10	256	89	2,774
2014	948	42	7	55	32	32	67	10	245	79	2,852
2015	872	38	7	50	29	32	67	10	233	68	2,919
2016	795	35	6	46	26	32	67	10	222	59	2,978
2017	718	32	5	41	23	32	67	10	210	51	3,030
2018	641	28	5	37	19	32	67	10	199	44	3,074
2019	564	25	4	32	16	32	67	10	187	38	3,112
2020	487	21	4	28	13	32	67	10	175	33	3,145
2021	410	18	3	24	27	32	67	(6)	165	28	3,173
2022	368	16	3	21	42	32	67	(24)	157	25	3,198
2023	323	14	2	19	40	32	67	(24)	151	22	3,220
2024	280	12	2	16	39	32	67	(24)	144	19	3,239
2025	237	10	2	14	37	32	67	(24)	138	17	3,255
2026	194	9	1	11	36	32	67	(24)	131	14	3,270
2027	151	7	1	9	33	32	67	(24)	125	13	3,282
2028	108	5	1	6	31	32	67	(24)	119	11	3,293
2029	65	3	0	4	30	32	67	(24)	112	9	3,303
2030	22	1	0	1	28	32	67	(24)	106	8	3,311

IN SERVICE COST ($000)	1,998
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65800

0363

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:MTRQS01R - Mobile GS

PSC FORM CE 1.1A
PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	74	74	67	67	61	61	5	170	0	0	0	5
2002	7.22%	142	216	67	133	61	122	21	170	0	0	0	21
2003	6.68%	132	348	67	200	61	183	27	170	0	0	0	27
2004	6.18%	122	470	67	266	61	244	23	170	0	0	0	23
2005	5.71%	113	582	67	333	61	305	20	170	0	0	0	20
2006	5.28%	104	686	67	400	61	366	17	170	0	0	0	17
2007	4.89%	96	782	67	466	61	427	14	170	0	0	0	14
2008	4.52%	89	872	67	533	61	488	11	170	0	0	0	11
2009	4.46%	88	959	67	599	61	548	10	170	0	0	0	10
2010	4.46%	88	1,047	67	666	61	609	10	170	0	0	0	10
2011	4.46%	88	1,135	67	733	61	670	10	170	0	0	0	10
2012	4.46%	88	1,223	67	799	61	731	10	170	0	0	0	10
2013	4.46%	88	1,311	67	866	61	792	10	170	0	0	0	10
2014	4.46%	88	1,399	67	933	61	853	10	170	0	0	0	10
2015	4.46%	88	1,487	67	999	61	914	10	170	0	0	0	10
2016	4.46%	88	1,575	67	1,066	61	975	10	170	0	0	0	10
2017	4.46%	88	1,663	67	1,132	61	1,036	10	170	0	0	0	10
2018	4.46%	88	1,750	67	1,199	61	1,097	10	170	0	0	0	10
2019	4.46%	88	1,838	67	1,266	61	1,158	10	170	0	0	0	10
2020	4.46%	88	1,926	67	1,332	61	1,219	10	170	0	0	0	10
2021	2.25%	44	1,970	67	1,399	61	1,280	(8)	170	0	0	0	(8)
2022	0.00%	0	1,970	67	1,465	61	1,341	(24)	170	0	0	0	(24)
2023	0.00%	0	1,970	67	1,532	61	1,402	(24)	170	0	0	0	(24)
2024	0.00%	0	1,970	67	1,599	61	1,463	(24)	170	0	0	0	(24)
2025	0.00%	0	1,970	67	1,665	61	1,524	(24)	170	0	0	0	(24)
2026	0.00%	0	1,970	67	1,732	61	1,585	(24)	170	0	0	0	(24)
2027	0.00%	0	1,970	67	1,798	61	1,645	(24)	170	0	0	0	(24)
2028	0.00%	0	1,970	67	1,865	61	1,706	(24)	170	0	0	0	(24)
2029	0.00%	0	1,970	67	1,932	61	1,767	(24)	170	0	0	0	(24)
2030	0.00%	0	1,970	67	1,998	61	1,828	(24)	170	0	0	0	(24)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(55)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	170
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME MTRQ501R - Meters QS

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2001	3.75%	74	5	1,932	67	(50)	2,053	1,981	2,017
2002	7.22%	142	21	1,865	133	(18)	1,981	1,894	1,932
2003	6.68%	132	27	1,799	200	9	1,894	1,790	1,837
2004	6.18%	122	23	1,732	266	32	1,790	1,700	1,745
2005	5.71%	113	20	1,665	333	52	1,700	1,613	1,656
2006	5.28%	104	17	1,599	400	69	1,613	1,530	1,571
2007	4.89%	96	14	1,532	466	82	1,530	1,450	1,490
2008	4.52%	89	11	1,465	533	93	1,450	1,372	1,411
2009	4.46%	88	10	1,399	599	104	1,372	1,295	1,334
2010	4.46%	88	10	1,332	666	114	1,295	1,218	1,257
2011	4.46%	88	10	1,266	733	124	1,218	1,141	1,180
2012	4.46%	88	10	1,199	799	135	1,141	1,064	1,103
2013	4.46%	88	10	1,132	866	145	1,064	987	1,026
2014	4.46%	88	10	1,066	933	156	987	910	949
2015	4.46%	88	10	999	999	166	910	833	872
2016	4.46%	88	10	933	1,066	178	833	756	795
2017	4.46%	88	10	866	1,132	187	756	679	718
2018	4.46%	88	10	799	1,199	197	679	602	641
2019	4.46%	88	10	733	1,266	208	602	525	564
2020	4.46%	88	10	666	1,332	218	525	448	487
2021	2.23%	44	(6)	599	1,399	212	448	388	418
2022	0.00%	0	(24)	533	1,465	188	388	345	366
2023	0.00%	0	(24)	466	1,532	165	345	302	323
2024	0.00%	0	(24)	400	1,599	141	302	258	280
2025	0.00%	0	(24)	333	1,665	118	258	215	237
2026	0.00%	0	(24)	266	1,732	94	215	172	194
2027	0.00%	0	(24)	200	1,799	71	172	129	151
2028	0.00%	0	(24)	133	1,865	47	129	86	108
2029	0.00%	0	(24)	67	1,932	24	86	43	65
2030	0.00%	0	(24)	0	1,998	0	43	0	22

* Column not specified in workbook

0355

Project

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PAGE 1 OF 1

(1) YEAR	(2) NO YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($A/M)	(7) CUMULATIVE AVERAGE SPENDING ($A/M)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.60%	1.026	0.00%	0.00	0.00
1996	-5	2.62%	1.053	0.84%	4.82	2.46
1997	-4	3.15%	1.089	1.86%	10.03	8.82
1998	-3	3.62%	1.126	13.00%	61.35	55.62
1999	-2	3.85%	1.169	60.50%	393.17	282.88
2000	-1	3.88%	1.214	24.00%	182.01	570.47
				100.00%	651.48	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($A/M)	(8a)* DEBT AFUDC ($A/M)	(8b)* CUMULATIVE DEBT AFUDC ($A/M)	(9) YEARLY TOTAL AFUDC ($A/M)	(9a)* CUMULATIVE TOTAL AFUDC ($A/M)	(9b)* CONSTRUCTION PERIOD INTEREST ($A/M)	(9c)* CUMULATIVE CPI ($A/M)	(9d)* DEFERRED TAXES ($A/M)	(9e)* CUMULATIVE DEFERRED TAXES ($A/M)	(10) INCREMENTAL YEAR-END BOOK VALUE ($A/M)	(11) CUMULATIVE YEAR-END BOOK VALUE ($A/M)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.46	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.30	0.48	0.58	1.12	1.39	1.02	1.28	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.09	6.25	7.64	5.80	6.95	(1.22)	(1.48)	87.81	103.94
1999	-2	300.52	13.39	16.37	32.88	40.62	28.84	35.94	(6.44)	(7.93)	426.15	530.09
2000	-1	811.10	27.24	43.61	67.60	108.22	60.74	97.68	(12.92)	(20.86)	228.81	758.70
			43.61		108.22							

	IN SERVICE YEA	2001
	PLANT COSTS	556
	AFUDC RATE	10.82%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	1,714	1,714	1,714
EQUITY AFUDC	170		
DEBT AFUDC	115	115	
CPI			257
TOTAL	1,884	1,829	1,971

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME MTRGS01R - Meter GS

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWN)	(5) AVOIDED MARGINAL FUEL COST (CAWN)	(6)* INCREASED MARGINAL FUEL COST (CAWN)	(7) REPLACEMENT FUEL COST (CAWN)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.12	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.41	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.51	1.92	0.00	1.00	1.00
1997	590	590	0.00	3.85	2.03	0.00	1.00	1.00
1998	1,200	1,200	0.00	4.08	2.04	0.00	1.00	1.00
1999	1,620	1,620	0.00	4.76	2.19	0.00	1.00	1.00
2000	1,860	1,860	0.00	4.72	2.43	0.00	1.00	1.00
2001	1,960	1,960	0.00	5.17	2.52	5.01	1.00	1.00
2002	1,960	1,960	0.00	5.51	2.59	5.43	1.00	1.00
2003	1,960	1,960	0.00	6.09	2.77	5.37	1.00	1.00
2004	1,960	1,960	0.00	6.62	2.84	5.95	1.00	1.00
2005	1,960	1,960	0.00	6.99	3.14	5.89	1.00	1.00
2006	1,960	1,960	0.00	7.40	3.30	6.32	1.00	1.00
2007	1,960	1,960	0.00	8.18	3.57	6.86	1.00	1.00
2008	1,960	1,960	0.00	8.55	3.81	7.04	1.00	1.00
2009	1,960	1,960	0.00	8.85	3.92	7.57	1.00	1.00
2010	1,960	1,960	0.00	9.52	4.18	8.37	1.00	1.00
2011	1,960	1,960	0.00	9.88	4.14	8.53	1.00	1.00
2012	1,960	1,960	0.00	10.28	4.53	8.98	1.00	1.00
2013	1,960	1,960	0.00	11.00	4.82	9.57	1.00	1.00
2014	1,960	1,960	0.00	11.88	4.80	10.14	1.00	1.00
2015	1,960	1,960	0.00	12.19	5.18	10.51	1.00	1.00
2016	1,960	1,960	0.00	12.93	5.30	11.12	1.00	1.00
2017	1,960	1,960	0.00	13.67	5.66	11.73	1.00	1.00
2018	1,960	1,960	0.00	13.67	5.95	12.36	1.00	1.00
2019	1,960	1,960	0.00	14.47	6.25	13.06	1.00	1.00
2020	1,960	1,960	0.00	15.31	6.57	13.77	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.

0357

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME MTRG301R - Meters G5

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PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	405	73	2,849	391	599	274
2003	392	79	3,102	443	674	241
2004	378	79	3,277	488	674	273
2005	364	83	3,448	532	753	230
2006	351	87	3,288	528	808	273
2007	338	91	3,006	489	656	265
2008	326	95	2,742	441	584	281
2009	314	100	2,567	422	552	288
2010	303	105	2,850	474	627	257
2011	291	110	2,988	500	691	213
2012	279	116	2,209	375	495	277
2013	269	122	1,795	308	403	295
2014	258	128	1,821	312	413	295
2015	248	135	1,867	341	454	266
2016	232	142	2,323	400	523	256
2017	222	149	2,221	381	503	252
2018	210	157	2,250	365	511	244
2019	199	165	2,339	399	532	233
2020	187	174	2,536	421	579	218
	176	183	2,695	451	610	203
NOM	5,727	2,369	52,427	8,487	11,527	5,119
NPV	1,806	545	14,783	2,322	3,203	1,375

0368

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MTRQ501R - Motors Q5

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	17	3	20	8	12	19	39	0
1998	27	6	44	17	27	43	120	0
1999	47	8	55	21	35	56	218	0
2000	56	11	67	25	44	69	299	0
2001	54	11	65	24	47	71	320	0
2002	52	12	64	23	49	72	340	0
2003	50	12	63	23	51	74	376	0
2004	49	13	62	22	53	75	409	0
2005	47	13	60	21	56	77	430	0
2006	46	14	60	20	58	79	457	0
2007	44	15	59	20	61	81	504	0
2008	42	15	58	19	64	83	528	0
2009	41	16	57	18	67	85	534	0
2010	39	17	56	18	71	88	588	0
2011	38	18	56	17	74	91	609	0
2012	36	19	55	16	78	94	635	0
2013	35	20	54	16	82	98	680	0
2014	33	21	54	15	87	101	721	0
2015	32	22	54	14	91	105	753	0
2016	30	23	53	13	96	109	799	0
2017	29	24	53	13	101	114	844	0
2018	27	25	53	12	106	118	844	0
2019	26	27	53	12	112	123	894	0
2020	25	28	53	11	117	129	948	0
NOM.	932	383	1,325	417	1,838	2,055	12,851	0
NPV	330	102	433	148	426	574	3,185	0

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

0369

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MTRQ501R - Motors Q5

PSC FORM CE 2.3
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	185	549	0	714	0	39	36	0	75	(639)	(491)
1998	0	202	669	0	871	0	87	120	0	207	(663)	(956)
1999	0	104	344	0	448	0	111	218	0	329	(120)	(1,033)
2000	0	109	360	0	469	0	136	266	0	403	(67)	(1,072)
2001	0	0	0	0	0	274	136	320	0	729	729	(579)
2002	0	0	0	0	0	241	136	340	0	717	717	(325)
2003	0	0	0	0	0	273	136	378	0	788	788	30
2004	0	0	0	0	0	230	137	408	0	775	775	351
2005	0	0	0	0	0	273	137	430	0	839	839	669
2006	0	0	0	0	0	285	138	457	0	880	880	967
2007	0	0	0	0	0	281	139	504	0	824	824	1,261
2008	0	0	0	0	0	286	141	526	0	855	855	1,539
2009	0	0	0	0	0	257	142	534	0	834	834	1,767
2010	0	0	0	0	0	213	144	588	0	946	946	2,018
2011	0	0	0	0	0	277	147	609	0	1,032	1,032	2,248
2012	0	331	1,099	0	1,430	295	149	635	0	1,079	(351)	2,179
2013	0	408	1,353	0	1,761	285	152	680	0	1,117	(644)	2,059
2014	0	212	702	0	914	289	155	721	0	1,148	231	2,099
2015	0	223	739	0	962	295	158	753	0	1,161	205	2,129
2016	0	0	0	0	0	252	162	799	0	1,213	1,213	2,302
2017	0	0	0	0	0	244	166	844	0	1,255	1,255	165
2018	0	0	0	0	0	233	171	844	0	1,248	1,248	150
2019	0	0	0	0	0	218	176	894	0	1,288	1,288	142
2020	0	0	0	0	0	203	182	948	0	1,330	1,330	134
NOM	0	1,754	5,814	0	7,568	5,119	3,380	12,851	0	21,350	13,782	
NPV	0	815	2,038	0	2,853	1,375	1,006	3,185	0	5,546	2,693	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 2.09

0370

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME MTRQ501R - Motors Q5

PSC FORM CE 2.4
PAGE 1 OF 1

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	84	0	147	0	231	548	0	0	548	(317)	(243)
1998	272	0	172	0	444	669	0	0	669	(225)	(401)
1999	430	0	85	0	515	344	0	0	344	170	(262)
2000	543	0	85	0	628	360	0	0	360	268	(134)
2001	619	0	0	0	619	0	0	0	0	619	200
2002	647	0	0	0	647	0	0	0	0	647	520
2003	683	0	0	0	683	0	0	0	0	683	828
2004	706	0	0	0	706	0	0	0	0	706	1,120
2005	735	0	0	0	735	0	0	0	0	735	1,368
2006	770	0	0	0	770	0	0	0	0	770	1,595
2007	810	0	0	0	810	0	0	0	0	810	1,803
2008	843	0	0	0	843	0	0	0	0	843	2,166
2009	887	0	0	0	887	0	0	0	0	887	2,404
2010	920	0	0	0	920	0	0	0	0	920	2,629
2011	977	0	0	0	977	0	0	0	0	977	2,847
2012	1,016	0	147	0	1,163	1,099	0	0	1,099	64	2,899
2013	1,074	0	172	0	1,246	1,353	0	0	1,353	(107)	2,840
2014	1,138	0	85	0	1,223	702	0	0	702	521	2,929
2015	1,172	0	85	0	1,257	739	0	0	739	518	3,010
2016	1,234	0	0	0	1,234	0	0	0	0	1,234	3,167
2017	1,301	0	0	0	1,301	0	0	0	0	1,301	171
2018	1,380	0	0	0	1,380	0	0	0	0	1,380	184
2019	1,406	0	0	0	1,406	0	0	0	0	1,406	155
2020	1,484	0	0	0	1,484	0	0	0	0	1,434	150
NOM	21,111	0	978	0	22,089	5,814	0	0	5,814	16,274	
NPV	5,436	0	429	0	5,865	2,038	0	0	2,038	3,827	

In Service of Gen Unit: 2001

Discount Rate: 9.22

Benefit/Cost Ratio (Col(6) / Col(10)): 2.88

0374

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME MTRG501R - Motors GS

PSC FORM CE 2.5
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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	165	147	62	0	374	36	39	0	0	75	(299)	(230)
1998	0	202	172	201	0	575	120	67	0	0	207	(368)	(488)
1999	0	104	85	318	0	507	218	111	0	0	329	(178)	(602)
2000	0	109	86	432	0	586	286	136	0	0	422	(164)	(717)
2001	0	0	0	458	0	458	583	138	0	0	720	271	(571)
2002	0	0	0	479	0	479	581	138	0	0	717	238	(452)
2003	0	0	0	505	0	505	643	138	0	0	780	281	(327)
2004	0	0	0	521	0	521	638	137	0	0	775	254	(222)
2005	0	0	0	544	0	544	702	137	0	0	839	296	(110)
2006	0	0	0	570	0	570	722	138	0	0	860	290	(9)
2007	0	0	0	600	0	600	785	139	0	0	924	324	94
2008	0	0	0	624	0	624	814	141	0	0	955	331	180
2009	0	0	0	657	0	657	782	142	0	0	924	277	264
2010	0	0	0	681	0	681	801	144	0	0	946	265	329
2011	0	0	0	723	0	723	886	147	0	0	1,032	310	366
2012	0	321	147	752	0	1,220	930	149	0	0	1,079	(151)	307
2013	0	408	172	795	0	1,375	965	152	0	0	1,117	(258)	319
2014	0	212	85	842	0	1,139	990	155	0	0	1,148	7	320
2015	0	223	85	867	0	1,175	1,008	158	0	0	1,166	(9)	319
2016	0	0	0	913	0	913	1,051	162	0	0	1,213	300	382
2017	0	0	0	963	0	963	1,088	166	0	0	1,255	292	38
2018	0	0	0	1,008	0	1,008	1,077	171	0	0	1,248	241	29
2019	0	0	0	1,041	0	1,041	1,109	176	0	0	1,285	245	27
2020	0	0	0	1,099	0	1,079	1,149	182	0	0	1,330	232	23
NOM.	0	1,754	978	15,822	0	18,354	17,971	3,380	0	0	21,350	2,993	
NPV	0	815	429	4,023	0	5,066	4,540	1,006	0	0	5,546	480	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.09

0372

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

GS RATE CLASS	FPL-M-1
(1) UTILITY NON RECURRING COST PER CUSTOMER	$15
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$51
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$16
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 % *	
(3) DEMAND CHARGE IN CUSTOMER BILL	0	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0 % *	

* Values apply to first year only.

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME MTRQS04R - Motors QS

01/26/95

PSC FORM CE 1
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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.00	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.34	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMEF	3,151.4	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	29	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85888	
(5) K FACTOR FOR T & D	1.86867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOME	***	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2004	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2003	
(4) BASE YEAR AVOIDED GENERATING COST	558	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	50	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	55%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	4.20	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	8.34	%**

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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

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* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME MTRQ504R - Motors Q5

01/26/95

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0
2002	132	0	0	0	0	0	0	0	0	0
2003	136	98	0	0	0	0	0	0	0	0
2004	144	98	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0
2017	271	98	0	0	0	0	0	0	0	0
2018	285	98	0	0	0	0	0	0	0	0
2019	300	98	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0
NOM	1,270	590	0	1,859	9,824	0	4,210	0	0	4,210
NPV	317	185	0	501	1,951	0	1,050	0	0	1,050

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

...ULATION

...D SELECTED: REV_REQ

PROGRAM NAME:MTRG504R - Meters G5

01/29/96

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2004	3.75%	50	3	1,304	45	(34)	1,301	1,338	1,302
2005	7.22%	88	21	1,259	90	(12)	1,338	1,271	1,305
2006	6.68%	89	18	1,214	135	9	1,271	1,208	1,240
2007	6.18%	82	16	1,169	180	22	1,208	1,147	1,178
2008	5.71%	76	13	1,124	225	35	1,147	1,089	1,118
2009	5.29%	70	11	1,079	270	46	1,089	1,033	1,061
2010	4.89%	65	9	1,034	315	58	1,033	979	1,006
2011	4.52%	60	7	989	360	63	979	926	952
2012	4.46%	59	7	944	405	70	926	874	900
2013	4.46%	59	7	899	450	77	874	822	848
2014	4.46%	59	7	854	495	84	822	770	796
2015	4.46%	59	7	809	540	91	770	718	744
2016	4.46%	59	7	764	585	98	718	666	692
2017	4.46%	59	7	719	630	105	666	614	640
2018	4.46%	59	7	674	674	112	614	562	588
2019	4.46%	59	7	630	719	119	562	510	536
2020	4.46%	59	7	585	764	126	510	458	484
2021	4.46%	59	7	540	809	133	458	406	432
2022	4.46%	59	7	495	854	140	406	354	380
2023	4.46%	59	7	450	899	147	354	302	328
2024	4.46%	59	7	405	944	143	302	252	282
2025	2.25%	30	7	360	989	127	252	223	247
2026	0.00%	0	(4)	315	1,034	111	223	204	218
2027	0.00%	0	(18)	270	1,079	95	204	175	189
2028	0.00%	0	(18)	225	1,124	79	175	145	160
2029	0.00%	0	(18)	180	1,169	63	145	116	131
2030	0.00%	0	(18)	135	1,214	48	116	87	102
2031	0.00%	0	(18)	90	1,259	32	87	58	73
2032	0.00%	0	(18)	45	1,304	16	58	29	44
2033	0.00%	0	(18)	0	1,349	0	29	0	15

* Column not specified in workbook

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01/26/05

(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)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.80%	1.028	0.00%	0.00	0.00
1996	-8	2.67%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.62%	1.126	0.00%	0.00	0.00
1999	-5	3.85%	1.169	0.84%	5.46	2.73
2000	-4	3.86%	1.214	1.66%	11.21	11.08
2001	-3	3.83%	1.260	13.00%	91.21	62.27
2002	-2	3.88%	1.311	60.50%	440.82	326.33
2003	-1	3.95%	1.363	24.00%	181.82	639.70
				100.00%	730.61	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.06)	(0.06)	5.76	5.76
2000	-4	11.36	0.50	0.62	1.25	1.55	1.13	1.41	(0.24)	(0.30)	12.45	18.21
2001	-3	93.81	2.62	3.44	7.00	8.55	6.37	7.77	(1.37)	(1.67)	98.21	116.42
2002	-2	336.88	14.80	18.34	36.97	45.52	33.81	41.38	(7.22)	(8.89)	477.09	594.31
2003	-1	665.21	30.54	48.88	75.80	121.31	88.11	109.49	(15.18)	(23.36)	257.61	851.92
			48.88	71.41	121.31		109.49		(23.36)		851.92	

IN SERVICE YEA		2004
PLANT COSTS		556
AFUDC RATE		10.82%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	1,157	1,157	1,157
EQUITY AFUDC	115		
DEBT AFUDC	77	77	
CPI			173
TOTAL	1,349	1,234	1,330

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* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME MTRG504R - Motors 05

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PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CA¢/kWh)	(5) AVOIDED MARGINAL FUEL COST (CA¢/kWh)	(6)* INCREASED MARGINAL FUEL COST (CA¢/kWh)	(7) REPLACEMENT FUEL COST (CA¢/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.12	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.41	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.51	1.92	0.00	1.00	1.00
1997	0	0	0.00	3.85	2.03	0.00	1.00	1.00
1998	0	0	0.00	4.08	2.04	0.00	1.00	1.00
1999	0	0	0.00	4.76	2.19	0.00	1.00	1.00
2000	0	0	0.00	4.72	2.43	0.00	1.00	1.00
2001	393	393	0.00	5.17	2.52	0.00	1.00	1.00
2002	787	787	0.00	5.51	2.59	0.00	1.00	1.00
2003	1,180	1,180	0.00	6.08	2.77	0.00	1.00	1.00
2004	1,180	1,180	0.00	6.62	2.84	5.95	1.00	1.00
2005	1,180	1,180	0.00	6.96	3.14	5.89	1.00	1.00
2006	1,180	1,180	0.00	7.40	3.30	6.32	1.00	1.00
2007	1,180	1,180	0.00	8.18	3.57	6.85	1.00	1.00
2008	1,180	1,180	0.00	8.55	3.81	7.04	1.00	1.00
2009	1,180	1,180	0.00	8.65	3.82	7.37	1.00	1.00
2010	1,180	1,180	0.00	8.52	4.18	8.37	1.00	1.00
2011	1,180	1,180	0.00	8.86	4.14	8.53	1.00	1.00
2012	1,180	1,180	0.00	10.28	4.53	8.98	1.00	1.00
2013	1,180	1,180	0.00	11.00	4.82	9.57	1.00	1.00
2014	1,180	1,180	0.00	11.88	4.88	10.14	1.00	1.00
2015	1,180	1,180	0.00	12.19	5.18	10.51	1.00	1.00
2016	1,180	1,180	0.00	12.83	5.39	11.12	1.00	1.00
2017	1,180	1,180	0.00	13.67	5.86	11.73	1.00	1.00
2018	1,180	1,180	0.00	13.87	5.90	12.38	1.00	1.00
2019	1,180	1,180	0.00	14.47	6.25	13.06	1.00	1.00
2020	1,180	1,180	0.00	15.31	6.57	13.77	1.00	1.00
2021	1,180	1,180	0.00	16.21	6.90	14.53	1.00	1.00
2022	1,180	1,180	0.00	17.16	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MTRGS04R - Motors GS

PSC FORM CE 2.1
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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	274	50	2	320	453	183
2005	266	52	2	318	419	218
2006	255	55	2	294	366	211
2007	248	57	2	266	352	219
2008	237	60	2	254	332	220
2009	226	63	2	266	378	201
2010	220	66	2	301	416	173
2011	212	70	1	229	296	210
2012	204	73	1	184	242	229
2013	196	77	1	186	249	214
2014	188	81	1	205	273	203
2015	181	85	1	241	315	184
2016	173	90	1	230	303	191
2017	165	95	1	232	307	186
2018	157	100	1	240	320	178
2019	150	105	2	259	348	167
2020	142	110	2	272	367	158
2021	134	116	2	278	377	152
2022	128	122	2	288	391	145
NOM	3,755	1,527	29	4,678	6,536	3,853
NPV	870	281	6	1,057	1,418	796

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MTRG504R - Motors G3

01/28/95

PSC FORM CE 2.3
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(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	12	2	15	8	7	15	32	0
2003	28	5	31	8	23	31	102	0
2004	39	7	47	12	36	48	169	0
2005	38	8	46	18	32	50	246	0
2006	37	8	45	17	33	50	259	0
2007	36	8	44	16	35	51	275	0
2008	34	9	43	15	37	52	303	0
2009	33	9	42	16	38	53	316	0
2010	32	10	42	14	40	53	322	0
2011	31	10	41	14	42	55	354	0
2012	30	11	41	13	45	58	367	0
2013	29	11	40	13	47	58	382	0
2014	28	12	40	12	50	62	409	0
2015	27	13	39	12	52	64	434	0
2016	26	13	39	11	55	66	453	0
2017	25	14	38	11	58	69	481	0
2018	24	15	38	11	61	71	500	0
2019	23	15	38	10	64	74	508	0
2020	21	16	38	10	67	77	533	0
2021	20	17	38	9	71	80	569	0
2022	19	18	37	9	74	83	603	0
	18	19	37	8	78	86	638	0
NOM.	609	249	858	272	1,039	1,311	8,291	0
NPV	160	50	210	72	209	280	1,815	0

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MTRGS04R - Motors GS

01/05/96

PSC FORM CE 2.3
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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	132	437	0	568	0	30	0	0	82	(506)	(272)
2003	0	138	457	0	594	0	62	32	0	165	(430)	(485)
2004	0	144	478	0	622	0	95	102	0	284	(338)	(636)
2005	0	0	0	0	0	193	95	189	0	533	533	(417)
2006	0	0	0	0	0	218	95	248	0	571	571	(200)
2007	0	0	0	0	0	211	95	259	0	581	581	1
2008	0	0	0	0	0	219	95	275	0	617	617	197
2009	0	0	0	0	0	220	95	303	0	634	634	381
2010	0	0	0	0	0	201	95	318	0	619	619	546
2011	0	0	0	0	0	173	95	322	0	625	625	699
2012	0	0	0	0	0	210	97	354	0	678	678	849
2013	0	0	0	0	0	220	99	367	0	703	703	993
2014	0	0	0	0	0	214	100	352	0	725	725	1,129
2015	0	0	0	0	0	203	102	409	0	741	741	1,256
2016	0	0	0	0	0	194	103	434	0	752	752	1,372
2017	0	271	869	0	1,170	191	105	453	0	779	(391)	1,317
2018	0	285	936	0	1,221	186	107	481	0	803	(426)	1,261
2019	0	300	995	0	1,295	178	109	508	0	798	(497)	1,201
2020	0	0	0	0	0	167	112	508	0	819	819	1,202
2021	0	0	0	0	0	158	114	536	0	845	845	1,377
2022	0	0	0	0	0	152	117	569	0	875	875	1,458
						145	120	603	0	908	908	1,534
NOM	0	1,270	4,210	0	5,480	3,853	2,109	8,291	0	14,114	8,634	#VALUE!
NPV	0	317	1,050	0	1,366	766	490	1,815	0	2,801	1,534	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 2.12

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MTRGSo4R - Motors GS

01/28/95

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PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	92	0	88	0	180	437	0	0	437	(278)	(148)
2002	195	0	98	0	293	457	0	0	457	(163)	(81)
2003	342	0	98	0	441	478	0	0	478	(37)	(17)
2004	424	0	0	0	424	0	0	0	0	424	176
2005	442	0	0	0	442	0	0	0	0	442	168
2006	463	0	0	0	463	0	0	0	0	463	161
2007	488	0	0	0	488	0	0	0	0	488	155
2008	508	0	0	0	508	0	0	0	0	508	148
2009	534	0	0	0	534	0	0	0	0	534	142
2010	554	0	0	0	554	0	0	0	0	554	135
2011	588	0	0	0	588	0	0	0	0	588	131
2012	612	0	0	0	612	0	0	0	0	612	125
2013	647	0	0	0	647	0	0	0	0	647	121
2014	685	0	0	0	685	0	0	0	0	685	117
2015	705	0	0	0	705	0	0	0	0	705	111
2016	743	0	38	0	841	899	0	0	899	(58)	(8)
2017	783	0	98	0	881	946	0	0	946	(64)	(8)
2018	819	0	98	0	917	995	0	0	995	(78)	(9)
2019	847	0	0	0	847	0	0	0	0	847	93
2020	894	0	0	0	894	0	0	0	0	894	90
2021	944	0	0	0	944	0	0	0	0	944	87
2022	997	0	0	0	997	0	0	0	0	997	84
NOM	13,275	0	580	0	13,865	4,210	0	0	4,210	9,655	
NPV	2,937	0	185	0	2,821	1,050	0	0	1,050	1,772	

In Service of Gen Unit: 2004

Discount Rate : 9.22

Benefit/Cost Ratio (Col(6) / Col(10)) 2.69

0384

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME MTRQ504R - Meters QS

01/26/96

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	132	86	48	0	278	32	30	0	0	62	(213)	(115)
2002	0	136	86	144	0	366	102	62	0	0	165	(216)	(106)
2003	0	144	86	253	0	486	189	95	0	0	284	(212)	(96)
2004	0	0	0	314	0	314	439	95	0	0	533	220	91
2005	0	0	0	327	0	327	476	95	0	0	571	244	92
2006	0	0	0	343	0	343	486	95	0	0	581	238	83
2007	0	0	0	361	0	361	522	95	0	0	617	256	81
2008	0	0	0	376	0	376	536	98	0	0	634	258	75
2009	0	0	0	395	0	395	523	96	0	0	619	224	60
2010	0	0	0	410	0	410	527	97	0	0	625	215	52
2011	0	0	0	435	0	435	577	99	0	0	676	241	54
2012	0	0	0	453	0	453	603	100	0	0	703	250	51
2013	0	0	0	479	0	479	623	102	0	0	725	246	46
2014	0	0	0	507	0	507	637	103	0	0	741	234	40
2015	0	0	0	522	0	522	647	105	0	0	752	230	36
2016	0	271	86	550	0	919	672	107	0	0	779	(140)	(20)
2017	0	285	86	580	0	963	694	109	0	0	803	(160)	(21)
2018	0	300	86	606	0	1,004	686	112	0	0	798	(206)	(25)
2019	0	0	0	626	0	626	705	114	0	0	819	193	21
2020	0	0	0	681	0	681	728	117	0	0	845	164	19
2021	0	0	0	698	0	698	755	120	0	0	875	177	18
2022	0	0	0	726	0	726	793	124	0	0	908	180	14
NOM.	0	1,270	590	8,824	0	11,683	11,944	2,169	0	0	14,114	2,430	
NPV	0	317	185	1,951	0	2,453	2,415	490	0	0	2,901	448	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.18

0365

III. UTILITY & CUSTOMER COSTS (1993)$ PER CUSTOMER)

GS RATE CLASS	FPL-M-1
(1) UTILITY NON RECURRING COST PER CUSTOMER	$15
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$51
(6) CUSTOMER O&M COST	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$16
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

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

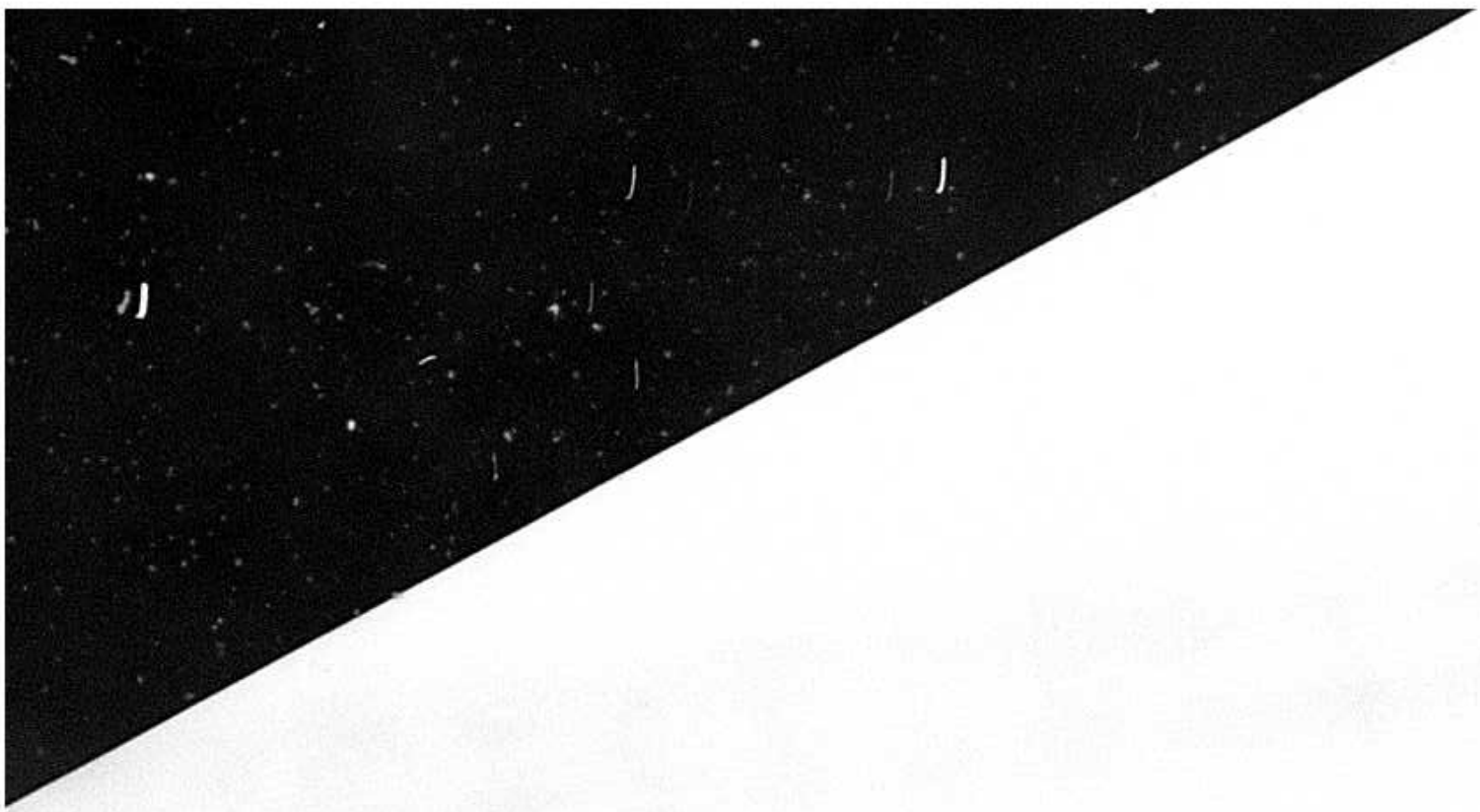
	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 % *	
(3) DEMAND CHARGE IN CUSTOMER BILL	0	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0 % *	

* Values apply to first year only.

0396



OFF PEAK BATTERY
CHARGING

OFF PEAK BATTERY CHARGING

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	2,094	1,075	1.95	1,282	415	3.09	2,094	519	4.03
1997-2000	4,304	2,556	1.68	3,060	993	3.08	4,304	1,241	3.47
2001-2003	760	407	1.87	489	159	3.08	760	198	3.84
1995-2003	7,158	4,038	1.77	4,831	1,567	3.08	7,158	1,958	3.66

INPUT DATA – PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: C96X- Battery Charger

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PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.86	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.16	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	1,704.3	kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	1571.0	kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.8495?	
(5) K FACTOR FOR T & D	1.8868?	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER MMBtu** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.24	%**

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 12
**** 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.

0388

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: 0196.X- Battery Charger

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	39	37	0	76	0	21	105	5	0	110
1996	45	42	0	87	0	83	122	11	0	133
1997	0	0	0	0	0	85	0	11	0	11
1998	0	0	0	0	0	86	0	12	0	12
1999	0	0	0	0	0	88	0	12	0	12
2000	0	0	0	0	0	88	0	13	0	13
2001	0	0	0	0	0	91	0	13	0	13
2002	0	0	0	0	0	95	0	14	0	14
2003	0	0	0	0	0	100	0	14	0	14
2004	0	0	0	0	0	103	0	15	0	15
2005	0	0	0	0	0	108	0	16	0	16
2006	0	0	0	0	0	114	0	16	0	16
2007	0	0	0	0	0	120	0	17	0	17
2008	0	0	0	0	0	126	0	18	0	18
2009	0	0	0	0	0	132	0	19	0	19
2010	0	0	0	0	0	139	0	20	0	20
2011	0	0	0	0	0	147	0	21	0	21
2012	0	0	0	0	0	152	0	22	0	22
2013	0	0	0	0	0	160	0	23	0	23
2014	0	0	0	0	0	170	0	25	0	25
2015	97	37	0	134	0	175	204	28	0	230
2016	115	42	0	157	0	184	312	27	0	339
NOM	295	159	0	454	0	2,542	802	270	0	1,172
NPV	105	81	0	186	0	889	285	130	0	415

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: CSEX- Battery Charger

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	743	33	6	43	30	12	25	2	149	149	149
1998	712	31	5	41	29	12	25	12	145	132	281
1999	678	30	5	39	28	12	25	10	139	117	398
2000	642	28	5	37	27	12	25	9	134	103	501
2001	610	27	5	35	25	12	25	7	129	91	592
2002	579	25	4	33	24	12	25	6	125	80	672
2003	548	24	4	32	23	12	25	5	120	71	743
2004	518	23	4	30	22	12	25	4	116	63	806
2005	491	22	4	28	21	12	25	4	111	56	862
2006	462	20	4	27	20	12	25	4	107	49	911
2007	434	19	3	25	19	12	25	4	103	43	954
2008	408	18	3	24	18	12	25	4	99	37	991
2009	377	17	3	23	17	12	25	4	94	33	1,024
2010	348	15	3	22	16	12	25	4	90	29	1,053
2011	321	14	2	20	14	12	25	4	86	26	1,079
2012	292	13	2	19	13	12	25	4	82	22	1,101
2013	264	12	2	18	12	12	25	4	77	19	1,120
2014	235	10	2	17	11	12	25	4	73	16	1,136
2015	207	9	2	15	9	12	25	4	68	14	1,150
2016	179	8	2	14	8	12	25	4	64	12	1,162
2017	153	7	1	12	7	12	25	4	61	10	1,172
2018	134	6	1	10	6	12	25	(2)	56	8	1,180
2019	119	5	1	9	5	12	25	(3)	55	7	1,187
2020	103	5	1	8	10	12	25	(3)	53	6	1,193
2021	87	4	1	7	16	12	25	(3)	51	5	1,198
2022	71	3	1	5	16	12	25	(3)	49	4	1,202
2023	56	2	1	4	14	12	25	(3)	46	3	1,206
2024	40	2	0	3	13	12	25	(3)	44	3	1,209
2025	24	1	0	2	12	12	25	(3)	41	2	1,211
2026	8	0	0	1	12	12	25	(3)	38	2	1,213
				0	11	12	25	(3)		1	1,214
					10	12	25	(3)		1	1,215
						12	25	(3)		1	1,216
							25	(3)		1	1,217
								(3)		1	1,218

IN SERVICE COST ($000) 729
IN SERVICE YEAR 1997
BOOK LIFE (YRS) 30
EFFEC. TAX RATE 0.3783
DISCOUNT RATE 8.22%
OTAX & INS RATE 1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST =

1.64967

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:DBEX- Battery Charger

PSC FORM CE 1.1A
PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	27	27	25	25	23	23	2	54	0	0	0	2
1998	7.22%	53	80	25	49	23	46	12	54	0	0	0	12
1999	6.68%	49	129	25	74	23	69	10	54	0	0	0	10
2000	6.18%	45	174	25	98	23	91	9	54	0	0	0	9
2001	5.71%	42	216	25	123	23	114	7	54	0	0	0	7
2002	5.28%	39	254	25	148	23	137	6	54	0	0	0	6
2003	4.89%	36	290	25	172	23	160	5	54	0	0	0	5
2004	4.52%	33	323	25	197	23	183	4	54	0	0	0	4
2005	4.46%	33	355	25	222	23	206	4	54	0	0	0	4
2006	4.46%	33	388	25	246	23	229	4	54	0	0	0	4
2007	4.46%	33	421	25	271	23	251	4	54	0	0	0	4
2008	4.46%	33	453	25	295	23	274	4	54	0	0	0	4
2009	4.46%	33	486	25	320	23	297	4	54	0	0	0	4
2010	4.46%	33	518	25	345	23	320	4	54	0	0	0	4
2011	4.46%	33	551	25	369	23	342	4	54	0	0	0	4
2012	4.46%	33	583	25	394	23	365	4	54	0	0	0	4
2013	4.46%	33	616	25	419	23	388	4	54	0	0	0	4
2014	4.46%	33	648	25	443	23	411	4	54	0	0	0	4
2015	4.46%	33	681	25	468	23	434	4	54	0	0	0	4
2016	4.46%	33	714	25	492	23	458	4	54	0	0	0	4
2017	2.25%	16	730	25	517	23	479	(2)	54	0	0	0	(2)
2018	0.00%	0	730	25	542	23	502	(9)	54	0	0	0	(9)
2019	0.00%	0	730	25	566	23	525	(9)	54	0	0	0	(9)
2020	0.00%	0	730	25	591	23	548	(9)	54	0	0	0	(9)
2021	0.00%	0	730	25	616	23	571	(9)	54	0	0	0	(9)
2022	0.00%	0	730	25	640	23	593	(9)	54	0	0	0	(9)
2023	0.00%	0	730	25	665	23	616	(9)	54	0	0	0	(9)
2024	0.00%	0	730	25	689	23	639	(9)	54	0	0	0	(9)
2025	0.00%	0	730	25	714	23	662	(9)	54	0	0	0	(9)
2026	0.00%	0	730	25	738	23	685	(9)	54	0	0	0	(9)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(17)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	54
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:DB5.0- Battery Charger

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
1997	3.75%	27	2	714	25	(10)	750	720	743
1998	7.22%	53	12	689	49	(4)	720	694	712
1999	6.68%	49	10	665	74	6	694	668	676
2000	6.18%	45	9	640	99	14	668	639	642
2001	5.71%	42	7	616	123	22	639	594	610
2002	5.28%	39	6	591	148	28	594	550	579
2003	4.89%	36	5	566	173	33	550	534	540
2004	4.52%	33	4	542	197	37	534	505	519
2005	4.46%	33	4	517	222	40	505	477	491
2006	4.46%	33	4	492	246	44	477	448	462
2007	4.46%	33	4	468	271	48	448	420	434
2008	4.46%	33	4	443	295	52	420	392	406
2009	4.46%	33	4	419	320	55	392	363	377
2010	4.46%	33	4	394	345	58	363	335	349
2011	4.46%	33	4	369	369	63	335	308	321
2012	4.46%	33	4	345	394	67	308	278	292
2013	4.46%	33	4	320	418	70	278	250	264
2014	4.46%	33	4	295	443	74	250	221	236
2015	4.46%	33	4	271	468	78	221	193	207
2016	4.46%	33	4	246	492	82	193	166	179
2017	4.46%	33	4	222	517	86	166	142	153
2018	2.25%	16	4	197	542	70	142	127	134
2019	0.00%	0	(2)	172	566	62	127	111	119
2020	0.00%	0	(9)	148	591	53	111	95	103
2021	0.00%	0	(9)	123	616	44	95	79	87
2022	0.00%	0	(9)	98	640	35	79	63	71
2023	0.00%	0	(9)	74	665	26	63	47	55
2024	0.00%	0	(9)	49	689	18	47	32	40
2025	0.00%	0	(9)	25	714	9	32	16	24
2026	0.00%	0	(9)	0	739	0	16	0	8

* Column not specified in workbook

0392

page6

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(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($/kW)	(7) CUMULATIVE AVERAGE SPENDING ($/kW)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.60%	1.026	44.58%	179.18	144.12
1996	-1	2.62%	1.053	41.54%	171.47	319.45
				100.00%	405.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) NCREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-3	27.27	1.20	1.20	2.98	2.98	2.73	2.73	(0.50)	(0.50)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	19.11	14.66	17.41	(3.10)	(3.70)	195.31	252.82
1996	-1	336.55	15.09	22.79	37.38	56.48	33.69	51.10	(7.18)	(10.93)	208.85	461.67
			22.79	31.69	56.48		51.10		(10.93)		461.67	

IN SERVICE YEA	1997
PLANT COSTS	302
AFUDC RATE	10.82%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	648	648	648
EQUITY AFUDC	54		
DEBT AFUDC	36	36	
CPI			62
TOTAL	720	685	720

(0393

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME C95.X- Battery Charger

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	(5) AVOIDED MARGINAL FUEL COST (C/kWh)	(6)* INCREASED MARGINAL FUEL COST (C/kWh)	(7) REPLACEMENT FUEL COST (C/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994								
1995	0	0	0.00	3.16	1.69	0.00	1.00	1.00
1996	650	650	0.00	3.58	1.92	0.00	1.00	1.00
1997	1,300	1,300	0.00	3.78	1.92	0.00	1.00	1.00
1998	1,300	1,300	0.00	4.23	2.03	4.28	1.00	1.00
1999	1,300	1,300	0.00	4.47	2.04	4.25	1.00	1.00
2000	1,300	1,300	0.00	5.33	2.19	7.85	1.00	1.00
2001	1,300	1,300	0.00	5.13	2.43	8.21	1.00	1.00
2002	1,300	1,300	0.00	5.82	2.52	8.42	1.00	1.00
2003	1,300	1,300	0.00	6.60	2.59	8.98	1.00	1.00
2004	1,300	1,300	0.00	6.57	2.77	9.28	1.00	1.00
2005	1,300	1,300	0.00	7.16	2.84	9.80	1.00	1.00
2006	1,300	1,300	0.00	7.48	3.14	9.82	1.00	1.00
2007	1,300	1,300	0.00	7.80	3.30	9.82	1.00	1.00
2008	1,300	1,300	0.00	8.84	3.57	9.70	1.00	1.00
2009	1,300	1,300	0.00	8.21	3.81	10.08	1.00	1.00
2010	1,300	1,300	0.00	10.30	3.92	10.57	1.00	1.00
2011	1,300	1,300	0.00	10.83	4.18	10.86	1.00	1.00
2012	1,300	1,300	0.00	11.08	4.14	11.45	1.00	1.00
2013	1,300	1,300	0.00	11.86	4.53	12.84	1.00	1.00
2014	1,300	1,300	0.00	12.67	4.82	13.05	1.00	1.00
2015	1,300	1,300	0.00	13.22	4.98	13.71	1.00	1.00
2016	1,300	1,300	0.00	14.08	5.18	14.19	1.00	1.00
					5.39	15.01	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: C95X- Battery Charger

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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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	148	42	0.002	1	1	191
1998	145	44	0.002	1	1	188
1999	139	46	0.014	4	8	181
2000	134	48	0.001	0	1	182
2001	129	50	0.002	1	1	179
2002	123	53	0.002	1	1	177
2003	120	55	0.003	1	2	174
2004	116	57	0.005	2	3	172
2005	111	60	0.003	1	2	171
2006	107	63	0.003	1	1	169
2007	103	66	0.005	2	3	168
2008	99	69	0.005	2	3	167
2009	94	72	0.003	1	1	166
2010	90	76	0.012	5	8	165
2011	86	80	0.010	4	6	165
2012	82	84	0.014	6	7	164
2013	77	88	0.017	7	9	164
2014	73	93	0.017	7	9	165
2015	69	98	0.017	7	9	166
2016	64	103	0.021	9	11	166
NOM	2,111	1,348	0.180	83	82	3,441
NPV	888	443	0.044	17	33	1,325

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: C95.X- Battery Charger

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	30	110	0	140	0	0	9	0	9	(130)	(126)
1996	0	45	133	0	178	0	0	32	0	32	(146)	(250)
1997	0	0	11	0	11	191	0	52	0	243	232	(72)
1998	0	0	12	0	12	188	0	57	0	245	234	92
1999	0	0	12	0	12	181	0	74	0	255	243	249
2000	0	0	13	0	13	182	0	64	0	246	233	366
2001	0	0	13	0	13	179	0	73	0	252	239	514
2002	0	0	14	0	14	177	0	78	0	255	241	633
2003	0	0	14	0	14	174	0	89	0	264	249	746
2004	0	0	15	0	15	172	0	102	0	274	259	853
2005	0	0	16	0	16	171	0	102	0	273	257	951
2006	0	0	16	0	16	139	0	108	0	278	261	1,041
2007	0	0	17	0	17	158	0	124	0	282	274	1,128
2008	0	0	18	0	18	167	0	127	0	294	276	1,209
2009	0	0	19	0	19	166	0	124	0	291	272	1,281
2010	0	0	20	0	20	165	0	144	0	309	289	1,351
2011	0	0	21	0	21	165	0	153	0	318	297	1,418
2012	0	0	22	0	22	164	0	154	0	318	296	1,476
2013	0	0	23	0	23	164	0	172	0	337	313	1,527
2014	0	0	25	0	25	165	0	183	0	348	323	1,572
2015	0	97	290	0	387	186	0	169	0	355	(32)	1,567
2016	0	115	339	0	453	166	0	204	0	371	(83)	1,575
NOM	0	295	1,172	0	1,466	3,441	0	2,414	0	5,855	4,388	
NPV	0	105	415	0	519	1,325	0	788	0	2,094	1,575	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 4.03

0397

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: C95X- Battery Charger

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	39	37	21	0	97	9	0	0	0	9	(88)	(80)
1996	0	46	42	63	0	150	32	0	0	0	32	(118)	(179)
1997	0	0	0	85	0	85	243	0	0	0	243	158	(58)
1998	0	0	0	86	0	86	245	0	0	0	245	160	54
1999	0	0	0	88	0	88	255	0	0	0	246	159	162
2000	0	0	0	88	0	88	245	0	0	0	256	168	256
2001	0	0	0	91	0	91	252	0	0	0	245	161	342
2002	0	0	0	95	0	95	255	0	0	0	252	160	421
2003	0	0	0	100	0	100	264	0	0	0	255	164	495
2004	0	0	0	103	0	103	274	0	0	0	264	171	566
2005	0	0	0	108	0	108	273	0	0	0	274	164	626
2006	0	0	0	114	0	114	278	0	0	0	273	164	685
2007	0	0	0	120	0	120	282	0	0	0	278	164	739
2008	0	0	0	125	0	125	284	0	0	0	282	172	789
2009	0	0	0	132	0	132	291	0	0	0	284	168	831
2010	0	0	0	139	0	139	300	0	0	0	291	168	873
2011	0	0	0	147	0	147	316	0	0	0	309	171	911
2012	0	0	0	152	0	152	316	0	0	0	316	170	945
2013	0	0	0	160	0	160	327	0	0	0	316	166	978
2014	0	0	0	170	0	170	348	0	0	0	327	177	1,008
2015	0	87	37	175	0	309	355	0	0	0	348	178	1,015
2016	0	115	42	184	0	340	371	0	0	0	355	45	1,020
											371	30	
NOM.	0	266	159	2,542	0	2,966	5,855	0	0	0	5,855	2,859	
NPV	0	105	81	869	0	1,075	2,094	0	0	0	2,094	1,020	

Discount Rate 8.22

Benefit/Cost Ratio (Col(12) / Col(7)) : 1.95

0399

OFF PEAK BATTERY CHARGING (1995 - 1996) ($ / kw)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES
	OFF PEAK BATTERY
GS RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	
(2) UTILITY RECURRING COST PER CUSTOMER	
(4) CUSTOMER EQUIPMENT COST	
(6) CUSTOMER O&M COST	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	
(13) UTILITY RECURRING REBATE/INCENTIVE	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	
GSD RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	55
(2) UTILITY RECURRING COST PER CUSTOMER	0
(4) CUSTOMER EQUIPMENT COST	151
(6) CUSTOMER O&M COST	7
(12) UTILITY NON RECURRING REBATE/INCENTIVE	57
(13) UTILITY RECURRING REBATE/INCENTIVE	0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%
GSLD RATE CLASS	
(1) UTILITY NON RECURRING COST PER CUSTOMER	
(2) UTILITY RECURRING COST PER CUSTOMER	
(4) CUSTOMER EQUIPMENT COST	
(6) CUSTOMER O&M COST	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	
(13) UTILITY RECURRING REBATE/INCENTIVE	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	

III. (3,5,7,9) ESCALATION R/PAGE 12

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.6%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	1.884	1.574	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	0.02	8.04	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	0 %	*

* Values apply to first year only.

0400

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: CI01R - Battery Charger

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.89	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.18	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	1,703.4	kWh ---
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	1570.2	kWh ----

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85480	
(5) K FACTOR FOR T & D	1.86887	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%~
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%~
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%~
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.016	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%~
(15) GENERATOR CAPACITY FACTOR	52%	-- (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh~ (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RA1	6.34	%~

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 12
---- 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: C001R - Battery Charger

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	53	48	0	101	0	27	144	7	0	151
1998	85	56	0	120	0	83	175	15	0	191
1999	87	56	0	123	0	145	183	24	0	208
2000	71	56	0	126	0	209	192	34	0	226
2001	0	0	0	0	0	247	0	36	0	36
2002	0	0	0	0	0	258	0	37	0	37
2003	0	0	0	0	0	271	0	39	0	39
2004	0	0	0	0	0	280	0	41	0	41
2005	0	0	0	0	0	293	0	43	0	43
2006	0	0	0	0	0	310	0	45	0	45
2007	0	0	0	0	0	325	0	47	0	47
2008	0	0	0	0	0	338	0	49	0	49
2009	0	0	0	0	0	359	0	52	0	52
2010	0	0	0	0	0	373	0	54	0	54
2011	0	0	0	0	0	400	0	57	0	57
2012	0	0	0	0	0	412	0	60	0	60
2013	0	0	0	0	0	432	0	63	0	63
2014	0	0	0	0	0	460	0	67	0	67
2015	0	0	0	0	0	474	0	70	0	70
2016	0	0	0	0	0	497	0	74	0	74
2017	137	48	0	185	0	529	373	77	0	450
2018	169	56	0	224	0	549	458	82	0	540
2019	177	56	0	233	0	569	482	86	0	568
2020	187	56	0	242	0	604	507	90	0	597
NOM	925	430	0	1,355	0	6,443	2,515	1,248	0	3,762
NPV	248	169	0	417	0	2,139	673	320	0	993

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

DEFERRED TAX AND 13-MONTH-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: 001R - Battery Charger

PSC FORM CE 1.1A
PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	122	122	110	110	100	100	8	280	0	0	0	8
2002	7.22%	235	356	110	220	100	201	52	280	0	0	0	52
2003	6.68%	217	573	110	329	100	301	45	280	0	0	0	45
2004	6.18%	201	774	110	439	100	402	39	280	0	0	0	39
2005	5.71%	186	960	110	549	100	502	33	280	0	0	0	33
2006	5.28%	172	1,131	110	659	100	603	27	280	0	0	0	27
2007	4.89%	159	1,290	110	769	100	703	23	280	0	0	0	23
2008	4.52%	147	1,437	110	879	100	804	18	280	0	0	0	18
2009	4.46%	145	1,582	110	988	100	904	17	280	0	0	0	17
2010	4.46%	145	1,727	110	1,098	100	1,005	17	280	0	0	0	17
2011	4.46%	145	1,871	110	1,208	100	1,105	17	280	0	0	0	17
2012	4.46%	145	2,016	110	1,318	100	1,206	17	280	0	0	0	17
2013	4.46%	145	2,161	110	1,427	100	1,306	17	280	0	0	0	17
2014	4.46%	145	2,306	110	1,537	100	1,407	17	280	0	0	0	17
2015	4.46%	145	2,451	110	1,647	100	1,507	17	280	0	0	0	17
2016	4.46%	145	2,596	110	1,757	100	1,607	17	280	0	0	0	17
2017	4.46%	145	2,741	110	1,867	100	1,708	17	280	0	0	0	17
2018	4.46%	145	2,886	110	1,977	100	1,808	17	280	0	0	0	17
2019	4.46%	145	3,031	110	2,086	100	1,908	17	280	0	0	0	17
2020	4.46%	145	3,175	110	2,196	100	2,008	17	280	0	0	0	17
2021	2.25%	73	3,248	110	2,306	100	2,110	(11)	280	0	0	0	(11)
2022	0.00%	0	3,248	110	2,416	100	2,210	(30)	280	0	0	0	(30)
2023	0.00%	0	3,248	110	2,526	100	2,311	(30)	280	0	0	0	(30)
2024	0.00%	0	3,248	110	2,635	100	2,411	(30)	280	0	0	0	(30)
2025	0.00%	0	3,248	110	2,745	100	2,512	(30)	280	0	0	0	(30)
2026	0.00%	0	3,248	110	2,855	100	2,612	(30)	280	0	0	0	(30)
2027	0.00%	0	3,248	110	2,965	100	2,713	(30)	280	0	0	0	(30)
2028	0.00%	0	3,248	110	3,075	100	2,813	(30)	280	0	0	0	(30)
2029	0.00%	0	3,248	110	3,184	100	2,914	(30)	280	0	0	0	(30)
2030	0.00%	0	3,248	110	3,294	100	3,014	(30)	280	0	0	0	(30)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(90)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	280
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

(1404)

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: D01R - Battery Charger

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(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
2001	3.75%	122	8	3,184	110	(82)	3,386	3,267	3,326
2002	7.22%	235	52	3,075	220	(30)	3,267	3,105	3,186
2003	6.68%	217	45	2,965	329	14	3,105	2,950	3,028
2004	6.18%	201	39	2,855	439	53	2,950	2,802	2,876
2005	5.71%	185	33	2,745	549	86	2,802	2,659	2,731
2006	5.28%	172	27	2,635	659	113	2,659	2,522	2,591
2007	4.89%	159	23	2,526	769	136	2,522	2,390	2,456
2008	4.52%	147	18	2,416	879	154	2,390	2,262	2,326
2009	4.46%	145	17	2,306	988	171	2,262	2,135	2,199
2010	4.46%	145	17	2,196	1,098	188	2,135	2,008	2,072
2011	4.46%	145	17	2,086	1,208	205	2,008	1,881	1,945
2012	4.46%	145	17	1,977	1,318	222	1,881	1,754	1,818
2013	4.46%	145	17	1,867	1,427	239	1,754	1,627	1,691
2014	4.46%	145	17	1,757	1,537	257	1,627	1,500	1,564
2015	4.46%	145	17	1,647	1,647	274	1,500	1,373	1,437
2016	4.46%	145	17	1,537	1,757	291	1,373	1,246	1,310
2017	4.46%	145	17	1,427	1,867	308	1,246	1,120	1,183
2018	4.46%	145	17	1,318	1,977	325	1,120	993	1,056
2019	4.46%	145	17	1,208	2,086	342	993	861	929
2020	4.46%	145	17	1,098	2,196	359	866	729	802
2021	2.25%	73	(11)	988	2,306	349	729	639	689
2022	0.00%	0	(39)	879	2,416	310	639	568	604
2023	0.00%	0	(39)	769	2,526	271	568	497	533
2024	0.00%	0	(39)	659	2,635	233	497	426	462
2025	0.00%	0	(39)	549	2,745	194	426	355	391
2026	0.00%	0	(39)	439	2,855	155	355	284	320
2027	0.00%	0	(39)	329	2,965	116	284	213	249
2028	0.00%	0	(39)	220	3,075	78	213	142	178
2029	0.00%	0	(39)	110	3,184	39	142	71	107
2030	0.00%	0	(39)	0	3,294	0	71	0	36

* Column not specified in workbook

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(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($/kW)	(7) CUMULATIVE AVERAGE SPENDING ($/kW)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.60%	1.026	0.00%	0.00	0.00
1996	-5	2.63%	1.053	0.84%	4.92	2.46
1997	-4	3.15%	1.086	1.66%	10.03	6.93
1998	-3	3.62%	1.126	13.00%	81.35	55.82
1999	-2	3.86%	1.169	60.50%	383.17	292.88
2000	-1	3.58%	1.214	24.00%	182.01	570.47
				100.00%	651.48	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) NCREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.46	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.20	0.45	0.56	1.12	1.39	1.02	1.28	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.95	(1.22)	(1.49)	87.81	103.94
1999	-2	300.52	13.29	16.37	32.98	40.62	29.98	36.94	(6.44)	(7.93)	428.15	530.09
2000	-1	611.10	27.24	43.61	67.60	108.22	90.74	97.68	(12.92)	(20.86)	229.81	759.70
			43.61	63.72	108.22		97.68		(20.86)		759.70	

IN SERVICE YEA	2001	
PLANT COSTS	556	
AFUDC RATE	10.02%	

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	2,825	2,825	2,825
EQUITY AFUDC	280		
DEBT AFUDC	189	189	
CPI			424
TOTAL	3,294	3,014	3,249

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* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME C101R - Battery Charger

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAMW)	(5) AVOIDED MARGINAL FUEL COST (CAMW)	(6)* INCREASED MARGINAL FUEL COST (CAMW)	(7) REPLACEMENT FUEL COST (CAMW)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.16	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.58	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.78	1.92	0.00	1.00	1.00
1997	830	830	0.00	4.23	2.03	0.00	1.00	1.00
1998	1,800	1,800	0.00	4.47	2.04	0.00	1.00	1.00
1999	2,770	2,770	0.00	5.33	2.19	0.00	1.00	1.00
2000	3,740	3,740	0.00	5.13	2.43	0.00	1.00	1.00
2001	3,740	3,740	0.00	5.62	2.52	5.01	1.00	1.00
2002	3,740	3,740	0.00	5.93	2.59	5.43	1.00	1.00
2003	3,740	3,740	0.00	6.57	2.77	5.37	1.00	1.00
2004	3,740	3,740	0.00	7.18	2.84	5.95	1.00	1.00
2005	3,740	3,740	0.00	7.48	3.14	5.89	1.00	1.00
2006	3,740	3,740	0.00	7.90	3.30	6.32	1.00	1.00
2007	3,740	3,740	0.00	8.84	3.57	6.65	1.00	1.00
2008	3,740	3,740	0.00	9.20	3.81	7.04	1.00	1.00
2009	3,740	3,740	0.00	9.71	3.92	7.57	1.00	1.00
2010	3,740	3,740	0.00	10.30	4.18	8.37	1.00	1.00
2011	3,740	3,740	0.00	10.83	4.14	8.53	1.00	1.00
2012	3,740	3,740	0.00	11.08	4.53	8.98	1.00	1.00
2013	3,740	3,740	0.00	11.95	4.62	9.57	1.00	1.00
2014	3,740	3,740	0.00	12.67	4.88	10.14	1.00	1.00
2015	3,740	3,740	0.00	13.22	5.18	10.51	1.00	1.00
2016	3,740	3,740	0.00	14.08	5.39	11.12	1.00	1.00
2017	3,740	3,740	0.00	14.88	5.66	11.73	1.00	1.00
2018	3,740	3,740	0.00	14.86	5.92	12.38	1.00	1.00
2019	3,740	3,740	0.00	15.77	6.19	13.06	1.00	1.00
2020	3,740	3,740	0.00	16.72	6.48	13.77	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.

(1407)

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME C01R - Battery Charger

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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)
1994						
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	868	0	0	0	0	0
2003	847	120	0	0	0	0
2004	823	125	4,697	0	0	0
2005	801	131	5,114	945	0	0
2006	579	137	5,402	731	998	0
2007	558	143	5,686	801	1,112	481
2008	537	150	5,555	878	1,211	397
2009	518	157	5,107	870	1,241	450
2010	499	164	4,520	805	1,148	379
2011	480	172	4,233	727	1,062	449
2012	461	181	4,899	805	983	439
2013	442	191	4,823	782	909	463
2014	423	201	3,841	625	1,034	472
2015	404	211	2,959	618	1,139	424
2016	384	223	3,003	504	818	352
2017	365	234	3,278	514	884	458
2018	348	246	3,830	582	881	488
2019	327	259	3,881	650	748	470
2020	308	273	3,709	629	862	443
	289	287	3,807	635	829	420
		302	4,181	656	842	415
			4,393	710	878	402
				744	954	384
					1,005	356
						334
NOM	8,458	3,906	86,446	13,982	18,003	8,440
NPV	2,706	848	24,371	3,828	5,280	2,266

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: C101R - Battery Charger

PSC FORM CE 2.2
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(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 FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	30	14
1998	0	0	0	0	0	0	100	46
1999	0	0	0	0	0	0	208	85
2000	0	0	0	0	0	0	285	135
2001	0	0	0	0	0	0	358	161
2002	0	0	0	0	0	0	378	165
2003	0	0	0	0	0	0	419	176
2004	0	0	0	0	0	0	457	181
2005	0	0	0	0	0	0	476	200
2006	0	0	0	0	0	0	504	210
2007	0	0	0	0	0	0	563	227
2008	0	0	0	0	0	0	586	242
2009	0	0	0	0	0	0	587	250
2010	0	0	0	0	0	0	656	267
2011	0	0	0	0	0	0	677	284
2012	0	0	0	0	0	0	709	289
2013	0	0	0	0	0	0	761	295
2014	0	0	0	0	0	0	807	311
2015	0	0	0	0	0	0	842	330
2016	0	0	0	0	0	0	897	343
2017	0	0	0	0	0	0	947	361
2018	0	0	0	0	0	0	947	377
2019	0	0	0	0	0	0	1,004	395
2020	0	0	0	0	0	0	1,065	413
NOM.	0	0	0	0	0	0	14,259	5,727
NPV	0	0	0	0	0	0	3,467	1,429

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

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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME CI01R - Battery Charger

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PAGE 1 OF 1

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	37	0	0	0	0	0	0	0	0	0	0
1998	113	0	48	0	54	144	7	0	151	(96)	(51)
1999	186	0	59	0	169	175	15	0	191	(22)	(88)
2000	263	0	56	0	252	183	24	0	208	45	(30)
2001	333	0	56	0	339	192	34	0	226	113	29
2002	349	0	0	0	333	0	36	0	36	297	189
2003	366	0	0	0	349	0	37	0	37	312	343
2004	378	0	0	0	366	0	38	0	38	327	491
2005	396	0	0	0	378	0	41	0	41	337	630
2006	418	0	0	0	396	0	43	0	43	353	784
2007	439	0	0	0	418	0	45	0	45	374	894
2008	457	0	0	0	430	0	47	0	47	382	1,018
2009	485	0	0	0	457	0	46	0	46	408	1,137
2010	504	0	0	0	485	0	52	0	52	433	1,252
2011	540	0	0	0	504	0	54	0	54	450	1,362
2012	558	0	0	0	540	0	57	0	57	483	1,470
2013	584	0	0	0	558	0	60	0	60	498	1,571
2014	622	0	0	0	584	0	63	0	63	521	1,669
2015	641	0	0	0	622	0	67	0	67	555	1,764
2016	672	0	0	0	641	0	70	0	70	571	1,853
2017	713	0	0	0	672	0	74	0	74	598	1,939
2018	742	0	48	0	781	372	77	0	450	310	41
2019	799	0	58	0	799	458	82	0	540	258	31
2020	816	0	58	0	824	482	86	0	568	257	29
			56		872	507	80		587	275	29
NOM	11,410	0	430	0	11,840	2,515	1,248	0	3,762	8,077	
NPV	2,891	0	169	0	3,060	673	320	0	993	2,067	

In Service of Gen Unit: 2001

Discount Rate : 9.22

Benefit/Cost Ratio (Col(8) / Col(10)) 3.08

0411

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ

PROGRAM NAME: OFF PEAK BATTERY CHARGING (1997 - 2000)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

GSD RATE CLASS	OFF PEAK BATTERY
(1) UTILITY NON RECURRING COST PER CUSTOMER	$2,392
(2) UTILITY RECURRING COST PER CUSTOMER	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$6,500
(6) CUSTOMER O&M COST (ANNUAL)	$300
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$2,470
(13) UTILITY RECURRING REBATE/INCENTIVE	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%

III. (2,5,7,9) ESCALATION RATES

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GSD	
(1) NON FUEL COST IN CUSTOMER BILL	1.884	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	8.02	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	1.6%	*

* Values apply to first year only.

0413

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME C06R - Battery Charger

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.88	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.18	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	1,703.4	kWh *****
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	1570.2	kWh *****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	29	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85688	
(5) K FACTOR FOR T & D	1.86967	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOME	---	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	---	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	---	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	---	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2004	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2003	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	55%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	4.20	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	9.34	%**

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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM
***** THIS PROGRAM IS PRIMARILY A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUSTOMER SHIFTED AWAY FROM PEAK HOURS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUSTOM AFTER ADJUSTING ONE OF THESE NUMBERS TO PLACE BOTH AT THE METER OR AT THE GENERATOR. THE DIFFERENCE BETWEEN THE TWO IS THE ANNUAL KWH/CUSTOMER REDUCTION

* INPUT DATA -- PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME C104R - Battery Charger

01/26/95

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	27	20	0	47	0	13	74	3	0	77
2002	19	14	0	33	0	33	51	6	0	57
2003	10	7	0	17	0	48	27	7	0	34
2004	0	0	0	0	0	53	0	8	0	8
2005	0	0	0	0	0	56	0	8	0	8
2006	0	0	0	0	0	59	0	8	0	8
2007	0	0	0	0	0	62	0	9	0	9
2008	0	0	0	0	0	64	0	9	0	9
2009	0	0	0	0	0	68	0	10	0	10
2010	0	0	0	0	0	71	0	10	0	10
2011	0	0	0	0	0	76	0	11	0	11
2012	0	0	0	0	0	78	0	11	0	11
2013	0	0	0	0	0	82	0	12	0	12
2014	0	0	0	0	0	87	0	13	0	13
2015	0	0	0	0	0	90	0	13	0	13
2016	0	0	0	0	0	94	0	14	0	14
2017	0	0	0	0	0	100	0	15	0	15
2018	0	0	0	0	0	104	0	15	0	15
2019	0	0	0	0	0	108	0	16	0	16
2020	0	0	0	0	0	115	0	17	0	17
2021	72	20	0	92	0	122	195	18	0	213
2022	50	14	0	64	0	129	137	19	0	156
NOM	178	75	0	253	0	1,711	494	254	0	736
NPV	39	24	0	63	0	344	107	52	0	159

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME CI04R - Battery Charger

01/28/95

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PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	708	31	5	41	28	11	23	2	142	142	142
2005	679	30	5	39	18	11	23	11	136	128	268
2006	645	28	5	37	18	11	23	10	133	111	380
2007	612	27	5	35	18	11	23	8	128	98	478
2008	581	26	4	33	18	11	23	7	123	87	564
2009	551	24	4	32	18	11	23	6	119	78	641
2010	523	23	4	30	18	11	23	5	114	67	708
2011	495	22	4	29	18	11	23	4	110	59	767
2012	468	21	4	27	17	11	23	4	106	52	820
2013	441	19	3	25	16	11	23	4	102	46	866
2014	414	18	3	24	15	11	23	4	98	41	907
2015	387	17	3	22	13	11	23	4	94	36	942
2016	360	16	3	21	12	11	23	4	90	31	973
2017	333	15	3	19	11	11	23	4	86	27	1,001
2018	306	13	2	18	11	11	23	4	82	24	1,025
2019	279	12	2	16	10	11	23	4	78	21	1,046
2020	252	11	2	16	9	11	23	4	74	18	1,063
2021	225	10	2	15	8	11	23	4	70	16	1,079
2022	196	9	2	13	7	11	23	4	66	13	1,092
2023	171	8	2	11	6	11	23	4	62	12	1,104
2024	147	6	1	10	5	11	23	4	58	10	1,114
2025	129	6	1	8	10	11	23	4	55	9	1,122
2026	113	5	1	7	15	11	23	(2)	53	8	1,130
2027	98	4	1	7	14	11	23	(6)	51	7	1,137
2028	83	4	1	6	14	11	23	(6)	48	6	1,142
2029	68	3	1	5	13	11	23	(6)	46	5	1,147
2030	53	2	1	4	12	11	23	(6)	44	4	1,152
2031	38	2	0	3	12	11	23	(6)	42	4	1,156
2032	23	1	0	2	11	11	23	(6)	39	3	1,159
2033	8	0	0	1	10	11	23	(6)	37	3	1,162
				0	10		23				

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	36.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.55668

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: D04R - Battery Charger

01/25/95

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PAGE 2a OF 2 * (this page not contained in workbook)

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) ACCUMULATED TAX DEPRECIATION $(000)	(5) BOOK DEPRECIATION $(000)	(6) ACCUMULATED BOOK DEPRECIATION $(000)	(7) BOOK DEPRECIATION FOR DEFERRED TAX $(000)	(8) ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	(9) DEFERRED TAX DUE TO DEPRECIATION $(000)	(10) TOTAL EQUITY AFUDC $(000)	(11) BOOK DEPR RATE MINUS 1/LIFE	(12) (10)*(11) *TAX RATE $(000)	(13) SALVAGE *TAX RATE $(000)	(14) ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)
2004	3.75%	26	26	23	23	21	21	2	90	0	0	0	2
2005	7.22%	50	76	23	47	21	43	11	80	0	0	0	11
2006	6.68%	46	122	23	70	21	64	10	80	0	0	0	10
2007	6.18%	43	165	23	94	21	86	8	80	0	0	0	8
2008	5.71%	39	204	23	117	21	107	7	80	0	0	0	7
2009	5.29%	37	241	23	140	21	128	6	80	0	0	0	6
2010	4.89%	34	275	23	164	21	150	5	80	0	0	0	5
2011	4.52%	31	306	23	187	21	171	4	80	0	0	0	4
2012	4.46%	31	337	23	210	21	192	4	80	0	0	0	4
2013	4.46%	31	368	23	234	21	214	4	80	0	0	0	4
2014	4.46%	31	399	23	257	21	235	4	80	0	0	0	4
2015	4.46%	31	429	23	281	21	257	4	80	0	0	0	4
2016	4.46%	31	460	23	304	21	278	4	80	0	0	0	4
2017	4.46%	31	491	23	327	21	299	4	80	0	0	0	4
2018	4.46%	31	522	23	351	21	321	4	80	0	0	0	4
2019	4.46%	31	553	23	374	21	342	4	80	0	0	0	4
2020	4.46%	31	583	23	397	21	364	4	80	0	0	0	4
2021	4.46%	31	614	23	421	21	385	4	80	0	0	0	4
2022	4.46%	31	645	23	444	21	406	4	80	0	0	0	4
2023	4.46%	31	676	23	468	21	428	4	80	0	0	0	4
2024	2.25%	16	692	23	491	21	449	4	80	0	0	0	4
2025	0.00%	0	692	23	514	21	471	(2)	80	0	0	0	(2)
2026	0.00%	0	692	23	538	21	492	(3)	80	0	0	0	(3)
2027	0.00%	0	692	23	561	21	513	(3)	80	0	0	0	(3)
2028	0.00%	0	692	23	584	21	535	(3)	80	0	0	0	(3)
2029	0.00%	0	692	23	608	21	556	(3)	80	0	0	0	(3)
2030	0.00%	0	692	23	631	21	577	(3)	80	0	0	0	(3)
2031	0.00%	0	692	23	655	21	599	(3)	80	0	0	0	(3)
2032	0.00%	0	692	23	678	21	620	(3)	80	0	0	0	(3)
2033	0.00%	0	692	23	701	21	642	(3)	80	0	0	0	(3)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(19)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	80
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0417

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:D04R - Battery Charger

01/28/95

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PAGE 2b OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
2004	3.75%	26	2	679	23	(17)	721	695	708
2005	7.22%	50	11	655	47	(6)	695	661	678
2006	6.68%	46	10	631	70	3	661	628	645
2007	6.18%	43	9	606	94	11	628	598	613
2008	5.71%	39	8	581	117	18	598	565	581
2009	5.28%	37	7	556	140	24	565	537	551
2010	4.89%	34	6	531	164	29	537	508	523
2011	4.52%	31	6	506	187	33	508	482	495
2012	4.46%	31	6	481	210	36	482	455	468
2013	4.46%	31	6	456	234	40	455	427	441
2014	4.46%	31	6	431	257	44	427	400	414
2015	4.46%	31	6	406	281	47	400	373	387
2016	4.46%	31	6	381	304	51	373	346	360
2017	4.46%	31	6	356	327	55	346	319	333
2018	4.46%	31	6	331	351	58	319	292	306
2019	4.46%	31	6	306	374	62	292	265	279
2020	4.46%	31	6	281	397	66	265	238	252
2021	4.46%	31	6	257	421	70	238	211	225
2022	4.46%	31	6	234	444	73	211	184	198
2023	4.46%	31	6	210	468	77	184	157	171
2024	4.46%	31	6	187	491	81	157	136	147
2025	2.25%	16	3	164	514	85	136	121	129
2026	0.00%	0	0	140	538	89	121	106	113
2027	0.00%	0	0	117	561	93	106	91	98
2028	0.00%	0	0	94	584	97	91	76	83
2029	0.00%	0	0	70	608	101	76	61	68
2030	0.00%	0	0	47	631	105	61	45	53
2031	0.00%	0	0	23	655	109	45	30	38
2032	0.00%	0	0	0	679	113	30	15	23
2033	0.00%	0	0	0	701	117	15	0	8

* Column not specified in workbook

(1416

01/26/96

(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)
1994						
1995	-10	0.00%	1.000	0.00%	0.00	0.00
1996	-9	2.80%	1.028	0.00%	0.00	0.00
1997	-8	2.63%	1.053	0.00%	0.00	0.00
1998	-7	3.15%	1.086	0.00%	0.00	0.00
1999	-6	3.62%	1.126	0.00%	0.00	0.00
2000	-5	3.85%	1.169	0.84%	0.00	0.00
2001	-4	3.88%	1.214	1.66%	5.46	2.73
2002	-3	3.92%	1.262	13.00%	11.21	11.08
2003	-2	3.88%	1.311	60.50%	91.21	62.27
	-1	3.86%	1.363	24.00%	440.92	328.31
				100.00%	181.82	636.70
					730.61	

YEAR	NO YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994												
1995	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-5	2.73	0.12	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00
2001	-4	11.39	0.50	0.62	0.50	0.62	0.27	0.27	(5.06)	(5.06)	5.76	5.76
2002	-3	82.81	2.82	3.44	2.82	3.44	1.13	1.41	(0.24)	(0.30)	12.45	18.21
2003	-2	336.89	14.90	18.34	14.90	18.34	6.37	7.77	(1.27)	(1.57)	96.21	116.42
	-1	885.21	30.54	48.89	30.54	48.89	33.81	41.39	(7.22)	(8.88)	477.89	594.31
							66.11	108.49	(14.49)	(23.38)	257.51	851.82
			48.89	71.41	121.31		108.49		(23.38)		851.82	

IN SERVICE YEA	2004
PLANT COST(	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	601	601	601
EQUITY AFUDC	60		
DEBT AFUDC	40	40	
CPI			60
TOTAL	701	641	661

* Column not specified in workbook

0419

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME C9047 - Battery Charger

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	(5) AVOIDED MARGINAL FUEL COST (C/kWh)	(6)* INCREASED MARGINAL FUEL COST (C/kWh)	(7) REPLACEMENT FUEL COST (C/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	2.16	1.89	0.00	1.00	1.00
1995	0	0	0.00	2.58	1.89	0.00	1.00	1.00
1996	0	0	0.00	2.76	1.92	0.00	1.00	1.00
1997	0	0	0.00	4.23	1.92	0.00	1.00	1.00
1998	0	0	0.00	4.47	2.03	0.00	1.00	1.00
1999	0	0	0.00	5.33	2.04	0.00	1.00	1.00
2000	0	0	0.00	5.13	2.19	0.00	1.00	1.00
2001	0	0	0.00	5.82	2.43	0.00	1.00	1.00
2002	355	0	0.00	5.83	2.52	0.00	1.00	1.00
2003	592	355	0.00	6.57	2.59	0.00	1.00	1.00
2004	710	592	0.00	7.19	2.77	0.00	1.00	1.00
2005	710	710	0.00	7.40	2.84	0.00	1.00	1.00
2006	710	710	0.00	7.00	3.14	5.85	1.00	1.00
2007	710	710	0.00	6.84	3.20	5.69	1.00	1.00
2008	710	710	0.00	8.20	3.57	6.22	1.00	1.00
2009	710	710	0.00	8.21	3.61	6.66	1.00	1.00
2010	710	710	0.00	10.30	3.82	7.04	1.00	1.00
2011	710	710	0.00	10.62	4.16	7.57	1.00	1.00
2012	710	710	0.00	11.08	4.14	8.37	1.00	1.00
2013	710	710	0.00	11.66	4.53	8.53	1.00	1.00
2014	710	710	0.00	12.67	4.62	8.98	1.00	1.00
2015	710	710	0.00	13.22	4.88	9.57	1.00	1.00
2016	710	710	0.00	14.08	5.18	10.14	1.00	1.00
2017	710	710	0.00	14.86	5.39	10.51	1.00	1.00
2018	710	710	0.00	14.88	5.66	11.12	1.00	1.00
2019	710	710	0.00	15.77	5.95	11.73	1.00	1.00
2020	710	710	0.00	16.72	6.25	12.38	1.00	1.00
2021	710	710	0.00	17.73	6.57	13.06	1.00	1.00
2022	710	710	0.00	18.81	6.90	13.77	1.00	1.00
					7.25	14.53	1.00	1.00
						15.32	1.00	1.00
							1.00	1.00
								1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: C04R - Battery Charger

01/26/95

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	142	26	1	166	236	100
2005	139	27	1	165	218	113
2006	133	28	1	153	205	110
2007	128	30	1	136	183	114
2008	123	31	1	132	173	115
2009	119	33	1	148	196	105
2010	114	34	1	157	216	90
2011	110	36	1	117	155	109
2012	106	38	1	96	128	115
2013	102	40	1	90	120	111
2014	98	42	1	107	142	101
2015	94	44	1	125	164	101
2016	90	47	1	119	157	99
2017	86	49	1	121	160	96
2018	82	52	1	125	167	93
2019	78	54	1	135	181	87
2020	74	57	1	141	191	82
2021	70	60	1	144	196	79
2022	66	63	1	149	203	75
NOM	1,852	794	15	2,536	3,398	1,899
NPV	452	146	3	649	737	414

(1421)

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: C804R - Battery Charger

01/28/95

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(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	17	8
2002	0	0	0	0	0	0	48	21
2003	0	0	0	0	0	0	73	31
2004	0	0	0	5	0	0	87	34
2005	0	0	0	0	0	0	90	38
2006	0	0	0	0	0	0	98	40
2007	0	0	0	0	0	0	107	43
2008	0	0	0	0	0	0	111	46
2009	0	0	0	0	0	0	111	47
2010	0	0	0	0	0	0	125	51
2011	0	0	0	0	0	0	129	50
2012	0	0	0	0	0	0	134	55
2013	0	0	0	0	0	0	144	58
2014	0	0	0	0	0	0	153	59
2015	0	0	0	0	0	0	160	63
2016	0	0	0	0	0	0	170	65
2017	0	0	0	0	0	0	180	68
2018	0	0	0	0	0	0	180	72
2019	0	0	0	0	0	0	191	76
2020	0	0	0	0	0	0	202	79
2021	0	0	0	0	0	0	214	83
2022	0	0	0	0	0	0	227	88
NOM.	0	0	0	0	0	0	2,949	1,173
NPV	0	0	0	0	0	0	580	234

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME C104R - Battery Charger

01/26/96

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	27	77	0	104	0	0	27	0	27	(96)	(51)
2003	0	19	57	0	76	0	0	42	0	42	(49)	(75)
2004	0	10	34	0	44	0	0	52	0	52	(2)	(79)
2005	0	0	8	0	8	0	0	52	0	52	145	(16)
2006	0	0	8	0	8	100	0	56	0	156	157	43
2007	0	0	8	0	8	113	0	64	0	165	157	98
2008	0	0	9	0	9	110	0	65	0	177	168	151
2009	0	0	9	0	9	114	0	64	0	180	170	201
2010	0	0	10	0	10	115	0	74	0	188	158	243
2011	0	0	10	0	10	105	0	79	0	184	154	281
2012	0	0	11	0	11	90	0	79	0	169	177	320
2013	0	0	11	0	11	109	0	89	0	194	182	357
2014	0	0	12	0	12	115	0	94	0	200	188	392
2015	0	0	13	0	13	111	0	97	0	200	187	424
2016	0	0	13	0	13	108	0	105	0	199	185	453
2017	0	0	14	0	14	101	0	111	0	208	191	481
2018	0	0	15	0	15	99	0	109	0	208	193	508
2019	0	0	15	0	15	98	0	115	0	208	185	529
2020	0	0	16	0	16	93	0	123	0	202	186	549
2021	0	0	17	0	17	87	0	131	0	205	188	568
2022	0	0	17	0	17	82	0	140	0	210	(75)	581
	0	72	213	0	285	79	0		0	215	0	582
	0	50	158	0	207	75	0		0			
NOM	0	179	726	0	916	1,809	0	1,779	0	3,875	2,759	
NPV	0	39	159	0	198	414	0	348	0	760	562	

Discount Rate: #VALUE!

Benefit/Cost Ratio: (Col(11) / Col(6)) : 6.22 %

3.84

0423

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: CIGIR - Battery Charger

01/09/96

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	17	0	20	0	37	74	3	0	77	(40)	(21)
2002	45	0	14	0	59	51	6	0	57	1	1
2003	64	0	7	0	71	27	7	0	34	37	17
2004	72	0	0	0	72	0	8	0	8	64	28
2005	75	0	0	0	73	0	8	0	8	67	25
2006	79	0	0	0	79	0	8	0	8	71	25
2007	83	0	0	0	83	0	9	0	9	74	24
2008	87	0	0	0	87	0	9	0	9	78	23
2009	92	0	0	0	92	0	10	0	10	82	22
2010	96	0	0	0	96	0	10	0	10	85	21
2011	102	0	0	0	102	0	11	0	11	92	20
2012	106	0	0	0	106	0	11	0	11	94	19
2013	111	0	0	0	111	0	12	0	12	99	19
2014	118	0	0	0	118	0	13	0	13	105	18
2015	122	0	0	0	122	0	13	0	13	108	17
2016	128	0	0	0	128	0	14	0	14	114	16
2017	135	0	0	0	133	0	15	0	15	121	16
2018	141	0	0	0	141	0	15	0	15	125	15
2019	148	0	0	0	148	0	16	0	16	130	14
2020	155	0	0	0	155	0	17	0	17	138	14
2021	184	0	20	0	185	195	18	0	213	(28)	(3)
2022	175	0	14	0	188	137	19	0	156	32	3
NOM	2,313	0	75	0	2,388	484	254	0	738	1,649	
NPV	465	0	24	0	489	107	52	0	159	330	

In Service of Gen Unit:	2004
Discount Rate :	9.22
Benefit/Cost Ratio (Col(6) / Col(10))	3.08

(1424)

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME C104R - Battery Charger

01/26/95

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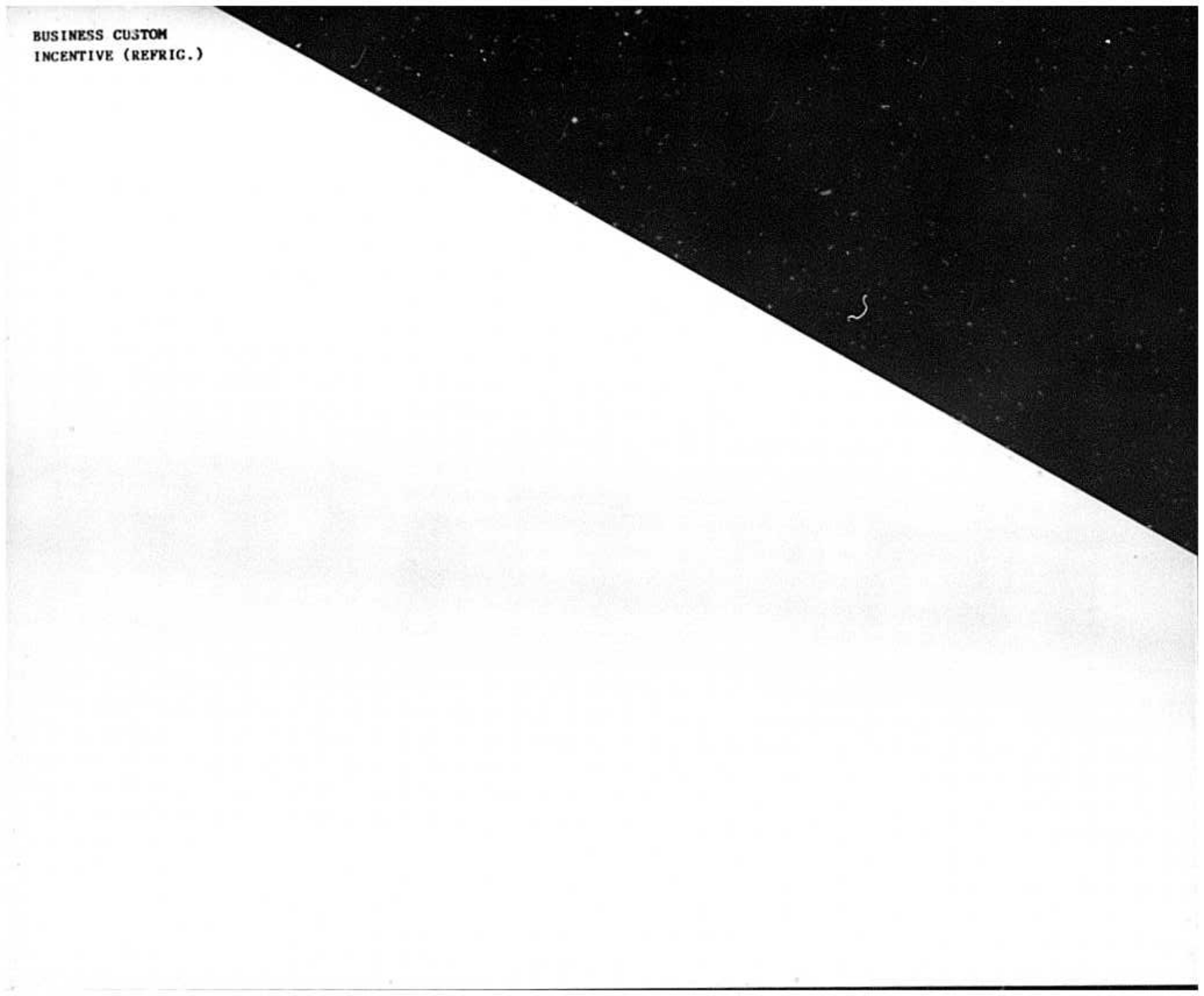
(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	27	20	13	0	60	9	0	0	0	9	(51)	(27)
2002	0	18	14	33	0	66	27	0	0	0	27	(39)	(19)
2003	0	10	7	46	0	64	42	0	0	0	42	(22)	(10)
2004	0	0	0	53	0	53	152	0	0	0	152	99	41
2005	0	0	0	56	0	56	166	0	0	0	166	113	42
2006	0	0	0	59	0	59	165	0	0	0	165	107	37
2007	0	0	0	62	0	62	177	0	0	0	177	116	37
2008	0	0	0	64	0	64	180	0	0	0	180	116	34
2009	0	0	0	68	0	68	168	0	0	0	168	100	27
2010	0	0	0	71	0	71	164	0	0	0	164	93	22
2011	0	0	0	76	0	76	188	0	0	0	188	112	25
2012	0	0	0	78	0	78	194	0	0	0	194	116	24
2013	0	0	0	82	0	82	200	0	0	0	200	118	22
2014	0	0	0	87	0	87	200	0	0	0	200	112	19
2015	0	0	0	90	0	90	198	0	0	0	198	108	17
2016	0	0	0	94	0	94	205	0	0	0	205	110	16
2017	0	0	0	100	0	100	208	0	0	0	208	108	14
2018	0	0	0	104	0	104	200	0	0	0	200	96	12
2019	0	0	0	108	0	108	202	0	0	0	202	94	10
2020	0	0	0	115	0	115	205	0	0	0	205	90	9
2021	0	72	20	122	0	214	210	0	0	0	210	(4)	0
2022	0	60	14	139	0	193	215	0	0	0	215	22	2
NOM.	0	178	75	1,711	0	1,964	3,675	0	0	0	3,675	1,711	
NPV	0	39	24	344	0	407	780	0	0	0	780	352	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) : 1.87

BUSINESS CUSTOM
INCENTIVE (REFRIG.)



BUSINESS CUSTOM INCENTIVE (REFRIGERATION)

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	291	270	1.08	359	197	1.82	291	200	1.46
1997-2000	507	482	1.05	642	345	1.86	507	351	1.45
2001-2003	5,660	5,191	1.09	6,973	4,180	1.67	5,660	4,200	1.35
1995-2003	6,458	5,943	1.09	7,974	4,722	1.69	6,458	4,751	1.36

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: rtg96x - Refrigeration

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.00	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.33	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	8,814.5	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.64857	
(5) K FACTOR FOR T & D	1.88857	

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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	8.34	%**

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 12

(4228)

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: rfgal85s - Refrigeration

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	1	2	0	3	4	1	53	0	0	53
1996	1	2	0	3	14	4	55	0	0	55
1997	0	0	0	0	19	5	0	0	0	0
1998	0	0	0	0	19	5	0	0	0	0
1999	0	0	0	0	20	5	0	0	0	0
2000	0	0	0	0	21	6	0	0	0	0
2001	0	0	0	0	22	6	0	0	0	0
2002	0	0	0	0	23	6	0	0	0	0
2003	0	0	0	0	24	6	0	0	0	0
2004	0	0	0	0	25	7	0	0	0	0
2005	1	2	0	3	26	7	82	0	0	82
2006	1	2	0	3	27	7	85	0	0	85
2007	0	0	0	0	28	8	0	0	0	0
2008	0	0	0	0	29	8	0	0	0	0
2009	0	0	0	0	31	8	0	0	0	0
2010	0	0	0	0	32	9	0	0	0	0
2011	0	0	0	0	33	9	0	0	0	0
2012	0	0	0	0	35	10	0	0	0	0
2013	0	0	0	0	37	10	0	0	0	0
2014	0	0	0	0	39	11	0	0	0	0
2015	2	2	0	4	40	11	134	0	0	134
2016	2	2	0	4	43	12	141	0	0	141
NOM	8	11	0	20	589	162	550	0	0	550
NPV	3	5	0	8	205	58	187	0	0	187

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: 4gas95x - Refrigeration

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	34	2	0	2	1	1	1	0	7	7	7
1998	33	1	0	2	1	1	1	1	7	6	13
1999	31	1	0	2	1	1	1	0	6	5	18
2000	30	1	0	2	1	1	1	0	6	5	23
2001	28	1	0	2	1	1	1	0	6	4	27
2002	27	1	0	2	1	1	1	0	6	4	31
2003	25	1	0	1	1	1	1	0	6	3	34
2004	24	1	0	1	1	1	1	0	5	3	37
2005	23	1	0	1	1	1	1	0	5	3	40
2006	21	1	0	1	1	1	1	0	5	2	42
2007	20	1	0	1	1	1	1	0	5	2	44
2008	19	1	0	1	1	1	1	0	5	2	46
2009	17	1	0	1	1	1	1	0	4	2	47
2010	16	1	0	1	1	1	1	0	4	1	48
2011	15	1	0	1	1	1	1	0	4	1	50
2012	13	1	0	1	0	1	1	0	4	1	51
2013	12	1	0	1	0	1	1	0	4	1	51
2014	11	0	0	1	0	1	1	0	3	1	52
2015	10	0	0	1	0	1	1	0	3	1	53
2016	8	0	0	0	0	1	1	0	3	1	53
2017	7	0	0	0	0	1	1	0	3	0	54
2018	6	0	0	0	1	1	1	0	3	0	54
2019	5	0	0	0	1	1	1	0	3	0	55
2020	5	0	0	0	1	1	1	0	2	0	55
2021	4	0	0	0	1	1	1	0	2	0	55
2022	3	0	0	0	1	1	1	0	2	0	56
2023	3	0	0	0	1	1	1	0	2	0	56
2024	2	0	0	0	1	1	1	0	2	0	56
2025	1	0	0	0	1	1	1	0	2	0	56
2026	0	0	0	0	0	1	1	0	2	0	56

IN SERVICE COST ($000)	34
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.64057

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: fgd05x - Refrigeration

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1987	3.75%	1	1	1	1	1	1	0	2	0	0	0	0
1988	7.22%	2	4	1	2	1	2	1	2	0	0	0	1
1989	6.68%	2	6	1	3	1	3	0	2	0	0	0	0
2000	6.18%	2	8	1	5	1	4	0	2	0	0	0	0
2001	5.71%	2	10	1	6	1	5	0	2	0	0	0	0
2002	5.28%	2	12	1	7	1	6	0	2	0	0	0	0
2003	4.89%	2	13	1	8	1	7	0	2	0	0	0	0
2004	4.52%	2	15	1	9	1	8	0	2	0	0	0	0
2005	4.46%	2	16	1	10	1	9	0	2	0	0	0	0
2006	4.46%	2	18	1	11	1	11	0	2	0	0	0	0
2007	4.46%	2	19	1	13	1	12	0	2	0	0	0	0
2008	4.46%	2	21	1	14	1	13	0	2	0	0	0	0
2009	4.46%	2	22	1	15	1	14	0	2	0	0	0	0
2010	4.46%	2	24	1	16	1	15	0	2	0	0	0	0
2011	4.46%	2	25	1	17	1	16	0	2	0	0	0	0
2012	4.46%	2	27	1	18	1	17	0	2	0	0	0	0
2013	4.46%	2	28	1	19	1	18	0	2	0	0	0	0
2014	4.46%	2	30	1	20	1	19	0	2	0	0	0	0
2015	4.46%	2	31	1	22	1	20	0	2	0	0	0	0
2016	4.46%	2	33	1	23	1	21	0	2	0	0	0	0
2017	2.23%	1	34	1	24	1	22	0	2	0	0	0	0
2018	0.00%	0	34	1	25	1	23	0	2	0	0	0	0
2019	0.00%	0	34	1	26	1	24	0	2	0	0	0	0
2020	0.00%	0	34	1	27	1	25	0	2	0	0	0	0
2021	0.00%	0	34	1	28	1	26	0	2	0	0	0	0
2022	0.00%	0	34	1	30	1	27	0	2	0	0	0	0
2023	0.00%	0	34	1	31	1	28	0	2	0	0	0	0
2024	0.00%	0	34	1	32	1	29	0	2	0	0	0	0
2025	0.00%	0	34	1	33	1	31	0	2	0	0	0	0
2026	0.00%	0	34	1	34	1	32	0	2	0	0	0	0

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

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME rtgs86x - Refrigeration

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(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)
1997	3.75%	1	0	33	1	(1)	35	34	34
1998	7.22%	2	1	32	2	0	34	32	33
1999	6.68%	2	0	31	3	0	32	30	31
2000	6.18%	2	0	30	5	1	30	29	30
2001	5.71%	2	1	28	6	1	29	27	28
2002	5.28%	2	0	27	7	1	27	26	27
2003	4.88%	2	0	26	8	2	26	25	25
2004	4.52%	2	0	25	9	2	25	23	24
2005	4.46%	2	0	24	10	2	23	22	23
2006	4.46%	2	0	23	11	2	22	21	21
2007	4.46%	2	0	22	13	2	21	19	20
2008	4.46%	2	0	20	14	2	19	18	19
2009	4.46%	2	0	19	15	3	18	17	17
2010	4.46%	2	0	18	16	3	17	15	16
2011	4.46%	2	0	17	17	3	15	14	15
2012	4.46%	2	0	13	18	3	14	13	13
2013	4.46%	2	0	15	19	3	13	12	12
2014	4.46%	2	0	14	20	3	12	10	11
2015	4.46%	2	0	13	22	4	10	9	10
2016	4.46%	2	0	11	23	4	9	6	8
2017	2.23%	1	0	10	24	4	8	7	7
2018	0.00%	0	0	9	25	3	7	6	6
2019	0.00%	0	0	8	26	3	6	5	5
2020	0.00%	0	0	7	27	2	5	4	5
2021	0.00%	0	0	6	28	2	4	4	4
2022	0.00%	0	0	5	30	2	4	3	3
2023	0.00%	0	0	3	31	1	3	2	3
2024	0.00%	0	0	2	32	1	2	1	2
2025	0.00%	0	0	1	33	0	1	1	1
2026	0.00%	0	0	0	34	0	1	0	0

* Column not specified in workbook

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(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($/kW)	(7) CUMULATIVE AVERAGE SPENDING ($/kW)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.60%	1.026	44.58%	179.18	144.12
1996	-1	2.63%	1.053	41.54%	171.47	319.45
				100.00%	405.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) NOREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-3	27.27	1.20	1.20	2.88	2.88	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	19.11	14.88	17.41	(3.16)	(3.75)	195.31	252.82
1996	-1	338.55	15.08	22.79	37.38	56.48	33.69	51.10	(7.18)	(10.93)	208.65	461.47
			22.79	31.68	56.48		51.10		(10.93)		461.47	

IN SERVICE YEA	1997	
PLANT COSTS	362	
AFUDC RATE	10.92%	

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	30	30	30
EQUITY AFUDC	2		
DEBT AFUDC	2	2	
CPI			4
TOTAL	34	32	34

* Column not specified in workbook

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INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME rga95a - Refrigeration

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	2.81	1.89	0.00	1.00	1.00
1995	28	28	0.00	3.10	1.92	0.00	1.00	1.00
1996	56	56	0.00	3.09	1.92	0.00	1.00	1.00
1997	56	56	0.00	3.24	2.03	4.28	1.00	1.00
1998	56	56	0.00	3.46	2.04	4.25	1.00	1.00
1999	56	56	0.00	3.53	2.19	7.85	1.00	1.00
2000	56	56	0.00	4.06	2.43	8.21	1.00	1.00
2001	56	56	0.00	4.23	2.52	8.42	1.00	1.00
2002	56	56	0.00	4.67	2.59	8.86	1.00	1.00
2003	56	56	0.00	5.08	2.77	9.28	1.00	1.00
2004	56	56	0.00	5.51	2.84	9.60	1.00	1.00
2005	56	56	0.00	5.82	3.14	9.82	1.00	1.00
2006	56	56	0.00	5.70	3.30	9.52	1.00	1.00
2007	56	56	0.00	6.15	3.57	9.79	1.00	1.00
2008	56	56	0.00	6.39	3.81	10.08	1.00	1.00
2009	56	56	0.00	6.40	3.92	10.57	1.00	1.00
2010	56	56	0.00	6.99	4.18	10.86	1.00	1.00
2011	56	56	0.00	7.52	4.14	11.45	1.00	1.00
2012	56	56	0.00	7.84	4.53	12.04	1.00	1.00
2013	56	56	0.00	8.36	4.62	13.05	1.00	1.00
2014	56	56	0.00	8.82	4.86	13.71	1.00	1.00
2015	56	56	0.00	9.27	5.18	14.19	1.00	1.00
2016	56	56	0.00	9.80	5.39	15.01	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 Agwi5x - Refrigeration

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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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	7	2	0.000	0	0	9
1998	7	2	0.000	0	0	9
1999	6	2	0.001	0	0	9
2000	6	2	0.000	0	0	8
2001	6	2	0.000	0	0	8
2002	6	2	0.000	0	0	8
2003	6	3	0.000	0	0	8
2004	5	3	0.000	0	0	8
2005	5	3	0.000	0	0	8
2006	5	3	0.000	0	0	8
2007	5	3	0.000	0	0	8
2008	5	3	0.000	0	0	8
2009	4	3	0.000	0	0	8
2010	4	4	0.001	0	0	8
2011	4	4	0.000	0	0	8
2012	4	4	0.001	0	0	8
2013	4	4	0.001	0	0	8
2014	3	4	0.001	0	0	8
2015	3	5	0.001	0	0	8
2016	3	5	0.001	0	0	8
NOM	97	82	0.007	3	4	159
NPV	41	20	0.002	1	1	61

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: fgs95x - Refrigeration

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(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 FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	4	0
1996	0	0	0	0	0	0	13	0
1997	0	0	0	0	0	0	16	0
1998	0	0	0	0	0	0	19	0
1999	0	0	0	0	0	0	21	0
2000	0	0	0	0	0	0	22	0
2001	0	0	0	0	0	0	23	0
2002	0	0	0	0	0	0	25	0
2003	0	0	0	0	0	0	28	0
2004	0	0	0	0	0	0	30	0
2005	0	0	0	0	0	0	31	0
2006	0	0	0	0	0	0	31	0
2007	0	0	0	0	0	0	34	0
2008	0	0	0	0	0	0	35	0
2009	0	0	0	0	0	0	35	0
2010	0	0	0	0	0	0	38	0
2011	0	0	0	0	0	0	41	0
2012	0	0	0	0	0	0	43	0
2013	0	0	0	0	0	0	46	0
2014	0	0	0	0	0	0	48	0
2015	0	0	0	0	0	0	51	0
2016	0	0	0	0	0	0	53	0
NOM.	0	0	0	0	0	0	667	0
NPV	0	0	0	0	0	0	230	0

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

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: rtgaB5d - Refrigeration

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	1	53	0	54	0	0	4	0	4	(50)	(46)
1996	0	1	55	0	56	0	0	13	0	13	(43)	(82)
1997	0	0	0	0	0	0	0	18	0	18	18	(62)
1998	0	0	0	0	0	0	0	19	0	19	19	(42)
2000	0	0	0	0	0	0	0	21	0	21	21	(22)
2001	0	0	0	0	0	0	0	22	0	22	22	(0)
2002	0	0	0	0	0	0	0	23	0	23	23	11
2003	0	0	0	0	0	0	0	25	0	25	25	28
2004	0	0	0	0	0	0	0	28	0	28	28	44
2005	0	0	0	0	0	0	0	30	0	30	30	60
2006	0	1	82	0	83	0	0	31	0	31	31	63
2007	0	1	85	0	87	0	0	31	0	31	31	58
2008	0	0	0	0	0	0	0	34	0	34	34	62
2009	0	0	0	0	0	0	0	36	0	36	36	63
2010	0	0	0	0	0	0	0	36	0	36	36	74
2011	0	0	0	0	0	0	0	41	0	41	(44)	85
2012	0	0	0	0	0	0	0	43	0	43	(48)	98
2013	0	0	0	0	0	0	0	43	0	43	41	106
2014	0	0	0	0	0	0	0	46	0	46	46	115
2015	0	0	0	0	0	0	0	50	0	50	50	103
2016	0	2	134	0	136	0	0	51	0	53	(78)	91
	0	2	141	0	143	0	0	53	0	55	(80)	
NOM	0	0	550	0	550	150	0	0	0	0	0	0
NPV	0	3	197	0	200	61	0	230	0	291	91	

Discount Rate: 0.22 %

Benefit/Cost Ratio (Col[11] / Col[6]): 1.46

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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME 4ge95x - Refrigeration

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(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 $(010)	NET BENEFITS $(000)	CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	8	0	2	0	10	53	0	0	53	(44)	(40)
1996	24	0	2	0	26	55	0	0	55	(29)	(64)
1997	33	0	0	0	33	0	0	0	0	33	(39)
1998	33	0	0	0	33	0	0	0	0	33	(16)
1999	34	0	0	0	34	0	0	0	0	34	6
2000	35	0	0	0	35	0	0	0	0	35	27
2001	37	0	0	0	37	0	0	0	0	37	47
2002	39	0	0	0	39	0	0	0	0	39	66
2003	41	0	0	0	41	0	0	0	0	41	84
2004	42	0	0	0	42	0	0	0	0	42	102
2005	44	0	2	0	46	82	0	0	82	(36)	88
2006	46	0	2	0	48	85	0	0	85	(36)	75
2007	48	0	0	0	48	0	0	0	0	48	91
2008	50	0	0	0	50	0	0	0	0	50	105
2009	53	0	0	0	53	0	0	0	0	53	119
2010	54	0	0	0	54	0	0	0	0	54	132
2011	57	0	0	0	57	0	0	0	0	57	145
2012	60	0	0	0	60	0	0	0	0	60	158
2013	64	0	0	0	64	0	0	0	0	64	170
2014	68	0	0	0	68	0	0	0	0	68	181
2015	70	0	2	0	71	134	0	0	134	(62)	171
2016	74	0	2	0	75	141	0	0	141	(65)	162
NOM	1,014	0	11	0	1,025	550	0	0	550	475	
NPV	364	0	5	0	369	187	0	0	187	182	

In Service of Gen Unit:	1997
Discount Rate :	8.22
Benefit/Cost Ratio (Col(6) / Col(10))	1.82

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RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: dge86x - Refrigeration

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PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	1	2	6	0	8	4	0	0	0	4	(4)	(4)
1996	0	1	2	18	0	21	13	0	0	0	13	(8)	(11)
1997	0	0	0	24	0	24	26	0	0	0	26	2	(9)
1998	0	0	0	25	0	25	28	0	0	0	28	3	(7)
1999	0	0	0	25	0	25	29	0	0	0	29	4	(4)
2000	0	0	0	26	0	26	31	0	0	0	31	4	(2)
2001	0	0	0	27	0	27	31	0	0	0	31	4	1
2002	0	0	0	29	0	29	34	0	0	0	34	5	3
2003	0	0	0	30	0	30	36	0	0	0	36	5	6
2004	0	0	0	31	0	31	38	0	0	0	38	7	8
2005	0	1	2	33	0	36	39	0	0	0	39	3	9
2006	0	1	2	34	0	37	39	0	0	0	39	2	10
2007	0	0	0	36	0	36	41	0	0	0	41	6	12
2008	0	0	0	37	0	37	43	0	0	0	43	5	13
2009	0	0	0	39	0	39	43	0	0	0	43	4	14
2010	0	0	0	40	0	40	46	0	0	0	46	6	16
2011	0	0	0	42	0	42	48	0	0	0	48	6	17
2012	0	0	0	45	0	45	50	0	0	0	50	6	18
2013	0	0	0	47	0	47	53	0	0	0	53	6	19
2014	0	0	0	50	0	50	56	0	0	0	56	6	20
2015	0	2	2	51	0	55	58	0	0	0	58	3	21
2016	0	2	2	54	0	59	61	0	0	0	61	2	21
NOM.	0	9	11	751	0	770	848	0	0	0	848	78	
NPV	0	3	5	282	0	270	291	0	0	0	291	21	

Discount Rate: 8.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.08

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: BUSINESS CUSTOM INCENTIVE (REFRIGERATION) (1995 - 1996)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

GSLD RATE CLASS	MEASURES IN THE PROGRAM BD-2	BD-5	BD-8
(1) UTILITY NON RECURRING COST PER CUSTOMER	$270	$270	$270
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$7,940	$15,108	$26,800
(6) CUSTOMER O&M COST	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$445	$530	$850
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: REQSUB1R - Refrigeration

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.99	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.33	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	8,814.5	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85800	
(5) K FACTOR FOR T & D	1.88867	

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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	558	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

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 12

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* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: REQSLR1R - Refrigerator

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	1	0	0	0	0	0	0	0	0	0
1999	1	2	0	0	0	0	0	0	0	0
2000	1	2	0	0	0	0	0	0	0	0
2001	1	2	0	3	0	0	0	0	0	0
2002	0	2	0	3	5	0	0	0	0	0
2003	0	0	0	3	14	1	0	0	0	0
2004	0	0	0	3	25	4	57	0	0	0
2005	0	0	0	0	34	7	80	0	0	0
2006	0	0	0	0	43	10	82	0	0	0
2007	0	0	0	0	45	11	85	0	0	57
2008	1	0	0	0	48	12	0	0	0	80
2009	2	2	0	0	50	13	0	0	0	82
2010	2	2	0	0	51	13	0	0	0	85
2011	2	2	0	3	53	14	0	0	0	0
2012	0	2	0	3	56	15	0	0	0	0
2013	0	0	0	3	58	15	0	0	0	0
2014	0	0	0	4	61	16	89	0	0	0
2015	0	0	0	0	63	17	94	0	0	0
2016	0	0	0	0	66	18	89	0	0	0
2017	0	0	0	0	70	19	104	0	0	89
2018	2	0	0	0	74	18	0	0	0	94
2019	3	2	0	0	79	20	0	0	0	89
2020	3	2	0	0	81	22	0	0	0	104
	3	2	0	4	85	22	0	0	0	0
		2	0	4	89	23	0	0	0	0
			0	4	94	25	0	0	0	0
				5	97	26	148	0	0	0
					102	27	156	0	0	0
						29	164	0	0	0
							172	0	0	148
								0	0	156
									0	164
										172
NOM	21	22	0	43	1,446	367	1,270	0	0	1,270
NPV	8	8	0	13	368	101	345	0	0	345

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: REGSUb1R - Refrigeration

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	113	5	1	7	5	2	4	0	23	23	23
2002	109	5	1	6	3	2	4	2	22	20	43
2003	103	5	1	6	3	2	4	2	21	18	61
2004	98	4	1	6	3	2	4	1	20	16	76
2005	93	4	1	5	3	2	4	1	20	14	90
2006	88	4	1	5	3	2	4	1	19	12	102
2007	84	4	1	5	3	2	4	1	18	11	113
2008	79	3	1	5	3	2	4	1	18	10	123
2009	75	3	1	4	3	2	4	1	17	8	131
2010	71	3	1	4	3	2	4	1	16	7	139
2011	68	3	1	4	2	2	4	1	16	6	145
2012	62	3	0	4	2	2	4	1	15	6	151
2013	58	3	0	3	2	2	4	1	14	5	156
2014	53	2	0	3	2	2	4	1	14	4	160
2015	49	2	0	3	2	2	4	1	13	4	164
2016	45	2	0	3	1	2	4	1	12	3	167
2017	40	2	0	2	1	2	4	1	12	3	170
2018	36	2	0	2	1	2	4	1	11	2	173
2019	32	1	0	2	1	2	4	1	10	2	175
2020	27	1	0	2	1	2	4	1	10	2	177
2021	23	1	0	1	2	2	4	0	9	2	179
2022	21	1	0	1	2	2	4	(1)	9	1	180
2023	18	1	0	1	2	2	4	(1)	8	1	181
2024	16	1	0	1	2	2	4	(1)	8	1	182
2025	13	1	0	1	2	2	4	(1)	8	1	183
2026	11	0	0	1	2	2	4	(1)	7	1	184
2027	8	0	0	0	2	2	4	(1)	7	1	184
2028	6	0	0	0	2	2	4	(1)	7	1	185
2029	4	0	0	0	2	2	4	(1)	6	1	185
2030	1	0	0	0	2	2	4	(1)	6	0	186

IN SERVICE COST ($000)	112
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
PS	8%	9.50 %
CS	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65680

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: REGSLD1R - Refrigeration

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	4	4	4	4	3	3	0	10	0	0	0	0
2002	7.22%	8	12	4	7	3	7	2	10	0	0	0	2
2003	6.68%	7	20	4	11	3	10	2	10	0	0	0	2
2004	6.18%	7	26	4	15	3	14	1	10	0	0	0	1
2005	5.71%	6	33	4	19	3	17	1	10	0	0	0	1
2006	5.29%	6	39	4	22	3	21	1	10	0	0	0	1
2007	4.89%	5	44	4	26	3	24	1	10	0	0	0	1
2008	4.52%	5	49	4	30	3	27	1	10	0	0	0	1
2009	4.46%	5	54	4	34	3	31	1	10	0	0	0	1
2010	4.46%	5	59	4	37	3	34	1	10	0	0	0	1
2011	4.46%	5	64	4	41	3	38	1	10	0	0	0	1
2012	4.46%	5	69	4	45	3	41	1	10	0	0	0	1
2013	4.46%	5	74	4	49	3	44	1	10	0	0	0	1
2014	4.46%	5	79	4	52	3	48	1	10	0	0	0	1
2015	4.46%	5	83	4	56	3	51	1	10	0	0	0	1
2016	4.46%	5	88	4	60	3	55	1	10	0	0	0	1
2017	4.46%	5	93	4	64	3	58	1	10	0	0	0	1
2018	4.46%	5	98	4	67	3	62	1	10	0	0	0	1
2019	4.46%	5	103	4	71	3	65	1	10	0	0	0	1
2020	4.46%	5	108	4	75	3	68	1	10	0	0	0	1
2021	2.25%	2	111	4	79	3	72	0	10	0	0	0	0
2022	0.00%	0	111	4	82	3	75	(1)	10	0	0	0	(1)
2023	0.00%	0	111	4	86	3	79	(1)	10	0	0	0	(1)
2024	0.00%	0	111	4	90	3	82	(1)	10	0	0	0	(1)
2025	0.00%	0	111	4	93	3	86	(1)	10	0	0	0	(1)
2026	0.00%	0	111	4	97	3	89	(1)	10	0	0	0	(1)
2027	0.00%	0	111	4	101	3	92	(1)	10	0	0	0	(1)
2028	0.00%	0	111	4	105	3	96	(1)	10	0	0	0	(1)
2029	0.00%	0	111	4	108	3	99	(1)	10	0	0	0	(1)
2030	0.00%	0	111	4	112	3	103	(1)	10	0	0	0	(1)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(3)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	10
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME REGSLD1R - Refrigeration

(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)
2001	3.75%	4	0	108	4	(3)	115	111	113
2002	7.22%	8	2	105	7	(1)	111	106	109
2003	6.68%	7	2	101	11	0	106	100	103
2004	6.18%	7	1	97	15	2	100	95	98
2005	5.71%	6	1	93	19	3	95	91	93
2006	5.28%	6	1	90	22	4	91	88	88
2007	4.89%	5	1	86	26	5	88	81	84
2008	4.52%	5	1	82	30	5	81	77	79
2009	4.46%	5	1	78	34	6	77	73	75
2010	4.46%	5	1	75	37	6	73	68	71
2011	4.46%	5	1	71	41	7	68	64	66
2012	4.46%	5	1	67	45	8	64	60	62
2013	4.46%	5	1	64	49	8	60	55	58
2014	4.46%	5	1	60	52	9	55	51	53
2015	4.46%	5	1	56	56	9	51	47	49
2016	4.46%	5	1	52	60	10	47	42	45
2017	4.46%	5	1	49	64	10	42	38	40
2018	4.46%	5	1	45	67	11	38	34	36
2019	4.46%	5	1	41	71	12	34	29	32
2020	4.46%	5	1	37	75	12	29	25	27
2021	2.25%	2	0	34	78	12	25	22	23
2022	0.00%	0	(1)	30	82	11	22	19	21
2023	0.00%	0	(1)	26	86	9	19	17	18
2024	0.00%	0	(1)	22	90	8	17	14	16
2025	0.00%	0	(1)	19	93	7	15	12	13
2026	0.00%	0	(1)	15	97	5	12	10	11
2027	0.00%	0	(1)	11	101	4	10	7	8
2028	0.00%	0	(1)	7	105	3	7	5	6
2029	0.00%	0	(1)	4	108	1	5	2	4
2030	0.00%	0	(1)	0	112	0	2	0	1

* Column not specified in workbook

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(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($/kW)	(7) CUMULATIVE AVERAGE SPENDING ($/kW)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.60%	1.020	0.00%	0.00	0.00
1996	-5	2.63%	1.053	0.84%	4.92	2.46
1997	-4	3.15%	1.086	1.66%	10.03	8.93
1998	-3	3.62%	1.126	13.00%	81.35	55.62
1999	-2	3.85%	1.169	60.50%	383.17	292.88
2000	-1	3.88%	1.214	24.00%	162.01	570.47
				100.00%	651.48	

YEAR	(8) NO.YEARS BEFORE IN-SERVICE	(9) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) NONREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.46	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.20	0.45	0.56	1.12	1.39	1.02	1.26	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.95	(1.22)	(1.49)	67.61	103.94
1999	-2	300.52	13.29	16.37	32.98	40.62	29.98	36.94	(6.44)	(7.93)	426.15	530.09
2000	-1	611.10	27.24	43.61	67.00	108.22	60.74	97.68	(12.62)	(20.56)	229.61	758.70
			43.61	63.72	108.22		97.68		(20.56)		758.70	

IN SERVICE YEA	2001
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	98	98	98
EQUITY AFUDC	10		
DEBT AFUDC	6	6	
CPI			14
TOTAL	112	103	111

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* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME REGSL01R - Refrigeration

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	2.81	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.10	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.09	1.92	0.00	1.00	1.00
1997	28	28	0.00	3.24	2.03	0.00	1.00	1.00
1998	56	56	0.00	3.49	2.04	0.00	1.00	1.00
1999	83	83	0.00	3.83	2.19	0.00	1.00	1.00
2000	111	111	0.00	4.08	2.43	0.00	1.00	1.00
2001	111	111	0.00	4.23	2.52	5.01	1.00	1.00
2002	111	111	0.00	4.67	2.59	5.43	1.00	1.00
2003	111	111	0.00	5.08	2.77	5.37	1.00	1.00
2004	111	111	0.00	5.51	2.84	5.95	1.00	1.00
2005	111	111	0.00	5.82	3.14	5.89	1.00	1.00
2006	111	111	0.00	5.70	3.30	6.32	1.00	1.00
2007	111	111	0.00	6.15	3.57	6.65	1.00	1.00
2008	111	111	0.00	6.39	3.61	7.04	1.00	1.00
2009	111	111	0.00	6.40	3.92	7.57	1.00	1.00
2010	111	111	0.00	6.99	4.18	8.37	1.00	1.00
2011	111	111	0.00	7.52	4.14	8.53	1.00	1.00
2012	111	111	0.00	7.84	4.53	8.96	1.00	1.00
2013	111	111	0.00	8.36	4.62	8.57	1.00	1.00
2014	111	111	0.00	8.82	4.88	10.14	1.00	1.00
2015	111	111	0.00	9.27	5.18	10.51	1.00	1.00
2016	111	111	0.00	9.89	5.39	11.12	1.00	1.00
2017	111	111	0.00	10.10	5.66	11.73	1.00	1.00
2018	111	111	0.00	10.10	5.92	12.38	1.00	1.00
2019	111	111	0.00	10.83	6.19	13.08	1.00	1.00
2020	111	111	0.00	11.18	6.48	13.77	1.00	1.00

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

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME REGSL01R - Refrigeration

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	23	4	0.160	22	34	15
2002	22	4	0.174	25	36	14
2003	21	4	0.184	27	39	15
2004	20	5	0.184	30	42	13
2005	20	5	0.180	30	39	15
2006	19	5	0.174	27	37	15
2007	18	5	0.154	25	33	16
2008	18	6	0.144	24	31	16
2009	17	6	0.160	27	35	14
2010	16	6	0.168	28	29	12
2011	16	6	0.124	21	28	16
2012	15	7	0.101	17	23	17
2013	14	7	0.102	18	23	16
2014	14	8	0.112	19	25	15
2015	13	8	0.130	22	29	14
2016	12	8	0.125	21	28	14
2017	12	9	0.129	22	29	14
2018	11	9	0.131	22	30	13
2019	10	10	0.142	24	32	12
2020	10	10	0.150	25	34	11
NOM	322	133	2.944	477	647	287
NPV	95	31	0.830	130	180	77

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: REGSL01R - Refrigeration

PSC FORM CE 2.2
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(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	4	0
1998	0	0	0	0	0	0	14	0
1999	0	0	0	0	0	0	26	0
2000	0	0	0	0	0	0	39	0
2001	0	0	0	0	0	0	46	0
2002	0	0	0	0	0	0	51	0
2003	0	0	0	0	0	0	55	0
2004	0	0	0	0	0	0	60	0
2005	0	0	0	0	0	0	61	0
2006	0	0	0	0	0	0	62	0
2007	0	0	0	0	0	0	67	0
2008	0	0	0	0	0	0	70	0
2009	0	0	0	0	0	0	70	0
2010	0	0	0	0	0	0	78	0
2011	0	0	0	0	0	0	82	0
2012	0	0	0	0	0	0	88	0
2013	0	0	0	0	0	0	91	0
2014	0	0	0	0	0	0	96	0
2015	0	0	0	0	0	0	101	0
2016	0	0	0	0	0	0	106	0
2017	0	0	0	0	0	0	110	0
2018	0	0	0	0	0	0	110	0
2019	0	0	0	0	0	0	116	0
2020	0	0	0	0	0	0	122	0
NOM.	0	0	0	0	0	0	1,723	0
NPV	0	0	0	0	0	0	430	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 REGSUD1R - Refrigeration

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	1	57	0	58	0	0	4	0	4	(54)	(41)
1998	0	1	60	0	61	0	0	14	0	14	(46)	(74)
1999	0	1	62	0	63	0	0	26	0	26	(37)	(98)
2000	0	1	65	0	66	0	0	39	0	39	(27)	(114)
2001	0	0	0	0	0	15	0	48	0	62	62	(81)
2002	0	0	0	0	0	14	0	51	0	64	64	(48)
2003	0	0	0	0	0	15	0	56	0	71	71	(17)
2004	0	0	0	0	0	13	0	60	0	73	73	13
2005	0	0	0	0	0	15	0	61	0	77	77	42
2006	0	0	0	0	0	15	0	62	0	77	77	69
2007	0	1	89	0	91	16	0	67	0	83	(8)	66
2008	0	2	94	0	96	16	0	70	0	86	(10)	64
2009	0	2	99	0	100	14	0	70	0	84	(16)	59
2010	0	2	104	0	105	12	0	76	0	88	(17)	55
2011	0	0	0	0	0	16	0	82	0	99	90	77
2012	0	0	0	0	0	17	0	86	0	102	102	98
2013	0	0	0	0	0	16	0	91	0	107	107	118
2014	0	0	0	0	0	15	0	96	0	111	111	137
2015	0	0	0	0	0	14	0	101	0	116	116	155
2016	0	0	0	0	0	14	0	106	0	120	120	172
2017	0	2	148	0	150	14	0	110	0	124	(28)	(3)
2018	0	3	156	0	159	13	0	110	0	123	(36)	(4)
2019	0	3	164	0	167	12	0	116	0	128	(38)	(4)
2020	0	3	172	0	175	11	0	122	0	133	(42)	(4)
NOM	0	21	1,270	0	1,290	287	0	1,723	0	2,011	720	
NPV	0	8	345	0	351	77	0	430	0	507	156	

Discount Rate: 8.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.45

0450

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME REGSLD1R - Refrigerator

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	8	0	2	0	10	57	0	0	57	(47)	(38)
1998	25	0	2	0	27	60	0	0	60	(33)	(66)
1999	43	0	2	0	45	62	0	0	62	(18)	(71)
2000	62	0	2	0	64	65	0	0	65	(1)	(72)
2001	74	0	0	0	74	0	0	0	0	74	(32)
2002	77	0	0	0	77	0	0	0	0	77	8
2003	82	0	0	0	82	0	0	0	0	82	43
2004	85	0	0	0	85	0	0	0	0	85	78
2005	88	0	0	0	88	0	0	0	0	88	112
2006	92	0	0	0	92	0	0	0	0	92	143
2007	97	0	2	0	99	89	0	0	89	9	148
2008	101	0	2	0	102	94	0	0	94	9	148
2009	105	0	2	0	107	98	0	0	98	9	151
2010	109	0	2	0	111	104	0	0	104	7	153
2011	115	0	0	0	115	0	0	0	0	115	179
2012	120	0	0	0	120	0	0	0	0	120	203
2013	128	0	0	0	128	0	0	0	0	128	227
2014	135	0	0	0	135	0	0	0	0	135	250
2015	139	0	0	0	139	0	0	0	0	139	272
2016	147	0	0	0	147	0	0	0	0	147	293
2017	154	0	2	0	156	148	0	0	148	8	1
2018	162	0	2	0	164	156	0	0	156	8	1
2019	167	0	2	0	169	164	0	0	164	5	1
2020	176	0	2	0	178	172	0	0	172	5	1
NOM	2,491	0	22	0	2,513	1,270	0	0	1,270	1,243	
NPV	634	0	8	0	642	345	0	0	345	296	

In Service of Gen Unit	2001
Discount Rate	9.22
Benefit/Cost Ratio (Col(9) / Col(10))	1.86

0451

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME REGSLI01R - Refrigeration

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	1	2	6	0	9	4	0	0	0	4	(4)	(3)
1998	0	1	2	19	0	21	14	0	0	0	14	(7)	(8)
1999	0	1	2	32	0	35	26	0	0	0	26	(8)	(14)
2000	0	1	2	46	0	49	39	0	0	0	39	(10)	(20)
2001	0	0	0	55	0	55	62	0	0	0	62	7	(16)
2002	0	0	0	57	0	57	64	0	0	0	64	7	(12)
2003	0	0	0	61	0	61	71	0	0	0	71	10	(6)
2004	0	0	0	63	0	63	73	0	0	0	73	10	(3)
2005	0	0	0	65	0	65	77	0	0	0	77	12	1
2006	0	0	0	68	0	68	77	0	0	0	77	9	4
2007	0	1	2	72	0	75	83	0	0	0	83	8	7
2008	0	2	2	74	0	78	86	0	0	0	86	8	9
2009	0	2	2	78	0	81	84	0	0	0	84	3	10
2010	0	2	2	81	0	84	88	0	0	0	88	4	11
2011	0	0	0	85	0	85	98	0	0	0	98	13	14
2012	0	0	0	89	0	89	102	0	0	0	102	13	16
2013	0	0	0	95	0	95	107	0	0	0	107	12	18
2014	0	0	0	100	0	100	111	0	0	0	111	11	21
2015	0	0	0	103	0	103	116	0	0	0	116	13	23
2016	0	0	0	109	0	109	120	0	0	0	120	11	24
2017	0	2	2	114	0	118	124	0	0	0	124	5	1
2018	0	3	2	120	0	124	123	0	0	0	123	(1)	0
2019	0	3	2	124	0	128	128	0	0	0	128	0	0
2020	0	3	2	130	0	135	133	0	0	0	133	(1)	0
NOM.	0	21	22	1,844	0	1,886	2,011	0	0	0	2,011	125	
NPV	0	8	8	469	0	482	507	0	0	0	507	25	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.05

(0452)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM		
GSLD RATE CLASS	BD-2	BD-5	BD-8
(1) UTILITY NON RECURRING COST PER CUSTOMER	$270	$270	$270
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$7,940	$15,108	$26,800
(6) CUSTOMER O&M COST	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$445	$530	$850
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	1.6	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 % *	
(3) DEMAND CHARGE IN CUSTOMER BILL	8.1	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0 % *	

* Values apply to first year only.

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME RFG04R - Refrigeration

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.99	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.32	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	9,094.2	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	29	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.65688	
(5) K FACTOR FOR T & D	1.65867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOME	***	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2004	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2003	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	50%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	4.20	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	9.34	%**

V. NON-FUEL ENERGY AND DEMAND CHARGES

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

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* 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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME RFG04R - Refrigeration

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	9	26	0	35	141	37	1,950	0	0	1,950
2002	6	17	0	24	392	104	1,353	0	0	1,353
2003	4	8	0	12	571	150	716	0	0	716
2004	0	0	0	0	644	169	0	0	0	0
2005	0	0	0	0	666	177	0	0	0	0
2006	0	0	0	0	694	187	0	0	0	0
2007	0	0	0	0	734	196	0	0	0	0
2008	0	0	0	0	781	205	0	0	0	0
2009	0	0	0	0	795	217	0	0	0	0
2010	0	0	0	0	822	226	0	0	0	0
2011	15	26	0	41	864	242	3,108	0	0	3,108
2012	10	17	0	27	909	249	2,170	0	0	2,170
2013	6	9	0	15	968	262	1,158	0	0	1,158
2014	0	0	0	0	1,020	279	0	0	0	0
2015	0	0	0	0	1,049	287	0	0	0	0
2016	0	0	0	0	1,110	301	0	0	0	0
2017	0	0	0	0	1,163	319	0	0	0	0
2018	0	0	0	0	1,222	332	0	0	0	0
2019	0	0	0	0	1,281	344	0	0	0	0
2020	0	0	0	0	1,322	365	0	0	0	0
2021	25	26	0	51	1,387	388	5,174	0	0	5,174
2022	17	17	0	34	1,456	412	3,810	0	0	3,810
NOM	93	146	0	239	19,953	5,449	19,237	0	0	19,237
NPV	20	41	0	61	4,036	1,094	4,180	0	0	4,180

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

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CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME RFG04R - Refrigeration

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	1,875	74	13	96	67	27	55	4	336	336	336
2005	1,804	71	12	92	43	27	55	26	326	298	635
2006	1,525	67	12	88	43	27	55	23	314	263	898
2007	1,448	64	11	83	43	27	55	19	302	232	1,130
2008	1,375	61	10	79	43	27	55	17	291	205	1,335
2009	1,305	57	10	75	43	27	55	14	281	181	1,515
2010	1,237	54	9	71	42	27	55	11	271	159	1,675
2011	1,171	52	9	67	42	27	55	9	261	141	1,815
2012	1,107	49	8	64	40	27	55	9	251	124	1,939
2013	1,043	46	8	60	37	27	55	9	242	109	2,049
2014	979	43	7	56	34	27	55	9	232	96	2,145
2015	915	40	7	53	32	27	55	9	222	84	2,229
2016	851	37	6	49	29	27	55	9	213	74	2,303
2017	787	35	6	45	27	27	55	9	203	65	2,367
2018	724	32	5	42	24	27	55	9	194	58	2,424
2019	660	29	5	38	21	27	55	9	184	49	2,473
2020	596	26	5	34	19	27	55	9	174	43	2,515
2021	532	23	4	31	16	27	55	9	165	37	2,552
2022	468	21	4	27	13	27	55	9	155	32	2,584
2023	404	18	3	23	11	27	55	9	146	27	2,611
2024	347	15	3	20	22	27	55	(5)	137	23	2,634
2025	304	13	2	18	15	27	55	(20)	131	20	2,655
2026	268	12	2	15	33	27	55	(20)	125	18	2,673
2027	233	10	2	13	32	27	55	(20)	120	16	2,689
2028	197	9	1	11	31	27	55	(20)	115	14	2,702
2029	161	7	1	9	29	27	55	(20)	109	12	2,714
2030	125	6	1	7	28	27	55	(20)	104	10	2,725
2031	89	4	1	5	26	27	55	(20)	98	9	2,734
2032	54	2	0	3	25	27	55	(20)	93	8	2,742
2033	18	1	0	1	23	27	55	(20)	88	7	2,749

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.85688

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME RFG04R - Refrigeration

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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 DEPN RATE MINUS 1/LIFE	(10)*(11) *TAX RATE $(000)	SALVAGE *TAX RATE $(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)
2004	3.75%	61	61	55	55	51	51	4	141	0	0	0	4
2005	7.22%	118	179	55	111	51	101	28	141	0	0	0	28
2006	6.68%	109	289	55	166	51	152	23	141	0	0	0	23
2007	6.18%	101	390	55	221	51	202	19	141	0	0	0	19
2008	5.71%	93	483	55	276	51	253	17	141	0	0	0	17
2009	5.28%	86	570	55	332	51	304	14	141	0	0	0	14
2010	4.89%	80	650	55	387	51	354	11	141	0	0	0	11
2011	4.52%	74	724	55	442	51	405	9	141	0	0	0	9
2012	4.46%	73	796	55	496	51	455	9	141	0	0	0	9
2013	4.46%	73	869	55	553	51	506	9	141	0	0	0	9
2014	4.46%	73	942	55	608	51	557	9	141	0	0	0	9
2015	4.46%	73	1,015	55	664	51	607	9	141	0	0	0	9
2016	4.46%	73	1,088	55	719	51	658	9	141	0	0	0	9
2017	4.46%	73	1,161	55	774	51	708	9	141	0	0	0	9
2018	4.46%	73	1,234	55	829	51	759	9	141	0	0	0	9
2019	4.46%	73	1,307	55	885	51	810	9	141	0	0	0	9
2020	4.46%	73	1,380	55	940	51	860	9	141	0	0	0	9
2021	4.46%	73	1,453	55	995	51	911	9	141	0	0	0	9
2022	4.46%	73	1,526	55	1,051	51	961	9	141	0	0	0	9
2023	4.46%	73	1,599	55	1,106	51	1,012	9	141	0	0	0	9
2024	2.25%	37	1,636	55	1,161	51	1,062	(5)	141	0	0	0	(5)
2025	0.00%	0	1,636	55	1,217	51	1,113	(20)	141	0	0	0	(20)
2026	0.00%	0	1,636	55	1,272	51	1,164	(20)	141	0	0	0	(20)
2027	0.00%	0	1,636	55	1,327	51	1,214	(20)	141	0	0	0	(20)
2028	0.00%	0	1,636	55	1,382	51	1,265	(20)	141	0	0	0	(20)
2029	0.00%	0	1,636	55	1,436	51	1,315	(20)	141	0	0	0	(20)
2030	0.00%	0	1,636	55	1,493	51	1,366	(20)	141	0	0	0	(20)
2031	0.00%	0	1,636	55	1,548	51	1,417	(20)	141	0	0	0	(20)
2032	0.00%	0	1,636	55	1,604	51	1,467	(20)	141	0	0	0	(20)
2033	0.00%	0	1,636	55	1,659	51	1,518	(20)	141	0	0	0	(20)

SALVAGE / REMOVAL COST	0.07
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(46)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	141
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME RFG04R : Refrigeration

PSC FORM CE 1.1A
PAGE 2b OF 2

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
2004	3.75%	61	4	1,804	55	(41)	1,704	1,845	1,675
2005	7.22%	118	26	1,548	111	(10)	1,645	1,584	1,804
2006	6.68%	109	23	1,492	166	7	1,584	1,483	1,525
2007	6.18%	101	19	1,436	221	27	1,488	1,411	1,448
2008	5.71%	93	17	1,382	276	47	1,411	1,339	1,375
2009	5.29%	86	14	1,327	332	67	1,339	1,270	1,305
2010	4.89%	80	11	1,272	387	87	1,270	1,203	1,237
2011	4.52%	74	9	1,217	442	107	1,203	1,139	1,171
2012	4.46%	73	9	1,161	498	128	1,139	1,075	1,107
2013	4.46%	73	9	1,106	553	148	1,075	1,011	1,043
2014	4.46%	73	9	1,051	609	168	1,011	947	979
2015	4.46%	73	9	995	664	189	947	883	915
2016	4.46%	73	9	940	719	209	883	819	851
2017	4.46%	73	9	885	774	229	819	756	787
2018	2.23%	37	4	829	829	249	756	692	724
2019	0.00%	0	0	774	885	270	692	628	660
2020	0.00%	0	0	719	940	290	628	564	596
2021	0.00%	0	0	664	995	310	564	500	532
2022	0.00%	0	0	609	1,051	330	500	436	468
2023	0.00%	0	0	553	1,106	350	436	372	404
2024	0.00%	0	0	498	1,161	370	372	322	347
2025	0.00%	0	0	442	1,217	390	322	286	304
2026	0.00%	0	0	387	1,272	410	286	250	268
2027	0.00%	0	0	332	1,327	430	250	215	233
2028	0.00%	0	0	276	1,382	450	215	179	197
2029	0.00%	0	0	221	1,433	470	179	143	161
2030	0.00%	0	0	166	1,480	490	143	107	125
2031	0.00%	0	0	111	1,548	510	107	72	89
2032	0.00%	0	0	55	1,804	530	72	36	54
2033	0.00%	0	0	0	1,859	550	36	0	18

* 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 ($A/W)	(7) CUMULATIVE AVERAGE SPENDING ($A/W)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.60%	1.026	0.00%	0.00	0.00
1996	-8	2.62%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.62%	1.126	0.00%	0.00	0.00
1999	-5	3.85%	1.169	0.84%	5.46	2.73
2000	-4	3.68%	1.214	1.66%	11.21	11.06
2001	-3	3.93%	1.262	13.00%	91.21	62.27
2002	-2	3.68%	1.311	60.50%	440.62	326.33
2003	-1	3.66%	1.363	24.00%	191.82	639.70
				100.00%	730.81	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($A/W)	(9a)* DEBT AFUDC ($A/W)	(9b)* CUMULATIVE DEBT AFUDC ($A/W)	(9) YEARLY TOTAL AFUDC ($A/W)	(9a)* CUMULATIVE TOTAL AFUDC ($A/W)	(9b)* CONSTRUCTION PERIOD INTEREST ($A/W)	(9c)* CUMULATIVE CPI ($A/W)	(9d)* DEFERRED TAXES ($A/W)	(9e)* CUMULATIVE DEFERRED TAXES ($A/W)	(10) INCREMENTAL YEAR-END BOOK VALUE ($A/W)	(11) CUMULATIVE YEAR-END BOOK VALUE ($A/W)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.06)	(0.06)	5.76	5.76
2000	-4	11.38	0.50	0.62	1.25	1.55	1.13	1.41	(0.24)	(0.30)	12.45	18.21
2001	-3	93.81	2.82	3.44	7.00	8.55	6.37	7.77	(1.37)	(1.67)	98.21	116.42
2002	-2	338.88	14.90	18.34	36.67	45.52	33.81	41.38	(7.22)	(8.89)	477.89	594.31
2003	-1	646.21	30.54	48.88	75.80	121.31	68.11	109.49	(14.49)	(23.38)	257.81	851.92
			48.88	71.41	121.31		109.49		(23.38)		851.92	

IN SERVICE YEA	2004
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	1,423	1,423	1,423
EQUITY AFUDC	141		
DEBT AFUDC	95	95	
CPI			213
TOTAL	1,659	1,518	1,636

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME RFQ04R - Refrigeration

PSC FORM CE 1.2
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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAN/h)	(5) AVOIDED MARGINAL FUEL COST (CAN/h)	(6)* INCREASED MARGINAL FUEL COST (CAN/h)	(7) REPLACEMENT FUEL COST (CAN/h)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	2.88	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.15	1.82	0.00	1.00	1.00
1996	0	0	0.00	3.13	1.82	0.00	1.00	1.00
1997	0	0	0.00	3.29	2.03	0.00	1.00	1.00
1998	0	0	0.00	3.53	2.04	0.00	1.00	1.00
1999	0	0	0.00	3.89	2.19	0.00	1.00	1.00
2000	0	0	0.00	4.12	2.43	0.00	1.00	1.00
2001	727	727	0.00	4.33	2.52	0.00	1.00	1.00
2002	1,228	1,228	2.00	4.77	2.59	0.00	1.00	1.00
2003	1,473	1,473	0.00	5.19	2.77	0.00	1.00	1.00
2004	1,473	1,473	0.00	5.82	2.84	0.00	1.00	1.00
2005	1,473	1,473	0.00	5.79	3.14	5.95	1.00	1.00
2006	1,472	1,473	0.00	5.89	3.30	5.89	1.00	1.00
2007	1,473	1,473	0.00	6.37	3.57	6.32	1.00	1.00
2008	1,473	1,473	0.00	6.80	3.81	6.65	1.00	1.00
2009	1,473	1,472	0.00	6.58	3.92	7.04	1.00	1.00
2010	1,473	1,472	0.00	7.18	4.18	7.57	1.00	1.00
2011	1,473	1,472	0.00	7.74	4.14	8.37	1.00	1.00
2012	1,473	1,473	0.00	8.08	4.53	8.53	1.00	1.00
2013	1,473	1,472	0.00	8.80	4.82	8.98	1.00	1.00
2014	1,473	1,473	0.00	9.08	4.88	9.57	1.00	1.00
2015	1,473	1,473	0.00	8.54	5.18	10.14	1.00	1.00
2016	1,473	1,473	0.00	9.06	5.39	10.51	1.00	1.00
2017	1,473	1,472	0.00	10.39	5.68	11.12	1.00	1.00
2018	1,473	1,473	0.00	10.39	5.95	11.73	1.00	1.00
2019	1,473	1,473	0.00	10.94	6.25	12.38	1.00	1.00
2020	1,473	1,473	0.00	11.51	6.57	13.06	1.00	1.00
2021	1,473	1,473	0.00	12.11	6.90	13.77	1.00	1.00
2022	1,473	1,473	0.00	12.74	7.25	14.53	1.00	1.00
						15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0460

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME RFG34R - Refrigeration

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	0	0	0	0	0	0
2005	336	81	3	394	557	237
2006	326	84	2	391	516	268
2007	314	87	2	382	486	259
2008	302	70	2	327	432	268
2009	291	74	2	312	408	271
2010	281	77	2	351	464	247
2011	271	81	2	370	512	213
2012	261	86	2	377	367	258
2013	251	90	2	226	268	271
2014	242	95	1	231	308	263
2015	232	100	1	252	326	250
2016	222	106	2	266	367	238
2017	213	111	2	282	372	235
2018	203	116	2	285	378	228
2019	194	122	2	295	394	218
2020	184	129	2	319	428	205
2021	174	136	2	334	451	195
2022	165	143	2	341	464	187
	156	150	2	352	481	178
NOM	4,617	1,878	36	5,009	8,038	4,482
NPV	1,099	348	6	1,300	1,744	879

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AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: RFG04R - Refrigeration

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0
							145	
							426	
							637	
							763	
							772	
							709	
							853	
							885	
							881	
							982	
							1,027	
							1,079	
							1,153	
							1,218	
							1,278	
							1,335	
							1,392	
							1,392	
							1,466	
							1,541	
							1,622	
							1,707	
NOM. NPV	0	0	0	0	0	0	23,321	0
	0	0	0	0	0	0	4,662	0

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: RFG04R - Refrigeration

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	1,950	0	1,950	0	0	145	0	145	(1,814)	(978)
2002	0	6	1,353	0	1,359	0	0	426	0	426	(933)	(1,439)
2003	0	4	716	0	719	0	0	637	0	637	(83)	(1,477)
2004	0	0	0	0	0	237	0	753	0	990	990	(1,067)
2005	0	0	0	0	0	268	0	772	0	1,039	1,039	(572)
2006	0	0	0	0	0	259	0	789	0	1,048	1,048	(309)
2007	0	0	0	0	0	269	0	853	0	1,122	1,122	47
2008	0	0	0	0	0	271	0	885	0	1,156	1,156	383
2009	0	0	0	0	0	247	0	881	0	1,129	1,129	664
2010	0	0	0	0	0	213	0	962	0	1,176	1,176	970
2011	0	15	3,108	0	3,123	259	0	1,037	0	1,296	(1,827)	582
2012	0	10	2,170	0	2,180	271	0	1,079	0	1,350	(830)	363
2013	0	6	1,156	0	1,162	263	0	1,153	0	1,415	254	440
2014	0	0	0	0	0	250	0	1,216	0	1,466	1,466	861
2015	0	0	0	0	0	238	0	1,278	0	1,516	1,516	829
2016	0	0	0	0	0	235	0	1,335	0	1,570	1,570	1,155
2017	0	0	0	0	0	228	0	1,392	0	1,621	1,621	1,366
2018	0	0	0	0	0	219	0	1,392	0	1,611	1,611	1,562
2019	0	0	0	0	0	205	0	1,465	0	1,670	1,670	1,746
2020	0	0	0	0	0	195	0	1,541	0	1,736	1,736	1,921
2021	0	25	5,174	0	5,199	187	0	1,622	0	1,809	(3,390)	1,806
2022	0	17	3,810	0	3,827	178	0	1,707	0	1,885	(1,742)	1,460
												#VALUE!
NOM	0	83	19,227	0	19,309	4,482	0	23,321	0	27,813	8,482	
NPV	0	20	4,180	0	4,200	979	0	4,882	0	5,860	1,460	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.35

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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME RFG04R - Refrigeration

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	241	0	26	0	267	1,950	0	0	1,950	(1,683)	(908)
2002	670	0	17	0	687	1,353	0	0	1,353	(666)	(329)
2003	975	0	9	0	983	716	0	0	716	267	121
2004	1,089	0	0	0	1,089	0	0	0	0	1,089	455
2005	1,142	0	0	0	1,142	0	0	0	0	1,142	433
2006	1,190	0	0	0	1,190	0	0	0	0	1,190	413
2007	1,257	0	0	0	1,257	0	0	0	0	1,257	399
2008	1,306	0	0	0	1,306	0	0	0	0	1,306	380
2009	1,368	0	0	0	1,368	0	0	0	0	1,368	364
2010	1,415	0	0	0	1,415	0	0	0	0	1,415	345
2011	1,494	0	26	0	1,520	3,108	0	0	3,108	(1,588)	(354)
2012	1,564	0	17	0	1,582	2,170	0	0	2,170	(589)	(120)
2013	1,662	0	9	0	1,671	1,156	0	0	1,156	515	99
2014	1,754	0	0	0	1,754	0	0	0	0	1,754	301
2015	1,805	0	0	0	1,805	0	0	0	0	1,805	283
2016	1,907	0	0	0	1,907	0	0	0	0	1,907	274
2017	2,003	0	0	0	2,003	0	0	0	0	2,003	263
2018	2,100	0	0	0	2,100	0	0	0	0	2,100	253
2019	2,169	0	0	0	2,169	0	0	0	0	2,169	239
2020	2,281	0	0	0	2,281	0	0	0	0	2,281	230
2021	2,399	0	26	0	2,425	5,174	0	0	5,174	(2,749)	(254)
2022	2,524	0	17	0	2,541	3,810	0	0	3,810	(1,068)	(90)
NOM	34,328	0	146	0	34,474	19,237	0	0	19,237	15,237	
NPV	6,932	0	41	0	6,973	4,180	0	0	4,180	2,794	

In Service of Gen Unit:	2004
Discount Rate :	9.22
Benefit/Cost Ratio (Col(6) / Col(10))	1.67

(1464)

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: RFG04R - Refrigeration

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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	9	26	179	0	214	145	0	0	0	145	(58)	(37)
2002	0	6	17	496	0	519	426	0	0	0	426	(93)	(46)
2003	0	4	9	721	0	734	637	0	0	0	637	(97)	(44)
2004	0	0	0	813	0	813	990	0	0	0	990	177	73
2005	0	0	0	845	0	845	1,039	0	0	0	1,039	194	74
2006	0	0	0	881	0	881	1,048	0	0	0	1,048	167	58
2007	0	0	0	930	0	930	1,122	0	0	0	1,122	192	61
2008	0	0	0	966	0	966	1,156	0	0	0	1,156	190	55
2009	0	0	0	1,012	0	1,012	1,129	0	0	0	1,129	118	31
2010	0	0	0	1,047	0	1,047	1,176	0	0	0	1,176	128	31
2011	0	15	28	1,106	0	1,148	1,296	0	0	0	1,296	149	33
2012	0	10	17	1,158	0	1,185	1,350	0	0	0	1,350	165	34
2013	0	8	9	1,230	0	1,244	1,415	0	0	0	1,415	171	32
2014	0	0	0	1,298	0	1,298	1,466	0	0	0	1,466	167	29
2015	0	0	0	1,338	0	1,338	1,518	0	0	0	1,518	180	28
2016	0	0	0	1,411	0	1,411	1,570	0	0	0	1,570	159	23
2017	0	0	0	1,482	0	1,482	1,621	0	0	0	1,621	138	18
2018	0	0	0	1,554	0	1,554	1,611	0	0	0	1,611	57	7
2019	0	0	0	1,805	0	1,805	1,870	0	0	0	1,870	65	7
2020	0	0	0	1,888	0	1,888	1,736	0	0	0	1,736	48	5
2021	0	25	26	1,775	0	1,826	1,809	0	0	0	1,809	(17)	(2)
2022	0	17	17	1,868	0	1,902	1,885	0	0	0	1,885	(18)	(1)
NOM.	0	83	146	25,402	0	25,642	27,813	0	0	0	27,813	2,171	
NPV	0	20	41	5,130	0	5,191	5,660	0	0	0	5,660	469	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.09

(465)

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: BUSINESS CUSTOM INCENTIVE (REFRIGERATION) (2001 - 2003)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM					
	BD-1	BD-2	BD-3	BD-4	BD-5	BD-6
GSD RATE CLASS						
(1) UTILITY NON RECURRING COST PER CUSTOMER					$30	$30
(2) UTILITY RECURRING COST PER CUSTOMER					$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)					$7,878	$9,600
(6) CUSTOMER O&M COST					$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE					$150	$150
(13) UTILITY RECURRING REBATE/INCENTIVE					$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE					0%	0%
GSLD RATE CLASS						
(1) UTILITY NON RECURRING COST PER CUSTOMER	$270	$270	$270	$270		$270
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0	$0		$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$6,497	$7,940	$14,964	$15,074		$26,800
(6) CUSTOMER O&M COST	$0	$0	$0	$0		$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$405	$445	$450	$500		$850
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0	$0		$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%		0%

III. (2,5,7,9) ESCALATION RATES

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	1.884	1.576	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0 % *	
(3) DEMAND CHARGE IN CUSTOMER BILL	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	1.60	0 % *	

* Values apply to first year only.

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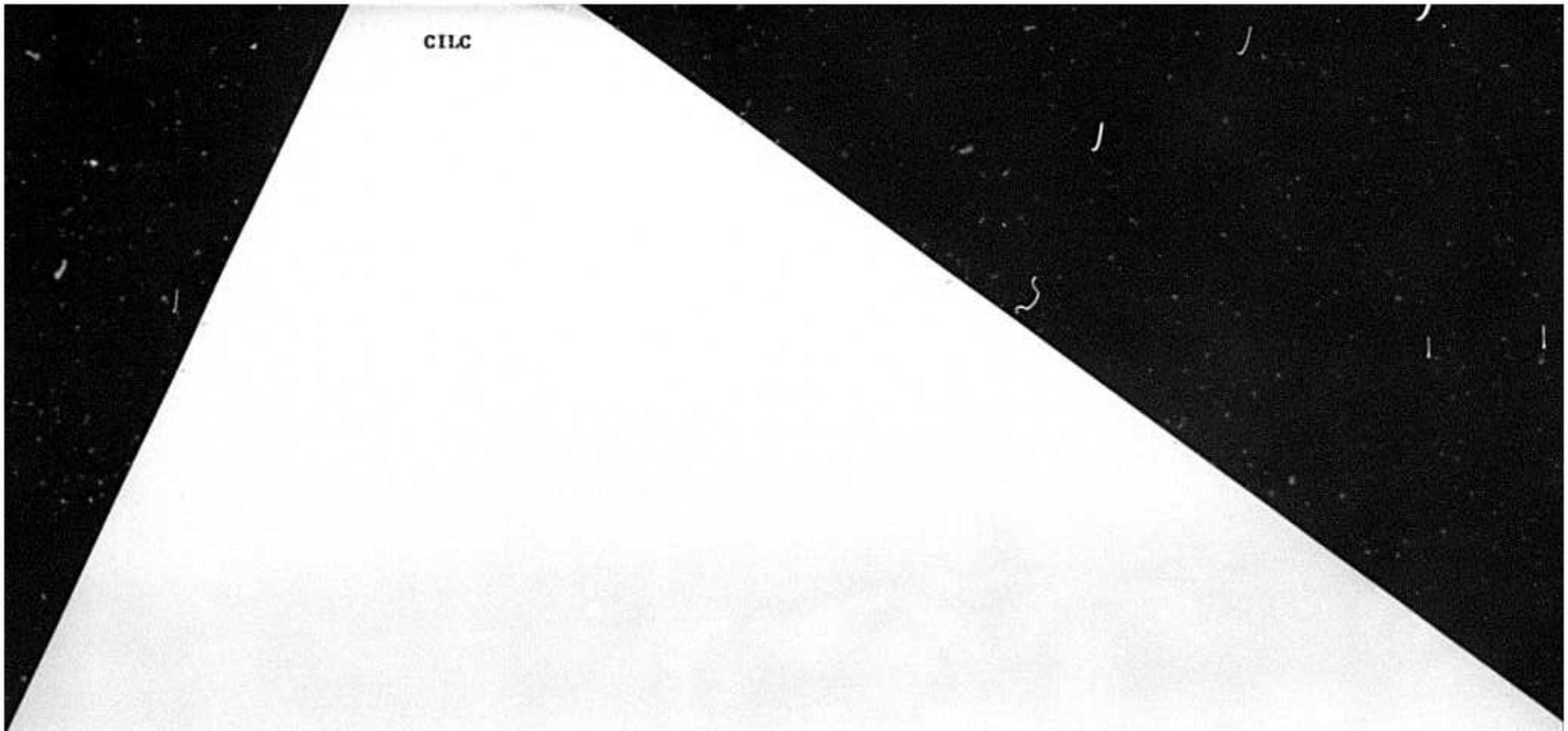

COMMERCIAL/INDUSTRAL LOAD CONTROL

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	84,304	58,032	1.45	56,849	343	165.91	84,304	1,932	43.63
1997-2000	47,696	38,677	1.23	37,759	236	159.82	47,696	1,466	32.54
2001-2003									
1995-2003	132,000	96,709	1.36	94,608	579	163.40	132,000	3,398	38.85

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: M95X - CI Load Control

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.00 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.29 kW
(3) kW LINE LOSS PERCENTAGE	7.20 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER	108.7 kWh ---
(5) kWh LINE LOSS PERCENTAGE	5.84 %
(6) GROUP LINE LOSS MULTIPLIER	1.0000
(7) CUSTOMER kWh INCREASE AT METER	40.9 kWh ---

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23 YEARS
(2) GENERATOR ECONOMIC LIFE	20 YEARS
(3) T&D ECONOMIC LIFE	35 YEARS
(4) K FACTOR FOR GENERATION	1.64957
(5) K FACTOR FOR T & D	1.66867

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	8.22 %
* (11) UTILITY AFUDC RATE	10.92 %
* (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	1994
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998
(4) BASE YEAR AVOIDED GENERATING COST	202 $/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0 $/kW
(6) BASE YEAR DISTRIBUTION COST	0 $/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.60 %**
(8) GENERATOR FIXED O & M COST	24 $/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.40 %**
(10) TRANSMISSION FIXED O & M COST	0.00 $/kW
(11) DISTRIBUTION FIXED O & M COST	0.00 $/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40 %**
(15) GENERATOR CAPACITY FACTOR	0% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	9.34 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

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

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* 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 12
---- 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: M98X - CI Load Control

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	101	2,408	0	2,507	34	0	202	3	0	205
1996	134	5,616	0	5,751	85	0	67	7	0	75
1997	136	6,423	0	6,559	100	0	0	8	0	8
1998	141	6,423	0	6,564	104	0	0	8	0	8
1999	147	6,423	0	6,569	110	0	0	8	0	8
2000	151	6,423	0	6,574	118	0	0	10	0	10
2001	156	6,423	0	6,579	124	0	0	10	0	10
2002	162	6,423	0	6,585	129	0	0	10	0	10
2003	170	6,423	0	6,592	136	0	0	11	0	11
2004	177	6,423	0	6,600	143	0	0	11	0	11
2005	185	6,423	0	6,608	148	0	0	12	0	12
2006	194	6,423	0	6,617	148	0	0	13	0	13
2007	203	6,423	0	6,626	158	0	0	13	0	13
2008	213	6,423	0	6,636	163	0	0	14	0	14
2009	224	6,423	0	6,646	167	0	0	14	0	14
2010	235	6,423	0	6,658	171	0	0	15	0	15
2011	247	6,423	0	6,670	175	0	0	16	0	16
2012	260	6,423	0	6,683	180	0	0	17	0	17
2013	274	6,423	0	6,697	208	0	0	18	0	18
2014	289	6,423	0	6,711	214	0	0	18	0	19
2015	304	6,423	0	6,728	220	0	0	20	0	20
2016	319	6,423	0	6,742	230	0	0	21	0	21
								22	0	22
NOM	4,422	136,477	0	140,899	3,275	0	269	292	0	561
NPV	1,889	55,288	0	58,879	1,155	0	241	102	0	343

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

0469

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: M95X - CI Load Control

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	44,072	1,939	335	2,539	1,787	705	1,461	104	8,850	8,850	8,850
1998	42,217	1,858	321	2,432	1,112	705	1,461	684	8,572	7,748	16,598
1999	40,118	1,765	305	2,311	1,116	705	1,461	594	8,257	6,821	23,419
2000	38,108	1,677	290	2,195	1,117	705	1,461	510	7,954	6,105	29,524
2001	36,174	1,592	275	2,084	1,117	705	1,461	432	7,664	5,386	35,110
2002	34,318	1,510	261	1,977	1,112	705	1,461	360	7,386	4,791	39,901
2003	32,530	1,431	247	1,874	1,104	705	1,461	294	7,117	4,192	44,093
2004	30,808	1,355	234	1,774	1,095	705	1,461	232	6,858	3,660	47,752
2005	29,117	1,281	221	1,677	1,039	705	1,461	222	6,605	3,261	51,013
2006	27,434	1,207	209	1,580	988	705	1,461	223	6,352	2,871	53,884
2007	25,751	1,133	196	1,483	938	705	1,461	223	6,099	2,524	56,409
2008	24,067	1,059	183	1,386	888	705	1,461	223	5,847	2,215	58,624
2009	22,384	985	170	1,289	837	705	1,461	223	5,594	1,941	60,565
2010	20,701	911	157	1,192	787	705	1,461	223	5,341	1,697	62,261
2011	19,017	837	145	1,096	737	705	1,461	223	5,088	1,480	63,741
2012	17,334	763	132	998	686	705	1,461	223	4,836	1,288	65,029
2013	15,651	688	119	901	635	705	1,461	223	4,583	1,117	66,146
2014	13,967	615	106	805	585	705	1,461	223	4,330	966	67,112
2015	12,284	540	93	708	535	705	1,461	223	4,077	833	67,945
2016	10,601	466	81	611	484	705	1,461	223	3,825	716	68,661
2017	8,102	400	69	524	347	705	1,461	223	3,600	617	69,278
2018	7,976	351	61	459	279	705	1,461	223	3,421	538	69,816
2019	7,037	310	53	405	599	705	1,461	223	3,290	472	70,288
2020	6,099	268	46	351	918	705	1,461	223	3,148	414	70,702
2021	5,161	227	39	297	839	705	1,461	223	3,008	362	71,064
2022	4,222	186	32	243	801	705	1,461	223	2,867	316	71,380
2023	3,284	144	25	189	762	705	1,461	223	2,729	275	71,655
2024	2,346	103	18	135	724	705	1,461	223	2,585	239	71,894
2025	1,407	62	11	81	685	705	1,461	223	2,444	207	72,100
2026	469	21	4	27	647	705	1,461	223	2,303	179	72,279
					608	705	1,461	223			

IN SERVICE COST ($000)	43,817
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	8.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	8.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.64957

0470

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME M96X - CI Load Control

PSC FORM CE 1.1A
PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	1,024	1,024	1,461	1,461	1,354	1,354	104	3,201	0	0	0	104
1998	7.22%	3,127	4,751	1,461	2,921	1,354	2,708	684	3,201	0	0	0	684
1999	6.68%	2,893	7,643	1,461	4,382	1,354	4,062	594	3,201	0	0	0	594
2000	6.18%	2,678	10,320	1,461	5,842	1,354	5,415	510	3,201	0	0	0	510
2001	5.71%	2,473	12,792	1,461	7,303	1,354	6,769	432	3,201	0	0	0	432
2002	5.29%	2,287	15,079	1,461	8,763	1,354	8,123	360	3,201	0	0	0	360
2003	4.89%	2,118	17,197	1,461	10,224	1,354	9,477	295	3,201	0	0	0	295
2004	4.52%	1,957	19,154	1,461	11,684	1,354	10,831	233	3,201	0	0	0	233
2005	4.46%	1,931	21,085	1,461	13,145	1,354	12,185	223	3,201	0	0	0	223
2006	4.46%	1,931	23,017	1,461	14,606	1,354	13,539	223	3,201	0	0	0	223
2007	4.46%	1,931	24,949	1,461	16,066	1,354	14,892	223	3,201	0	0	0	223
2008	4.46%	1,931	26,880	1,461	17,527	1,354	16,246	223	3,201	0	0	0	223
2009	4.46%	1,931	28,811	1,461	18,987	1,354	17,600	223	3,201	0	0	0	223
2010	4.46%	1,931	30,743	1,461	20,448	1,354	18,954	223	3,201	0	0	0	223
2011	4.46%	1,931	32,674	1,461	21,908	1,354	20,308	223	3,201	0	0	0	223
2012	4.46%	1,931	34,605	1,461	23,369	1,354	21,662	223	3,201	0	0	0	223
2013	4.46%	1,931	36,537	1,461	24,829	1,354	23,016	223	3,201	0	0	0	223
2014	4.46%	1,931	38,468	1,461	26,290	1,354	24,370	223	3,201	0	0	0	223
2015	4.46%	1,931	40,400	1,461	27,751	1,354	25,723	223	3,201	0	0	0	223
2016	4.46%	1,931	42,331	1,461	29,211	1,354	27,077	223	3,201	0	0	0	223
2017	2.29%	974	43,305	1,461	30,672	1,354	28,431	(146)	3,201	0	0	0	(146)
2018	0.00%	0	43,305	1,461	32,132	1,354	29,785	(522)	3,201	0	0	0	(522)
2019	0.00%	0	43,305	1,461	33,593	1,354	31,139	(522)	3,201	0	0	0	(522)
2020	0.00%	0	43,305	1,461	35,053	1,354	32,493	(522)	3,201	0	0	0	(522)
2021	0.00%	0	43,305	1,461	36,514	1,354	33,847	(522)	3,201	0	0	0	(522)
2022	0.00%	0	43,305	1,461	37,975	1,354	35,200	(522)	3,201	0	0	0	(522)
2023	0.00%	0	43,305	1,461	39,435	1,354	36,554	(522)	3,201	0	0	0	(522)
2024	0.00%	0	43,305	1,461	40,896	1,354	37,908	(522)	3,201	0	0	0	(522)
2025	0.00%	0	43,305	1,461	42,356	1,354	39,262	(522)	3,201	0	0	0	(522)
2026	0.00%	0	43,305	1,461	43,817	1,354	40,616	(522)	3,201	0	0	0	(522)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,036)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,201
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

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page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV REQ

PROGRAM NAME MBEX - CI Load Control

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
1997	3.75%	1,624	104	42,358	1,461	(933)	44,854	43,289	44,072
1998	7.22%	3,127	884	40,909	2,921	(248)	43,289	41,145	42,217
1999	6.68%	2,883	884	39,435	4,382	344	41,145	39,591	40,118
2000	6.18%	2,676	810	37,975	5,842	854	39,591	37,120	38,109
2001	5.71%	2,473	432	36,514	7,303	1,398	37,120	35,228	36,174
2002	5.29%	2,257	380	35,053	8,763	1,848	35,228	33,408	34,318
2003	4.89%	2,118	295	33,593	10,224	1,940	33,408	31,653	32,530
2004	4.52%	1,957	233	32,132	11,684	2,173	31,653	29,959	30,806
2005	4.46%	1,931	223	30,672	13,145	2,368	29,959	28,279	29,117
2006	4.46%	1,931	223	29,211	14,606	2,819	28,279	26,592	27,434
2007	4.46%	1,931	223	27,751	16,066	3,042	26,592	24,909	25,751
2008	4.46%	1,931	223	26,290	17,527	3,264	24,909	23,226	24,067
2009	4.46%	1,931	223	24,829	18,987	3,287	23,226	21,542	22,384
2010	4.46%	1,931	223	23,369	20,448	3,510	21,542	19,859	20,701
2011	4.46%	1,931	223	21,908	21,908	3,733	19,859	18,176	19,017
2012	4.46%	1,931	223	20,448	23,369	3,956	18,176	16,492	17,334
2013	4.46%	1,931	223	18,987	24,829	4,179	16,492	14,809	15,651
2014	4.46%	1,931	223	17,527	26,290	4,401	14,809	13,126	13,967
2015	4.46%	1,931	223	16,066	27,751	4,624	13,126	11,442	12,284
2016	4.46%	1,931	223	14,606	29,211	4,847	11,442	9,759	10,601
2017	2.25%	974	(146)	13,145	30,672	4,700	9,759	8,445	9,102
2018	0.00%	0	(522)	11,684	32,132	4,178	8,445	7,506	7,976
2019	0.00%	0	(522)	10,224	33,593	3,656	7,506	6,568	7,037
2020	0.00%	0	(522)	8,763	35,053	3,134	6,568	5,630	6,099
2021	0.00%	0	(522)	7,303	36,514	2,611	5,630	4,692	5,161
2022	0.00%	0	(522)	5,842	37,975	2,089	4,692	3,753	4,222
2023	0.00%	0	(522)	4,382	39,435	1,567	3,753	2,815	3,284
2024	0.00%	0	(522)	2,921	40,896	1,045	2,815	1,877	2,346
2025	0.00%	0	(522)	1,461	42,356	522	1,877	938	1,407
2026	0.00%	0	(522)	0	43,817	0	938	0	469

* Column not specified in workbook

0472

(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)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.90%	1.029	44.55%	179.18	144.12
1996	-1	2.63%	1.053	41.54%	171.47	319.45
				100.00%	405.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) NOREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-3	27.27	1.20	1.20	2.98	2.98	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	19.11	14.68	17.41	(3.15)	(3.73)	195.31	252.82
1996	-1	338.55	15.09	22.79	37.38	56.48	33.69	51.10	(7.16)	(10.83)	206.85	461.67
			22.79	31.69	56.48		51.10		(10.83)		461.67	

		BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
IN SERVICE YEA	1997	CONSTRUCTION CASH	38,456	38,456	38,456
PLANT COSTS	302	EQUITY AFUDC	3,201		
AFUDC RATE	10.92%	DEBT AFUDC	2,190	2,190	
		CPI			4,850
		TOTAL	43,847	40,646	43,306

0473

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME MI95X - CI Load Control

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	(5) AVOIDED MARGINAL FUEL COST (C/kWh)	(6)* INCREASED MARGINAL FUEL COST (C/kWh)	(7) REPLACEMENT FUEL COST (C/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.82	1.89	0.00	1.00	1.00
1995	54,897	54,897	0.00	4.89	1.82	0.00	1.00	1.00
1996	73,397	73,397	0.00	5.08	1.92	0.00	1.00	1.00
1997	73,397	73,397	0.00	5.82	2.03	4.28	1.00	1.00
1998	73,397	73,397	0.00	6.01	2.04	4.25	1.00	1.00
1999	73,397	73,397	0.00	7.19	2.19	7.85	1.00	1.00
2000	73,397	73,397	0.00	7.25	2.43	8.21	1.00	1.00
2001	73,397	73,397	0.00	7.76	2.52	8.42	1.00	1.00
2002	73,397	73,397	0.00	8.29	2.58	8.66	1.00	1.00
2003	73,397	73,397	0.00	9.13	2.77	8.28	1.00	1.00
2004	73,397	73,397	0.00	9.88	2.84	8.80	1.00	1.00
2005	73,397	73,397	0.00	10.69	3.14	9.82	1.00	1.00
2006	73,397	73,397	0.00	11.33	3.30	9.52	1.00	1.00
2007	73,397	73,397	0.00	12.55	3.57	9.79	1.00	1.00
2008	73,397	73,397	0.00	13.29	3.81	10.06	1.00	1.00
2009	73,397	73,397	0.00	13.21	3.92	10.57	1.00	1.00
2010	73,397	73,397	0.00	14.48	4.18	10.88	1.00	1.00
2011	73,397	73,397	0.00	15.29	4.14	11.45	1.00	1.00
2012	73,397	73,397	0.00	15.83	4.53	12.04	1.00	1.00
2013	73,397	73,397	0.00	16.82	4.82	13.05	1.00	1.00
2014	73,397	73,397	0.00	17.89	4.88	13.71	1.00	1.00
2015	73,397	73,397	0.00	18.77	5.18	14.19	1.00	1.00
2016	73,397	73,397	0.00	19.82	5.39	15.01	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.

0474

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME M96X - CI Load Control

PSC FORM GE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	8,850	2,494	0.132	40	48	11,339
1998	8,572	2,599	0.148	45	49	11,167
1999	8,257	2,716	0.808	252	476	10,750
2000	7,954	2,841	0.058	19	34	10,780
2001	7,664	2,977	0.097	32	58	10,618
2002	7,386	3,114	0.101	35	60	10,476
2003	7,117	3,258	0.186	67	108	10,334
2004	6,858	3,401	0.319	119	184	10,195
2005	6,605	3,554	0.188	72	104	10,127
2006	6,362	3,721	0.167	64	87	10,050
2007	6,099	3,896	0.301	118	153	9,900
2008	5,847	4,027	0.300	119	151	9,903
2009	5,594	4,291	0.175	71	88	9,088
2010	5,341	4,510	0.716	291	348	9,708
2011	5,088	4,745	0.618	255	305	9,764
2012	4,836	4,998	0.814	337	420	9,749
2013	4,583	5,281	1.028	428	521	9,792
2014	4,330	5,540	1.038	432	524	9,779
2015	4,077	5,828	1.021	428	507	9,825
2016	3,825	6,131	1.248	520	624	9,853
NOM	125,236	79,661	9.483	3,742	4,843	204,106
NPV	52,386	26,298	2.824	983	1,361	78,818

0475

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: M96X - CI Load Control

PSC FORM CE 2.2
PAGE 1 OF 1

(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 FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	148	23
1996	0	0	0	0	0	0	353	54
1997	0	0	0	0	0	0	448	85
1998	0	0	0	0	0	0	479	65
1999	0	0	0	0	0	0	574	70
2000	0	0	0	0	0	0	578	77
2001	0	0	0	0	0	0	620	81
2002	0	0	0	0	0	0	661	53
2003	0	0	0	0	0	0	726	68
2004	0	0	0	0	0	0	768	81
2005	0	0	0	0	0	0	852	100
2006	0	0	0	0	0	0	904	105
2007	0	0	0	0	0	0	1,000	114
2008	0	0	0	0	0	0	1,000	121
2009	0	0	0	0	0	0	1,053	125
2010	0	0	0	0	0	0	1,155	133
2011	0	0	0	0	0	0	1,219	132
2012	0	0	0	0	0	0	1,271	104
2013	0	0	0	0	0	0	1,350	147
2014	0	0	0	0	0	0	1,428	158
2015	0	0	0	0	0	0	1,497	165
2016	0	0	0	0	0	0	1,581	172
NOM.	0	0	0	0	0	0	18,823	2,313
NPV	0	0	0	0	0	0	8,478	790

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

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME M95X - CI Load Control

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PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	101	205	0	306	0	0	123	0	123	(182)	(167)
1996	0	134	75	0	209	0	0	209	0	209	90	(91)
1997	0	136	9	0	145	11,339	0	383	0	11,722	11,577	8,793
1998	0	141	9	0	150	11,187	0	414	0	11,601	11,450	18,825
1999	0	147	10	0	156	10,750	0	504	0	11,253	11,097	23,964
2000	0	151	10	0	161	10,780	0	501	0	11,281	11,119	30,514
2001	0	156	10	0	166	10,618	0	540	0	11,158	10,992	36,441
2002	0	162	11	0	173	10,476	0	579	0	11,054	10,881	41,814
2003	0	170	11	0	181	10,334	0	640	0	10,974	10,793	46,692
2004	0	177	12	0	189	10,195	0	697	0	10,892	10,703	51,122
2005	0	185	13	0	198	10,127	0	752	0	10,879	10,681	55,170
2006	0	194	13	0	207	10,050	0	798	0	10,848	10,641	58,862
2007	0	203	14	0	217	9,960	0	968	0	10,927	10,710	62,263
2008	0	213	14	0	227	9,903	0	939	0	10,842	10,614	65,350
2009	0	224	15	0	239	9,868	0	928	0	10,796	10,558	68,161
2010	0	235	16	0	251	9,798	0	1,021	0	10,819	10,568	70,736
2011	0	247	17	0	264	9,784	0	1,087	0	10,871	10,607	73,105
2012	0	260	18	0	278	9,749	0	1,126	0	10,875	10,597	75,270
2013	0	274	19	0	293	9,702	0	1,202	0	10,904	10,611	77,286
2014	0	289	20	0	308	9,779	0	1,271	0	11,049	10,741	79,105
2015	0	304	21	0	324	9,825	0	1,331	0	11,156	10,832	80,804
2016	0	319	22	0	341	9,853	0	1,409	0	11,262	10,921	82,372
NOM	0	4,422	561	0	4,983	204,105	0	17,510	0	221,615	216,632	
NPV	0	1,589	343	0	1,932	78,618	0	5,686	0	84,304	82,372	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Cc(11) / Cc(6)): 43.63

0477

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME M95X - CI Load Control

PSC FORM CE 2.4
PAGE 1 OF 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	SAVINGS IN PARTICIPANTS BILLS $(000)	TAX CREDITS $(000)	UTILIT / 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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	46	0	2,406	0	2,452	202	3	0	205	2,248	2,058
1996	115	0	5,618	0	5,733	67	7	0	75	5,658	6,801
1997	135	0	6,423	0	6,558	0	9	0	9	6,549	11,827
1998	141	0	6,423	0	6,564	0	9	0	9	6,554	16,432
1999	148	0	6,423	0	6,571	0	10	0	10	6,561	20,653
2000	157	0	6,423	0	6,580	0	10	0	10	6,570	24,523
2001	167	0	6,423	0	6,590	0	10	0	10	6,579	28,071
2002	173	0	6,423	0	6,596	0	11	0	11	6,585	31,322
2003	188	0	6,423	0	6,609	0	11	0	11	6,597	34,304
2004	193	0	6,423	0	6,616	0	12	0	12	6,604	37,030
2005	197	0	6,423	0	6,620	0	13	0	13	6,607	39,541
2006	200	0	6,423	0	6,623	0	13	0	13	6,609	41,834
2007	214	0	6,423	0	6,637	0	14	0	14	6,623	43,938
2008	221	0	6,423	0	6,643	0	14	0	14	6,629	45,866
2009	226	0	6,423	0	6,648	0	15	0	15	6,634	47,632
2010	231	0	6,423	0	6,654	0	16	0	16	6,638	49,250
2011	237	0	6,423	0	6,659	0	17	0	17	6,642	50,720
2012	257	0	6,423	0	6,679	0	18	0	18	6,662	52,094
2013	279	0	6,423	0	6,701	0	18	0	19	6,683	53,344
2014	289	0	6,423	0	6,712	0	20	0	20	6,692	54,491
2015	297	0	6,423	0	6,719	0	21	0	21	6,699	55,541
2016	318	0	6,423	0	6,741	0	22	0	22	6,719	56,506
NOM	4,429	0	136,477	0	140,903	269	292	0	561	140,342	
NPV	1,560	0	55,288	0	56,849	241	102	0	343	56,506	

In Service of Gen Unit: 1997

Discount Rate : 0.22

Benefit/Cost Ratio (Col(6) / Col(10)) 165.91

0478

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME M95X - CI Load Control

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PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	101	2,406	34	0	2,541	123	0	0	0	123	(2,418)	(2,214)
1996	0	134	5,618	85	0	5,837	299	0	0	0	299	(5,538)	(6,856)
1997	0	136	6,423	100	0	6,659	11,722	0	0	0	11,722	5,063	(2,910)
1998	0	141	6,423	104	0	6,668	11,581	0	0	0	11,581	4,912	482
1999	0	147	6,423	110	0	6,679	11,253	0	0	0	11,253	4,574	3,424
2000	0	151	6,423	116	0	6,690	11,291	0	0	0	11,291	4,599	6,129
2001	0	156	6,423	124	0	6,702	11,158	0	0	0	11,158	4,456	8,531
2002	0	162	6,423	128	0	6,713	11,054	0	0	0	11,054	4,341	10,674
2003	0	170	6,423	138	0	6,730	10,974	0	0	0	10,974	4,244	12,589
2004	0	177	6,423	143	0	6,743	10,892	0	0	0	10,892	4,150	14,311
2005	0	185	6,423	148	0	6,754	10,879	0	0	0	10,879	4,125	15,874
2006	0	194	6,423	148	0	6,764	10,948	0	0	0	10,948	4,184	17,291
2007	0	203	6,423	158	0	6,784	10,927	0	0	0	10,927	4,143	18,607
2008	0	213	6,423	163	0	6,799	10,842	0	0	0	10,842	4,043	19,782
2009	0	224	6,423	167	0	6,814	10,798	0	0	0	10,798	3,983	20,843
2010	0	235	6,423	171	0	6,829	10,819	0	0	0	10,819	3,990	21,815
2011	0	247	6,423	175	0	6,845	10,871	0	0	0	10,871	4,026	22,714
2012	0	260	6,423	189	0	6,872	10,875	0	0	0	10,875	4,002	23,532
2013	0	274	6,423	206	0	6,903	10,954	0	0	0	10,954	4,051	24,290
2014	0	289	6,423	214	0	6,925	11,049	0	0	0	11,049	4,124	24,999
2015	0	304	6,423	220	0	6,948	11,159	0	0	0	11,159	4,211	25,658
2016	0	319	6,423	236	0	6,979	11,282	0	0	0	11,282	4,294	26,272
NOM.	0	4,422	136,477	3,275	0	144,174	221,615	0	0	0	221,615	77,441	
NPV	0	1,589	55,268	1,155	0	58,032	84,304	0	0	0	84,304	26,272	

Discount Rate 8.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.45

0479

III. UTILITY & CUSTOMER COSTS (1x955 PER CUSTOMER; 1 kw @ GENERATOR)

GSLD RATE CLASS	CILC	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$0.1268	Excludes capital costs.
(3) UTILITY RECURRING COST PER CUSTOMER	$1.5290	
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$3.4000	
(6) CUSTOMER O&M COST	$0.1034	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0.0000	
(13) UTILITY RECURRING REBATE/INCENTIVE	$81.2000	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
	5.3%	4.5%
	5.3%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	1.58	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0 %	*

* Values apply to first year only.

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME M101R - CI Load Control

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	1.00	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.29	kW
(3) kW LINE LOSS PERCENTAGE	7.20	%
(4) GENERATOR kWh REDUCTION PER CUSTOMEF	108.7	kWh *****
(5) kWh LINE LOSS PERCENTAGE	5.84	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	40.9	kWh *****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PRO	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.65490	
(5) K FACTOR FOR T & D	1.66867	

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMI	***	$/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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (12) UTILITY NON RECURRING REBATE/INCENTIVE	***	$/CUST
* (13) UTILITY RECURRING REBATE/INCENTIVE	***	$/CUST
* (14) UTILITY REBATE/INCENTIVE ESCALATION RAT	***	%

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.010	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	9.34	%**

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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM
***** THIS PROGRAM IS PRIMARILY A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUSTOMER SHIFTED AWAY FROM PEAK HOURS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUSTOM AFTER ADJUSTING ONE OF THESE NUMBERS TO PLACE BOTH AT THE METER OR AT THE GENERATOR, THE DIFFERENCE BETWEEN THE TWO IS THE ANNUAL KWH/CUSTOMER REDUCTION

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME M01R - CI Load Control

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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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	31	696	0	727	11	0	50	1	0	50
1998	84	2,067	0	2,150	34	0	50	3	0	81
1999	88	3,478	0	3,577	59	0	50	5	0	63
2000	138	4,809	0	5,008	88	0	50	8	0	88
2001	140	5,565	0	5,706	107	0	0	9	0	9
2002	145	5,565	0	5,711	111	0	0	10	0	10
2003	150	5,565	0	5,716	119	0	0	10	0	10
2004	156	5,565	0	5,721	124	0	0	10	0	10
2005	161	5,565	0	5,726	128	0	0	11	0	11
2006	168	5,565	0	5,733	128	0	0	11	0	11
2007	176	5,565	0	5,741	137	0	0	12	0	12
2008	185	5,565	0	5,750	142	0	0	12	0	12
2009	194	5,565	0	5,759	145	0	0	13	0	13
2010	204	5,565	0	5,769	148	0	0	14	0	14
2011	214	5,565	0	5,779	152	0	0	14	0	14
2012	226	5,565	0	5,791	164	0	0	15	0	15
2013	238	5,565	0	5,803	179	0	0	16	0	16
2014	250	5,565	0	5,815	185	0	0	17	0	17
2015	263	5,565	0	5,828	190	0	0	18	0	18
2016	277	5,565	0	5,842	204	0	0	18	0	19
2017	291	5,565	0	5,856	210	0	0	20	0	20
2018	306	5,565	0	5,871	223	0	0	21	0	21
2019	322	5,565	0	5,887	229	0	0	22	0	22
2020	339	5,565	0	5,904	236	0	0	23	0	23
NOM	4,726	122,433	0	127,168	3,453	0	233	313	0	546
NPV	1,220	36,560	0	37,780	887	0	157	79	0	236

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME M01R - CI Load Control

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	63,074	2,775	479	3,633	2,536	1,006	2,083	156	12,670	12,670	12,670
2002	60,423	2,659	459	3,480	1,804	1,006	2,083	961	12,272	11,230	23,906
2003	57,423	2,527	436	3,308	1,810	1,006	2,083	853	11,822	9,909	33,815
2004	54,548	2,400	415	3,142	1,811	1,006	2,083	734	11,390	8,741	42,557
2005	51,797	2,279	394	2,983	1,810	1,006	2,083	622	10,978	7,712	50,269
2006	49,134	2,162	373	2,830	1,803	1,006	2,083	520	10,577	6,804	57,073
2007	46,579	2,049	354	2,683	1,801	1,006	2,083	427	10,193	6,004	63,077
2008	44,112	1,941	335	2,541	1,578	1,006	2,083	339	9,823	5,297	68,374
2009	41,807	1,835	317	2,402	1,494	1,006	2,083	325	9,460	4,671	73,045
2010	39,290	1,729	298	2,263	1,395	1,006	2,083	325	9,099	4,113	77,158
2011	36,882	1,623	280	2,124	1,296	1,006	2,083	325	8,737	3,616	80,774
2012	34,475	1,517	262	1,986	1,198	1,006	2,083	325	8,376	3,174	83,948
2013	32,067	1,411	244	1,847	1,099	1,006	2,083	325	8,014	2,780	86,729
2014	29,659	1,305	225	1,708	1,001	1,006	2,083	325	7,653	2,431	89,160
2015	27,202	1,199	207	1,570	902	1,006	2,083	325	7,291	2,120	91,280
2016	24,844	1,093	189	1,431	804	1,006	2,083	325	6,930	1,845	93,125
2017	22,437	987	171	1,292	705	1,006	2,083	325	6,568	1,601	94,727
2018	20,029	881	152	1,154	606	1,006	2,083	325	6,207	1,385	96,112
2019	17,622	775	134	1,015	508	1,006	2,083	325	5,846	1,195	97,306
2020	15,214	669	116	879	409	1,006	2,083	325	5,484	1,029	98,333
2021	13,069	575	99	753	347	1,006	2,083	(200)	5,162	884	99,217
2022	11,454	504	87	660	1,215	1,006	2,083	(735)	4,820	772	99,989
2023	10,107	445	77	582	1,290	1,006	2,083	(735)	4,717	677	100,666
2024	8,759	385	67	505	1,205	1,006	2,083	(735)	4,515	584	101,250
2025	7,412	326	56	427	1,150	1,006	2,083	(735)	4,313	519	101,770
2026	6,064	267	46	349	1,095	1,006	2,083	(735)	4,110	453	102,231
2027	4,710	208	36	272	1,039	1,006	2,083	(735)	3,908	394	102,625
2028	3,369	148	26	194	984	1,006	2,083	(735)	3,706	342	102,968
2029	2,021	89	15	116	929	1,006	2,083	(735)	3,503	298	103,264
2030	674	30	5	39	874	1,006	2,083	(735)	3,301	256	103,520

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65690

0483

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/30/95

PROGRAM NAME M001R - CI Load Control

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	2,310	2,310	2,083	2,083	1,905	1,905	158	5,314	0	0	0	158
2002	7.22%	4,448	6,758	2,083	4,165	1,905	3,811	981	5,314	0	0	0	981
2003	6.68%	4,116	10,874	2,083	6,248	1,905	5,716	853	5,314	0	0	0	853
2004	6.18%	3,806	14,682	2,083	8,330	1,905	7,622	734	5,314	0	0	0	734
2005	5.71%	3,518	18,200	2,083	10,413	1,905	9,527	622	5,314	0	0	0	622
2006	5.28%	3,253	21,452	2,083	12,496	1,905	11,433	520	5,314	0	0	0	520
2007	4.89%	3,013	24,466	2,083	14,578	1,905	13,338	427	5,314	0	0	0	427
2008	4.52%	2,785	27,250	2,083	16,661	1,905	15,244	339	5,314	0	0	0	339
2009	4.46%	2,748	29,998	2,083	18,743	1,905	17,149	325	5,314	0	0	0	325
2010	4.46%	2,748	32,745	2,083	20,826	1,905	19,055	325	5,314	0	0	0	325
2011	4.46%	2,748	35,494	2,083	22,909	1,905	20,960	325	5,314	0	0	0	325
2012	4.46%	2,748	38,242	2,083	24,991	1,905	22,866	325	5,314	0	0	0	325
2013	4.46%	2,748	40,990	2,083	27,074	1,905	24,771	325	5,314	0	0	0	325
2014	4.46%	2,748	43,737	2,083	29,156	1,905	26,677	325	5,314	0	0	0	325
2015	4.46%	2,748	46,485	2,083	31,239	1,905	28,582	325	5,314	0	0	0	325
2016	4.46%	2,748	49,233	2,083	33,322	1,905	30,487	325	5,314	0	0	0	325
2017	4.46%	2,748	51,981	2,083	35,404	1,905	32,393	325	5,314	0	0	0	325
2018	4.46%	2,748	54,729	2,083	37,487	1,905	34,298	325	5,314	0	0	0	325
2019	4.46%	2,748	57,477	2,083	39,569	1,905	36,204	325	5,314	0	0	0	325
2020	4.46%	2,748	60,224	2,083	41,652	1,905	38,109	325	5,314	0	0	0	325
2021	2.25%	1,386	61,611	2,083	43,735	1,905	40,015	(200)	5,314	0	0	0	(200)
2022	0.00%	0	61,611	2,083	45,817	1,905	41,920	(735)	5,314	0	0	0	(735)
2023	0.00%	0	61,611	2,083	47,900	1,905	43,826	(735)	5,314	0	0	0	(735)
2024	0.00%	0	61,611	2,083	49,982	1,905	45,731	(735)	5,314	0	0	0	(735)
2025	0.00%	0	61,611	2,083	52,065	1,905	47,637	(735)	5,314	0	0	0	(735)
2026	0.00%	0	61,611	2,083	54,148	1,905	49,542	(735)	5,314	0	0	0	(735)
2027	0.00%	0	61,611	2,083	56,230	1,905	51,448	(735)	5,314	0	0	0	(735)
2028	0.00%	0	61,611	2,083	58,313	1,905	53,353	(735)	5,314	0	0	0	(735)
2029	0.00%	0	61,611	2,083	60,395	1,905	55,258	(735)	5,314	0	0	0	(735)
2030	0.00%	0	61,611	2,083	62,478	1,905	57,164	(735)	5,314	0	0	0	(735)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,715)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	5,314
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

01/30/95

PROGRAM NAME: MI01R - CI Load Control

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2001	3.75%	2,310	158	60,395	2,083	(1,559)	64,193	61,954	63,074
2002	7.22%	4,448	981	58,313	4,165	(578)	61,954	58,691	60,423
2003	6.68%	4,118	853	56,230	6,248	274	58,691	55,050	57,423
2004	6.18%	3,808	734	54,148	8,330	1,008	55,956	53,139	54,548
2005	5.71%	3,518	622	52,065	10,413	1,630	53,139	50,435	51,787
2006	5.28%	3,253	529	49,982	12,496	2,170	50,435	47,832	49,134
2007	4.89%	3,013	427	47,900	14,578	2,577	47,832	45,323	46,578
2008	4.52%	2,785	339	45,817	16,661	2,916	45,323	42,901	44,112
2009	4.46%	2,748	325	43,735	18,743	3,241	42,901	40,493	41,697
2010	4.46%	2,748	325	41,652	20,826	3,566	40,493	38,086	39,290
2011	4.46%	2,748	325	39,569	22,909	3,891	38,086	35,678	36,882
2012	4.46%	2,748	325	37,487	24,991	4,216	35,678	33,271	34,475
2013	4.46%	2,748	325	35,404	27,074	4,541	33,271	30,863	32,067
2014	4.46%	2,748	325	33,322	29,156	4,866	30,863	28,456	29,659
2015	4.46%	2,748	325	31,239	31,239	5,191	28,456	26,048	27,252
2016	4.46%	2,748	325	29,156	33,322	5,516	26,048	23,641	24,844
2017	4.46%	2,748	325	27,074	35,404	5,841	23,641	21,233	22,437
2018	4.46%	2,748	325	24,991	37,487	6,166	21,233	18,825	20,029
2019	4.46%	2,748	325	22,909	39,569	6,491	18,825	16,418	17,622
2020	4.46%	2,748	325	20,826	41,652	6,816	16,418	14,010	15,214
2021	2.25%	1,386	(200)	18,743	43,735	6,616	14,010	12,139	13,069
2022	0.00%	0	(735)	16,661	45,817	5,880	12,139	10,781	11,454
2023	0.00%	0	(735)	14,578	47,900	5,145	10,781	9,433	10,107
2024	0.00%	0	(735)	12,496	49,982	4,410	9,433	8,085	8,759
2025	0.00%	0	(735)	10,413	52,065	3,675	8,085	6,738	7,412
2026	0.00%	0	(735)	8,330	54,148	2,940	6,738	5,390	6,064
2027	0.00%	0	(735)	6,248	56,230	2,205	5,390	4,043	4,716
2028	0.00%	0	(735)	4,165	58,313	1,470	4,043	2,695	3,369
2029	0.00%	0	(735)	2,083	60,395	735	2,695	1,348	2,021
2030	0.00%	0	(735)	0	62,478	0	1,348	0	674

* Column not specified in workbook

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01/30/95

(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)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.50%	1.025	0.00%	0.00	0.00
1996	-5	2.63%	1.053	0.94%	4.82	2.48
1997	-4	3.15%	1.086	1.86%	10.03	8.93
1998	-3	3.02%	1.120	13.00%	81.35	55.82
1999	-2	3.80%	1.169	60.50%	383.17	292.88
2000	-1	3.98%	1.214	24.00%	162.01	570.47
				100.00%	651.48	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.48	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.20	0.45	0.56	1.12	1.39	1.02	1.26	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.08	6.25	7.64	5.68	6.95	(1.22)	(1.48)	87.81	103.94
1999	-2	300.52	13.29	16.37	32.98	40.62	29.98	36.94	(6.44)	(7.93)	426.15	530.09
2000	-1	811.10	27.24	43.61	67.60	108.22	60.74	97.68	(12.92)	(20.86)	229.01	758.70
			43.81	63.72	108.22		97.68		(20.86)		758.70	

IN SERVICE YEA	2001
PLANT COSTS	558
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	53,578	53,578	53,578
EQUITY AFUDC	5,314		
DEBT AFUDC	3,586	3,586	
CPI			8,033
TOTAL	62,479	57,164	61,611

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* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME MI01R - CI Load Control

PSC FORM CE 1.2
PAGE 1 OF 1

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	AVOIDED MARGINAL FUEL COST (CAWh)	INCREASED MARGINAL FUEL COST (CAWh)	REPLACEMENT FUEL COST (CAWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.62	1.89	0.00	1.00	1.00
1995	0	0	0.00	4.89	1.92	0.00	1.00	1.00
1996	0	0	0.00	5.06	1.92	0.00	1.00	1.00
1997	15,800	15,800	0.00	5.82	2.03	0.00	1.00	1.00
1998	31,700	31,700	0.00	6.01	2.04	0.00	1.00	1.00
1999	47,600	47,600	0.00	7.19	2.19	0.00	1.00	1.00
2000	63,500	63,500	0.00	7.25	2.43	0.00	1.00	1.00
2001	63,500	63,500	0.00	7.78	2.52	5.01	1.00	1.00
2002	63,500	63,500	0.00	8.29	2.59	5.43	1.00	1.00
2003	63,500	63,500	0.00	8.13	2.77	5.37	1.00	1.00
2004	63,500	63,500	0.00	9.88	2.84	5.95	1.00	1.00
2005	63,500	63,500	0.00	10.69	3.14	5.89	1.00	1.00
2006	63,500	63,500	0.00	11.33	3.30	6.32	1.00	1.00
2007	63,500	63,500	0.00	13.95	2.57	6.65	1.00	1.00
2008	63,500	63,500	0.00	13.29	3.01	7.04	1.00	1.00
2009	63,500	63,500	0.00	13.21	3.02	7.57	1.00	1.00
2010	63,500	63,500	0.00	14.48	4.18	8.37	1.00	1.00
2011	63,500	63,500	0.00	15.29	4.14	8.53	1.00	1.00
2012	63,500	63,500	0.00	15.93	4.53	9.08	1.00	1.00
2013	63,500	63,500	0.00	16.92	4.82	9.57	1.00	1.00
2014	63,500	63,500	0.00	17.89	4.88	10.14	1.00	1.00
2015	63,500	63,500	0.00	18.77	5.18	10.61	1.00	1.00
2016	63,500	63,500	0.00	19.82	5.39	11.12	1.00	1.00
2017	63,500	63,500	0.00	20.88	5.66	11.73	1.00	1.00
2018	63,500	63,500	0.00	20.86	5.95	12.38	1.00	1.00
2019	63,500	63,500	0.00	22.02	6.25	13.08	1.00	1.00
2020	63,500	63,500	0.00	23.24	6.57	13.77	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

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AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: M101R - CI Load Control

01/30/95

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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)
1994						
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	12,670	0	0	0	0	0
2003	12,272	2,270	0	0	0	0
2004	11,822	2,374	0	0	0	0
2005	11,380	2,482	89	0	0	0
2006	10,978	2,592	97	12,231	0	0
2007	10,577	2,709	102	13,884	18,009	8,580
2008	10,193	2,830	108	15,200	21,052	7,525
2009	9,823	2,970	108	16,020	21,067	7,339
2010	9,460	3,115	97	16,807	23,529	7,181
2011	9,098	3,271	89	15,270	21,776	6,921
2012	8,737	3,430	80	13,703	20,518	6,270
2013	8,376	3,617	83	13,189	18,284	6,779
2014	8,014	3,803	89	14,829	17,248	6,857
2015	7,653	4,016	88	15,847	19,809	6,040
2016	7,291	4,223	87	11,718	21,808	6,670
2017	6,930	4,442	82	8,582	18,494	6,664
2018	6,568	4,673	72	8,755	12,567	6,215
2019	6,207	4,916	69	10,667	12,822	6,915
2020	5,848	5,172	70	12,500	14,193	6,403
	5,484	5,441	73	11,825	16,340	7,900
		5,724	79	12,039	15,716	7,800
			83	12,477	15,906	7,828
				13,472	16,846	7,283
				14,113	18,082	6,745
					19,064	6,340
NOM	178,398	74,064	1,640	265,366	360,409	160,069
NPV	53,028	17,033	462	72,809	100,145	42,998

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: M101R - CI Load Control

01/30/95

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PAGE 1 OF 1

(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)	(9)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	49	7
1998	0	0	0	0	0	0	156	21
1999	0	0	0	0	0	0	311	39
2000	0	0	0	0	0	0	438	59
2001	0	0	0	0	0	0	539	70
2002	0	0	0	0	0	0	573	72
2003	0	0	0	0	0	0	631	77
2004	0	0	0	0	0	0	663	79
2005	0	0	0	0	0	0	739	87
2006	0	0	0	0	0	0	783	91
2007	0	0	0	0	0	0	836	99
2008	0	0	0	0	0	0	919	105
2009	0	0	0	0	0	0	913	108
2010	0	0	0	0	0	0	1,000	116
2011	0	0	0	0	0	0	1,056	114
2012	0	0	0	0	0	0	1,101	125
2013	0	0	0	0	0	0	1,109	128
2014	0	0	0	0	0	0	1,236	135
2015	0	0	0	0	0	0	1,297	143
2016	0	0	0	0	0	0	1,370	149
2017	0	0	0	0	0	0	1,442	157
2018	0	0	0	0	0	0	1,442	164
2019	0	0	0	0	0	0	1,521	173
2020	0	0	0	0	0	0	1,606	182
NOM.	0	0	0	0	0	0	21,907	2,487
NPV	0	0	0	0	0	0	5,332	623

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME MI01R - CI Load Control

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	31	59	0	91	0	0	41	0	41	(49)	(30)
1998	0	84	41	0	125	0	0	134	0	134	10	(21)
1999	0	99	63	0	162	0	0	273	0	273	111	40
2000	0	136	66	0	202	0	0	380	0	380	177	145
2001	0	140	9	0	149	8,580	0	488	0	9,028	8,878	4,933
2002	0	145	10	0	155	7,525	0	501	0	8,026	7,871	8,819
2003	0	150	10	0	160	8,539	0	555	0	8,094	8,934	12,857
2004	0	158	10	0	168	7,161	0	604	0	7,765	7,819	16,011
2005	0	161	11	0	172	8,521	0	632	0	9,172	9,000	18,421
2006	0	168	11	0	179	8,370	0	692	0	8,962	8,783	22,466
2007	0	179	12	0	188	8,779	0	827	0	9,618	9,428	26,493
2008	0	185	12	0	197	8,957	0	913	0	9,770	9,573	29,247
2009	0	194	13	0	207	8,040	0	804	0	8,845	8,638	30,547
2010	0	204	14	0	217	8,670	0	885	0	7,555	7,337	32,336
2011	0	214	14	0	229	8,654	0	942	0	8,596	8,367	34,426
2012	0	228	15	0	241	9,215	0	976	0	10,191	9,950	36,459
2013	0	238	16	0	254	8,915	0	1,042	0	9,957	9,703	38,275
2014	0	250	17	0	267	8,403	0	1,101	0	9,504	9,237	39,857
2015	0	263	18	0	281	7,898	0	1,153	0	9,120	8,839	41,243
2016	0	277	19	0	296	7,680	0	1,221	0	9,100	8,805	42,507
2017	0	291	20	0	311	7,628	0	1,285	0	8,913	8,602	43,638
2018	0	306	21	0	327	7,283	0	1,277	0	8,560	8,233	44,629
2019	0	322	22	0	344	8,745	0	1,348	0	8,094	7,750	45,483
2020	0	339	23	0	362	8,340	0	1,424	0	7,764	7,402	46,230
												#VALUE!
												#VALUE!
												#VALUE!
NOM	0	4,725	548	0	5,281	160,099	0	19,409	0	179,478	174,197	
NPV	0	1,230	236	0	1,466	42,806	0	4,710	0	47,696	46,230	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 32.54

0490

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: MI01R - CI Load Control

01/20/95

PSC FORM CE 2.4
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	15	0	696	0	710	58	1	0	83	661	600
1998	46	0	2,087	0	2,133	58	3	0	61	2,071	1,456
1999	80	0	3,478	0	3,558	58	5	0	63	3,495	2,248
2000	119	0	4,809	0	4,809	58	6	0	68	4,923	2,900
2001	145	0	5,565	0	5,710	0	9	0	9	5,701	3,074
2002	150	0	5,565	0	5,715	0	10	0	10	5,705	2,817
2003	161	0	5,565	0	5,726	0	10	0	10	5,716	2,584
2004	167	0	5,565	0	5,732	0	10	0	10	5,722	2,368
2005	171	0	5,565	0	5,739	0	11	0	11	5,725	2,169
2006	173	0	5,565	0	5,738	0	11	0	11	5,727	1,987
2007	185	0	5,565	0	5,750	0	12	0	12	5,739	1,823
2008	191	0	5,565	0	5,756	0	12	0	12	5,744	1,670
2009	196	0	5,565	0	5,761	0	13	0	13	5,748	1,530
2010	200	0	5,565	0	5,765	0	14	0	14	5,751	1,402
2011	205	0	5,565	0	5,770	0	14	0	14	5,756	1,285
2012	222	0	5,565	0	5,787	0	15	0	15	5,772	1,180
2013	242	0	5,565	0	5,807	0	16	0	16	5,791	1,083
2014	251	0	5,565	0	5,816	0	17	0	17	5,799	993
2015	257	0	5,565	0	5,822	0	18	0	18	5,804	910
2016	276	0	5,565	0	5,841	0	19	0	19	5,822	836
2017	284	0	5,565	0	5,849	0	20	0	20	5,829	766
2018	302	0	5,565	0	5,867	0	21	0	21	5,846	704
2019	310	0	5,565	0	5,875	0	22	0	22	5,853	645
2020	319	0	5,565	0	5,885	0	23	0	23	5,862	591
NOM	4,667	0	122,433	0	127,100	233	313	0	546	126,553	
NPV	1,199	0	36,580	0	37,756	157	79	0	236	37,523	

In Service of Gen Unit: 2001

Discount Rate : 9.22

Benefit/Cost Ratio [Col(6) / Col(10)] 158.82

0491

01/30/95

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: M01R - CI Load Control

PSC FORM CE 2.8
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	31	609	11	0	728	41	0	0	0	41	(690)	(534)
1998	0	64	2,067	34	0	2,184	134	0	0	0	134	(2,050)	(1,440)
1999	0	89	3,478	59	0	3,639	273	0	0	0	273	(3,363)	(2,184)
2000	0	136	4,800	88	0	5,084	380	0	0	0	380	(4,715)	(2,777)
2001	0	140	5,565	107	0	5,813	8,028	0	0	0	8,028	3,215	1,734
2002	0	145	5,565	111	0	[illegible]32	8,028	0	0	0	8,028	2,204	1,088
2003	0	150	5,565	119	0	5,835	9,094	0	0	0	9,094	3,259	1,473
2004	0	158	5,565	124	0	5,844	7,785	0	0	0	7,785	1,941	803
2005	0	161	5,565	126	0	5,853	9,172	0	0	0	9,172	3,320	1,258
2006	0	168	5,565	129	0	5,881	8,982	0	0	0	8,982	3,101	1,078
2007	0	176	5,565	137	0	5,879	9,616	0	0	0	9,616	3,737	1,187
2008	0	185	5,565	142	0	5,891	9,770	0	0	0	9,770	3,879	1,128
2009	0	194	5,565	145	0	5,904	8,845	0	0	0	8,845	2,941	783
2010	0	204	5,565	148	0	5,917	7,555	0	0	0	7,555	1,638	399
2011	0	214	5,565	152	0	5,931	9,598	0	0	0	9,598	3,666	818
2012	0	226	5,565	164	0	5,955	10,191	0	0	0	10,191	4,235	866
2013	0	238	5,565	179	0	5,981	9,957	0	0	0	9,957	3,975	744
2014	0	250	5,565	185	0	6,001	9,504	0	0	0	9,504	3,503	600
2015	0	263	5,565	190	0	6,018	9,120	0	0	0	9,120	3,101	486
2016	0	277	5,565	204	0	6,046	9,100	0	0	0	9,100	3,054	439
2017	0	291	5,565	210	0	6,066	8,913	0	0	0	8,913	2,848	374
2018	0	308	5,565	223	0	6,095	8,580	0	0	0	8,580	2,485	297
2019	0	322	5,565	229	0	6,117	8,094	0	0	0	8,094	1,977	218
2020	0	339	5,565	236	0	6,141	7,764	0	0	0	7,764	1,623	164
NOM.	0	4,735	122,433	3,453	0	130,621	179,478	0	0	0	179,478	48,857	
NPV	0	1,230	36,560	867	0	38,677	47,696	0	0	0	47,696	9,019	

Discount Rate: 9.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.23

0492

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: COMMERCIAL/INDUSTRIAL LOAD CONTROL (1997 - 2000)

III. UTILITY & CUSTOMER COSTS (1995$ PER CUSTOMER; 1 kw @ GENERATOR)

GSLD RATE CLASS	CILC	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$0.1268	Excludes capital costs.
(2) UTILITY RECURRING COST PER CUSTOMER	$1.5290	
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$3.4000	
(6) CUSTOMER O&M COST	$0.1034	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0.0000	
(13) UTILITY RECURRING REBATE/INCENTIVE	$81.2000	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	1.58	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 % *	
(3) DEMAND CHARGE IN CUSTOMER BILL	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0 % *	

* Values apply to first year only.

0493

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COMMERCIAL/INDUSTRAL BUILDING ENVELOPE

NPV END 1994 ($000)

	RIM			PART			TRC		
	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO	BENEFITS	COSTS	RATIO
1995-1996	37,837	27,916	1.36	33,450	25,206	1.33	37,837	26,200	1.44
1997-2000	83,118	64,856	1.28	78,312	59,988	1.31	83,118	62,357	1.33
2001-2003	13,654	9,970	1.37	12,108	9,504	1.27	13,654	9,882	1.38
1995-2003	134,609	102,742	1.31	123,870	94,698	1.31	134,609	98,439	1.37

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Becom80s - Comm. Bldg. Envelope

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.87	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.18	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	1,588.1	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0023	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	25	YEARS
(4) K FACTOR FOR GENERATION	1.04057	
(5) K FACTOR FOR T & D	1.06867	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

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 12

(1496)

* INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Beocm95x - Comm. Bldg. Envelope

YEAR	*(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES $(000)	*(2) UTILITY INCENTIVES $(000)	*(3) OTHER UTILITY COSTS $(000)	*(4) TOTAL UTILITY PROGRAM COSTS $(000)	*(5) ENERGY CHARGE REVENUE LOSSES $(000)	*(6) DEMAND CHARGE REVENUE LOSSES $(000)	*(7) PARTICIPANT EQUIPMENT COSTS $(000)	*(8) PARTICIPANT O&M COSTS $(000)	*(9) OTHER PARTICIPANT COSTS $(000)	*(10) TOTAL PARTICIPANT COSTS $(000)
1994	0	0	0	0	0	0	0	0	0	0
1995	301	3,662	0	3,963	355	44	7,937	0	0	7,937
1996	351	4,142	0	4,492	1,140	133	9,237	0	0	9,237
1997	0	0	0	0	1,567	177	0	0	0	0
1998	0	0	0	0	1,584	179	0	0	0	0
1999	0	0	0	0	1,628	181	0	0	0	0
2000	0	0	0	0	1,672	184	0	0	0	0
2001	0	0	0	0	1,743	191	0	0	0	0
2002	0	0	0	0	1,820	200	0	0	0	0
2003	0	0	0	0	1,922	210	0	0	0	0
2004	0	0	0	0	1,984	216	0	0	0	4,679
2005	226	423	0	649	2,066	227	4,679	0	0	5,522
2006	266	477	0	743	2,161	240	5,522	0	0	0
2007	0	0	0	0	2,277	251	0	0	0	0
2008	0	0	0	0	2,366	262	0	0	0	0
2009	0	0	0	0	2,489	278	0	0	0	0
2010	0	0	0	0	2,579	286	0	0	0	0
2011	0	0	0	0	2,732	310	0	0	0	0
2012	0	0	0	0	2,848	319	0	0	0	0
2013	0	0	0	0	3,017	335	0	0	0	0
2014	0	0	0	0	3,191	357	0	0	0	19,802
2015	758	3,662	0	4,438	3,285	368	19,802	0	0	23,564
2016	894	4,142	0	5,036	3,484	386	23,564	0	0	
NOM	2,793	16,548	0	19,341	47,804	5,334	70,881	0	0	70,881
NPV	894	8,341	0	9,235	16,716	1,864	25,208	0	0	25,208

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: Becombsix - Comm. Bldg. Envelope

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	8,782	386	67	505	351	140	290	21	1,759	1,759	1,759
1998	8,393	369	64	483	221	140	290	136	1,704	1,560	3,320
1999	7,976	351	61	459	222	140	290	118	1,641	1,376	4,696
2000	7,576	333	58	436	222	140	290	101	1,581	1,214	5,909
2001	7,192	316	55	414	222	140	290	86	1,524	1,071	6,980
2002	6,823	300	52	393	221	140	290	72	1,468	945	7,924
2003	6,467	285	46	373	220	140	290	59	1,415	833	8,758
2004	6,124	269	47	353	218	140	290	46	1,363	735	9,493
2005	5,799	255	44	333	206	140	290	44	1,313	648	10,141
2006	5,454	240	41	314	192	140	290	44	1,263	571	10,712
2007	5,119	225	39	295	179	140	290	44	1,213	502	11,214
2008	4,785	211	36	276	165	140	290	44	1,162	440	11,655
2009	4,450	196	34	256	151	140	290	44	1,112	386	12,040
2010	4,115	181	31	237	138	140	290	44	1,062	337	12,378
2011	3,781	166	29	218	124	140	290	44	1,012	294	12,672
2012	3,446	152	26	198	110	140	290	44	961	256	12,928
2013	3,111	137	24	179	96	140	290	44	911	222	13,150
2014	2,777	122	21	160	83	140	290	44	861	192	13,342
2015	2,442	107	19	141	69	140	290	40	811	168	13,508
2016	2,107	93	16	121	55	140	290	44	760	142	13,650
2017	1,809	80	14	104	117	140	290	(29)	716	123	13,773
2018	1,586	70	12	91	182	140	290	(104)	682	107	13,880
2019	1,399	62	11	81	174	140	290	(104)	654	94	13,973
2020	1,212	53	9	70	167	140	290	(104)	626	82	14,056
2021	1,026	45	8	59	159	140	290	(104)	598	72	14,128
2022	839	37	6	48	152	140	290	(104)	570	63	14,191
2023	653	29	5	38	144	140	290	(104)	542	55	14,245
2024	466	21	4	27	136	140	290	(104)	514	47	14,293
2025	280	12	2	16	129	140	290	(104)	486	41	14,334
2026	93	4	1	5	121	140	290	(104)	458	35	14,369

IN SERVICE COST($000)	8,711
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3763
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.64957

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: Becom05a - Comm. Bldg. Envelope

PSC FORM CE 1.1A
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	323	323	290	290	269	269	21	636	0	0	0	21
1998	7.22%	622	944	290	581	269	538	136	636	0	0	0	136
1999	6.68%	575	1,520	290	871	269	807	118	636	0	0	0	118
2000	6.18%	532	2,052	290	1,161	269	1,077	101	636	0	0	0	101
2001	5.71%	492	2,543	290	1,452	269	1,346	86	636	0	0	0	86
2002	5.28%	455	2,998	290	1,742	269	1,615	72	636	0	0	0	72
2003	4.89%	421	3,419	290	2,033	269	1,884	59	636	0	0	0	59
2004	4.52%	389	3,808	290	2,323	269	2,153	46	636	0	0	0	46
2005	4.46%	384	4,192	290	2,613	269	2,422	44	636	0	0	0	44
2006	4.46%	384	4,576	290	2,904	269	2,692	44	636	0	0	0	44
2007	4.46%	384	4,960	290	3,194	269	2,961	44	636	0	0	0	44
2008	4.46%	384	5,344	290	3,484	269	3,230	44	636	0	0	0	44
2009	4.46%	384	5,728	290	3,775	269	3,499	44	636	0	0	0	44
2010	4.46%	384	6,112	290	4,065	269	3,768	44	636	0	0	0	44
2011	4.46%	384	6,496	290	4,355	269	4,037	44	636	0	0	0	44
2012	4.46%	384	6,880	290	4,646	269	4,306	44	636	0	0	0	44
2013	4.46%	384	7,264	290	4,936	269	4,575	44	636	0	0	0	44
2014	4.46%	384	7,648	290	5,227	269	4,845	44	636	0	0	0	44
2015	4.46%	384	8,032	290	5,517	269	5,114	44	636	0	0	0	44
2016	4.46%	384	8,416	290	5,807	269	5,383	44	636	0	0	0	44
2017	2.25%	194	8,609	290	6,098	269	5,652	(20)	636	0	0	0	(20)
2018	0.00%	0	8,609	290	6,388	269	5,921	(104)	636	0	0	0	(104)
2019	0.00%	0	8,609	290	6,678	269	6,191	(104)	636	0	0	0	(104)
2020	0.00%	0	8,609	290	6,969	269	6,460	(104)	636	0	0	0	(104)
2021	0.00%	0	8,609	290	7,259	269	6,729	(104)	636	0	0	0	(104)
2022	0.00%	0	8,609	290	7,549	269	6,998	(104)	636	0	0	0	(104)
2023	0.00%	0	8,609	290	7,840	269	7,267	(104)	636	0	0	0	(104)
2024	0.00%	0	8,609	290	8,130	269	7,536	(104)	636	0	0	0	(104)
2025	0.00%	0	8,609	290	8,421	269	7,805	(104)	636	0	0	0	(104)
2026	0.00%	0	8,609	290	8,711	269	8,075	(104)	636	0	0	0	(104)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(206)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	636
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

(1499)

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME Secom65x - Comm. Bldg. Envelope

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) DEFERRED TAX $(000)	(5) END OF YEAR NET PLANT IN SERVICE $(000)	(5a)* ACCUMULATED DEPRECIATION $(000)	(5b)* ACCUMULATED DEF TAXES $(000)	(6) BEGINNING YEAR RATE BASE $(000)	(7) ENDING OF YEAR RATE BASE $(000)	(8) MID-YEAR RATE BASE $(000)
1997	3.75%	323	21	8,421	290	(138)	8,017	8,606	8,762
1998	7.22%	622	136	8,130	561	(52)	8,606	8,160	8,302
1999	6.68%	575	118	7,840	871	66	8,160	7,771	7,976
2000	6.18%	532	101	7,549	1,161	170	7,771	7,380	7,578
2001	5.71%	492	88	7,259	1,452	258	7,380	7,003	7,192
2002	5.28%	455	72	6,969	1,742	327	7,003	6,842	6,923
2003	4.89%	421	59	6,678	2,033	398	6,842	6,293	6,467
2004	4.52%	389	48	6,388	2,323	432	6,293	5,956	6,124
2005	4.46%	384	44	6,098	2,613	478	5,956	5,821	5,789
2006	4.46%	384	44	5,807	2,904	521	5,821	5,397	5,454
2007	4.46%	384	44	5,517	3,194	565	5,397	4,952	5,119
2008	4.46%	384	44	5,227	3,484	609	4,952	4,617	4,785
2009	4.46%	384	44	4,936	3,775	653	4,617	4,283	4,450
2010	4.46%	384	44	4,646	4,065	698	4,283	3,948	4,116
2011	4.46%	384	44	4,355	4,355	742	3,948	3,613	3,781
2012	4.46%	384	44	4,065	4,646	786	3,613	3,279	3,446
2013	4.46%	384	44	3,775	4,936	831	3,279	2,944	3,111
2014	4.46%	384	44	3,484	5,227	875	2,944	2,609	2,777
2015	4.46%	384	44	3,194	5,517	919	2,609	2,275	2,442
2016	4.46%	384	44	2,904	5,807	964	2,275	1,940	2,107
2017	2.25%	194	44	2,613	6,098	934	1,940	1,679	1,809
2018	0.00%	0	(20)	2,323	6,388	831	1,679	1,402	1,586
2019	0.00%	0	(104)	2,033	6,678	727	1,402	1,306	1,309
2020	0.00%	0	(104)	1,742	6,969	623	1,306	1,118	1,212
2021	0.00%	0	(104)	1,452	7,259	519	1,118	933	1,026
2022	0.00%	0	(104)	1,161	7,549	415	933	746	839
2023	0.00%	0	(104)	871	7,840	311	746	560	653
2024	0.00%	0	(104)	581	8,130	208	560	373	466
2025	0.00%	0	(104)	290	8,421	104	373	187	280
2026	0.00%	0	(104)	0	8,711	0	187	0	93

* Column not specified in workbook

0500

(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)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.60%	1.026	44.55%	179.18	144.12
1996	-1	2.63%	1.053	41.54%	171.47	319.45
				100.00%	405.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) NOREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-3	27.27	1.20	1.20	2.88	2.88	2.73	2.73	(0.58)	(0.58)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	19.11	14.88	17.41	(3.16)	(3.75)	195.31	252.82
1996	-1	336.55	15.06	22.76	37.39	56.48	33.69	51.10	(7.18)	(10.93)	208.85	461.67
			22.76	31.66	56.48		51.10		(10.93)		461.67	

IN SERVICE YEA	1997
PLANT COSTS	392
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	7,645	7,645	7,645
EQUITY AFUDC	636		
DEBT AFUDC	429	429	
CPI			964
TOTAL	8,711	8,075	8,609

0504

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME Becom6Sx - Comm. Bldg. Envelope

FSC FORM CE 1.2
PAGE 1 OF *

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTUMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	(5) AVOIDED MARGINAL FUEL COST (CAWh)	(6)* INCREASED MARGINAL FUEL COST (CAWh)	(7) REPLACEMENT FUEL COST (CAWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.18	1.89	0.00	1.00	1.00
1995	7,635	7,635	0.00	3.56	1.92	0.00	1.00	1.00
1996	16,218	16,218	0.00	3.76	1.92	0.00	1.00	1.00
1997	16,218	16,218	0.00	4.23	2.03	4.28	1.00	1.00
1998	16,218	16,218	0.00	4.47	2.04	4.25	1.00	1.00
1999	16,218	16,218	0.00	5.33	2.19	7.85	1.00	1.00
2000	16,218	16,218	0.00	5.13	2.43	8.21	1.00	1.00
2001	16,218	16,218	0.00	5.82	2.52	8.42	1.00	1.00
2002	16,218	16,218	0.00	5.83	2.58	8.95	1.00	1.00
2003	16,218	16,218	0.00	6.57	2.77	9.28	1.00	1.00
2004	16,218	16,218	0.00	7.18	2.84	9.80	1.00	1.00
2005	16,218	16,218	0.00	7.48	3.14	9.82	1.00	1.00
2006	16,218	16,218	0.00	7.90	3.30	9.52	1.00	1.00
2007	16,218	16,218	0.00	8.54	3.57	9.70	1.00	1.00
2008	16,218	16,218	0.00	9.20	3.81	10.06	1.00	1.00
2009	16,218	16,218	0.00	9.21	3.92	10.57	1.00	1.00
2010	16,218	16,218	0.00	10.30	4.16	10.86	1.00	1.00
2011	16,218	16,218	0.00	10.63	4.14	11.45	1.00	1.00
2012	16,218	16,218	0.00	11.08	4.53	12.84	1.00	1.00
2013	16,218	16,218	0.00	11.95	4.62	13.05	1.00	1.00
2014	16,218	16,218	0.00	12.67	4.88	13.71	1.00	1.00
2015	16,218	16,218	0.00	13.22	5.18	14.19	1.00	1.00
2016	16,218	16,218	0.00	14.08	5.39	15.01	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.

0502

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME Beacon85s - Comm. Bldg. Envelope

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	1,758	496	0.026	8	9	2,254
1998	1,704	517	0.029	9	10	2,220
1999	1,641	540	0.161	50	95	2,137
2000	1,581	565	0.012	4	7	2,143
2001	1,524	592	0.019	6	11	2,111
2002	1,466	619	0.020	7	12	2,083
2003	1,415	648	0.037	13	21	2,054
2004	1,363	678	0.063	24	36	2,027
2005	1,313	707	0.037	14	21	2,013
2006	1,263	740	0.033	13	17	1,998
2007	1,213	775	0.060	23	30	1,980
2008	1,162	812	0.060	24	30	1,969
2009	1,112	853	0.035	14	17	1,962
2010	1,062	897	0.142	58	69	1,948
2011	1,012	943	0.123	51	61	1,945
2012	961	993	0.102	67	84	1,939
2013	911	1,046	0.204	85	104	1,939
2014	861	1,101	0.206	86	104	1,944
2015	811	1,159	0.203	85	101	1,953
2016	760	1,219	0.248	103	124	1,959
NOM	24,897	15,806	1.881	744	963	40,577
NPV	10,478	5,226	0.522	195	271	15,629

0503

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Becom65s - Comm. Bldg. Envelope

PSC FORM CE 4.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	150	24	174	67	100	167	231	0
1996	319	53	372	143	221	363	758	0
1997	309	55	364	138	229	367	1,109	0
1998	299	57	356	134	239	372	1,225	0
1999	288	60	348	129	249	378	1,461	0
2000	278	63	341	125	261	385	1,407	0
2001	263	68	335	120	273	394	1,539	0
2002	280	69	329	116	286	402	1,824	0
2003	251	72	323	112	299	412	1,800	0
2004	243	75	318	109	312	421	1,868	0
2005	234	78	313	105	326	431	2,048	0
2006	229	82	308	101	342	443	2,166	0
2007	218	86	303	97	358	455	2,421	0
2008	208	90	299	94	375	469	2,520	0
2009	201	94	295	90	394	484	2,523	0
2010	192	99	292	88	414	500	2,821	0
2011	184	104	288	82	436	518	2,913	0
2012	175	110	285	78	459	537	3,034	0
2013	167	116	283	75	483	558	3,272	0
2014	159	122	281	71	509	580	3,471	0
2015	150	128	279	67	535	602	3,621	0
2016	143	135	278	64	563	627	3,857	0
NOM.	4,925	1,837	8,763	2,202	7,666	9,868	47,835	0
NPV	2,266	645	2,911	1,013	2,693	3,706	15,611	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 Becom65x - Comm. Bldg. Envelope

PSC FORM CE 2.3
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	301	7,937	0	8,238	0	341	231	0	572	(7,666)	(7,018)
1996	0	351	9,237	0	9,587	0	725	758	0	1,482	(8,095)	(13,804)
1997	0	0	0	0	0	2,254	732	1,159	0	4,145	4,145	(10,623)
1998	0	0	0	0	0	2,220	728	1,225	0	4,174	4,174	(7,890)
1999	0	0	0	0	0	2,137	727	1,461	0	4,324	4,324	(4,906)
2000	0	0	0	0	0	2,143	727	1,407	0	4,276	4,276	(2,389)
2001	0	0	0	0	0	2,111	728	1,539	0	4,378	4,378	(28)
2002	0	0	0	0	0	2,083	731	1,624	0	4,437	4,437	2,162
2003	0	0	0	0	0	2,054	735	1,800	0	4,589	4,589	4,237
2004	0	0	0	0	0	2,027	739	1,966	0	4,732	4,732	6,195
2005	0	226	4,679	0	4,905	2,013	744	2,048	0	4,805	(100)	6,157
2006	0	266	5,522	0	5,788	1,998	751	2,165	0	4,914	(874)	5,854
2007	0	0	0	0	0	1,980	759	2,421	0	5,160	5,160	7,493
2008	0	0	0	0	0	1,969	768	2,520	0	5,257	5,257	9,022
2009	0	0	0	0	0	1,962	779	2,523	0	5,264	5,264	10,423
2010	0	0	0	0	0	1,948	792	2,821	0	5,561	5,561	11,779
2011	0	0	0	0	0	1,945	806	2,913	0	5,664	5,664	13,043
2012	0	0	0	0	0	1,858	823	3,034	0	5,795	5,795	14,227
2013	0	0	0	0	0	1,939	841	3,272	0	6,052	6,052	15,350
2014	0	0	0	0	0	1,944	860	3,471	0	6,275	6,275	16,434
2015	0	756	19,922	0	20,677	1,953	881	3,821	0	6,458	(14,220)	14,204
2016	0	894	23,564	0	24,459	1,959	905	3,857	0	6,721	(17,738)	11,857
NOM	0	2,793	70,861	0	73,654	40,577	16,630	47,835	0	105,042	31,387	
NPV	0	994	25,206	0	26,200	15,629	6,817	15,611	0	37,857	11,657	

Discount Rate 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) 1.44

0505

PSC FORM CE 2.4
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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Becom95x : Comm. Bldg. Envelope

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	526	0	3,682	0	4,221	7,937	0	0	7,937	(3,716)	(2,402)
1996	1,721	0	4,142	0	5,862	8,237	0	0	8,237	(3,374)	(6,230)
1997	2,357	0	0	0	2,357	0	0	0	0	2,357	(4,421)
1998	2,395	0	0	0	2,395	0	0	0	0	2,395	(2,738)
1999	2,445	0	0	0	2,445	0	0	0	0	2,445	(1,166)
2000	2,508	0	0	0	2,508	0	0	0	0	2,508	312
2001	2,612	0	0	0	2,612	0	0	0	0	2,612	1,721
2002	2,720	0	0	0	2,720	0	0	0	0	2,720	3,089
2003	2,880	0	0	0	2,880	0	0	0	0	2,880	4,371
2004	2,974	0	0	0	2,974	4,979	0	4,979	9,957	(6,983)	(6,802)
2005	3,822	0	423	0	4,244	8,522	0	5,522	14,044	(9,800)	(5,153)
2006	3,721	0	477	0	4,198	0	0	0	0	4,198	(4,638)
2007	3,417	0	0	0	3,417	0	0	0	0	3,417	(3,623)
2008	3,555	0	0	0	3,555	0	0	0	0	3,555	(2,657)
2009	3,738	0	0	0	3,738	0	0	0	0	3,738	(1,652)
2010	3,876	0	0	0	3,876	0	0	0	0	3,876	(597)
2011	4,110	0	0	0	4,110	0	0	0	0	4,110	515
2012	4,280	0	0	0	4,280	0	0	0	0	4,280	1,369
2013	4,530	0	0	0	4,530	0	0	0	0	4,530	2,237
2014	4,795	0	0	0	4,795	0	0	0	0	4,795	3,056
2015	4,937	0	0	0	8,619	0	0	18,822	18,822	(11,303)	(14,221)
2016	5,202	0	0	0	9,344	0	0	22,564	22,564	(14,221)	(14,221)
NOM	71,944	0	88,492	70,861	0	0	0	70,861	17,631		
NPV	25,109	0	33,450	25,208	0	0	0	25,208	8,244		

In Service of Gen Unit: 1997

Discount Rate : 9.22

Benefit/Cost Ratio (Col(6) / Col(10)) 1.33

NOM	16,548	0
NPV	8,341	0

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: Beccm95x - Comm. Bldg. Envelope

PSC FORM CE 2.5
PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	301	3,862	309	0	4,362	231	341	0	0	572	(3,810)	(3,488)
1996	0	351	4,142	1,273	0	5,766	758	735	0	0	1,492	(4,273)	(7,070)
1997	0	0	0	1,744	0	1,744	3,413	732	0	0	4,145	2,401	(5,228)
1998	0	0	0	1,773	0	1,773	3,445	729	0	0	4,174	2,401	(3,541)
1999	0	0	0	1,809	0	1,809	3,598	727	0	0	4,324	2,515	(1,923)
2000	0	0	0	1,856	0	1,856	3,550	727	0	0	4,276	2,420	(497)
2001	0	0	0	1,933	0	1,933	3,650	728	0	0	4,378	2,445	821
2002	0	0	0	2,020	0	2,020	3,706	731	0	0	4,437	2,417	2,015
2003	0	0	0	2,132	0	2,132	3,854	735	0	0	4,589	2,457	3,126
2004	0	0	0	2,201	0	2,201	3,993	739	0	0	4,732	2,531	4,173
2005	0	226	423	2,293	0	2,942	4,061	744	0	0	4,805	1,863	4,879
2006	0	266	477	2,401	0	3,143	4,163	751	0	0	4,914	1,771	5,494
2007	0	0	0	2,528	0	2,528	4,401	759	0	0	5,160	2,631	6,329
2008	0	0	0	2,630	0	2,630	4,489	768	0	0	5,257	2,626	7,093
2009	0	0	0	2,706	0	2,706	4,484	779	0	0	5,264	2,497	7,758
2010	0	0	0	2,868	0	2,868	4,799	792	0	0	5,591	2,663	8,414
2011	0	0	0	3,042	0	3,042	4,858	806	0	0	5,664	2,622	9,000
2012	0	0	0	3,167	0	3,167	4,972	823	0	0	5,795	2,628	9,537
2013	0	0	0	3,352	0	3,352	5,211	841	0	0	6,052	2,700	10,042
2014	0	0	0	3,548	0	3,548	5,415	860	0	0	6,275	2,727	10,509
2015	0	758	3,862	3,853	0	8,091	5,575	881	0	0	6,456	(1,636)	10,252
2016	0	894	4,142	3,849	0	8,886	5,818	905	0	0	6,721	(2,165)	9,942
NOM.	0	2,793	16,548	53,236	0	72,580	88,412	16,830	0	0	105,042	32,462	
NPV	0	994	8,341	18,580	0	27,916	31,240	6,817	0	0	37,857	9,942	

Discount Rate	9.22
Benefit/Cost Ratio (Col(12) / Col(7))	1.36

0507

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: COMMERCIAL/INDUSTRIAL BUILDING ENVELOPE (1995 - 1996)

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-20	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	1.884	1.576	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	1.60 %	*

* Values apply to first year only.

6091

INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECOM01R - Comm. Bldg. Envelope

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.87	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.16	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	1,568.0	kWh
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	0.0	kWh

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.86890	
(5) K FACTOR FOR T & D	1.83867	

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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	6.34	%**

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 12

0520

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECOM01R - Comm. Bldg. Envelope

YEAR	*(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES $(000)	*(2) UTILITY INCENTIVES $(000)	*(3) OTHER UTILITY COSTS $(000)	*(4) TOTAL UTILITY PROGRAM COSTS $(000)	*(5) ENERGY CHARGE REVENUE LOSSES $(000)	*(6) DEMAND CHARGE REVENUE LOSSES $(000)	*(7) PARTICIPANT EQUIPMENT COSTS $(000)	*(8) PARTICIPANT O&M COSTS $(000)	*(9) OTHER PARTICIPANT COSTS $(000)	*(10) TOTAL PARTICIPANT COSTS $(000)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	418	4,730	0	5,145	473	57	10,930	0	0	10,930
1998	506	5,521	0	6,027	1,525	174	13,329	0	0	13,329
1999	529	5,521	0	6,050	2,708	304	13,926	0	0	13,926
2000	553	5,521	0	6,074	3,961	438	14,566	0	0	14,566
2001	0	0	0	0	4,744	513	0	0	0	0
2002	0	0	0	0	4,956	541	0	0	0	0
2003	0	0	0	0	5,232	568	0	0	0	0
2004	0	0	0	0	5,402	586	0	0	0	0
2005	0	0	0	0	5,625	614	0	0	0	0
2006	0	0	0	0	5,883	649	0	0	0	0
2007	318	543	0	862	6,199	681	8,596	0	0	8,596
2008	380	635	0	1,014	6,447	710	8,081	0	0	8,081
2009	409	635	0	1,044	6,775	752	8,485	0	0	8,485
2010	430	635	0	1,065	7,021	783	8,917	0	0	8,917
2011	0	0	0	0	7,436	839	0	0	0	0
2012	0	0	0	0	7,754	884	0	0	0	0
2013	0	0	0	0	8,213	908	0	0	0	0
2014	0	0	0	0	8,888	967	0	0	0	0
2015	0	0	0	0	8,943	998	0	0	0	0
2016	0	0	0	0	9,429	1,045	0	0	0	0
2017	1,075	4,730	0	5,805	9,827	1,108	28,261	0	0	28,261
2018	1,320	5,521	0	6,842	10,390	1,154	34,788	0	0	34,788
2019	1,389	5,521	0	6,910	10,729	1,190	36,595	0	0	36,595
2020	1,481	5,521	0	6,982	11,320	1,269	38,498	0	0	38,498
NOM	8,795	45,035	0	53,830	156,793	17,718	222,967	0	0	222,967
NPV	2,360	17,448	0	19,815	40,555	4,485	59,968	0	0	59,968

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: BECOM01R - Comm. Bldg. Envelope

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	39,364	1,732	299	2,267	1,584	628	1,300	97	7,907	7,907	7,907
2002	37,709	1,659	287	2,172	1,001	628	1,300	612	7,659	7,012	14,919
2003	35,837	1,577	272	2,064	1,005	628	1,300	532	7,378	6,184	21,104
2004	34,042	1,498	259	1,961	1,005	628	1,300	456	7,108	5,455	26,559
2005	32,320	1,422	246	1,862	1,005	628	1,300	388	6,850	4,813	31,372
2006	30,664	1,349	233	1,766	1,001	628	1,300	324	6,601	4,247	35,619
2007	29,068	1,279	221	1,674	993	628	1,300	267	6,361	3,747	39,365
2008	27,530	1,211	209	1,588	985	628	1,300	212	6,130	3,306	42,671
2009	26,023	1,145	198	1,499	932	628	1,300	203	5,904	2,915	45,587
2010	24,320	1,070	188	1,412	871	628	1,300	203	5,679	2,567	48,153
2011	23,018	1,013	175	1,328	809	628	1,300	203	5,453	2,257	50,410
2012	21,815	947	164	1,239	748	628	1,300	203	5,227	1,981	52,391
2013	20,613	881	152	1,153	688	628	1,300	203	5,002	1,735	54,126
2014	18,510	814	141	1,066	625	628	1,300	203	4,778	1,517	55,643
2015	17,008	748	129	980	563	628	1,300	203	4,551	1,323	56,967
2016	15,505	682	118	893	501	628	1,300	203	4,325	1,152	58,118
2017	14,003	616	106	807	440	628	1,300	203	4,099	999	59,118
2018	12,500	550	95	720	378	628	1,300	203	3,874	865	59,982
2019	10,997	484	84	633	317	628	1,300	203	3,648	745	60,728
2020	9,495	418	72	547	255	628	1,300	203	3,423	640	61,368
2021	8,156	359	62	470	328	628	1,300	(125)	3,222	552	61,920
2022	7,148	315	54	412	821	628	1,300	(459)	3,070	482	62,401
2023	6,307	278	48	363	766	628	1,300	(436)	2,944	423	62,824
2024	5,466	241	42	315	752	628	1,300	(459)	2,818	370	63,195
2025	4,625	204	35	268	718	628	1,300	(459)	2,691	324	63,518
2026	3,784	167	29	218	683	628	1,300	(459)	2,565	283	63,801
2027	2,943	130	22	170	649	628	1,300	(459)	2,439	246	64,047
2028	2,102	93	16	121	614	628	1,300	(459)	2,313	214	64,261
2029	1,261	56	10	73	580	628	1,300	(459)	2,186	185	64,446
2030	420	19	3	24	545	628	1,300	(459)	2,060	160	64,606

IN SERVICE COST ($000)	38.902
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3753
DISCOUNT RATE	9.72%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN SVC COST = 1.65690

0520

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME BECOM01R - Comm. Bldg. Envelope

PSC FORM CE 1.1A
PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	1,442	1,442	1,300	1,300	1,189	1,189	97	3,316	0	0	0	97
2002	7.22%	2,778	4,218	1,300	2,599	1,189	2,378	612	3,316	0	0	0	612
2003	6.68%	2,568	6,787	1,300	3,899	1,189	3,568	532	3,316	0	0	0	532
2004	6.18%	2,378	9,163	1,300	5,199	1,189	4,757	458	3,316	0	0	0	458
2005	5.71%	2,196	11,358	1,300	6,499	1,189	5,946	388	3,316	0	0	0	388
2006	5.29%	2,030	13,388	1,300	7,798	1,189	7,135	324	3,316	0	0	0	324
2007	4.89%	1,880	15,269	1,300	9,098	1,189	8,324	267	3,316	0	0	0	267
2008	4.52%	1,738	17,007	1,300	10,398	1,189	9,513	212	3,316	0	0	0	212
2009	4.46%	1,715	18,722	1,300	11,698	1,189	10,703	203	3,316	0	0	0	203
2010	4.46%	1,715	20,436	1,300	12,997	1,189	11,892	203	3,316	0	0	0	203
2011	4.46%	1,715	22,151	1,300	14,297	1,189	13,081	203	3,316	0	0	0	203
2012	4.46%	1,715	23,866	1,300	15,597	1,189	14,270	203	3,316	0	0	0	203
2013	4.46%	1,715	25,581	1,300	16,896	1,189	15,459	203	3,316	0	0	0	203
2014	4.46%	1,715	27,296	1,300	18,196	1,189	16,648	203	3,316	0	0	0	203
2015	4.46%	1,715	29,011	1,300	19,496	1,189	17,838	203	3,316	0	0	0	203
2016	4.46%	1,715	30,726	1,300	20,796	1,189	19,027	203	3,316	0	0	0	203
2017	4.46%	1,715	32,441	1,300	22,095	1,189	20,216	203	3,316	0	0	0	203
2018	4.46%	1,715	34,156	1,300	23,395	1,189	21,405	203	3,316	0	0	0	203
2019	4.46%	1,715	35,870	1,300	24,695	1,189	22,594	203	3,316	0	0	0	203
2020	4.46%	1,715	37,585	1,300	25,994	1,189	23,784	203	3,316	0	0	0	203
2021	2.25%	865	38,450	1,300	27,294	1,189	24,973	(125)	3,316	0	0	0	(125)
2022	0.00%	0	38,450	1,300	28,594	1,189	26,162	(456)	3,316	0	0	0	(456)
2023	0.00%	0	38,450	1,300	29,894	1,189	27,351	(456)	3,316	0	0	0	(456)
2024	0.00%	0	38,450	1,300	31,193	1,189	28,540	(456)	3,316	0	0	0	(456)
2025	0.00%	0	38,450	1,300	32,493	1,189	29,729	(456)	3,316	0	0	0	(456)
2026	0.00%	0	38,450	1,300	33,793	1,189	30,919	(456)	3,316	0	0	0	(456)
2027	0.00%	0	38,450	1,300	35,093	1,189	32,108	(456)	3,316	0	0	0	(456)
2028	0.00%	0	38,450	1,300	36,392	1,189	33,297	(456)	3,316	0	0	0	(456)
2029	0.00%	0	38,450	1,300	37,692	1,189	34,486	(456)	3,316	0	0	0	(456)
2030	0.00%	0	38,450	1,300	38,992	1,189	35,675	(456)	3,316	0	0	0	(456)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(1,071)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,316
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:BECOM01R - Comm. Bldg. Envelope

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
2001	3.75%	1,442	97	37,892	1,300	(972)	40,062	38,865	39,364
2002	7.22%	2,776	612	36,392	2,509	(361)	38,865	36,753	37,709
2003	6.68%	2,568	532	35,093	3,809	171	36,753	34,921	35,83
2004	6.18%	2,376	458	33,793	5,199	629	34,921	33,164	34,042
2005	5.71%	2,196	388	32,493	6,499	1,017	33,164	31,478	32,320
2006	5.28%	2,030	324	31,193	7,798	1,342	31,478	29,852	30,664
2007	4.89%	1,880	267	29,894	9,098	1,608	29,852	28,285	29,068
2008	4.52%	1,738	212	28,594	10,398	1,820	28,285	26,774	27,530
2009	4.46%	1,715	203	27,294	11,698	2,023	26,774	25,271	26,023
2010	4.46%	1,715	203	25,994	12,997	2,226	25,271	23,769	24,520
2011	4.46%	1,715	203	24,695	14,297	2,428	23,769	22,266	23,018
2012	4.46%	1,715	203	23,395	15,597	2,631	22,266	20,764	21,515
2013	4.46%	1,715	203	22,095	16,896	2,834	20,764	19,261	20,013
2014	4.46%	1,715	203	20,796	18,196	3,037	19,261	17,759	18,510
2015	4.46%	1,715	203	19,496	19,496	3,240	17,759	16,256	17,008
2016	4.46%	1,715	203	18,196	20,796	3,442	16,256	14,754	15,505
2017	4.46%	1,715	203	16,896	22,095	3,646	14,754	13,251	14,003
2018	4.46%	1,715	203	15,597	23,395	3,848	13,251	11,749	12,500
2019	4.46%	1,715	203	14,297	24,695	4,051	11,749	10,246	10,997
2020	4.46%	1,715	203	12,997	25,994	4,254	10,246	8,744	9,495
2021	2.25%	865	(125)	11,698	27,294	4,129	8,744	7,569	8,156
2022	0.00%	0	(459)	10,398	28,594	3,670	7,569	6,728	7,148
2023	0.00%	0	(459)	9,098	29,894	3,211	6,728	5,887	6,307
2024	0.00%	0	(459)	7,798	31,193	2,752	5,887	5,046	5,466
2025	0.00%	0	(459)	6,499	32,493	2,294	5,046	4,205	4,625
2026	0.00%	0	(459)	5,199	33,793	1,835	4,205	3,364	3,784
2027	0.00%	0	(459)	3,899	35,093	1,376	3,364	2,523	2,943
2028	0.00%	0	(459)	2,599	36,392	917	2,523	1,682	2,102
2029	0.00%	0	(459)	1,300	37,692	459	1,682	841	1,261
2030	0.00%	0	(459)	0	38,992	0	841	0	420

* Column not specified in workbook

0514

(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)
1994	-7	0.00%	1.000	0.00%	0.00	0.00
1995	-6	2.60%	1.026	0.00%	0.00	0.00
1996	-5	2.62%	1.053	0.84%	4.92	2.46
1997	-4	3.15%	1.086	1.86%	10.03	9.93
1998	-3	3.62%	1.126	13.00%	81.05	55.67
1999	-2	3.85%	1.169	80.50%	393.17	292.88
2000	-1	3.68%	1.214	24.00%	162.01	570.47
				100.00%	651.48	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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 ($/kW)	(10) NOREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-5	2.46	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1997	-4	10.20	0.45	0.56	1.12	1.39	1.02	1.26	(0.22)	(0.27)	11.14	16.33
1998	-3	57.01	2.52	3.08	6.25	7.64	5.09	6.95	(1.22)	(1.49)	87.61	103.94
1999	-2	300.52	13.29	16.37	32.98	40.62	26.84	33.78	(5.44)	(7.93)	426.15	530.09
2000	-1	611.70	27.24	43.61	67.60	108.22	60.74	97.88	(12.02)	(20.86)	229.61	759.70
			43.61	63.72	108.22		97.88		(20.86)		759.70	

IN SERVICE YEA	2001	
PLANT COSTS	556	
AFUDC RATE	10.92%	

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	33,437	33,437	33,437
EQUITY AFUDC	3,316		
DEBT AFUDC	2,238	2,238	
CPI			5,013
TOTAL	38,992	35,675	38,450

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* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME BECOMER - Comm. Bldg. Envelope

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYETEM FUEL COST (C/kWh)	(5) AVOIDED MARGINAL FUEL COST (C/kWh)	(6)* INCREASED MARGINAL FUEL COST (C/kWh)	(7) REPLACEMENT FUEL COST (C/kWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.16	1.89	0.00	1.00	1.00
1995	0	0	0.00	3.58	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.78	1.92	0.00	1.00	1.00
1997	9,787	9,787	0.00	4.23	2.03	0.00	1.00	1.00
1998	21,229	21,229	0.00	4.47	2.04	0.00	1.00	1.00
1999	32,672	32,672	0.00	5.33	2.19	0.00	1.00	1.00
2000	44,115	44,115	0.00	5.13	2.43	0.00	1.00	1.00
2001	44,115	44,115	0.00	5.62	2.52	5.01	1.00	1.00
2002	44,115	44,115	0.00	5.83	2.59	5.43	1.00	1.00
2003	44,115	44,115	0.00	6.57	2.77	5.37	1.00	1.00
2004	44,115	44,115	0.00	7.18	2.84	5.85	1.00	1.00
2005	44,115	44,115	0.00	7.48	3.14	5.89	1.00	1.00
2006	44,115	44,115	0.00	7.90	3.30	6.32	1.00	1.00
2007	44,115	44,115	0.00	8.84	3.57	6.85	1.00	1.00
2008	44,115	44,115	0.00	9.20	3.81	7.04	1.00	1.00
2009	44,115	44,115	0.00	9.21	3.92	7.57	1.00	1.00
2010	44,115	44,115	0.00	10.30	4.18	8.37	1.00	1.00
2011	44,115	44,115	0.00	10.83	4.14	8.53	1.00	1.00
2012	44,115	44,115	0.00	11.06	4.53	8.98	1.00	1.00
2013	44,115	44,115	0.00	11.95	4.82	9.57	1.00	1.00
2014	44,115	44,115	0.00	12.67	4.88	10.14	1.00	1.00
2015	44,115	44,115	0.00	13.22	5.18	10.51	1.00	1.00
2016	44,115	44,115	0.00	14.06	5.39	11.12	1.00	1.00
2017	44,115	44,115	0.00	14.86	5.66	11.73	1.00	1.00
2018	44,115	44,115	0.00	14.86	5.95	12.38	1.00	1.00
2019	44,115	44,115	0.00	15.77	6.25	13.06	1.00	1.00
2020	44,115	44,115	0.00	16.72	6.57	13.77	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.

0516

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME BECOM01R - Comm. Bldg. Envelope

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	7,907	1,416	55.596	7,633	11,870	5,342
2002	7,859	1,482	60.536	8,652	13,157	4,696
2003	7,378	1,550	63.942	8,486	13,148	5,329
2004	7,108	1,618	67.302	10,372	14,884	4,482
2005	6,850	1,691	65.748	10,302	13,590	5,319
2006	6,601	1,770	60.452	9,534	12,804	5,181
2007	6,361	1,853	53.505	8,808	11,398	5,478
2008	6,130	1,944	50.098	8,229	10,784	5,590
2009	5,904	2,041	55.819	9,255	12,238	5,018
2010	5,679	2,145	58.273	9,705	13,485	4,163
2011	5,453	2,257	43.098	7,311	8,663	5,401
2012	5,227	2,377	35.025	5,967	7,855	5,751
2013	5,002	2,503	35.542	6,088	8,064	5,564
2014	4,776	2,635	38.778	6,651	8,857	5,244
2015	4,551	2,772	46.231	7,801	10,197	4,972
2016	4,325	2,916	43.335	7,442	9,809	4,818
2017	4,099	3,068	43.903	7,513	9,964	4,760
2018	3,874	3,228	45.649	7,787	10,363	4,545
2019	3,648	3,396	48.484	8,408	11,291	4,209
2020	3,423	3,572	52.002	8,808	11,898	3,957
NOM	111,954	46,236	1023.217	185,612	224,827	90,897
NPV	33,094	10,830	288.462	45,314	62,500	26,827

0547

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECOM01R - Comm. Bldg. Envelope

PSC FORM CE 2.2
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(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	202	33	235	90	129	229	340	0
1998	440	75	515	197	313	510	1,171	0
1999	678	121	799	302	504	807	2,426	0
2000	917	171	1,087	410	712	1,122	3,328	0
2001	888	179	1,067	397	746	1,143	4,182	0
2002	857	187	1,044	383	780	1,164	4,413	0
2003	829	195	1,023	370	818	1,188	4,602	0
2004	800	204	1,004	358	852	1,210	5,344	0
2005	773	213	986	345	891	1,236	5,580	0
2006	747	223	970	334	932	1,266	5,887	0
2007	721	234	955	323	976	1,299	6,581	0
2008	696	245	942	311	1,024	1,335	6,851	0
2009	671	258	929	300	1,075	1,375	6,857	0
2010	648	271	917	289	1,130	1,419	7,809	0
2011	621	285	906	278	1,189	1,467	7,818	0
2012	596	300	896	267	1,252	1,519	8,248	0
2013	571	316	887	256	1,318	1,574	8,895	0
2014	546	333	879	244	1,388	1,632	9,435	0
2015	521	350	871	233	1,460	1,693	9,845	0
2016	496	369	865	222	1,536	1,758	10,406	0
2017	471	387	859	211	1,616	1,827	11,069	0
2018	448	408	855	200	1,700	1,900	11,069	0
2019	427	429	856	191	1,789	1,979	11,740	0
2020	409	451	860	183	1,882	2,065	12,452	0
NOM.	14,972	6,237	21,209	8,894	28,021	32,715	166,876	0
NPV	5,185	1,599	6,783	2,318	8,669	8,987	40,520	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 BECOM01R - Comm. Bldg. Envelope

PSC FORM CE 2.3
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	416	10,930	0	11,346	0	484	349	0	813	(10,533)	(8,082)
1998	0	506	13,326	0	13,832	0	1,025	1,171	0	2,196	(11,636)	(16,260)
1999	0	529	13,926	0	14,454	0	1,606	2,426	0	4,031	(10,423)	(22,965)
2000	0	553	14,566	0	15,119	0	2,209	3,328	0	5,537	(9,582)	(28,809)
2001	0	0	0	0	0	5,342	2,209	4,182	0	11,734	11,734	(22,261)
2002	0	0	0	0	0	4,896	2,208	4,413	0	11,317	11,317	(16,602)
2003	0	0	0	0	0	5,309	2,210	4,892	0	12,431	12,431	(11,074)
2004	0	0	0	0	0	4,462	2,214	5,344	0	12,039	12,039	(6,091)
2005	0	0	0	0	0	5,318	2,222	5,568	0	13,107	13,107	(1,124)
2006	0	0	0	0	0	5,161	2,237	5,887	0	13,284	13,284	3,485
2007	0	318	6,596	0	6,915	6,478	2,254	6,581	0	14,313	7,399	5,835
2008	0	390	8,081	0	8,470	5,990	2,277	6,851	0	14,718	6,247	7,851
2009	0	408	8,485	0	8,894	5,018	2,305	6,857	0	14,180	5,286	9,059
2010	0	430	8,917	0	9,347	4,163	2,336	7,669	0	14,168	4,821	10,234
2011	0	0	0	0	0	5,401	2,373	7,818	0	15,591	15,591	13,736
2012	0	0	0	0	0	5,751	2,415	8,248	0	16,414	16,414	17,090
2013	0	0	0	0	0	5,584	2,461	8,895	0	16,920	16,920	20,258
2014	0	0	0	0	0	5,244	2,512	9,435	0	17,191	17,191	23,301
2015	0	0	0	0	0	4,972	2,566	9,845	0	17,381	17,381	25,927
2016	0	0	0	0	0	4,918	2,623	10,486	0	18,027	18,027	28,515
2017	0	1,075	28,281	0	29,336	4,760	2,686	11,069	0	18,515	(10,821)	(1,423)
2018	0	1,320	34,786	0	36,107	4,545	2,756	11,069	0	18,370	(17,737)	(2,138)
2019	0	1,369	36,595	0	37,964	4,209	2,835	11,740	0	18,785	(19,180)	(2,118)
2020	0	1,481	36,498	0	38,859	3,957	2,825	12,452	0	19,233	(20,626)	(2,081)
NOM	0	8,795	222,967	0	231,762	99,887	53,024	166,679	0	320,407	88,735	
NPV	0	2,369	59,968	0	62,357	26,827	15,771	40,520	0	83,118	20,761	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.33

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECOM01R - Comm. Bldg. Envelope

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	416	4,730	530	0	5,675	349	464	0	0	813	(4,862)	(3,732)
1998	0	506	5,521	1,699	0	7,727	1,171	1,025	0	0	2,196	(5,531)	(7,616)
1999	0	529	5,521	3,011	0	9,061	2,428	1,606	0	0	4,031	(5,030)	(10,854)
2000	0	553	5,521	4,399	0	10,474	3,328	2,209	0	0	5,537	(4,937)	(13,712)
2001	0	0	0	5,260	0	5,260	9,525	2,209	0	0	11,734	6,474	(10,270)
2002	0	0	0	5,467	0	5,467	9,110	2,208	0	0	11,317	5,850	(7,304)
2003	0	0	0	5,800	0	5,800	10,222	2,210	0	0	12,431	6,631	(4,399)
2004	0	0	0	5,988	0	5,988	9,826	2,214	0	0	12,039	6,052	(1,894)
2005	0	0	0	6,240	0	6,240	10,885	2,222	0	0	13,107	6,868	706
2006	0	0	0	6,532	0	6,532	11,048	2,237	0	0	13,284	6,752	3,061
2007	0	0	0	6,880	0	7,741	12,059	2,254	0	0	14,313	6,572	5,139
2008	0	218	543	7,157	0	8,181	12,440	2,277	0	0	14,718	6,536	7,039
2009	0	380	635	7,527	0	8,571	11,875	2,305	0	0	14,180	5,609	8,533
2010	0	408	635	7,804	0	8,869	11,831	2,336	0	0	14,168	5,299	9,825
2011	0	430	635	8,276	0	9,276	13,318	2,373	0	0	15,691	7,415	11,480
2012	0	0	0	8,818	0	8,818	13,899	2,415	0	0	16,414	7,596	13,073
2013	0	0	0	9,121	0	9,121	14,459	2,461	0	0	16,920	7,800	14,532
2014	0	0	0	9,655	0	9,655	14,679	2,512	0	0	17,191	7,536	15,823
2015	0	0	0	9,940	0	9,940	14,816	2,585	0	0	17,401	7,461	16,960
2016	0	0	0	10,474	0	10,474	15,404	2,623	0	0	18,027	7,553	18,075
2017	0	1,075	4,730	11,036	0	16,840	15,830	2,688	0	0	18,515	1,675	220
2018	0	1,300	5,521	11,545	0	18,366	15,615	2,756	0	0	18,370	(16)	(2)
2019	0	1,389	5,521	11,935	0	18,845	15,950	2,835	0	0	18,785	(61)	(7)
2020	0	1,481	5,521	12,589	0	19,571	16,406	2,925	0	0	19,333	(238)	(24)
NOM	0	8,795	45,035	177,510	0	231,340	266,573	53,924	0	0	320,497	89,157	
NPV	0	2,369	17,446	45,040	0	64,856	67,347	15,771	0	0	83,118	18,262	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.26

0521

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: COMMERCIAL/INDUSTRIAL BUILDING ENVELOPE (1997 - 2000)

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM			
	SCD-18	SCD-19	SCD-22	SCD-23
GS RATE CLASS				
(1) UTILITY NON RECURRING COST PER CUSTOMER		$25		$25
(2) UTILITY RECURRING COST PER CUSTOMER		$0		$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)		$774		$444
(6) CUSTOMER O&M COST		$0		$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE		$595		$87
(13) UTILITY RECURRING REBATE/INCENTIVE		$0		$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE		0%		0%
GSD RATE CLASS				
(1) UTILITY NON RECURRING COST PER CUSTOMER	$150	$150	$150	$150
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$4,373	$5,370	$2,896	$2,928
(6) CUSTOMER O&M COST	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$153	$570	$71	$118
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%
GSLD RATE CLASS				
(1) UTILITY NON RECURRING COST PER CUSTOMER	$247	$247	$247	$247
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$41,581	$53,051	$28,411	$32,396
(6) CUSTOMER O&M COST	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$4,850	$9,650	$4,100	$5,100
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%

2250

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: COMMERCIAL/INDUSTRIAL BUILDING ENVELOPE (1997 - 2000)

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-20	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	1.88(	1.576	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	1.60 %	*

* Values apply to first year only.

* INPUT DATA -- PART I CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME BECOM04 - Bldg. Env. Commercial

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	211	2,001	0	2,212	723	26	5,521	0	0	5,521
2002	147	1,333	0	1,480	622	88	3,847	0	0	3,847
2003	77	667	0	744	903	97	2,013	0	0	2,013
2004	0	0	0	0	1,017	108	0	0	0	0
2005	0	0	0	0	1,060	113	0	0	0	0
2006	0	0	0	0	1,108	120	0	0	0	0
2007	0	0	0	0	1,158	126	0	0	0	0
2008	0	0	0	0	1,214	131	0	0	0	0
2009	0	0	0	0	1,278	139	0	0	0	0
2010	0	0	0	0	1,322	145	0	0	0	0
2011	188	231	0	307	1,401	155	3,434	0	0	3,434
2012	116	154	0	270	1,460	159	2,408	0	0	2,408
2013	61	77	0	139	1,547	167	1,271	0	0	1,271
2014	0	0	0	0	1,636	178	0	0	0	0
2015	0	0	0	0	1,684	184	0	0	0	0
2016	0	0	0	0	1,778	193	0	0	0	0
2017	0	0	0	0	1,870	204	0	0	0	0
2018	0	0	0	0	1,957	213	0	0	0	0
2019	0	0	0	0	2,033	221	0	0	0	0
2020	0	0	0	0	2,132	234	0	0	0	0
2021	559	2,001	0	2,560	2,249	249	14,648	0	0	14,648
2022	392	1,333	0	1,725	2,372	264	10,266	0	0	10,266
NOM	1,729	7,798	0	9,527	32,021	3,492	43,405	0	0	43,405
NPV	370	2,434	0	2,811	6,457	702	8,504	0	0	8,504

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME BECOM4 - Bldg. Env. Commercial

PSC FORM CE 1.1A
PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	8,286	366	63	477	323	132	274	21	1,884	1,884	1,884
2005	7,937	349	60	457	211	132	274	129	1,812	1,478	3,140
2006	7,543	332	57	434	212	132	274	112	1,653	1,302	4,442
2007	7,166	315	54	413	211	132	274	98	1,498	1,148	5,590
2008	6,802	299	52	392	211	132	274	82	1,442	1,013	6,603
2009	6,454	284	49	372	211	132	274	68	1,388	894	7,497
2010	6,118	269	46	352	211	132	274	58	1,339	789	8,286
2011	5,794	255	44	334	209	132	274	45	1,293	699	8,985
2012	5,477	241	42	316	207	132	274	43	1,243	614	9,601
2013	5,181	227	39	298	186	132	274	43	1,195	540	10,135
2014	4,848	213	37	281	183	132	274	43	1,148	475	10,610
2015	4,539	199	34	264	170	132	274	43	1,100	417	11,027
2016	4,212	185	32	247	167	132	274	43	1,053	366	11,392
2017	3,888	171	30	232	144	132	274	43	1,006	319	11,711
2018	3,580	158	27	214	131	132	274	43	956	279	11,990
2019	3,283	144	25	196	119	132	274	43	910	242	12,232
2020	2,947	130	22	178	108	132	274	43	863	210	12,443
2021	2,631	116	20	160	98	132	274	43	815	182	12,625
2022	2,316	102	18	142	88	132	274	43	768	157	12,781
2023	1,999	88	15	122	76	132	274	43	720	135	12,916
2024	1,717	76	13	105	65	132	274	(28)	678	116	13,032
2025	1,505	66	11	92	57	132	274	(97)	646	101	13,134
2026	1,328	58	10	81	50	132	274	(97)	620	89	13,223
2027	1,181	51	9	72	44	132	274	(97)	593	78	13,301
2028	974	43	7	59	36	132	274	(97)	566	68	13,369
2029	797	35	6	49	30	132	274	(97)	540	59	13,428
2030	620	27	5	38	23	132	274	(97)	513	52	13,480
2031	443	19	3	27	16	132	274	(97)	487	45	13,525
2032	266	12	2	16	10	132	274	(97)	460	39	13,564
2033	89	4	1	5	3	132	274	(97)	434	34	13,599

IN SERVICE COST ($000) 0
IN SERVICE YEAR 2004
BOOK LIFE (YRS) 30
EFFEC. TAX RATE 38.575
DISCOUNT RATE 9.22%
OTAX & INS RATE 1.81%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.60668

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:BECOM04 - Bldg. Env. Commercial

PSC FORM CE 1.1A
PAGE 2a OF 2 * (this page not contained in workbook)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2004	3.75%	303	303	274	274	250	250	21	606	0	0	0	21
2005	7.22%	584	888	274	547	250	501	129	606	0	0	0	129
2006	6.68%	541	1,428	274	821	250	751	112	606	0	0	0	112
2007	6.18%	500	1,929	274	1,094	250	1,001	96	606	0	0	0	96
2008	5.71%	462	2,391	274	1,368	250	1,251	82	606	0	0	0	82
2009	5.28%	427	2,818	274	1,641	250	1,502	68	606	0	0	0	68
2010	4.89%	396	3,214	274	1,915	250	1,752	56	606	0	0	0	56
2011	4.52%	366	3,579	274	2,188	250	2,002	45	606	0	0	0	45
2012	4.46%	361	3,940	274	2,462	250	2,253	43	606	0	0	0	43
2013	4.46%	361	4,301	274	2,736	250	2,503	43	606	0	0	0	43
2014	4.46%	361	4,662	274	3,009	250	2,753	43	606	0	0	0	43
2015	4.46%	361	5,023	274	3,283	250	3,004	43	606	0	0	0	43
2016	4.46%	361	5,384	274	3,556	250	3,254	43	606	0	0	0	43
2017	4.46%	361	5,745	274	3,830	250	3,504	43	606	0	0	0	43
2018	4.46%	361	6,106	274	4,103	250	3,754	43	606	0	0	0	43
2019	4.46%	361	6,467	274	4,377	250	4,005	43	606	0	0	0	43
2020	4.46%	361	6,828	274	4,650	250	4,255	43	606	0	0	0	43
2021	4.46%	361	7,189	274	4,924	250	4,505	43	606	0	0	0	43
2022	4.46%	361	7,550	274	5,198	250	4,756	43	606	0	0	0	43
2023	4.46%	361	7,911	274	5,471	250	5,006	43	606	0	0	0	43
2024	2.25%	182	8,093	274	5,745	250	5,256	(26)	606	0	0	0	(26)
2025	0.00%	0	8,093	274	6,018	250	5,507	(97)	606	0	0	0	(97)
2026	0.00%	0	8,093	274	6,292	250	5,757	(97)	606	0	0	0	(97)
2027	0.00%	0	8,093	274	6,565	250	6,007	(97)	606	0	0	0	(97)
2028	0.00%	0	8,093	274	6,839	250	6,257	(97)	606	0	0	0	(97)
2029	0.00%	0	8,093	274	7,112	250	6,508	(97)	606	0	0	0	(97)
2030	0.00%	0	8,093	274	7,386	250	6,758	(97)	606	0	0	0	(97)
2031	0.00%	0	8,093	274	7,659	250	7,008	(97)	606	0	0	0	(97)
2032	0.00%	0	8,093	274	7,933	250	7,259	(97)	606	0	0	0	(97)
2033	0.00%	0	8,093	274	8,207	250	7,509	(97)	606	0	0	0	(97)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(225)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	606
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

1527

(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($AW)	(7) CUMULATIVE AVERAGE SPENDING ($AW)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.50%	1.026	0.00%	0.00	0.00
1996	-8	2.63%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.62%	1.126	0.00%	0.00	0.00
1999	-5	3.85%	1.169	0.84%	5.46	2.73
2000	-4	3.89%	1.214	1.66%	11.21	11.06
2001	-3	3.93%	1.262	13.00%	91.21	62.27
2002	-2	3.88%	1.311	60.50%	440.92	326.33
2003	-1	3.66%	1.363	24.00%	181.82	638.70
				100.00%	730.61	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($AW)	(9a)* DEBT AFUDC ($AW)	(9b)* CUMULATIVE DEBT AFUDC ($AW)	(9) YEARLY TOTAL AFUDC ($AW)	(9a)* CUMULATIVE TOTAL AFUDC ($AW)	(9b)* CONSTRUCTION PERIOD INTEREST ($AW)	(9c)* CUMULATIVE CPI ($AW)	(9d)* DEFERRED TAXES ($AW)	(9e)* CUMULATIVE DEFERRED TAXES ($AW)	(10) INCREMENTAL YEAR-END BOOK VALUE ($AW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($AW)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.06)	(0.06)	5.76	5.76
2000	-4	11.36	0.50	0.62	1.25	1.55	1.13	1.41	(0.21)	(0.30)	12.45	18.21
2001	-3	63.81	2.82	3.44	7.00	8.55	6.37	7.77	(1.37)	(1.67)	68.21	116.42
2002	-2	336.88	14.90	18.34	36.97	45.52	33.81	41.38	(7.22)	(8.88)	477.89	594.31
2003	-1	685.21	30.54	48.88	75.80	121.31	68.11	109.49	(14.49)	(23.38)	357.61	851.92
			48.88	71.41	121.31		109.49		(23.38)		851.92	

IN SERVICE YEA	2004
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	7,038	7,038	7,038
EQUITY AFUDC	608		
DEBT AFUDC	471	471	
CPI			1,055
TOTAL	8,957	7,509	2,093

* Column not specified in workbook

INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME BECOM04 - Bldg. Env. Commercial

PSC FORM CE 1.2
PAGE 1 OF 1

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	AVOIDED MARGINAL FUEL COST (CAWh)	INCREASED MARGINAL FUEL COST (CAWh)	REPLACEMENT FUEL COST (CAWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.16	1.80	0.00	1.00	1.00
1995	0	0	0.00	3.58	1.92	0.00	1.00	1.00
1996	0	0	0.00	3.78	1.92	0.00	1.00	1.00
1997	0	0	0.00	4.23	2.03	0.00	1.00	1.00
1998	0	0	0.00	4.47	2.04	0.00	1.00	1.00
1999	0	0	0.00	5.33	2.19	0.00	1.00	1.00
2000	0	0	0.00	5.13	2.43	0.00	1.00	1.00
2001	4,141	4,141	0.00	5.62	2.52	0.00	1.00	1.00
2002	8,000	8,000	0.00	5.83	2.59	0.00	1.00	1.00
2003	8,280	8,280	0.00	6.57	2.77	0.00	1.00	1.00
2004	8,280	8,280	0.00	7.18	2.84	5.95	1.00	1.00
2005	8,280	8,280	0.00	7.48	3.14	6.89	1.00	1.00
2006	8,280	8,280	0.00	7.90	3.20	6.32	1.00	1.00
2007	8,280	8,280	0.00	8.84	3.57	6.65	1.00	1.00
2008	8,280	8,280	0.00	9.20	3.81	7.04	1.00	1.00
2009	8,280	8,280	0.00	9.21	3.82	7.57	1.00	1.00
2010	8,280	8,280	0.00	10.30	4.18	8.37	1.00	1.00
2011	8,280	8,280	0.00	10.63	4.14	8.53	1.00	1.00
2012	8,280	8,280	0.00	11.08	4.53	8.98	1.00	1.00
2013	8,280	8,280	0.00	11.06	4.62	0.57	1.00	1.00
2014	8,280	8,280	0.00	12.67	4.88	10.14	1.00	1.00
2015	8,280	8,280	0.00	13.22	5.18	10.51	1.00	1.00
2016	8,280	8,280	0.00	14.08	5.30	11.12	1.00	1.00
2017	8,280	8,280	0.00	14.88	5.80	11.73	1.00	1.00
2018	8,280	8,280	0.00	14.86	5.95	12.38	1.00	1.00
2019	8,280	8,280	0.00	15.77	6.25	13.08	1.00	1.00
2020	8,280	8,280	0.00	16.72	6.57	13.77	1.00	1.00
2021	8,280	8,280	0.00	17.72	6.80	14.53	1.00	1.00
2022	8,280	8,280	0.00	18.31	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECO#04 - Bldg. Env. Commercial

PSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	1,864	304	12	1,837	2,801	1,216
2005	1,812	317	13	2,032	2,880	1,294
2006	1,863	332	14	2,182	2,904	1,157
2007	1,496	348	14	2,328	3,083	1,104
2008	1,442	366	14	2,331	3,048	1,103
2009	1,389	383	13	2,177	2,879	1,084
2010	1,339	403	12	1,948	2,690	1,011
2011	1,290	424	11	1,852	2,448	1,129
2012	1,243	446	12	2,071	2,726	1,048
2013	1,195	470	13	2,185	2,805	958
2014	1,148	495	9	1,830	2,157	1,114
2015	1,100	520	8	1,320	1,725	1,223
2016	1,053	547	8	1,335	1,760	1,183
2017	1,005	576	8	1,450	1,923	1,116
2018	958	606	10	1,890	2,254	1,009
2019	910	637	9	1,809	2,161	1,005
2020	863	670	10	1,825	2,195	973
2021	815	705	10	1,864	2,288	926
2022	768	742	11	1,819	2,487	853
NOM	22,643	9,290	211	35,074	46,904	20,514
NPV	7,290	1,711	47	7,718	10,321	4,436

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECOM04 - Bldg. Env. Commercial

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	98	17	115	44	71	114	199	0
2002	163	29	192	73	122	195	553	0
2003	193	27	220	86	154	240	842	0
2004	188	38	225	83	160	244	1,004	0
2005	180	40	220	80	168	248	1,046	0
2006	174	42	216	78	175	253	1,106	0
2007	168	44	212	75	184	259	1,226	0
2008	162	48	209	73	193	265	1,287	0
2009	157	48	205	70	202	273	1,288	0
2010	152	51	203	68	213	280	1,440	0
2011	146	54	200	65	224	288	1,487	0
2012	141	56	198	63	236	299	1,549	0
2013	136	59	195	61	248	308	1,671	0
2014	131	62	193	58	261	320	1,772	0
2015	125	66	191	56	275	331	1,849	0
2016	120	69	189	54	289	343	1,999	0
2017	115	73	188	51	304	356	2,079	0
2018	110	77	186	49	320	369	2,079	0
2019	104	81	185	47	337	383	2,205	0
2020	99	85	184	44	354	398	2,339	0
2021	94	89	183	42	373	415	2,480	0
2022	89	94	183	40	392	432	2,631	0
NOM.	3,044	1,259	4,303	1,361	5,253	6,614	34,107	0
NPV	818	257	1,074	366	1,071	1,437	8,707	0

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECOM04 - Bldg. Env. Commercial

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	211	5,521	0	5,732	0	228	198	0	426	(5,307)	(2,862)
2002	0	147	3,847	0	3,994	0	387	553	0	940	(3,054)	(4,370)
2003	0	77	2,013	0	2,090	0	470	842	0	1,312	(778)	(4,721)
2004	0	0	0	0	0	1,216	469	1,004	0	2,689	2,689	(3,609)
2005	0	0	0	0	0	1,294	460	1,048	0	2,808	2,808	(2,545)
2006	0	0	0	0	0	1,157	459	1,106	0	2,722	2,722	(1,597)
2007	0	0	0	0	0	1,104	471	1,236	0	2,811	2,811	(704)
2008	0	0	0	0	0	1,103	474	1,287	0	2,863	2,863	128
2009	0	0	0	0	0	1,084	478	1,298	0	2,850	2,850	867
2010	0	0	0	0	0	1,011	483	1,440	0	2,935	2,935	1,802
2011	0	186	3,434	0	3,600	1,129	488	1,487	0	3,106	(494)	1,492
2012	0	118	2,406	0	2,522	1,048	496	1,549	0	3,091	569	1,806
2013	0	61	1,271	0	1,332	958	504	1,671	0	3,143	1,811	1,947
2014	0	0	0	0	0	1,114	513	1,772	0	3,399	3,399	2,530
2015	0	0	0	0	0	1,223	522	1,849	0	3,594	3,594	3,003
2016	0	0	0	0	0	1,183	532	1,969	0	3,685	3,685	3,622
2017	0	0	0	0	0	1,119	543	2,079	0	3,739	3,739	4,114
2018	0	0	0	0	0	1,009	555	2,079	0	3,643	3,643	4,552
2019	0	0	0	0	0	1,005	569	2,205	0	3,779	3,779	4,999
2020	0	0	0	0	0	973	583	2,338	0	3,894	3,894	5,362
2021	0	559	14,848	0	15,207	926	598	2,480	0	4,004	(11,202)	4,327
2022	0	392	10,266	0	10,658	953	615	2,631	0	4,001	(6,658)	3,772
												#VALUE!
NOM	0	1,729	43,405	0	45,134	20,514	10,918	34,107	0	65,538	20,404	
NPV	0	378	9,504	0	9,882	4,436	2,511	6,707	0	13,654	3,772	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 1.38

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECOM04 - Bldg. Env. Commercial

PSC FORM CE 2.4
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(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	337	0	2,001	0	2,337	5,521	0	0	5,521	(3,184)	(1,717)
2002	613	0	1,333	0	2,266	3,647	0	0	3,647	(1,381)	(781)
2003	1,351	0	667	0	2,018	2,013	0	0	2,013	6	2
2004	1,521	0	0	0	1,521	0	0	0	0	1,521	629
2005	1,585	0	0	0	1,585	0	0	0	0	1,585	601
2006	1,659	0	0	0	1,659	0	0	0	0	1,659	576
2007	1,748	0	0	0	1,748	0	0	0	0	1,748	555
2008	1,818	0	0	0	1,818	0	0	0	0	1,818	529
2009	1,912	0	0	0	1,912	0	0	0	0	1,912	509
2010	1,902	0	0	0	1,902	0	0	0	0	1,902	483
2011	2,102	0	231	0	2,333	3,434	0	0	3,434	(1,100)	(248)
2012	2,189	0	154	0	2,343	2,406	0	0	2,406	(63)	(12)
2013	2,317	0	77	0	2,394	1,271	0	0	1,271	1,123	210
2014	2,452	0	0	0	2,452	0	0	0	0	2,452	420
2015	2,525	0	0	0	2,525	0	0	0	0	2,525	366
2016	2,680	0	0	0	2,680	0	0	0	0	2,680	362
2017	2,803	0	0	0	2,803	0	0	0	0	2,803	309
2018	2,932	0	0	0	2,932	0	0	0	0	2,932	353
2019	3,031	0	0	0	3,031	0	0	0	0	3,031	334
2020	3,198	0	0	0	3,198	0	0	0	0	3,198	323
3021	3,374	0	2,001	0	5,375	14,648	0	0	14,648	(9,272)	(857)
2022	3,562	0	1,333	0	4,896	10,266	0	0	10,266	(5,370)	(454)
NOM	47,991	0	7,796	0	55,786	43,405	0	0	43,405	12,384	
NPV	9,674	0	2,434	0	12,108	9,504	0	0	9,504	2,604	

In Service of Gen Unit:	2004
Discount Rate :	9.22
Benefit/Cost Ratio (Col(8) / Col(10))	1.27

0524

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: BECOM04 - Bldg. Env. Commercial

PSC FORM CE 2.5
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	211	2,001	240	0	2,481	186	229	0	0	425	(2,036)	(1,086)
2002	0	147	1,333	690	0	2,170	553	387	0	0	940	(1,230)	(906)
2003	0	77	667	1,000	0	1,744	842	470	0	0	1,312	(432)	(195)
2004	0	0	0	1,125	0	1,125	2,220	469	0	0	2,689	1,563	847
2005	0	0	0	1,172	0	1,172	2,339	468	0	0	2,808	1,636	810
2006	0	0	0	1,228	0	1,228	2,263	469	0	0	2,732	1,504	622
2007	0	0	0	1,293	0	1,293	2,340	471	0	0	2,811	1,518	482
2008	0	0	0	1,345	0	1,345	2,369	474	0	0	2,883	1,518	441
2009	0	0	0	1,415	0	1,415	2,372	478	0	0	2,850	1,435	362
2010	0	0	0	1,467	0	1,467	2,431	483	0	0	2,935	1,468	358
2011	0	166	231	1,556	0	1,953	2,616	488	0	0	3,105	1,153	257
2012	0	116	154	1,620	0	1,890	2,595	496	0	0	3,091	1,201	245
2013	0	61	77	1,714	0	1,853	2,639	504	0	0	3,143	1,290	241
2014	0	0	0	1,815	0	1,815	2,688	513	0	0	3,200	1,386	271
2015	0	0	0	1,868	0	1,868	3,072	522	0	0	3,594	1,726	271
2016	0	0	0	1,868	0	1,868	3,153	532	0	0	3,685	1,719	246
2017	0	0	0	2,074	0	2,074	3,195	543	0	0	3,739	1,665	219
2018	0	0	0	2,170	0	2,170	3,088	555	0	0	3,643	1,473	177
2019	0	0	0	2,243	0	2,243	3,210	569	0	0	3,779	1,536	169
2020	0	0	0	2,388	0	2,388	3,311	583	0	0	3,894	1,526	154
2021	0	800	2,001	2,467	0	5,057	3,407	598	0	0	4,004	(1,053)	(97)
2022	0	232	1,333	2,839	0	4,381	3,483	615	0	0	4,098	(283)	(22)
NOM.	0	1,729	7,788	35,513	0	45,041	54,821	10,818	0	0	65,639	20,498	
NPV	0	378	2,434	7,158	0	9,970	11,142	2,811	0	0	13,954	3,983	

Discount Rate: 9.22

Benefit/Cost Ratio (Col(12) / Col(7)): 1.37

0535

INPUT DATA - CONTINUED
PROGRAM METHOD SELECTED: REV REQ
PROGRAM NAME: COMMERCIAL/INDUSTRIAL BUILDING ENVELOPE (2001 - 2003)

III UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

	MEASURES IN THE PROGRAM			
	SCD-18	SCD-19	SCD-22	SCD-23
GS RATE CLASS				
(1) UTILITY NON RECURRING COST PER CUSTOMER		$25		$25
(2) UTILITY RECURRING COST PER CUSTOMER		$0		$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)		$774		$444
(6) CUSTOMER O&M COST		$0		$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE		$595		$87
(13) UTILITY RECURRING REBATE/INCENTIVE		$0		$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE		0%		0%
GSD RATE CLASS				
(1) UTILITY NON RECURRING COST PER CUSTOMER	$150	$150	$150	$150
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$4,373	$5,370	$2,896	$2,928
(6) CUSTOMER O&M COST	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$153	$570	$71	$118
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%
GSLD RATE CLASS				
(1) UTILITY NON RECURRING COST PER CUSTOMER	$247	$247	$247	$247
(2) UTILITY RECURRING COST PER CUSTOMER	$0	$0	$0	$0
(4) CUSTOMER EQUIPMENT COST (INCREMENTAL)	$41,581	$53,051	$28,411	$32,396
(6) CUSTOMER O&M COST	$0	$0	$0	$0
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$4,850	$9,650	$4,100	$5,100
(13) UTILITY RECURRING REBATE/INCENTIVE	$0	$0	$0	$0
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	0%	0%	0%

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.6%
2004	4.4%	3.7%
2005	4.5%	3.8%
2006	4.7%	3.9%
2007	4.7%	4.0%
2008	4.9%	4.2%
2009	5.0%	4.3%
2010	5.1%	4.4%
2011	5.2%	4.4%
2012	5.3%	4.5%
2013	5.3%	4.6%
2014	5.3%	4.5%
2015-20:	5.2%	4.5%
		4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	GSD	GSLD	
(1) NON FUEL COST IN CUSTOMER BILL	4.54¢	1.88¢	1.57¢	(1995 ¢/kWh)
(2) NON-FUEL ESCALATION RATE	0	0	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	8.02	8.06	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0	1.60	1.60 %	*

* Values apply to first year only.

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INPUT DATA -- PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: T95X - GS Lmd Control

PSC FORM CE 1
PAGE 1 OF 1

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.85	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.14	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	82.7	kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	30.8	kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.84667	
(5) K FACTOR FOR T & D	1.86667	

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	9.22	%
* (11) UTILITY AFUDC RATE	10.02	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	202	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	30	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.82	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	0.34	%**

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 12
**** 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.

(15-20)

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: TIMIX - GS Load Control

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PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	3,827	160	28	203	148	58	120	0	728	728	728
1998	3,474	153	26	190	91	58	120	58	705	648	1,376
1999	3,301	145	25	181	92	58	120	49	679	570	1,944
2000	3,136	138	24	171	92	58	120	42	655	502	2,446
2001	2,977	131	23	163	92	58	120	36	631	443	2,889
2002	2,824	124	21	154	92	58	120	30	606	391	3,280
2003	2,677	118	20	146	91	58	120	24	588	345	3,625
2004	2,536	112	19	138	90	58	120	19	564	304	3,930
2005	2,399	105	18	130	89	58	120	18	544	268	4,198
2006	2,258	99	17	122	89	58	120	18	523	236	4,434
2007	2,118	93	16	114	89	58	120	18	502	208	4,642
2008	1,981	87	15	106	89	58	120	18	481	182	4,824
2009	1,842	81	14	98	89	58	120	18	460	160	4,984
2010	1,704	75	13	90	89	58	120	18	440	140	5,124
2011	1,565	69	12	82	89	58	120	18	418	122	5,246
2012	1,426	63	11	74	89	58	120	18	398	106	5,351
2013	1,288	57	10	66	89	58	120	18	377	92	5,443
2014	1,149	51	9	58	89	58	120	18	356	80	5,523
2015	1,011	44	8	50	89	58	120	18	336	69	5,591
2016	872	38	7	43	89	58	120	18	315	59	5,650
2017	749	33	6	38	89	58	120	18	296	51	5,701
2018	656	29	5	33	89	58	120	18	282	44	5,745
2019	579	25	4	29	89	58	120	18	271	39	5,784
2020	502	22	4	24	89	58	120	18	259	34	5,818
2021	425	19	3	20	89	58	120	18	248	30	5,848
2022	347	15	3	16	89	58	120	18	236	26	5,874
2023	270	12	2	11	89	58	120	18	224	23	5,897
2024	193	8	1	7	89	58	120	18	213	20	5,916
2025	116	5	1	2	89	58	120	18	201	17	5,933
2026	39	2	0		89	58	120	18	190	15	5,948

IN SERVICE COST ($000)	3,806
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	6%	9.50 %
C/S	49%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.84957

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: T98X - GS Load Control

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	381	75	0	456	3	0	0	0	0	0
1996	621	235	0	856	10	0	0	0	0	0
1997	382	320	0	702	14	0	0	0	0	0
1998	363	320	0	683	14	0	0	0	0	0
1999	345	320	0	664	14	0	0	0	0	0
2000	361	320	0	680	14	0	0	0	0	0
2001	229	320	0	548	15	0	0	0	0	0
2002	41	320	0	361	16	0	0	0	0	0
2003	43	320	0	362	17	0	0	0	0	0
2004	44	320	0	364	17	0	0	0	0	0
2005	46	320	0	366	18	0	0	0	0	0
2006	47	320	0	368	19	0	0	0	0	0
2007	50	320	0	370	20	0	0	0	0	0
2008	52	320	0	372	20	0	0	0	0	0
2009	55	320	0	374	21	0	0	0	0	0
2010	57	320	0	377	22	0	0	0	0	0
2011	60	320	0	380	24	0	0	0	0	0
2012	63	320	0	382	25	0	0	0	0	0
2013	66	320	0	385	26	0	0	0	0	0
2014	69	320	0	389	28	0	0	0	0	0
2015	73	320	0	392	28	0	0	0	0	0
2016	76	320	0	396	30	0	0	0	0	0
NOM	3,527	6,701	0	10,228	413	0	0	0	0	0
NPV	2,201	2,672	0	4,873	144	0	0	0	0	0

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

page 4a

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:TI95X - GS Load Control

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PAGE 3a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
1997	3.75%	134	134	120	120	111	111	9	263	0	0	0	9
1998	7.22%	257	391	120	240	111	223	58	263	0	0	0	58
1999	6.68%	238	629	120	361	111	334	46	263	0	0	0	49
2000	6.18%	220	849	120	481	111	446	42	263	0	0	0	42
2001	5.71%	203	1,053	120	601	111	557	36	263	0	0	0	36
2002	5.28%	188	1,241	120	721	111	668	30	263	0	0	0	30
2003	4.89%	174	1,415	120	841	111	780	24	263	0	0	0	24
2004	4.52%	161	1,576	120	962	111	891	19	263	0	0	0	19
2006	4.46%	159	1,735	120	1,082	111	1,003	18	263	0	0	0	18
2006	4.46%	159	1,894	120	1,202	111	1,114	18	263	0	0	0	18
2007	4.46%	159	2,053	120	1,322	111	1,229	18	263	0	0	0	18
2008	4.46%	159	2,212	120	1,442	111	1,337	18	263	0	0	0	18
2009	4.46%	159	2,371	120	1,563	111	1,448	18	263	0	0	0	18
2010	4.46%	159	2,530	120	1,683	111	1,560	18	263	0	0	0	18
2011	4.46%	159	2,689	120	1,803	111	1,671	18	263	0	0	0	18
2012	4.46%	159	2,848	120	1,923	111	1,783	18	263	0	0	0	18
2013	4.46%	159	3,007	120	2,043	111	1,894	18	263	0	0	0	18
2014	4.46%	159	3,166	120	2,164	111	2,005	18	263	0	0	0	18
2015	4.46%	159	3,325	120	2,284	111	2,117	18	263	0	0	0	18
2016	4.46%	159	3,484	120	2,404	111	2,229	18	263	0	0	0	18
2017	2.25%	80	3,564	120	2,524	111	2,340	(12)	263	0	0	0	(12)
2018	0.00%	0	3,564	120	2,644	111	2,451	(43)	263	0	0	0	(43)
2019	0.00%	0	3,564	120	2,764	111	2,563	(43)	263	0	0	0	(43)
2020	0.00%	0	3,564	120	2,885	111	2,674	(43)	263	0	0	0	(43)
2021	0.00%	0	3,564	120	3,005	111	2,786	(43)	263	0	0	0	(43)
2022	0.00%	0	3,564	120	3,125	111	2,897	(43)	263	0	0	0	(43)
2023	0.00%	0	3,564	120	3,245	111	3,008	(43)	263	0	0	0	(43)
2024	0.00%	0	3,564	120	3,365	111	3,120	(43)	263	0	0	0	(43)
2025	0.00%	0	3,564	120	3,486	111	3,231	(43)	263	0	0	0	(43)
2026	0.00%	0	3,564	120	3,606	111	3,342	(43)	263	0	0	0	(43)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(85)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	263
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: T95X - GS Load Control

(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)
1997	3.75%	134	9	3,488	120	(77)	3,691	3,582	3,627
1998	7.22%	257	56	3,366	240	(21)	3,582	3,396	3,474
1999	6.68%	238	49	3,245	361	28	3,396	3,217	3,301
2000	6.18%	220	42	3,125	481	70	3,217	3,055	3,139
2001	5.71%	203	38	3,006	601	108	3,055	2,899	2,977
2002	5.33%	188	30	2,885	721	135	2,899	2,749	2,824
2003	4.89%	174	24	2,764	841	160	2,749	2,605	2,677
2004	4.52%	161	19	2,644	962	179	2,605	2,465	2,535
2005	4.46%	159	18	2,524	1,082	197	2,465	2,327	2,396
2006	4.46%	159	16	2,404	1,202	216	2,327	2,188	2,258
2007	4.46%	159	18	2,284	1,322	234	2,188	2,050	2,119
2008	4.46%	159	18	2,164	1,442	252	2,050	1,911	1,981
2009	4.46%	159	18	2,043	1,563	271	1,911	1,773	1,842
2010	4.46%	159	18	1,923	1,683	289	1,773	1,634	1,704
2011	4.46%	159	18	1,803	1,803	307	1,634	1,496	1,565
2012	4.46%	159	18	1,683	1,923	326	1,496	1,357	1,426
2013	4.46%	159	18	1,563	2,043	344	1,357	1,219	1,288
2014	4.46%	159	18	1,442	2,164	362	1,219	1,080	1,149
2015	4.46%	159	18	1,322	2,284	381	1,080	942	1,011
2016	4.46%	159	18	1,202	2,404	399	942	803	872
2017	2.25%	80	(12)	1,082	2,524	387	803	686	749
2018	0.00%	0	(43)	962	2,644	344	686	618	658
2019	0.00%	0	(43)	841	2,764	301	618	541	579
2020	0.00%	0	(43)	721	2,885	258	541	463	502
2021	0.00%	0	(43)	601	3,005	215	463	386	425
2022	0.00%	0	(43)	481	3,125	172	386	309	347
2023	0.00%	0	(43)	361	3,245	129	309	232	270
2024	0.00%	0	(43)	240	3,366	86	232	154	193
2025	0.00%	0	(43)	120	3,488	43	154	77	116
2026	0.00%	0	(43)	0	3,606	0	77	0	39

* 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)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.80%	1.028	44.56%	179.18	144.12
1996	-1	2.83%	1.053	41.54%	171.47	319.45
				100.00%	406.18	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* CUMULATIVE DEBT AFUDC ($/kW)	(9) YEARLY TOTAL AFUDC ($/kW)	(9e)* CUMULATIVE TOTAL AFUDC ($/kW)	(9h)* CONSTRUCTION PERIOD INTEREST ($/kW)	(9c)* CUMULATIVE CPI ($/kW)	(9d)* DEFERRED TAXES ($/kW)	(9e)* CUMULATIVE DEFERRED TAXES ($/kW)	(10) NOREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994	-3	27.27	1.20	1.20	2.98	2.98	2.73	2.73	(0.56)	(0.56)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	19.11	14.88	17.41	(3.16)	(3.75)	195.31	252.82
1996	-1	302.56	15.06	22.76	37.38	56.48	33.66	51.10	(7.16)	(10.92)	206.85	481.67
			22.76	31.66	56.48		51.10		(10.92)		481.67	

IN SERVICE YEA	1997
PLANT COSTS	392
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	3,165	3,165	3,165
EQUITY AFUDC	263		
DEBT AFUDC	178	178	
CPI			269
TOTAL	3,606	3,343	3,434

* Column not specified in workbook

INPUT DATA -- PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME: TWSX - GS Load Control

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(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAMWh)	(5) AVOIDED MARGINAL FUEL COST (CAMWh)	(6)* INCREASED MARGINAL FUEL COST (CAMWh)	(7) REPLACEMENT FUEL COST (CAMWh)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.82	1.89	0.00	1.00	1.00
1995	3,222	3,222	0.00	4.89	1.92	0.00	1.00	1.00
1996	6,847	6,847	0.00	5.06	1.92	0.00	1.00	1.00
1997	6,847	6,847	0.00	5.62	2.03	4.28	1.00	1.00
1998	6,847	6,847	0.00	6.01	2.04	4.25	1.00	1.00
1999	6,847	6,847	0.00	7.19	2.19	7.85	1.00	1.00
2000	6,847	6,847	0.00	7.25	2.43	8.21	1.00	1.00
2001	6,847	6,847	0.00	7.78	2.52	8.42	1.00	1.00
2002	6,847	6,847	0.00	8.29	2.59	8.58	1.00	1.00
2003	6,847	6,847	0.00	9.13	2.77	9.28	1.00	1.00
2004	6,847	6,847	0.00	9.66	2.84	9.60	1.00	1.00
2005	6,847	6,847	0.00	10.69	3.14	9.82	1.00	1.00
2006	6,847	6,847	0.00	11.33	3.30	9.82	1.00	1.00
2007	6,847	6,847	0.00	13.55	3.57	9.70	1.00	1.00
2008	6,847	6,847	0.00	13.29	3.81	10.08	1.00	1.00
2009	6,847	6,847	0.00	13.21	3.92	10.57	1.00	1.00
2010	6,847	6,847	0.00	14.48	4.10	10.66	1.00	1.00
2011	6,847	6,847	0.00	15.29	4.14	11.45	1.00	1.00
2012	6,847	6,847	0.00	15.93	4.53	12.04	1.00	1.00
2013	6,847	6,847	0.00	16.92	4.82	13.05	1.00	1.00
2014	6,847	6,847	0.00	17.89	4.98	13.71	1.00	1.00
2015	6,847	6,847	0.00	18.77	5.18	14.19	1.00	1.00
2016	6,847	6,847	0.00	19.82	5.39	15.01	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 TI6SX - GS Load Control

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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)
1994	0	0	0.000	0	0	0
1995	0	0	0.000	0	0	0
1996	0	0	0.000	0	0	0
1997	728	205	0.011	3	4	933
1998	705	214	0.012	4	4	919
1999	679	224	0.066	21	30	885
2000	655	234	0.005	2	3	867
2001	631	245	0.008	3	5	874
2002	608	256	0.008	3	5	882
2003	586	266	0.015	6	9	850
2004	564	280	0.026	10	15	839
2005	544	292	0.015	6	9	831
2006	523	308	0.014	5	7	827
2007	502	321	0.025	10	13	820
2008	481	336	0.025	10	12	815
2009	460	353	0.014	6	7	812
2010	440	371	0.059	24	28	808
2011	419	390	0.051	21	25	805
2012	398	411	0.067	28	35	862
2013	377	433	0.085	35	43	803
2014	358	456	0.085	35	43	806
2015	338	480	0.084	35	42	809
2016	315	505	0.103	43	51	811
NOM	10,300	8,580	0.779	308	399	16,797
NPV	4,336	2,184	0.216	81	112	6,470

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AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: T95X - GS Load Control

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(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	70	12	82	20	51	71	5	0
1996	101	27	128	42	112	155	16	1
1997	100	28	128	42	116	158	24	3
1998	151	29	180	41	121	161	29	5
1999	140	30	170	39	128	165	31	5
2000	141	32	172	38	132	170	31	5
2001	139	33	169	38	138	176	33	6
2002	131	35	166	35	145	180	36	6
2003	127	36	163	34	151	185	39	6
2004	123	38	161	33	156	191	42	7
2005	118	40	158	32	165	197	46	7
2006	114	41	156	31	173	203	49	8
2007	110	43	153	30	181	210	54	8
2008	106	45	151	28	190	218	57	9
2009	101	48	149	27	199	226	57	9
2010	97	50	147	26	209	236	62	10
2011	93	53	146	26	220	245	65	9
2012	89	56	144	24	232	256	68	10
2013	84	58	143	23	244	267	73	11
2014	80	62	142	22	257	279	77	11
2015	76	65	141	20	271	291	81	12
2016	72	68	140	19	285	304	85	12
NOM	2,490	929	3,419	668	3,875	4,543	1,062	165
NPV	1,148	326	1,472	307	1,301	1,609	344	56

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

(1548)

TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: T95X - G5 Load Control

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PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	381	0	0	381	0	159	4	0	163	(218)	(200)
1996	0	621	0	0	621	0	343	13	0	355	(266)	(422)
1997	0	382	0	0	382	933	342	19	0	1,295	913	278
1998	0	363	0	0	363	919	341	21	0	1,281	918	823
1999	0	345	0	0	345	885	341	26	0	1,252	907	1,506
2000	0	361	0	0	361	867	342	26	0	1,255	894	2,033
2001	0	229	0	0	229	874	344	28	0	1,246	1,017	2,581
2002	0	41	0	0	41	862	348	30	0	1,238	1,197	3,172
2003	0	43	0	0	43	850	349	33	0	1,232	1,189	3,710
2004	0	44	0	0	44	839	352	36	0	1,226	1,182	4,199
2005	0	46	0	0	46	833	355	39	0	1,227	1,181	4,646
2006	0	46	0	0	46	827	359	41	0	1,227	1,179	5,055
2007	0	50	0	0	50	820	364	50	0	1,233	1,183	5,431
2008	0	52	0	0	52	815	368	48	0	1,233	1,180	5,774
2009	0	55	0	0	55	812	370	48	0	1,230	1,181	6,089
2010	0	57	0	0	57	808	363	53	0	1,242	1,184	6,377
2011	0	60	0	0	60	805	391	56	0	1,252	1,192	6,644
2012	0	63	0	0	63	802	400	58	0	1,260	1,198	6,893
2013	0	66	0	0	66	803	410	62	0	1,275	1,209	7,114
2014	0	69	0	0	69	805	421	66	0	1,291	1,222	7,324
2015	0	73	0	0	73	809	432	69	0	1,309	1,236	7,518
2016	0	76	0	0	76	811	444	73	0	1,328	1,252	7,697
NOM	0	3,527	0	0	3,527	16,797	7,962	897	0	25,656	22,129	
NPV	0	2,201	0	0	2,201	6,470	3,140	288	0	9,898	7,697	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 4.50

(54)

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME T95X - GS Load Control

PSC FORM CE 2.4
PAGE 1 OF 1

(1) YEAR	(2) SAVINGS IN PARTICIPANTS BILLS $(000)	(3) TAX CREDITS $(000)	(4) UTILITY REBATES $(000)	(5) OTHER BENEFITS $(000)	(6) TOTAL BENEFITS $(000)	(7) CUSTOMER EQUIPMENT COSTS $(000)	(8) CUSTOMER O&M COSTS $(000)	(9) OTHER COSTS $(000)	(10) TOTAL COSTS $(000)	(11) NET BENEFITS $(000)	(12) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	4	0	75	0	79	0	0	0	0	79	73
1996	13	0	235	0	248	0	0	0	0	248	281
1997	18	0	320	0	338	0	0	0	0	338	540
1998	18	0	320	0	338	0	0	0	0	338	778
1999	18	0	320	0	338	0	0	0	0	338	995
2000	19	0	320	0	339	0	0	0	0	339	1,195
2001	20	0	320	0	340	0	0	0	0	340	1,378
2002	21	0	320	0	341	0	0	0	0	341	1,547
2003	22	0	320	0	342	0	0	0	0	342	1,701
2004	23	0	320	0	343	0	0	0	0	343	1,843
2005	24	0	320	0	344	0	0	0	0	344	1,973
2006	25	0	320	0	345	0	0	0	0	345	2,093
2007	26	0	320	0	346	0	0	0	0	346	2,203
2008	28	0	320	0	348	0	0	0	0	348	2,304
2009	28	0	320	0	347	0	0	0	0	347	2,398
2010	29	0	320	0	349	0	0	0	0	349	2,482
2011	30	0	320	0	350	0	0	0	0	350	2,560
2012	32	0	320	0	351	0	0	0	0	351	2,632
2013	33	0	320	0	353	0	0	0	0	353	2,698
2014	35	0	320	0	355	0	0	0	0	355	2,759
2015	37	0	320	0	357	0	0	0	0	357	2,816
2016	38	0	320	0	358	0	0	0	0	358	2,867
	40	0	320	0	360	0	0	0	0	360	2,867
NOM	558	0	6,701	0	7,259	0	0	0	0	7,259	
NPV	195	0	2,673	0	2,867	0	0	0	0	2,867	

In Service of Gen Unit: 1997

Discount Rate : 9.22

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

1550

RATE IMPACT TEST
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME TI6X - GS Load Control

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(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) INCENTIVES $(000)	(5) REVENUE LOSSES $(000)	(6) OTHER COSTS $(000)	(7) TOTAL COSTS $(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS $(000)	(9) AVOIDED T&D BENEFITS $(000)	(10) REVENUE GAINS $(000)	(11) OTHER BENEFITS $(000)	(12) TOTAL BENEFITS $(000)	(13) NET BENEFITS $(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	381	75	3	0	459	4	158	0	0	163	(297)	(271)
1996	0	621	235	10	0	696	13	343	0	0	355	(510)	(899)
1997	0	382	320	14	0	715	953	342	0	0	1,295	579	(255)
1998	0	363	320	14	0	696	940	341	0	0	1,281	585	158
1999	0	345	320	14	0	679	911	341	0	0	1,252	573	525
2000	0	381	320	14	0	695	913	342	0	0	1,255	560	855
2001	5	229	320	15	0	563	901	344	0	0	1,245	682	1,223
2002	0	41	320	16	0	378	892	348	0	0	1,238	861	1,648
2003	0	43	320	17	0	370	883	349	0	0	1,232	863	2,034
2004	0	44	320	17	0	381	875	352	0	0	1,228	845	2,384
2005	0	46	320	18	0	384	872	355	0	0	1,227	843	2,703
2006	0	48	320	19	0	388	868	359	0	0	1,227	841	2,995
2007	0	50	320	20	0	390	870	364	0	0	1,233	844	3,263
2008	0	52	320	20	0	392	863	369	0	0	1,233	840	3,507
2009	0	55	320	21	0	396	860	376	0	0	1,236	840	3,731
2010	0	57	320	22	0	399	859	383	0	0	1,242	843	3,936
2011	0	60	320	24	0	403	861	391	0	0	1,252	849	4,126
2012	0	63	320	25	0	407	860	400	0	0	1,260	853	4,300
2013	0	66	320	26	0	411	865	410	0	0	1,275	863	4,462
2014	0	69	320	28	0	416	870	421	0	0	1,291	875	4,612
2015	0	72	320	28	0	420	877	432	0	0	1,309	889	4,751
2016	0	76	320	30	0	426	884	444	0	0	1,328	903	4,881
NOM.	0	3,527	6,701	413	0	10,641	17,693	7,962	0	0	25,656	15,015	
NPV	0	2,201	2,673	144	0	5,017	8,758	3,140	0	0	9,898	4,881	

Discount Rate 8.22

Benefit/Cost Ratio (Col(12) / Col(7)) 1.97

0551

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

GS RATE CLASS	GS-LC	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$100	* Excludes capital
(2) UTILITY RECURRING COST PER CUSTOMER	$0	
(4) CUSTOMER EQUIPMENT COST	$0	
(6) CUSTOMER O&M COST	$0	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0	
(13) UTILITY RECURRING REBATE/INCENTIVE	$56	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0 %	*

* Values apply to first year only.

0552

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: T101R - GS LOAD CONTROL

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	0.86	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	1.14	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	29.3	kWh ****
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	14.4	kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	27	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.85000	
(5) K FACTOR FOR T & D	1.86667	

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	9.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UN	2001	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-2000	
(4) BASE YEAR AVOIDED GENERATING COST	556	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	100	$/kW
(6) BASE YEAR DISTRIBUTION COST	30	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	21	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	3.20	$/kW
(11) DISTRIBUTION FIXED O & M COST	14.93	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.018	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION I	3.40	%**
(15) GENERATOR CAPACITY FACTOR	52%	** (in-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.28	CENTS PER kWh** (in-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RAT	8.34	%**

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 12
**** 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 DURIN 3 OFF-PEAK.

0553

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: T101R - GS LOAD CONTROL

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	525	97	0	622	4	0	0	0	0	0
1998	880	306	0	1,186	13	0	0	0	0	0
1999	1,187	532	0	1,719	23	0	0	0	0	0
2000	1,493	757	0	2,250	34	0	0	0	0	0
2001	1,097	870	0	1,967	41	0	0	0	0	0
2002	1,089	870	0	1,959	43	0	0	0	0	0
2003	880	870	0	1,750	45	0	0	0	0	0
2004	643	870	0	1,513	48	0	0	0	0	0
2005	413	870	0	1,285	48	0	0	0	0	0
2006	131	870	0	1,001	51	0	0	0	0	0
2007	137	870	0	1,007	53	0	0	0	0	0
2008	143	870	0	1,013	56	0	0	0	0	0
2009	149	870	0	1,019	58	0	0	0	0	0
2010	156	870	0	1,026	61	0	0	0	0	0
2011	163	870	0	1,033	64	0	0	0	0	0
2012	171	870	0	1,041	67	0	0	0	0	0
2013	180	870	0	1,049	71	0	0	0	0	0
2014	188	870	0	1,058	75	0	0	0	0	0
2015	198	870	0	1,067	77	0	0	0	0	0
2016	207	870	0	1,077	81	0	0	0	0	0
2017	217	870	0	1,087	86	0	0	0	0	0
2018	228	870	0	1,098	90	0	0	0	0	0
2019	239	870	0	1,109	93	0	0	0	0	0
2020	251	870	0	1,121	98	0	0	0	0	0
NOM	10,969	19,089	0	30,059	1,378	0	0	0	0	0
NPV	5,129	5,681	0	10,810	350	0	0	0	0	0

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

0554

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME: TI01R - GS LOAD CONTROL

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PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2001	16,308	718	124	939	656	260	538	40	3,276	3,276	3,276
2002	15,622	687	119	900	415	260	538	254	3,173	2,905	6,181
2003	14,847	653	113	855	416	260	538	220	3,056	2,562	8,743
2004	14,103	621	107	812	417	260	538	190	2,945	2,260	11,003
2005	13,390	589	102	771	416	260	538	161	2,838	1,994	12,997
2006	12,704	559	97	732	415	260	538	134	2,735	1,759	14,756
2007	12,043	530	92	694	411	260	538	110	2,635	1,552	16,309
2008	11,405	502	87	657	403	260	538	88	2,540	1,370	17,678
2009	10,781	474	82	621	388	260	538	84	2,448	1,208	18,886
2010	10,158	447	77	585	361	260	538	84	2,353	1,063	19,949
2011	9,536	420	72	549	335	260	538	84	2,259	935	20,884
2012	8,913	392	68	513	310	260	538	84	2,166	821	21,705
2013	8,291	365	63	478	284	260	538	84	2,072	719	22,424
2014	7,668	337	58	442	259	260	538	84	1,979	629	23,052
2015	7,048	310	54	406	233	260	538	84	1,885	548	23,601
2016	6,424	283	49	370	208	260	538	84	1,792	477	24,078
2017	5,801	255	44	334	182	260	538	84	1,698	414	24,492
2018	5,179	228	39	298	157	260	538	84	1,605	358	24,850
2019	4,556	200	35	262	131	260	538	84	1,511	309	25,159
2020	3,934	173	30	227	106	260	538	84	1,418	266	25,424
2021	3,379	148	26	195	219	260	538	(52)	1,335	229	25,653
2022	2,982	130	23	171	340	260	538	(190)	1,272	199	25,852
2023	2,813	115	20	161	326	260	538	(190)	1,220	175	26,027
2024	2,285	100	17	130	312	260	538	(190)	1,167	153	26,181
2025	1,916	84	15	110	297	260	538	(190)	1,115	134	26,315
2026	1,588	69	12	90	283	260	538	(190)	1,063	117	26,432
2027	1,219	54	9	70	269	260	538	(190)	1,010	102	26,534
2028	871	38	7	50	254	260	538	(190)	958	89	26,622
2029	523	23	4	30	240	260	538	(190)	906	77	26,699
2030	174	8	1	10	226	260	538	(190)	853	66	26,765

IN SERVICE COST ($000)	16,154
IN SERVICE YEAR	2001
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.65690

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME T101R - GS LOAD CONTROL

PSC FORM CE 1.1A
PAGE 2a OF 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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)
2001	3.75%	587	587	538	538	493	493	40	1,374	0	0	0	40
2002	7.22%	1,150	1,747	538	1,077	493	985	254	1,374	0	0	0	254
2003	6.68%	1,064	2,812	538	1,615	493	1,478	220	1,374	0	0	0	220
2004	6.18%	984	3,796	538	2,154	493	1,971	190	1,374	0	0	0	190
2005	5.71%	910	4,706	538	2,692	493	2,463	161	1,374	0	0	0	161
2006	5.28%	841	5,547	538	3,231	493	2,956	134	1,374	0	0	0	134
2007	4.89%	779	6,326	538	3,769	493	3,448	110	1,374	0	0	0	110
2008	4.52%	720	7,046	538	4,308	493	3,941	88	1,374	0	0	0	88
2009	4.46%	710	7,756	538	4,846	493	4,434	84	1,374	0	0	0	84
2010	4.46%	710	8,467	538	5,385	493	4,927	84	1,374	0	0	0	84
2011	4.46%	710	9,177	538	5,923	493	5,419	84	1,374	0	0	0	84
2012	4.46%	710	9,887	538	6,461	493	5,912	84	1,374	0	0	0	84
2013	4.46%	710	10,596	538	7,000	493	6,405	84	1,374	0	0	0	84
2014	4.46%	710	11,306	538	7,538	493	6,897	84	1,374	0	0	0	84
2015	4.46%	710	12,019	538	8,077	493	7,390	84	1,374	0	0	0	84
2016	4.46%	710	12,729	538	8,615	493	7,883	84	1,374	0	0	0	84
2017	4.46%	710	13,440	538	9,154	493	8,375	84	1,374	0	0	0	84
2018	4.46%	710	14,150	538	9,692	493	8,868	84	1,374	0	0	0	84
2019	4.46%	710	14,861	538	10,231	493	9,361	84	1,374	0	0	0	84
2020	4.46%	710	15,571	538	10,769	493	9,853	84	1,374	0	0	0	84
2021	2.25%	358	15,930	538	11,308	493	10,346	(52)	1,374	0	0	0	(52)
2022	0.00%	0	15,930	538	11,846	493	10,839	(190)	1,374	0	0	0	(190)
2023	0.00%	0	15,930	538	12,385	493	11,331	(190)	1,374	0	0	0	(190)
2024	0.00%	0	15,930	538	12,923	493	11,824	(190)	1,374	0	0	0	(190)
2025	0.00%	0	15,930	538	13,461	493	12,317	(190)	1,374	0	0	0	(190)
2026	0.00%	0	15,930	538	14,000	493	12,808	(190)	1,374	0	0	0	(190)
2027	0.00%	0	15,930	538	14,538	493	13,302	(190)	1,374	0	0	0	(190)
2028	0.00%	0	15,930	538	15,077	493	13,794	(190)	1,374	0	0	0	(190)
2029	0.00%	0	15,930	538	15,615	493	14,287	(190)	1,374	0	0	0	(190)
2030	0.00%	0	15,930	538	16,154	493	14,780	(190)	1,374	0	0	0	(190)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(444)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1,374
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

0556

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME: T101R - GS LOAD CONTROL

(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)
2001	3.75%	587	40	15,615	538	(403)	16,597	16,018	16,308
2002	7.22%	1,150	254	15,077	1,077	(150)	16,018	15,226	15,622
2003	6.68%	1,064	220	14,538	1,615	71	15,226	14,467	14,847
2004	6.18%	984	190	14,000	2,154	261	14,467	13,739	14,103
2005	5.71%	910	161	13,461	2,692	421	13,739	13,040	13,390
2006	5.28%	841	134	12,923	3,231	556	13,040	12,387	12,704
2007	4.89%	779	110	12,385	3,769	666	12,387	11,718	12,043
2008	4.52%	720	88	11,848	4,308	754	11,718	11,082	11,405
2009	4.46%	710	84	11,308	4,848	838	11,082	10,470	10,781
2010	4.46%	710	84	10,769	5,385	922	10,470	9,847	10,158
2011	4.46%	710	84	10,231	5,923	1,006	9,847	9,225	9,536
2012	4.46%	710	84	9,692	6,461	1,090	9,225	8,602	8,913
2013	4.46%	710	84	9,154	7,000	1,174	8,602	7,980	8,291
2014	4.46%	710	84	8,615	7,538	1,258	7,980	7,357	7,668
2015	4.46%	710	84	8,077	8,077	1,342	7,357	6,735	7,046
2016	4.46%	710	84	7,538	8,615	1,426	6,735	6,112	6,424
2017	4.46%	710	84	7,000	9,154	1,510	6,112	5,490	5,801
2018	4.46%	710	84	6,461	9,692	1,594	5,490	4,867	5,179
2019	4.46%	710	84	5,923	10,231	1,678	4,867	4,245	4,556
2020	4.46%	710	84	5,385	10,769	1,762	4,245	3,622	3,934
2021	2.25%	358	(32)	4,846	11,308	1,710	3,622	3,136	3,379
2022	0.00%	0	(190)	4,308	11,848	1,520	3,136	2,767	2,952
2023	0.00%	0	(190)	3,769	12,385	1,330	2,767	2,439	2,613
2024	0.00%	0	(190)	3,231	12,923	1,140	2,439	2,090	2,266
2025	0.00%	0	(190)	2,692	13,461	950	2,090	1,742	1,917
2026	0.00%	0	(190)	2,154	14,000	760	1,742	1,394	1,568
2027	0.00%	0	(100)	1,615	14,538	570	1,394	1,045	1,219
2028	0.00%	0	(190)	1,077	15,077	380	1,045	697	871
2029	0.00%	0	(190)	538	15,615	190	697	348	523
2030	0.00%	0	(190)	0	16,154	0	348	0	174

* Column not specified in workbook

PSC FORM CE 1.1B
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(1) YEAR	(2) NO.YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING ($/kW	(7) CUMULATIVE AVERAGE SPENDING ($/kW)
1994						
1995	-7	0.00%	1.000	0.00%	0.00	0.00
1996	-6	2.80%	1.028	0.00%	0.00	0.00
1997	-5	2.82%	1.053	0.84%	4.82	2.48
1998	-4	3.15%	1.086	1.66%	10.03	8.83
1999	-3	3.62%	1.126	13.00%	81.36	55.62
2000	-2	2.85%	1.159	60.50%	383.17	202.88
	-1	3.88%	1.214	24.00%	182.01	570.47
				100.00%	661.48	

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 ($/kW)	(10) NCREMENTA YEAR-END BOOK VALUE ($/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE ($/kW)
1994												
1995	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-5	2.48	0.11	0.11	0.27	0.27	0.25	0.25	(0.05)	(0.05)	5.19	5.19
1998	-4	10.20	0.45	0.56	1.12	1.39	1.02	1.26	(0.22)	(0.27)	11.14	16.33
1999	-3	57.01	2.52	3.08	6.25	7.64	5.69	6.95	(1.22)	(1.49)	87.61	103.94
2000	-2	300.52	13.29	16.27	32.98	40.62	29.96	36.94	(6.44)	(7.93)	426.15	530.09
	-1	611.10	27.24	43.61	67.60	108.22	60.74	97.68	(12.92)	(20.86)	229.81	759.70
			43.61	63.72	108.22		97.68		(20.86)		759.70	

SI SERVICE YEA	2001
PLANT COSTS	556
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	13,853	13,853	13,853
EQUITY AFUDC	1,374		
DEBT AFUDC	927	927	
CPI			2,077
TOTAL	16,154	14,780	15,930

* Column not specified in workbook

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INPUT DATA – PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME TI01R - GS LOAD CONTROL

PSC FORM CE 1.2
PAGE 1 OF 1

(1) YEAR	(2) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (CAWN)	(5) AVOIDED MARGINAL FUEL COST (CAWN)	(6)* INCREASED MARGINAL FUEL COST (CAWN)	(7) REPLACEMENT FUEL COST (CAWN)	(8) PROGRAM kW EFFECTIVENESS FACTOR	(9) PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.82	1.89	0.00	1.00	1.00
1995	0	0	0.00	4.89	1.92	0.00	1.00	1.00
1996	0	0	0.00	5.06	1.92	0.00	1.00	1.00
1997	4,140	4,140	0.00	5.82	2.03	0.00	1.00	1.00
1998	8,974	8,974	0.00	6.01	2.04	0.00	1.00	1.00
1999	13,807	13,807	0.00	7.19	2.19	0.00	1.00	1.00
2000	18,641	18,641	0.00	7.25	2.43	0.00	1.00	1.00
2001	18,641	18,641	0.00	7.78	2.52	5.01	1.00	1.00
2002	18,641	18,641	0.00	8.29	2.59	5.43	1.00	1.00
2003	18,641	18,641	0.00	9.13	2.77	5.37	1.00	1.00
2004	18,641	18,641	0.00	9.86	2.84	5.66	1.00	1.00
2005	18,641	18,641	0.00	10.69	3.14	5.89	1.00	1.00
2006	18,641	18,641	0.00	11.33	3.30	6.32	1.00	1.00
2007	18,641	18,641	0.00	13.55	3.57	6.65	1.00	1.00
2008	18,641	18,641	0.00	13.29	3.61	7.04	1.00	1.00
2009	18,641	18,641	0.00	13.21	3.92	7.57	1.00	1.00
2010	18,641	18,641	0.00	14.48	4.18	8.37	1.00	1.00
2011	18,641	18,641	0.00	15.29	4.14	8.53	1.00	1.00
2012	18,641	18,641	0.00	15.93	4.53	8.96	1.00	1.00
2013	18,641	18,641	0.00	16.92	4.62	9.57	1.00	1.00
2014	18,641	18,641	0.00	17.89	4.89	10.14	1.00	1.00
2015	18,641	18,641	0.00	18.77	5.18	10.81	1.00	1.00
2016	18,641	18,641	0.00	19.82	5.39	11.12	1.00	1.00
2017	18,641	18,641	0.00	20.86	5.68	11.73	1.00	1.00
2018	18,641	18,641	0.00	20.86	5.92	12.38	1.00	1.00
2019	18,641	18,641	0.00	22.02	6.19	13.06	1.00	1.00
2020	18,641	18,641	0.00	23.24	6.48	13.77	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 TI01R - GS LOAD CONTROL

PSC FORM CE 2.1
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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	3,278	567	23.033	3,162	4,835	2,213
2002	3,173	614	25.080	3,585	5,451	1,946
2003	3,056	642	26.490	3,830	5,447	2,208
2004	2,945	670	27.802	4,297	6,084	1,857
2005	2,831	700	27.238	4,268	5,830	2,203
2006	2,735	733	25.044	3,950	5,304	2,138
2007	2,635	768	22.188	3,586	4,722	2,270
2008	2,540	806	20.755	3,409	4,459	2,316
2009	2,448	848	23.042	3,834	5,070	2,079
2010	2,353	889	24.142	4,046	5,567	1,720
2011	2,259	935	17.855	3,029	4,003	2,237
2012	2,166	985	14.510	2,472	3,264	2,383
2013	2,072	1,037	14.725	2,522	3,341	2,305
2014	1,979	1,092	16.004	2,755	3,669	2,172
2015	1,885	1,149	16.780	3,232	4,225	2,060
2016	1,792	1,208	17.853	3,083	4,084	2,037
2017	1,699	1,271	16.168	3,113	4,128	1,972
2018	1,605	1,337	16.812	3,228	4,304	1,883
2019	1,511	1,407	20.501	3,483	4,678	1,744
2020	1,418	1,480	21.544	3,649	4,929	1,639
NOM	48,381	18,154	423.906	68,811	93,164	41,386
NPV	13,710	4,404	119.508	18,773	25,593	11,114

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME TI01R - GS LOAD CONTROL

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	525	0	0	525	0	216	3	0	219	(306)	(235)
1998	0	680	0	0	680	0	477	9	0	487	(393)	(511)
1999	0	1,167	0	0	1,167	0	749	20	0	769	(418)	(780)
2000	0	1,493	0	0	1,493	0	1,032	28	0	1,060	(433)	(1,035)
2001	0	1,067	0	0	1,067	2,213	1,035	35	0	3,283	2,186	144
2002	0	1,089	0	0	1,089	1,846	1,036	38	0	3,020	1,931	1,087
2003	0	880	0	0	880	2,208	1,040	42	0	3,290	2,410	2,188
2004	0	843	0	0	843	1,857	1,045	46	0	2,947	2,304	3,140
2005	0	415	0	0	415	2,203	1,051	49	0	3,304	2,889	4,234
2006	0	131	0	0	131	2,138	1,061	52	0	3,252	3,120	5,317
2007	0	137	0	0	137	2,270	1,072	64	0	3,405	3,268	6,355
2008	0	143	0	0	143	2,318	1,096	62	0	3,483	3,339	7,321
2009	0	149	0	0	149	2,079	1,102	61	0	3,242	3,092	8,144
2010	0	156	0	0	156	1,724	1,120	67	0	2,912	2,756	8,816
2011	0	163	0	0	163	2,[illegible]	1,141	71	0	3,450	3,287	9,549
2012	0	171	0	0	171	2,363	1,165	74	0	3,621	3,450	10,254
2013	0	180	0	0	180	2,305	1,190	79	0	3,574	3,395	10,889
2014	0	188	0	0	188	2,172	1,218	83	0	3,474	3,286	11,452
2015	0	198	0	0	198	2,060	1,247	87	0	3,394	3,196	11,954
2016	0	207	0	0	207	2,037	1,278	93	0	3,408	3,201	12,413
2017	0	217	0	0	217	1,972	1,312	97	0	3,382	3,165	416
2018	0	228	0	0	228	1,883	1,350	97	0	3,330	3,101	373
2019	0	239	0	0	239	1,744	1,392	102	0	3,238	2,999	330
2020	0	251	0	0	251	1,639	1,439	108	0	3,186	2,935	296
NOM	0	10,969	0	0	10,969	41,388	25,856	1,467	0	68,708	57,739	
NPV	0	5,129	0	0	5,129	11,114	7,489	356	0	18,958	13,829	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 3.70

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PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: TIO1R - GS LOAD CONTROL

PSC FORM CE 2.4
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	6	0	97	0	102	0	0	0	0	102	78
1998	18	0	306	0	324	0	0	0	0	324	306
1999	32	0	532	0	563	0	0	0	0	563	668
2000	46	0	757	0	803	0	0	0	0	803	1,141
2001	55	0	870	0	925	0	0	0	0	925	1,640
2002	58	0	870	0	928	0	0	0	0	928	2,096
2003	61	0	870	0	931	0	0	0	0	931	2,519
2004	63	0	870	0	933	0	0	0	0	933	2,905
2005	65	0	870	0	935	0	0	0	0	935	3,259
2006	69	0	870	0	938	0	0	0	0	938	3,585
2007	72	0	870	0	942	0	0	0	0	942	3,884
2008	75	0	870	0	945	0	0	0	0	945	4,159
2009	79	0	870	0	949	0	0	0	0	949	4,412
2010	82	0	870	0	952	0	0	0	0	952	4,644
2011	87	0	870	0	957	0	0	0	0	957	4,857
2012	90	0	870	0	960	0	0	0	0	960	5,053
2013	96	0	870	0	966	0	0	0	0	966	5,234
2014	101	0	870	0	971	0	0	0	0	971	5,400
2015	104	0	870	0	974	0	0	0	0	974	5,553
2016	110	0	870	0	980	0	0	0	0	980	5,694
2017	116	0	870	0	986	0	0	0	0	986	130
2018	121	0	870	0	991	0	0	0	0	991	119
2019	125	0	870	0	995	0	0	0	0	995	110
2020	132	0	870	0	1,002	0	0	0	0	1,002	101
NOM	1,882	0	19,080	0	20,962	0	0	0	0	20,962	
NPV	472	0	5,681	0	6,153	0	0	0	0	6,153	

In Service of Gen Unit:	2001
Discount Rate :	9.22
Benefit/Cost Ratio (Col(6) / Col(10))	Infinite

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III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

GS RATE CLASS	GS-LC	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$100	* Excludes capital costs.
(2) UTILITY RECURRING COST PER CUSTOMER	$0	
(4) CUSTOMER EQUIPMENT COST	$0	
(6) CUSTOMER O&M COST	$0	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0	
(13) UTILITY RECURRING REBATE/INCENTIVE	$56	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0%	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0%	*

* Values apply to first year only.

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME T04R - GS Load Control

01/26/95

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0
2001	264	41	0	305	2	0	0	0	0	0
2002	303	110	0	412	5	0	0	0	0	0
2003	291	151	0	441	8	0	0	0	0	0
2004	233	164	0	397	9	0	0	0	0	0
2005	221	164	0	386	9	0	0	0	0	0
2006	233	164	0	397	10	0	0	0	0	0
2007	134	164	0	299	10	0	0	0	0	0
2008	66	164	0	230	10	0	0	0	0	0
2009	28	164	0	192	11	0	0	0	0	0
2010	29	164	0	194	11	0	0	0	0	0
2011	31	164	0	195	12	0	0	0	0	0
2012	32	164	0	197	13	0	0	0	0	0
2013	34	164	0	198	13	0	0	0	0	0
2014	36	164	0	200	14	0	0	0	0	0
2015	37	164	0	202	15	0	0	0	0	0
2016	39	164	0	203	15	0	0	0	0	0
2017	41	164	0	205	16	0	0	0	0	0
2018	43	164	0	207	17	0	0	0	0	0
2019	45	164	0	209	17	0	0	0	0	0
2020	47	164	0	212	18	0	0	0	0	0
2021	50	164	0	214	20	0	0	0	0	0
2022	52	164	0	217	21	0	0	0	0	0
NOM	2,291	3,422	0	5,713	277	0	0	0	0	0
NPV	826	799	0	1,627	56	0	0	0	0	0

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

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CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME TI04R - G.S Load Control

01/28/96

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YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
2004	3,453	152	26	199	139	55	114	9	694	694	694
2005	3,308	146	25	191	88	55	114	84	672	615	1,309
2006	3,154	139	24	181	86	55	114	(7	647	543	1,851
2007	2,988	131	23	172	86	55	114	(0	624	479	2,330
2008	2,835	125	22	163	88	55	114	34	601	422	2,752
2009	2,680	118	20	155	88	55	114	26	579	373	3,125
2010	2,550	112	19	147	87	55	114	23	558	329	3,453
2011	2,415	106	18	139	88	55	114	19	536	290	3,743
2012	2,283	100	17	131	82	55	114	18	518	258	3,999
2013	2,151	95	16	124	78	55	114	18	496	225	4,224
2014	2,019	89	15	116	71	55	114	18	478	198	4,422
2015	1,887	83	14	109	68	55	114	18	459	174	4,596
2016	1,758	77	13	101	60	55	114	18	439	152	4,748
2017	1,624	71	12	94	55	55	114	18	419	133	4,881
2018	1,492	66	11	86	49	55	114	18	399	116	4,997
2019	1,360	60	10	78	44	55	114	18	379	101	5,098
2020	1,228	54	9	71	39	55	114	18	360	88	5,186
2021	1,097	48	8	63	33	55	114	18	340	76	5,262
2022	965	42	7	56	28	55	114	18	320	65	5,327
2023	833	37	6	48	22	55	114	18	300	56	5,384
2024	718	31	5	41	46	55	114	(11)	283	48	5,432
2025	627	28	5	36	72	55	114	(40)	269	42	5,474
2026	553	24	4	32	69	55	114	(40)	258	37	5,511
2027	480	21	4	28	66	55	114	(40)	247	32	5,544
2028	406	18	3	23	63	55	114	(40)	236	28	5,572
2029	332	15	3	19	60	55	114	(40)	225	25	5,597
2030	258	11	2	15	57	55	114	(40)	214	22	5,619
2031	184	8	1	11	54	55	114	(40)	203	19	5,637
2032	111	5	1	6	51	55	114	(40)	192	16	5,654
2033	37	2	0	2	48	55	114	(40)	181	14	5,668

IN SERVICE COST ($000)	0
IN SERVICE YEAR	2004
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.85688

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:T04R - GS Load Control

01/28/95

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(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION $(000)	(4) ACCUMULATED TAX DEPRECIATION $(000)	(5) BOOK DEPRECIATION $(000)	(6) ACCUMULATED BOOK DEPRECIATION $(000)	(7) BOOK DEPRECIATION FOR DEFERRED TAX $(000)	(8) ACCUMULATED BOOK DEPR FOR DEFERRED TAX $(000)	(9) DEFERRED TAX DUE TO DEPRECIATION $(000)	(10) TOTAL EQUITY AFUDC $(000)	(11) BOOK DEPR RATE MINUS 1/LIFE	(12) (10)*(11) *TAX RATE $(000)	(13) SALVAGE *TAX RATE $(000)	(14) ANNUAL DEFERRED TAX (9)-(12)+(13) $(000)
2004	3.75%	126	126	114	114	104	104	9	291	0	0	0	9
2005	7.22%	244	370	114	228	104	209	54	291	0	0	0	54
2006	6.68%	225	595	114	342	104	313	47	291	0	0	0	47
2007	6.18%	208	804	114	456	104	417	40	291	0	0	0	40
2008	5.71%	193	996	114	570	104	522	34	291	0	0	0	34
2009	5.28%	178	1,175	114	684	104	626	29	291	0	0	0	29
2010	4.89%	165	1,339	114	798	104	730	23	291	0	0	0	23
2011	4.52%	152	1,492	114	912	104	835	19	291	0	0	0	19
2012	4.46%	150	1,642	114	1,026	104	939	18	291	0	0	0	18
2013	4.46%	150	1,793	114	1,140	104	1,043	18	291	0	0	0	18
2014	4.46%	150	1,943	114	1,254	104	1,148	18	291	0	0	0	18
2015	4.46%	150	2,094	114	1,368	104	1,252	18	291	0	0	0	18
2016	4.46%	150	2,244	114	1,482	104	1,356	18	291	0	0	0	18
2017	4.46%	150	2,395	114	1,596	104	1,461	18	291	0	0	0	18
2018	4.46%	150	2,545	114	1,710	104	1,565	18	291	0	0	0	18
2019	4.46%	150	2,696	114	1,824	104	1,669	18	291	0	0	0	18
2020	4.46%	150	2,846	114	1,938	104	1,774	18	291	0	0	0	18
2021	4.46%	150	2,996	114	2,052	104	1,879	18	291	0	0	0	18
2022	4.46%	150	3,147	114	2,166	104	1,982	18	291	0	0	0	18
2023	4.46%	150	3,297	114	2,280	104	2,087	18	291	0	0	0	18
2024	2.25%	76	3,373	114	2,394	104	2,191	(11)	291	0	0	0	(11)
2025	0.00%	0	3,373	114	2,508	104	2,295	(40)	291	0	0	0	(40)
2026	0.00%	0	3,373	114	2,622	104	2,400	(40)	291	0	0	0	(40)
2027	0.00%	0	3,373	114	2,737	104	2,504	(40)	291	0	0	0	(40)
2028	0.00%	0	3,373	114	2,851	104	2,608	(40)	291	0	0	0	(40)
2029	0.00%	0	3,373	114	2,965	104	2,712	(40)	291	0	0	0	(40)
2030	0.00%	0	3,373	114	3,079	104	2,817	(40)	291	0	0	0	(40)
2031	0.00%	0	3,373	114	3,193	104	2,921	(40)	291	0	0	0	(40)
2032	0.00%	0	3,373	114	3,307	104	3,025	(40)	291	0	0	0	(40)
2033	0.00%	0	3,373	114	3,421	104	3,130	(40)	291	0	0	0	(40)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2029
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(94)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	291
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

01/25/95

(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)
1994	-10	0.00%	1.000	0.00%	0.00	0.00
1995	-9	2.60%	1.026	0.00%	0.00	0.00
1996	-8	2.63%	1.053	0.00%	0.00	0.00
1997	-7	3.15%	1.086	0.00%	0.00	0.00
1998	-6	3.62%	1.126	0.00%	0.00	0.00
1999	-5	3.85%	1.169	0.84%	5.46	2.73
2000	-4	3.89%	1.214	1.66%	11.21	11.06
2001	-3	3.83%	1.262	13.00%	91.21	62.27
2002	-2	3.88%	1.311	60.50%	440.92	328.33
2003	-1	3.95%	1.363	24.00%	181.82	639.70
				100.00%	730.61	

YEAR	NO.YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* 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)
1994	-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	2.73	0.12	0.12	0.30	0.30	0.27	0.27	(0.06)	(0.06)	5.76	5.76
2000	-4	11.39	0.50	0.62	1.25	1.55	1.13	1.41	(0.24)	(0.30)	12.45	18.21
2001	-3	63.81	2.82	3.44	7.00	8.55	6.37	7.77	(1.37)	(1.67)	98.21	116.42
2002	-2	336.58	14.90	18.34	36.97	45.52	33.81	41.38	(7.22)	(8.89)	477.89	594.31
2003	-1	685.21	30.54	48.88	75.80	121.31	88.11	108.49	(14.49)	(23.38)	257.81	851.92
			48.88	71.41	121.31		109.49		(23.38)		851.92	

IN SERVICE YEA	2004
PLANT COSTS	558
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	2,934	2,934	2,934
EQUITY AFUDC	291		
DEBT AFUDC	196	196	
CPI			440
TOTAL	3,421	3,130	3,374

* Column not specified in workbook

INPUT DATA -- PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME TI04R - GS Load Control

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PAGE 1 OF 1

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (CAWh)	AVOIDED MARGINAL FUEL COST (CAWh)	INCREASED MARGINAL FUEL COST (CAWh)	REPLACEMENT FUEL COST (CAWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
1994	0	0	0.00	3.82	1.89	0.00	1.00	1.00
1995	0	0	0.00	4.89	1.92	0.00	1.00	1.00
1996	0	0	0.00	5.06	1.92	0.00	1.00	1.00
1997	0	0	0.00	5.62	2.03	0.00	1.00	1.00
1998	0	0	0.00	6.01	2.04	0.00	1.00	1.00
1999	0	0	0.00	7.19	2.10	0.00	1.00	1.00
2000	0	0	0.00	7.25	2.43	0.00	1.00	1.00
2001	1,760	1,760	0.00	7.78	2.52	0.00	1.00	1.00
2002	2,933	2,933	0.00	8.29	2.59	0.00	1.00	1.00
2003	3,520	3,520	0.00	9.13	2.77	0.00	1.00	1.00
2004	3,520	3,520	0.00	9.89	2.84	5.85	1.00	1.00
2005	3,520	3,520	0.00	10.69	3.14	5.89	1.00	1.00
2006	3,520	3,520	0.00	11.33	3.30	6.32	1.00	1.00
2007	3,520	3,520	0.10	13.55	3.57	6.55	1.00	1.00
2008	3,520	3,520	0.00	13.29	3.81	7.04	1.00	1.00
2009	3,520	3,520	0.00	13.21	3.92	7.57	1.00	1.00
2010	3,520	3,520	0.00	14.48	4.18	8.37	1.00	1.00
2011	3,520	3,520	0.00	15.29	4.14	8.53	1.00	1.00
2012	3,520	3,520	0.00	15.93	4.53	8.98	1.00	1.00
2013	3,520	3,520	0.00	16.92	4.82	9.57	1.00	1.00
2014	3,520	3,520	0.00	17.89	4.88	10.14	1.00	1.00
2015	3,520	3,520	0.00	18.77	5.18	10.51	1.00	1.00
2016	3,520	3,520	0.00	19.82	5.39	11.12	1.00	1.00
2017	3,520	3,520	0.00	20.86	5.88	11.73	1.00	1.00
2018	3,520	3,520	0.00	20.86	5.95	12.38	1.00	1.00
2019	3,520	3,520	0.00	22.02	6.25	13.06	1.00	1.00
2020	3,520	3,520	0.00	23.24	6.57	13.77	1.00	1.00
2021	3,520	3,520	0.00	24.52	6.90	14.53	1.00	1.00
2022	3,520	3,520	0.00	25.88	7.25	15.32	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

(1572)

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: T104R - GS Load Control

01/26/95

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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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	684	127	5	811	1,149	488
2005	672	132	5	806	1,063	552
2006	647	138	5	746	1,002	536
2007	624	145	4	673	892	554
2008	601	152	4	644	842	559
2009	579	160	4	724	957	510
2010	558	156	5	794	1,055	439
2011	536	177	3	572	756	634
2012	518	186	3	467	615	559
2013	498	196	3	476	631	542
2014	478	206	3	520	693	515
2015	459	217	4	610	798	492
2016	439	228	3	582	767	485
2017	419	240	3	588	780	471
2018	399	253	4	609	813	452
2019	379	266	4	658	883	423
2020	360	279	4	699	921	401
2021	340	294	4	704	957	385
2022	320	309	4	726	993	367
NOM	9,521	3,872	74	12,370	16,575	9,253
NPV	2,205	713	16	2,680	3,596	2,018

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TOTAL RESOURCE COST TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME TI04R - GS Load Control

01/26/95

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PAGE 1 OF 1

(1) YEAR	(2) INCREASED SUPPLY COSTS $(000)	(3) UTILITY PROGRAM COSTS $(000)	(4) PARTICIPANT PROGRAM COSTS $(000)	(5) OTHER COSTS $(000)	(6) TOTAL COSTS $(000)	(7) AVOIDED GEN UNIT BENEFITS $(000)	(8) AVOIDED T&D BENEFITS $(000)	(9) PROGRAM FUEL SAVINGS $(000)	(10) OTHER BENEFITS $(000)	(11) TOTAL BENEFITS $(000)	(12) NET BENEFITS $(000)	(13) CUMULATIVE DISCOUNTED NET BENEFITS $(000)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	264	0	0	264	0	116	2	0	117	(147)	(79)
2002	0	303	0	0	303	0	196	5	0	201	(102)	(129)
2003	0	291	0	0	291	0	238	7	0	245	(46)	(150)
2004	0	233	0	0	233	466	227	9	0	734	501	57
2005	0	221	0	0	221	552	237	9	0	798	577	276
2006	0	233	0	0	233	535	237	10	0	782	549	466
2007	0	134	0	0	134	554	238	12	0	805	671	679
2008	0	66	0	0	66	559	240	12	0	810	744	896
2009	0	28	0	0	28	510	242	11	0	763	735	1,081
2010	0	29	0	0	29	439	245	13	0	697	667	1,254
2011	0	31	0	0	31	534	248	13	0	795	764	1,425
2012	0	32	0	0	32	559	251	14	0	824	792	1,586
2013	0	34	0	0	34	542	255	15	0	812	778	1,732
2014	0	36	0	0	36	515	260	16	0	790	755	1,861
2015	0	37	0	0	37	492	264	16	0	772	735	1,977
2016	0	39	0	0	39	485	269	17	0	772	733	2,082
2017	0	41	0	0	41	471	275	18	0	764	723	2,177
2018	0	43	0	0	43	452	281	18	0	751	708	2,262
2019	0	45	0	0	45	423	288	19	0	730	685	2,338
2020	0	47	0	0	47	401	295	20	0	717	669	2,405
2021	0	50	0	0	50	365	303	21	0	689	639	2,466
2022	0	52	0	0	52	367	311	23	0	701	649	2,521
												#VALUE!
NOM	0	2,291	0	0	2,291	9,283	5,527	302	0	15,091	12,800	
NPV	0	828	0	0	828	2,018	1,271	59	0	3,349	2,521	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)): 4.06

PARTICIPANT COSTS AND BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME TI04R - GS Load Control

01/28/95

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PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	41	0	44	0	0	0	0	44	24
2002	7	0	110	0	117	0	0	0	0	117	58
2003	11	0	151	0	161	0	0	0	0	161	73
2004	12	0	164	0	176	0	0	0	0	176	73
2005	12	0	164	0	177	0	0	0	0	177	67
2006	13	0	164	0	177	0	0	0	0	177	61
2007	14	0	164	0	178	0	0	0	0	178	57
2008	14	0	164	0	178	0	0	0	0	178	52
2009	15	0	164	0	179	0	0	0	0	179	48
2010	15	0	164	0	180	0	0	0	0	180	44
2011	16	0	164	0	181	0	0	0	0	181	40
2012	17	0	164	0	181	0	0	0	0	181	37
2013	18	0	164	0	182	0	0	0	0	182	34
2014	19	0	164	0	183	0	0	0	0	183	31
2015	20	0	164	0	184	0	0	0	0	184	29
2016	21	0	164	0	185	0	0	0	0	185	27
2017	22	0	164	0	186	0	0	0	0	186	24
2018	23	0	164	0	187	0	0	0	0	187	23
2019	24	0	164	0	188	0	0	0	0	188	21
2020	25	0	164	0	189	0	0	0	0	189	19
2021	26	0	164	0	191	0	0	0	0	191	18
2022	28	0	164	0	192	0	0	0	0	192	16
NOM	374	0	3,422	0	3,797	0	0	0	0	3,797	
NPV	75	0	799	0	874	0	0	0	0	874	

In Service of Gen Unit:	2004
Discount Rate :	9.22
Benefit/Cost Ratio (Col(6) / Col(10))	Infinite

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01/25/95

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME TI04R - GS Load Control

PSC FORM CE 2.5
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	264	41	2	0	307	2	116	0	0	117	(190)	(102)
2002	0	303	110	5	0	418	5	196	0	0	201	(217)	(107)
2003	0	291	151	8	0	449	7	238	0	0	245	(204)	(92)
2004	0	233	164	9	0	406	497	237	0	0	734	328	136
2005	0	221	164	9	0	395	561	237	3	0	798	404	153
2006	0	233	164	10	0	407	544	237	0	0	782	375	130
2007	0	134	164	10	0	309	568	236	0	0	805	496	158
2008	0	66	164	10	0	241	570	240	0	0	810	569	166
2009	0	28	164	11	0	203	521	242	0	0	763	560	148
2010	0	29	164	11	0	205	452	245	0	0	697	491	120
2011	0	31	164	12	0	207	547	248	0	0	795	588	131
2012	0	32	164	13	0	209	573	251	0	0	824	615	126
2013	0	34	164	13	0	212	557	255	0	0	812	601	112
2014	0	36	164	14	0	214	531	260	0	0	790	576	99
2015	0	37	164	15	0	216	508	264	0	0	772	556	87
2016	0	39	164	15	0	218	503	269	0	0	772	553	79
2017	0	41	164	16	0	222	480	275	0	0	754	543	71
2018	0	43	164	17	0	224	470	281	0	0	751	527	63
2019	0	45	164	17	0	227	443	288	0	0	730	503	55
2020	0	47	164	18	0	230	422	295	0	0	717	486	49
2021	0	50	164	20	0	234	407	303	0	0	709	476	44
2022	0	52	164	21	0	237	390	311	0	0	701	464	39
NOM.	0	2,291	3,422	277	0	5,990	9,585	5,527	0	0	15,091	9,101	
NPV	0	828	709	56	0	1,682	2,077	1,271	0	0	3,348	1,666	

Discount Rate 9.22

Benefit/Cost Ratio (Col(12) / Col(7)) : 1.99

1577

III. UTILITY & CUSTOMER COSTS (1993$ PER CUSTOMER)

GS RATE CLASS	GS-LC	
(1) UTILITY NON RECURRING COST PER CUSTOMER	$100	* Excludes capital
(2) UTILITY RECURRING COST PER CUSTOMER	$0	
(4) CUSTOMER EQUIPMENT COST	$0	
(6) CUSTOMER O&M COST	$0	
(12) UTILITY NON RECURRING REBATE/INCENTIVE	$0	
(13) UTILITY RECURRING REBATE/INCENTIVE	$56	
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	0%	

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

	CPI	PPI-CAP
1993	3.3%	2.2%
1994	3.4%	2.7%
1995	3.4%	2.3%
1996	3.5%	2.3%
1997	3.8%	2.9%
1998	4.2%	3.4%
1999	4.5%	3.6%
2000	4.6%	3.6%
2001	4.8%	3.6%
2002	4.6%	3.6%
2003	4.6%	3.7%
2004	4.4%	3.8%
2005	4.5%	3.9%
2006	4.7%	4.0%
2007	4.7%	4.2%
2008	4.9%	4.3%
2009	5.0%	4.4%
2010	5.1%	4.4%
2011	5.2%	4.5%
2012	5.3%	4.6%
2013	5.3%	4.5%
2014	5.3%	4.5%
2015-2023	5.2%	4.5%

V. NON-FUEL ENERGY AND DEMAND CHARGES

	GS	
(1) NON FUEL COST IN CUSTOMER BILL	4.563	(1995 c/kWh)
(2) NON-FUEL ESCALATION RATE	0 %	*
(3) DEMAND CHARGE IN CUSTOMER BILL	0	(1995 $/kW-MONTH)
(4) DEMAND CHARGE ESCALATION RATE	0 %	*

* Values apply to first year only.

INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME:GSDLC97 - GSD Load Control

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I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER	2.80	kW
(2) GENERATOR kW REDUCTION PER CUSTOMER	3.88	kW
(3) kW LINE LOSS PERCENTAGE	10.58	%
(4) GENERATOR kWh REDUCTION PER CUSTOMER	99.8	kWh *****
(5) kWh LINE LOSS PERCENTAGE	7.82	%
(6) GROUP LINE LOSS MULTIPLIER	1.0000	
(7) CUSTOMER kWh INCREASE AT METER	21.3	kWh *****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	23	YEARS
(2) GENERATOR ECONOMIC LIFE	30	YEARS
(3) T&D ECONOMIC LIFE	35	YEARS
(4) K FACTOR FOR GENERATION	1.84957	
(5) K FACTOR FOR T & D	1.66887	

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	8.22	%
* (11) UTILITY AFUDC RATE	10.92	%
* (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	1994	
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	1997	
(3) IN-SERVICE YEAR FOR AVOIDED T&D	1994-1998	
(4) BASE YEAR AVOIDED GENERATING COST	302	$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0	$/kW
(6) BASE YEAR DISTRIBUTION COST	0	$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE	2.80	%**
(8) GENERATOR FIXED O & M COST	24	$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	3.40	%**
(10) TRANSMISSION FIXED O & M COST	0.00	$/kW
(11) DISTRIBUTION FIXED O & M COST	0.00	$/kW
(12) T&D FIXED O&M ESCALATION RATE	3.40	%**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.011	CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	3.40	%**
(15) GENERATOR CAPACITY FACTOR	0%	** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST	3.72	CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	6.34	%**

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 12
**** ITEM IS NOT APPLICABLE FOR THIS DSM PROGRAM
***** THIS PROGRAM IS PRIMARILY A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUSTOMER SHIFTED AWAY FROM PEAK HOURS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUSTOMER THAT IS PAID AFTER ADJUSTING ONE OF THESE NUMBERS TO PLACE BOTH AT THE METER OR AT THE GENERATOR, THE DIFFERENCE BETWEEN THE TWO IS THE ANNUAL KWH/CUSTOMER REDUCTION

* INPUT DATA – PART 1 CONTINUED
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME GSDLC97 - GSD Load Control

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)
1994	0	0	0	0	0	0	0	0	0	0
1995	883	65	0	948	2	1	0	0	0	0
1996	217	130	0	347	4	2	0	0	0	0
1997	205	130	0	335	4	2	0	0	0	0
1998	193	130	0	323	4	2	0	0	0	0
1999	182	130	0	312	4	2	0	0	0	0
2000	208	130	0	338	4	2	0	0	0	0
2001	20	130	0	150	4	2	0	0	0	0
2002	21	130	0	151	4	2	0	0	0	0
2003	21	130	0	152	5	2	0	0	0	0
2004	21	130	0	153	5	2	0	0	0	0
2005	24	130	0	154	5	3	0	0	0	0
2006	25	130	0	155	5	3	0	0	0	0
2007	26	130	0	156	6	3	0	0	0	0
2008	27	130	0	157	6	3	0	0	0	0
2009	28	130	0	158	6	3	0	0	0	0
2010	30	130	0	160	6	3	0	0	0	0
2011	31	130	0	161	7	3	0	0	0	0
2012	32	130	0	162	7	4	0	0	0	0
2013	34	130	0	164	7	4	0	0	0	0
2014	36	130	0	166	8	4	0	0	0	0
2015	38	130	0	168	8	4	0	0	0	0
2016	39	130	0	169	8	4	0	0	0	0
NOM	2,344	2,795	0	5,139	117	60	0	0	0	0
NPV	1,650	1,148	0	2,797	42	21	0	0	0	0

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

CALCULATION OF GEN K-FACTOR
PROGRAM METHOD SELECTED REV_REQ
PROGRAM NAME GSOLD97 - GSD Load Control

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PAGE 1 OF 2

YEAR	(2) MID-YEAR RATE BASE $(000)	(3) DEBT $(000)	(4) PREFERRED STOCK $(000)	(5) COMMON EQUITY $(000)	(6) INCOME TAXES $(000)	(7) OTHER TAXES & INSURANCE $(000)	(8) DEPREC. $(000)	(9) DEFERRED TAXES $(000)	(10) TOTAL FIXED CHARGES $(000)	(11) PRESENT WORTH FIXED CHARGES $(000)	(12) CUMULATIVE PW FIXED CHARGES $(000)
1997	1,801	79	14	104	72	29	60	4	362	362	362
1998	1,725	76	13	99	45	29	60	28	350	321	682
1999	1,639	72	12	94	46	29	60	24	337	283	965
2000	1,557	69	12	90	46	29	60	21	325	249	1,215
2001	1,478	65	11	85	46	29	60	18	313	220	1,435
2002	1,402	62	11	81	45	29	60	15	302	194	1,629
2003	1,329	58	10	77	45	29	60	12	291	171	1,800
2004	1,259	55	10	73	45	29	60	10	280	151	1,951
2005	1,190	52	9	69	42	29	60	9	270	133	2,085
2006	1,121	49	9	65	40	29	60	9	260	117	2,202
2007	1,052	46	8	61	37	29	60	9	249	103	2,305
2008	983	43	7	57	34	29	60	9	239	91	2,396
2009	915	40	7	53	31	29	60	9	229	79	2,475
2010	846	37	6	49	28	29	60	9	218	69	2,544
2011	777	34	6	45	25	29	60	9	208	60	2,605
2012	706	31	5	41	23	29	60	9	198	53	2,657
2013	640	28	5	37	20	29	60	9	187	46	2,703
2014	571	25	4	33	17	29	60	9	177	39	2,742
2015	502	22	4	29	14	29	60	9	167	34	2,776
2016	433	19	3	25	11	29	60	9	156	29	2,806
2017	372	16	3	21	24	29	60	(6)	147	25	2,831
2018	326	14	2	19	37	29	60	(21)	140	22	2,853
2019	288	13	2	17	36	29	60	(21)	134	19	2,872
2020	249	11	2	14	34	29	60	(21)	129	17	2,889
2021	211	9	2	12	33	29	60	(21)	123	15	2,904
2022	173	8	1	10	31	29	60	(21)	117	13	2,917
2023	134	6	1	8	30	29	60	(21)	111	11	2,928
2024	96	4	1	6	28	29	60	(21)	106	10	2,938
2025	58	3	0	3	26	29	60	(21)	100	8	2,946
2026	19	1	0	1	25	29	60	(21)	94	7	2,954

IN SERVICE COST($000)	0
IN SERVICE YEAR	1997
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	0.3783
DISCOUNT RATE	9.22%
OTAX & INS RATE	1.61%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST
DEBT	44%	10.00 %
P/S	8%	9.50 %
C/S	48%	12.00 %

K-FACTOR = CPWFC / IN-SVC COST = 1.64057

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME:GSDLC97 - GSD Load Control

PSC FORM CE 1.1A
PAGE 2a OF 2 * *the page not contained in workbook*

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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) $(001)
1997	3.75%	66	66	60	60	55	55	4	131	0	0	0	4
1998	7.22%	128	194	60	119	55	111	28	131	0	0	0	28
1999	6.68%	118	312	60	179	55	166	24	131	0	0	0	24
2000	6.18%	109	422	60	239	55	221	21	131	0	0	0	21
2001	5.71%	101	523	60	298	55	277	18	131	0	0	0	18
2002	5.28%	93	616	60	358	55	332	15	131	0	0	0	15
2003	4.89%	87	703	60	418	55	387	12	131	0	0	0	12
2004	4.52%	80	783	60	477	55	443	10	131	0	0	0	10
2005	4.46%	79	862	60	537	55	498	9	131	0	0	0	9
2006	4.46%	79	941	60	597	55	553	9	131	0	0	0	9
2007	4.46%	78	1,019	60	657	55	608	9	131	0	0	0	9
2008	4.42%	78	1,098	60	716	55	664	9	131	0	0	0	9
2009	4.46%	79	1,177	60	776	55	719	9	131	0	0	0	9
2010	4.46%	79	1,256	60	836	55	775	9	131	0	0	0	9
2011	4.46%	79	1,335	60	895	55	830	9	131	0	0	0	9
2012	4.46%	79	1,414	60	955	55	885	9	131	0	0	0	9
2013	4.46%	79	1,493	60	1,015	55	940	9	131	0	0	0	9
2014	4.46%	79	1,572	60	1,074	55	996	9	131	0	0	0	9
2015	4.46%	79	1,651	60	1,134	55	1,051	9	131	0	0	0	9
2016	4.46%	79	1,730	60	1,194	55	1,106	9	131	0	0	0	9
2017	2.25%	40	1,770	30	1,253	55	1,162	(8)	131	0	0	0	(8)
2018	0.00%	0	1,770	60	1,313	55	1,217	(21)	131	0	0	0	(21)
2019	0.00%	0	1,770	60	1,373	55	1,272	(21)	131	0	0	0	(21)
2020	0.00%	0	1,770	60	1,432	55	1,328	(21)	131	0	0	0	(21)
2021	0.00%	0	1,770	60	1,492	55	1,383	(21)	131	0	0	0	(21)
2022	0.00%	0	1,770	60	1,552	55	1,438	(21)	131	0	0	0	(21)
2023	0.00%	0	1,770	60	1,611	55	1,494	(21)	131	0	0	0	(21)
2024	0.00%	0	1,770	60	1,671	55	1,549	(21)	131	0	0	0	(21)
2025	0.00%	0	1,770	60	1,731	55	1,604	(21)	131	0	0	0	(21)
2026	0.00%	0	1,770	60	1,790	55	1,660	(21)	131	0	0	0	(21)

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2026
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(42)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	131
BOOK DEPR RATE - 1/USEFUL LIFE	0.00

page 4b

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION
PROGRAM METHOD SELECTED: REV_REQ

PROGRAM NAME GSOLDS7 - GSD Load Control

PSC FORM CE 1.1A
PAGE 2b OF 2

(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)
1997	3.75%	66	4	1,731	60	(38)	1,833	1,789	1,801
1998	7.22%	128	28	1,671	119	(10)	1,789	1,661	1,725
1999	6.68%	118	24	1,611	179	14	1,661	1,597	1,639
2000	6.18%	109	21	1,552	239	35	1,597	1,517	1,557
2001	5.71%	101	18	1,492	298	53	1,517	1,440	1,478
2002	5.29%	93	15	1,432	358	67	1,440	1,365	1,402
2003	4.89%	87	12	1,373	418	79	1,365	1,293	1,329
2004	4.52%	80	10	1,313	477	89	1,293	1,224	1,258
2005	4.46%	79	9	1,253	537	98	1,224	1,155	1,190
2006	4.46%	79	9	1,194	597	107	1,155	1,087	1,121
2007	4.46%	79	9	1,134	657	116	1,087	1,018	1,052
2008	4.46%	79	9	1,074	716	125	1,018	949	983
2009	4.46%	79	9	1,015	776	134	949	880	915
2010	4.46%	79	9	955	836	143	880	812	846
2011	4.46%	79	9	895	896	153	812	743	777
2012	4.46%	79	9	836	955	162	743	674	708
2013	4.46%	79	9	776	1,015	171	674	605	640
2014	4.46%	79	9	716	1,074	180	605	536	571
2015	4.46%	79	9	657	1,134	189	536	468	502
2016	4.46%	79	9	597	1,194	198	468	399	433
2017	2.25%	40	(6)	537	1,253	192	399	345	372
2018	0.00%	0	(21)	477	1,313	171	345	307	326
2019	0.00%	0	(21)	418	1,373	149	307	268	288
2020	0.00%	0	(21)	358	1,432	128	268	230	249
2021	0.00%	0	(21)	298	1,492	107	230	192	211
2022	0.00%	0	(21)	239	1,552	85	192	153	173
2023	0.00%	0	(21)	179	1,611	64	153	115	134
2024	0.00%	0	(21)	119	1,671	43	115	77	96
2025	0.00%	0	(21)	60	1,731	21	77	38	58
2026	0.00%	0	(21)	0	1,790	0	38	0	19

* 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)
1994	-3	0.00%	1.000	13.91%	54.53	27.27
1995	-2	2.80%	1.028	44.55%	179.18	144.12
1996	-1	2.83%	1.053	41.54%	171.47	310.45
				100.00%	405.18	

YEAR	(8) NO YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC ($/kW)	(9a)* DEBT AFUDC ($/kW)	(9b)* CUMULATIVE DEBT AFUDC ($/kW)	(9) YEARLY TOTAL AFUDC ($/kW)	(9a)* CUMULATIVE TOTAL AFUDC ($/kW)	(9b)* CONSTRUCTION PERIOD INTEREST ($/kW)	(9d)* 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)
1994	-3	27.27	1.20	1.20	2.98	2.98	2.73	2.73	(0.59)	(0.59)	57.51	57.51
1995	-2	147.10	6.50	7.70	16.13	19.11	14.68	17.41	(3.16)	(3.75)	195.31	252.82
1996	-1	338.55	15.06	22.76	37.38	56.48	33.69	51.10	(7.18)	(10.93)	206.85	461.67
			22.76	31.66	56.48		51.10		(10.93)		461.67	

IN SERVICE YEA	1997
PLANT COSTS	392
AFUDC RATE	10.92%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	1,571	1,571	1,571
EQUITY AFUDC	131		
DEBT AFUDC	88	88	
CPI			199
TOTAL	1,790	1,660	1,770

(1584)

* Column not specified in workbook

INPUT DATA -- PART 2
PROGRAM METHOD SELECTED : REV_REQ
PROGRAM NAME GSDLC97 - GSD Load Control

PSC FORM CE 1.2
PAGE 1 OF 1

(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
1994	0	0	0.00	3.82	1.89	0.00	1.00	1.00
1995	1,000	1,000	0.00	4.89	1.92	0.00	1.00	1.00
1996	1,000	1,000	0.00	5.06	1.92	0.00	1.00	1.00
1997	1,000	1,000	0.00	5.82	2.03	4.28	1.00	1.00
1998	1,000	1,000	0.00	6.01	2.04	4.25	1.00	1.00
1999	1,000	1,000	0.00	7.19	2.19	7.85	1.00	1.00
2000	1,000	1,000	0.00	7.25	2.43	8.21	1.00	1.00
2001	1,000	1,000	0.00	7.78	2.52	8.42	1.00	1.00
2002	1,000	1,000	0.00	8.29	2.59	8.98	1.00	1.00
2003	1,000	1,000	0.00	9.13	2.77	9.28	1.00	1.00
2004	1,000	1,000	0.00	9.88	2.84	9.50	1.00	1.00
2005	1,000	1,000	0.00	10.69	3.14	9.62	1.00	1.00
2006	1,000	1,000	0.00	11.33	3.30	9.52	1.00	1.00
2007	1,000	1,000	0.00	13.55	3.57	9.70	1.00	1.00
2008	1,000	1,000	0.00	13.29	3.61	10.06	1.00	1.00
2009	1,000	1,000	0.00	13.21	3.92	10.57	1.00	1.00
2010	1,000	1,000	0.00	14.48	4.18	10.88	1.00	1.00
2011	1,000	1,000	0.00	15.29	4.14	11.45	1.00	1.00
2012	1,000	1,000	0.00	15.93	4.53	12.84	1.00	1.00
2013	1,000	1,000	0.00	16.92	4.62	13.06	1.00	1.00
2014	1,000	1,000	0.00	17.89	4.86	13.71	1.00	1.00
2015	1,000	1,000	0.00	18.77	5.18	14.19	1.00	1.00
2016	1,000	1,000	0.00	19.82	5.39	15.01	1.00	1.00

* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.

0585

AVOIDED GENERATING BENEFITS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: GSOLC97 - GSO Load Control

FSC FORM CE 2.1
PAGE 1 OF 1

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)
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	302	102	0	0	0	0
1998	309	106	0	2	2	483
1999	337	111	0	2	2	458
2000	325	116	0	10	10	439
2001	313	122	0	1	1	441
2002	302	127	0	1	2	434
2003	291	133	0	1	2	428
2004	280	139	0	3	4	422
2005	270	145	0	5	8	417
2006	260	152	0	3	4	414
2007	249	159	0	3	4	411
2008	239	167	0	5	8	407
2009	229	175	0	5	8	405
2010	218	184	0	3	4	403
2011	208	194	0	12	14	400
2012	198	204	0	10	12	400
2013	187	215	0	14	17	398
2014	177	229	0	17	21	398
2015	167	238	0	18	21	400
2016	156	251	0	17	21	401
				21	26	402
NOM	5,118	3,267	0	153	196	6,340
NPV	2,153	1,075	0	40	56	3,213

0586

AVOIDED T&D AND PROGRAM FUEL SAVINGS
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME: GSDLC97 - GSD Load Control

PSC FORM CE 2.2
PAGE 1 OF 1

(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)	(9a)* PROGRAM FUEL SAVINGS OFF-PEAK PAYBACK $(000)
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	2	0
1996	0	0	0	0	0	0	5	0
1997	0	0	0	0	0	0	6	0
1998	0	0	0	0	0	0	6	0
1999	0	0	0	0	0	0	7	1
2000	0	0	0	0	0	0	7	1
2001	0	0	0	0	0	0	8	1
2002	0	0	0	0	0	0	8	1
2003	0	0	0	0	0	0	9	1
2004	0	0	0	0	0	0	10	1
2005	0	0	0	0	0	0	11	1
2006	0	0	0	0	0	0	11	1
2007	0	0	0	0	0	0	14	1
2008	0	0	0	0	0	0	13	1
2009	0	0	0	0	0	0	13	1
2010	0	0	0	0	0	0	14	1
2011	0	0	0	0	0	0	15	1
2012	0	0	0	0	0	0	16	1
2013	0	0	0	0	0	0	17	1
2014	0	0	0	0	0	0	18	1
2015	0	0	0	0	0	0	19	1
2016	0	0	0	0	0	0	20	1
NOM	0	0	0	0	0	0	249	17
NPV	0	0	0	0	0	0	82	8

1587

TOTAL RESOURCE [illegible] TEST
PROGRAM METHOD SEL[illegible] REV_REQ
PROGRAM NAME GSDLC97 - GSD Load Control

PSC FORM CE 2.3
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	883	0	0	883	0	0	1	0	2	(881)	(806)
1996	0	217	0	0	217	0	0	5	0	5	(212)	(964)
1997	0	205	0	0	205	483	0	5	0	488	283	(782)
1998	0	183	0	0	183	456	0	6	0	462	279	(593)
1999	0	182	0	0	182	439	0	7	0	446	264	(424)
2000	0	208	0	0	208	441	0	7	0	447	239	(283)
2001	0	20	0	0	20	43[illegible]	0	7	0	441	421	(50)
2002	0	21	0	0	21	428	0	8	0	436	415	149
2003	0	22	0	0	22	422	0	8	0	431	409	334
2004	0	23	0	0	23	417	0	9	0	426	403	501
2005	0	24	0	0	24	414	0	10	0	424	400	652
2006	0	25	0	0	25	411	0	11	0	421	396	790
2007	0	26	0	0	26	407	0	13	0	420	394	915
2008	0	27	0	0	27	405	0	12	0	417	390	1,028
2009	0	28	0	0	28	403	0	12	0	416	388	1,131
2010	0	30	0	0	30	400	0	13	0	414	384	1,225
2011	0	31	0	0	31	400	0	14	0	414	383	1,310
2012	0	32	0	0	32	398	0	15	0	413	381	1,388
2013	0	34	0	0	34	398	0	16	0	414	380	1,459
2014	0	36	0	0	36	400	0	17	0	416	380	1,525
2015	0	38	0	0	38	401	0	18	0	419	381	1,584
2016	0	39	0	0	39	403	0	19	0	421	382	1,639
NOM	0	2,344	0	0	2,344	8,340	0	232	0	8,573	8,229	
NPV	0	1,650	0	0	1,650	3,213	0	76	0	3,289	1,639	

Discount Rate: 9.22 %

Benefit/Cost Ratio (Col(11) / Col(6)) : 1.99

0588

RATE IMPACT TEST
PROGRAM METHOD SELECTED: REV_REQ
PROGRAM NAME GSDLC17 : GSD Load Control

PSC FORM CE 2.5
PAGE 1 OF 1

(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)
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	883	85	3	0	951	2	0	0	0	2	(949)	(866)
1996	0	217	130	6	0	353	5	1	0	0	5	(348)	(292)
1997	0	205	130	6	0	341	466	0	0	0	466	126	96
1998	0	193	130	6	0	329	462	0	0	0	462	133	94
1999	0	182	130	6	0	318	446	0	0	0	446	128	82
2000	0	208	130	6	0	344	447	0	0	0	447	103	61
2001	0	20	130	6	0	156	441	0	0	0	441	285	154
2002	0	21	130	6	0	157	436	0	0	0	436	278	137
2003	0	22	130	7	0	159	431	0	0	0	431	272	123
2004	0	23	130	7	0	160	426	0	0	0	426	266	110
2005	0	24	130	8	0	162	424	0	0	0	424	262	99
2006	0	25	130	8	0	163	421	0	0	0	421	258	90
2007	0	26	130	9	0	165	420	0	0	0	420	255	81
2008	0	27	130	9	0	166	417	0	0	0	417	251	73
2009	0	28	130	9	0	167	416	0	0	0	416	249	66
2010	0	30	130	9	0	169	414	0	0	0	414	245	60
2011	0	31	130	10	0	171	414	0	0	0	414	244	54
2012	0	32	130	11	0	173	413	0	0	0	413	240	48
2013	0	34	130	11	0	175	414	0	0	0	414	239	45
2014	0	36	130	12	0	178	416	0	0	0	416	239	41
2015	0	38	130	12	0	180	419	0	0	0	419	239	38
2016	0	39	130	12	0	181	421	0	0	0	421	240	34
NOM.	0	2,344	2,795	176	0	5,315	8,573	0	0	0	8,573	3,257	
NPV	0	1,650	1,148	63	0	2,860	3,289	0	0	0	3,289	429	

Discount Rate	9.22
Benefit/Cost Ratio (Col(12) / Col(7))	1.15

1590