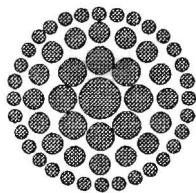


ORIGINAL



**Florida
Power**
CORPORATION

JAMES A. MCGEE
SENIOR COUNSEL

February 1, 1999

Ms. Blanca S. Bayó, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Docket No. 971005-EG

Dear Ms. Bayó:

Because of logistical difficulties, Exhibit MFJ-3 was not included with the testimony of Michael F. Jacob filed in the subject docket on February 1, 1999. Accordingly, I have enclosed for filing herewith an original and fifteen copies of Mr. Jacob's Exhibit MFJ-3.

Please acknowledge your receipt of the above filing on the enclosed copy of this letter and return to the undersigned. Thank you for your assistance in this matter.

Very truly yours,

James A. McGee

ACK _____
AFA _____
APP _____
CAF _____
CMU _____
CTR _____
EAG Haff
LEG I
LIN 5/1/99
OPC _____
RCH _____
SEC I
WAS _____
OTH Copy Cover ltr

JAM/kma

Enclosure

cc: Parties of record

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GENERAL OFFICE

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A Florida Progress Company

DOCUMENT NUMBER-DATE

01293 FEB-2 99

FPSC-RECORDS/REPORTING

CERTIFICATE OF SERVICE
Docket No. 971005-EG Conservation Goals

I HEREBY CERTIFY that a true and correct copy of Florida Power Corporation's Exhibits MFJ to the Direct Testimony of Michael F. Jacob has been mailed by U.S. Mail this 2nd day of February, 1999 to the following:

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Resource Insight
347 Broadway
Cambridge, MA 02139-1715

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Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

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James D. Beasley, Esq.
Ausley & McMullen
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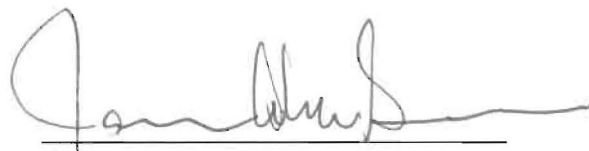
Jack Shreve, Esq.
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Tallahassee, FL 32399

Kenneth Hoffman, Esq.
Rutledge, Ecenia, Underwood
Purnell & Hoffman
215 South Monroe, Suite 420
Tallahassee, FL 32301

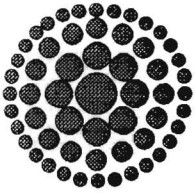
LEAF
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Pensacola, FL 32576-2950

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Attorney



ORIGINAL

**Florida
Power**
CORPORATION

JAMES A. MCGEE
SENIOR COUNSEL

February 1, 1999

Ms. Blanca S. Bayó, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

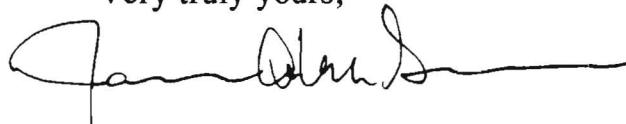
Re: Docket No. 971005-EG

Dear Ms. Bayó:

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Very truly yours,



James A. McGee

ACK _____

AFA _____

APP _____

CAF _____

CMU _____

CTR _____

EAG Hafsl

JAM/kma

LEG 1

Enclosure

LIN 54

cc: Parties of record

OPC _____

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DOCUMENT NUMBER-DATE

01293 FEB-28

100 RECORDS/REPORTING

INPUT DATA

Base Code: SC-D-01

Measure Name: High Efficiency Chiller

Vintage: New

		Year	Cumulative Participation
Incremental Participant Cost:	\$61.00	2000	900
Incremental Annual O&M Cost:	\$0.00	2001	1,627
Non-Recurring Incentive per Participant:	\$20.00	2002	2,373
Utility Non-Recurring Cost per Participant:	\$1.00	2003	3,137
Utility Recurring Cost per Participant:	\$0.00	2004	3,920
Annual KWH Reduction:	400	2005	4,721
Peak Winter KW Reduction:	0.207	2006	5,468
Peak Summer KW Reduction:	0.240	2007	6,230
Life of Measure (years):	20	2008	7,010
		2009	7,808

01293-99

MEASURE or PROGRAM: SCD-1N

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	22	18	0	40	57	0	57	-17
2000	40	15	0	55	47	0	47	8
2001	59	15	0	74	50	0	50	24
2002	78	15	0	93	53	0	53	40
2003	98	16	0	114	56	0	56	58
2004	119	16	0	135	59	0	59	76
2005	139	15	0	154	56	0	56	98
2006	159	15	0	174	59	0	59	115
2007	180	16	0	196	63	0	63	133
2008	204	16	0	220	67	0	67	153
2009	207	0	0	207	0	0	0	207
2010	210	0	0	210	0	0	0	210
2011	213	0	0	213	0	0	0	213
2012	216	0	0	216	0	0	0	216
2013	220	0	0	220	0	0	0	220
2014	223	0	0	223	0	0	0	223
2015	227	0	0	227	0	0	0	227
2016	230	0	0	230	0	0	0	230
2017	234	0	0	234	0	0	0	234
2018	237	0	0	237	0	0	0	237
2019	241	0	0	241	0	0	0	241
2020	245	0	0	245	0	0	0	245
2021	249	0	0	249	0	0	0	249
2022	252	0	0	252	0	0	0	252
2023	256	0	0	256	0	0	0	256
2024	260	0	0	260	0	0	0	260
2025	264	0	0	264	0	0	0	264
2026	268	0	0	268	0	0	0	268
2027	273	0	0	273	0	0	0	273
2028	0	0	0	0	0	0	0	0
NOMINAL	5623	157	0	5780	567	0	567	5213
NPV	1680	0	0	1680	0	0	0	1680

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 4.59

MEASURE or PROGRAM: SCD-1N

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	12	10	0	0	22	57	0	0	0	1	58	-36
2000	25	18	0	0	43	47	0	0	0	1	48	-5
2001	23	27	13	0	63	50	0	0	0	1	51	12
2002	39	35	18	0	92	53	0	0	0	1	54	38
2003	54	44	15	0	113	56	0	0	0	1	57	56
2004	59	53	24	0	136	59	0	0	0	1	60	76
2005	116	61	27	0	204	56	0	0	0	1	57	147
2006	85	70	31	0	186	59	0	0	0	1	60	126
2007	97	79	34	0	210	63	0	0	0	1	64	146
2008	108	88	43	0	239	67	0	0	0	1	68	171
2009	110	88	42	0	240	0	0	0	0	0	0	240
2010	111	88	45	0	244	0	0	0	0	0	0	244
2011	113	88	43	0	244	0	0	0	0	0	0	244
2012	113	88	48	0	249	0	0	0	0	0	0	249
2013	115	88	47	0	250	0	0	0	0	0	0	250
2014	116	88	51	0	255	0	0	0	0	0	0	255
2015	119	88	49	0	256	0	0	0	0	0	0	256
2016	119	88	55	0	262	0	0	0	0	0	0	262
2017	121	88	54	0	263	0	0	0	0	0	0	263
2018	121	88	58	0	267	0	0	0	0	0	0	267
2019	124	88	55	0	267	0	0	0	0	0	0	267
2020	124	88	60	0	272	0	0	0	0	0	0	272
2021	127	88	60	0	275	0	0	0	0	0	0	275
2022	128	88	66	0	282	0	0	0	0	0	0	282
2023	131	88	63	0	282	0	0	0	0	0	0	282
2024	131	88	68	0	287	0	0	0	0	0	0	287
2025	134	88	68	0	290	0	0	0	0	0	0	290
2026	135	88	74	0	297	0	0	0	0	0	0	297
2027	138	88	71	0	297	0	0	0	0	0	0	297
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2948	2157	1282	0	6387	567	0	0	0	10	577	5810
NPV	899	683	357	0	1940	0	0	0	0	0	0	1940

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 4.89

MEASURE or PROGRAM: SCD-1N

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							(13) NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	12	10	0	0	22	0	0	0	1	18	22	41	-19
2000	25	18	0	0	43	0	0	0	1	15	40	56	-13
2001	23	27	13	0	63	0	0	0	1	15	59	75	-12
2002	39	35	18	0	92	0	0	0	1	15	78	94	-2
2003	54	44	15	0	113	0	0	0	1	16	98	115	-2
2004	59	53	24	0	136	0	0	0	1	16	119	136	0
2005	116	61	27	0	204	0	0	0	1	15	139	155	49
2006	85	70	31	0	186	0	0	0	1	15	159	175	11
2007	97	79	34	0	210	0	0	0	1	16	180	197	13
2008	108	88	43	0	239	0	0	0	1	16	204	221	18
2009	110	88	42	0	240	0	0	0	0	0	207	207	33
2010	111	88	45	0	244	0	0	0	0	0	210	210	34
2011	113	88	43	0	244	0	0	0	0	0	213	213	31
2012	113	88	48	0	249	0	0	0	0	0	216	216	33
2013	115	88	47	0	250	0	0	0	0	0	220	220	30
2014	116	88	51	0	255	0	0	0	0	0	223	223	32
2015	119	88	49	0	256	0	0	0	0	0	227	227	29
2016	119	88	55	0	262	0	0	0	0	0	230	230	32
2017	121	88	54	0	263	0	0	0	0	0	234	234	29
2018	121	88	58	0	267	0	0	0	0	0	237	237	30
2019	124	88	55	0	267	0	0	0	0	0	241	241	26
2020	124	88	60	0	272	0	0	0	0	0	245	245	27
2021	127	88	60	0	275	0	0	0	0	0	249	249	26
2022	128	88	66	0	282	0	0	0	0	0	252	252	30
2023	131	88	63	0	282	0	0	0	0	0	256	256	26
2024	131	88	68	0	287	0	0	0	0	0	260	260	27
2025	134	88	68	0	290	0	0	0	0	0	264	264	26
2026	135	88	74	0	297	0	0	0	0	0	268	268	29
2027	138	88	71	0	297	0	0	0	0	0	273	273	24
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2948	2157	1282	0	6387	0	0	0	10	157	5623	5790	597
NPV	899	683	357	0	1940	0	0	0	0	0	1680	1680	260

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.08

INPUT DATA

Base Code: SC-D-01

Measure Name: High Efficiency Chiller

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$61.00	2000	1,600
Incremental Annual O&M Cost:	\$0.00	2001	3,055
Non-Recurring Incentive per Participant:	\$22.00	2002	4,546
Utility Non-Recurring Cost per Participant:	\$2.00	2003	6,074
Utility Recurring Cost per Participant:	\$0.00	2004	7,639
Annual KWH Reduction:	500	2005	9,243
Peak Winter KW Reduction:	0.207	2006	10,735
Peak Summer KW Reduction:	0.240	2007	12,261
Life of Measure (years):	20	2008	13,821
		2009	15,415

MEASURE or PROGRAM: SCD-1X

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	49	35	0	84	101	0	101	-17
2000	94	32	0	126	94	0	94	32
2001	141	33	0	174	100	0	100	74
2002	189	34	0	223	105	0	105	118
2003	240	34	0	274	111	0	111	163
2004	291	35	0	326	118	0	118	208
2005	340	33	0	373	113	0	113	260
2006	391	34	0	425	119	0	119	306
2007	443	34	0	477	125	0	125	352
2008	502	35	0	537	133	0	133	404
2009	510	0	0	510	0	0	0	510
2010	518	0	0	518	0	0	0	518
2011	526	0	0	526	0	0	0	526
2012	534	0	0	534	0	0	0	534
2013	542	0	0	542	0	0	0	542
2014	551	0	0	551	0	0	0	551
2015	559	0	0	559	0	0	0	559
2016	568	0	0	568	0	0	0	568
2017	577	0	0	577	0	0	0	577
2018	586	0	0	586	0	0	0	586
2019	595	0	0	595	0	0	0	595
2020	604	0	0	604	0	0	0	604
2021	613	0	0	613	0	0	0	613
2022	623	0	0	623	0	0	0	623
2023	633	0	0	633	0	0	0	633
2024	642	0	0	642	0	0	0	642
2025	652	0	0	652	0	0	0	652
2026	662	0	0	662	0	0	0	662
2027	673	0	0	673	0	0	0	673
2028	0	0	0	0	0	0	0	0
NOMINAL	13848	339	0	14187	1119	0	1119	13068
NPV	4128	0	0	4128	0	0	0	4128

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 5.68

MEASURE or PROGRAM: SCD-1X

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	27	14	0	0	41	101	0	0	0	3	104	-63
2000	82	27	0	0	109	94	0	0	0	3	97	12
2001	83	40	29	0	152	100	0	0	0	3	103	49
2002	95	54	40	0	189	105	0	0	0	3	108	81
2003	131	68	35	0	234	111	0	0	0	4	115	119
2004	154	82	53	0	289	118	0	0	0	4	122	167
2005	833	96	65	0	994	113	0	0	0	4	117	877
2006	207	109	75	0	391	119	0	0	0	4	123	268
2007	237	123	82	0	442	125	0	0	0	4	129	313
2008	265	137	100	0	502	133	0	0	0	4	137	365
2009	270	137	99	0	506	0	0	0	0	0	0	506
2010	271	137	107	0	515	0	0	0	0	0	0	515
2011	276	137	103	0	516	0	0	0	0	0	0	516
2012	277	137	113	0	527	0	0	0	0	0	0	527
2013	282	137	112	0	531	0	0	0	0	0	0	531
2014	284	137	120	0	541	0	0	0	0	0	0	541
2015	290	137	116	0	543	0	0	0	0	0	0	543
2016	291	137	128	0	556	0	0	0	0	0	0	556
2017	296	137	125	0	558	0	0	0	0	0	0	558
2018	297	137	136	0	570	0	0	0	0	0	0	570
2019	303	137	131	0	571	0	0	0	0	0	0	571
2020	304	137	144	0	585	0	0	0	0	0	0	585
2021	311	137	142	0	590	0	0	0	0	0	0	590
2022	312	137	154	0	603	0	0	0	0	0	0	603
2023	319	137	148	0	604	0	0	0	0	0	0	604
2024	321	137	163	0	621	0	0	0	0	0	0	621
2025	328	137	160	0	625	0	0	0	0	0	0	625
2026	331	137	174	0	642	0	0	0	0	0	0	642
2027	338	137	168	0	643	0	0	0	0	0	0	643
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	7815	3353	3022	0	14190	1119	0	0	0	36	1155	13035
NPV	2584	1061	840	0	4484	0	0	0	0	0	0	4484

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 5.64

MEASURE or PROGRAM: SCD-1X

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	27	14	0	0	41	0	0	0	3	35	49	87	-46
2000	82	27	0	0	109	0	0	0	3	32	94	129	-20
2001	83	40	29	0	152	0	0	0	3	33	141	177	-25
2002	95	54	40	0	189	0	0	0	3	34	189	226	-37
2003	131	68	35	0	234	0	0	0	4	34	240	278	-44
2004	154	82	53	0	289	0	0	0	4	35	291	330	-41
2005	833	96	65	0	994	0	0	0	4	33	340	377	617
2006	207	109	75	0	391	0	0	0	4	34	391	429	-38
2007	237	123	82	0	442	0	0	0	4	34	443	481	-39
2008	265	137	100	0	502	0	0	0	4	35	502	541	-39
2009	270	137	99	0	506	0	0	0	0	0	510	510	-4
2010	271	137	107	0	515	0	0	0	0	0	518	518	-3
2011	276	137	103	0	516	0	0	0	0	0	526	526	-10
2012	277	137	113	0	527	0	0	0	0	0	534	534	-7
2013	282	137	112	0	531	0	0	0	0	0	542	542	-11
2014	284	137	120	0	541	0	0	0	0	0	551	551	-10
2015	290	137	116	0	543	0	0	0	0	0	559	559	-16
2016	291	137	128	0	556	0	0	0	0	0	568	568	-12
2017	296	137	125	0	558	0	0	0	0	0	577	577	-19
2018	297	137	136	0	570	0	0	0	0	0	586	586	-16
2019	303	137	131	0	571	0	0	0	0	0	595	595	-24
2020	304	137	144	0	585	0	0	0	0	0	604	604	-19
2021	311	137	142	0	590	0	0	0	0	0	613	613	-23
2022	312	137	154	0	603	0	0	0	0	0	623	623	-20
2023	319	137	148	0	604	0	0	0	0	0	633	633	-29
2024	321	137	163	0	621	0	0	0	0	0	642	642	-21
2025	328	137	160	0	625	0	0	0	0	0	652	652	-27
2026	331	137	174	0	642	0	0	0	0	0	662	662	-20
2027	338	137	168	0	643	0	0	0	0	0	673	673	-30
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	7815	3353	3022	0	14190	0	0	0	36	339	13848	14223	-33
NPV	2584	1061	840	0	4484	0	0	0	0	0	4128	4128	356

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.02

INPUT DATA

Base Code: SC-D-03

Measure Name: High Efficiency DX AC

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$350.00	2000	113
Incremental Annual O&M Cost:	\$0.00	2001	211
Non-Recurring Incentive per Participant:	\$23.00	2002	313
Utility Non-Recurring Cost per Participant:	\$2.00	2003	417
Utility Recurring Cost per Participant:	\$0.00	2004	523
Annual KWH Reduction:	575	2005	633
Peak Winter KW Reduction:	0.231	2006	731
Peak Summer KW Reduction:	0.380	2007	831
Life of Measure (years):	15	2008	934
		2009	1,038

MEASURE or PROGRAM: SCD-3X

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	4	3	0	7	41	0	41	-34
2000	7	2	0	9	36	0	36	-27
2001	10	2	0	12	39	0	39	-27
2002	14	2	0	16	41	0	41	-25
2003	17	2	0	19	43	0	43	-24
2004	21	3	0	24	46	0	46	-22
2005	24	2	0	26	42	0	42	-16
2006	28	2	0	30	45	0	45	-15
2007	31	2	0	33	47	0	47	-14
2008	35	2	0	37	50	0	50	-13
2009	36	0	0	36	0	0	0	36
2010	36	0	0	36	0	0	0	36
2011	37	0	0	37	0	0	0	37
2012	38	0	0	38	0	0	0	38
2013	38	0	0	38	0	0	0	38
2014	39	0	0	39	0	0	0	39
2015	39	0	0	39	0	0	0	39
2016	40	0	0	40	0	0	0	40
2017	41	0	0	41	0	0	0	41
2018	41	0	0	41	0	0	0	41
2019	42	0	0	42	0	0	0	42
2020	43	0	0	43	0	0	0	43
2021	43	0	0	43	0	0	0	43
2022	44	0	0	44	0	0	0	44
2023	45	0	0	45	0	0	0	45
2024	45	0	0	45	0	0	0	45
2025	46	0	0	46	0	0	0	46
2026	47	0	0	47	0	0	0	47
2027	47	0	0	47	0	0	0	47
2028	0	0	0	0	0	0	0	0
NOMINAL	978	22	0	1000	430	0	430	570
NPV	292	0	0	292	0	0	0	292

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.04

MEASURE or PROGRAM: SCD-3X

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	2	2	0	0	4	41	0	0	0	0	41	-37
2000	5	3	0	0	8	36	0	0	0	0	36	-28
2001	5	5	1	0	11	39	0	0	0	0	39	-28
2002	7	7	2	0	16	41	0	0	0	0	41	-25
2003	10	8	1	0	19	43	0	0	0	0	43	-24
2004	12	10	3	0	25	46	0	0	0	0	46	-21
2005	17	12	2	0	31	42	0	0	0	0	42	-11
2006	16	13	2	0	31	45	0	0	0	0	45	-14
2007	18	15	2	0	35	47	0	0	0	0	47	-12
2008	20	17	2	0	39	50	0	0	0	0	50	-11
2009	20	17	2	0	39	0	0	0	0	0	0	39
2010	20	17	2	0	39	0	0	0	0	0	0	39
2011	20	17	2	0	39	0	0	0	0	0	0	39
2012	20	17	2	0	39	0	0	0	0	0	0	39
2013	21	17	2	0	40	0	0	0	0	0	0	40
2014	21	17	2	0	40	0	0	0	0	0	0	40
2015	21	17	3	0	41	0	0	0	0	0	0	41
2016	21	17	3	0	41	0	0	0	0	0	0	41
2017	22	17	3	0	42	0	0	0	0	0	0	42
2018	22	17	3	0	42	0	0	0	0	0	0	42
2019	22	17	3	0	42	0	0	0	0	0	0	42
2020	22	17	3	0	42	0	0	0	0	0	0	42
2021	23	17	3	0	43	0	0	0	0	0	0	43
2022	23	17	3	0	43	0	0	0	0	0	0	43
2023	23	17	3	0	43	0	0	0	0	0	0	43
2024	23	17	3	0	43	0	0	0	0	0	0	43
2025	24	17	3	0	44	0	0	0	0	0	0	44
2026	24	17	4	0	45	0	0	0	0	0	0	45
2027	24	17	4	0	45	0	0	0	0	0	0	45
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	528	415	68	0	1011	430	0	0	0	0	430	581
NPV	162	131	21	0	314	0	0	0	0	0	0	314

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 1.04

MEASURE or PROGRAM: SCD-3X

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	2	2	0	0	4	0	0	0	0	3	4	7	-3
2000	5	3	0	0	8	0	0	0	0	2	7	9	-1
2001	5	5	1	0	11	0	0	0	0	2	10	12	-1
2002	7	7	2	0	16	0	0	0	0	2	14	16	0
2003	10	8	1	0	19	0	0	0	0	2	17	19	0
2004	12	10	3	0	25	0	0	0	0	3	21	24	1
2005	17	12	2	0	31	0	0	0	0	2	24	26	5
2006	16	13	2	0	31	0	0	0	0	2	28	30	1
2007	18	15	2	0	35	0	0	0	0	2	31	33	2
2008	20	17	2	0	39	0	0	0	0	2	35	37	2
2009	20	17	2	0	39	0	0	0	0	0	36	36	3
2010	20	17	2	0	39	0	0	0	0	0	36	36	3
2011	20	17	2	0	39	0	0	0	0	0	37	37	2
2012	20	17	2	0	39	0	0	0	0	0	38	38	1
2013	21	17	2	0	40	0	0	0	0	0	38	38	2
2014	21	17	2	0	40	0	0	0	0	0	39	39	1
2015	21	17	3	0	41	0	0	0	0	0	39	39	2
2016	21	17	3	0	41	0	0	0	0	0	40	40	1
2017	22	17	3	0	42	0	0	0	0	0	41	41	1
2018	22	17	3	0	42	0	0	0	0	0	41	41	1
2019	22	17	3	0	42	0	0	0	0	0	42	42	0
2020	22	17	3	0	42	0	0	0	0	0	43	43	-1
2021	23	17	3	0	43	0	0	0	0	0	43	43	0
2022	23	17	3	0	43	0	0	0	0	0	44	44	-1
2023	23	17	3	0	43	0	0	0	0	0	45	45	-2
2024	23	17	3	0	43	0	0	0	0	0	45	45	-2
2025	24	17	3	0	44	0	0	0	0	0	46	46	-2
2026	24	17	4	0	45	0	0	0	0	0	47	47	-2
2027	24	17	4	0	45	0	0	0	0	0	47	47	-2
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	528	415	68	0	1011	0	0	0	0	22	978	1000	11
NPV	162	131	21	0	314	0	0	0	0	0	292	292	22

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.00

INPUT DATA

Base Code: SC-D-04

Measure Name: High Efficiency Room AC Units

Vintage: New

		Year	Cumulative Participation
Incremental Participant Cost:	\$255.00	2000	56
Incremental Annual O&M Cost:	\$1.50	2001	112
Non-Recurring Incentive per Participant:	\$24.00	2002	168
Utility Non-Recurring Cost per Participant:	\$1.54	2003	224
Utility Recurring Cost per Participant:	\$0.00	2004	280
Annual KWH Reduction:	396.49	2005	336
Peak Winter KW Reduction:	0.150	2006	392
Peak Summer KW Reduction:	0.450	2007	448
Life of Measure (years):	10	2008	504
		2009	560

MEASURE or PROGRAM: SCD-4N

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	1	1	0	2	15	0	15	-13
2000	2	1	0	3	15	0	15	-12
2001	4	1	0	5	16	0	16	-11
2002	5	1	0	6	16	0	16	-10
2003	6	1	0	7	17	0	17	-10
2004	8	1	0	9	17	0	17	-8
2005	9	1	0	10	18	0	18	-8
2006	10	1	0	11	18	0	18	-7
2007	12	1	0	13	19	0	19	-6
2008	13	1	0	14	20	0	20	-6
2009	13	0	0	13	0	0	0	13
2010	14	0	0	14	0	0	0	14
2011	14	0	0	14	0	0	0	14
2012	14	0	0	14	0	0	0	14
2013	14	0	0	14	0	0	0	14
2014	14	0	0	14	0	0	0	14
2015	15	0	0	15	0	0	0	15
2016	15	0	0	15	0	0	0	15
2017	15	0	0	15	0	0	0	15
2018	15	0	0	15	0	0	0	15
2019	16	0	0	16	0	0	0	16
2020	16	0	0	16	0	0	0	16
2021	16	0	0	16	0	0	0	16
2022	16	0	0	16	0	0	0	16
2023	17	0	0	17	0	0	0	17
2024	17	0	0	17	0	0	0	17
2025	17	0	0	17	0	0	0	17
2026	17	0	0	17	0	0	0	17
2027	18	0	0	18	0	0	0	18
2028	0	0	0	0	0	0	0	0
NOMINAL	363	10	0	373	171	0	171	202
NPV	108	0	0	108	0	0	0	108

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.01

MEASURE or PROGRAM: SCD-4N

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	1	1	0	0	2	15	0	0	0	0	15	-13
2000	2	1	0	0	3	15	0	0	0	0	15	-12
2001	2	2	0	0	4	16	0	0	0	0	16	-12
2002	3	2	1	0	6	16	0	0	0	0	16	-10
2003	4	3	1	0	8	17	0	0	0	0	17	-9
2004	4	4	1	0	9	17	0	0	0	0	17	-8
2005	6	4	1	0	11	18	0	0	0	0	18	-7
2006	6	5	2	0	13	18	0	0	0	0	18	-5
2007	7	6	1	0	14	19	0	0	0	0	19	-5
2008	7	6	1	0	14	20	0	0	0	0	20	-6
2009	8	6	1	0	15	0	0	0	0	0	0	15
2010	8	6	2	0	16	0	0	0	0	0	0	16
2011	8	6	1	0	15	0	0	0	0	0	0	15
2012	8	6	1	0	15	0	0	0	0	0	0	15
2013	8	6	1	0	15	0	0	0	0	0	0	15
2014	8	6	2	0	16	0	0	0	0	0	0	16
2015	8	6	1	0	15	0	0	0	0	0	0	15
2016	8	6	1	0	15	0	0	0	0	0	0	15
2017	8	6	1	0	15	0	0	0	0	0	0	15
2018	8	6	1	0	15	0	0	0	0	0	0	15
2019	8	6	1	0	15	0	0	0	0	0	0	15
2020	8	6	1	0	15	0	0	0	0	0	0	15
2021	9	6	1	0	16	0	0	0	0	0	0	16
2022	9	6	2	0	17	0	0	0	0	0	0	17
2023	9	6	2	0	17	0	0	0	0	0	0	17
2024	9	6	1	0	16	0	0	0	0	0	0	16
2025	9	6	2	0	17	0	0	0	0	0	0	17
2026	9	6	2	0	17	0	0	0	0	0	0	17
2027	9	6	2	0	17	0	0	0	0	0	0	17
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	201	148	34	0	383	171	0	0	0	0	171	212
NPV	62	47	11	0	119	0	0	0	0	0	0	119

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 1.01

MEASURE or PROGRAM: SCD-4N

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS								NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)		
1999	1	1	0	0	2	0	0	0	0	1	1	2	0	
2000	2	1	0	0	3	0	0	0	0	1	2	3	0	
2001	2	2	0	0	4	0	0	0	0	1	4	5	-1	
2002	3	2	1	0	6	0	0	0	0	1	5	6	0	
2003	4	3	1	0	8	0	0	0	0	1	6	7	1	
2004	4	4	1	0	9	0	0	0	0	1	8	9	0	
2005	6	4	1	0	11	0	0	0	0	1	9	10	1	
2006	6	5	2	0	13	0	0	0	0	1	10	11	2	
2007	7	6	1	0	14	0	0	0	0	1	12	13	1	
2008	7	6	1	0	14	0	0	0	0	1	13	14	0	
2009	8	6	1	0	15	0	0	0	0	0	13	13	2	
2010	8	6	2	0	16	0	0	0	0	0	14	14	2	
2011	8	6	1	0	15	0	0	0	0	0	14	14	1	
2012	8	6	1	0	15	0	0	0	0	0	14	14	1	
2013	8	6	1	0	15	0	0	0	0	0	14	14	1	
2014	8	6	2	0	16	0	0	0	0	0	14	14	2	
2015	8	6	1	0	15	0	0	0	0	0	15	15	0	
2016	8	6	1	0	15	0	0	0	0	0	15	15	0	
2017	8	6	1	0	15	0	0	0	0	0	15	15	0	
2018	8	6	1	0	15	0	0	0	0	0	15	15	0	
2019	8	6	1	0	15	0	0	0	0	0	16	16	-1	
2020	8	6	1	0	15	0	0	0	0	0	16	16	-1	
2021	9	6	1	0	16	0	0	0	0	0	16	16	0	
2022	9	6	2	0	17	0	0	0	0	0	16	16	1	
2023	9	6	2	0	17	0	0	0	0	0	17	17	0	
2024	9	6	1	0	16	0	0	0	0	0	17	17	-1	
2025	9	6	2	0	17	0	0	0	0	0	17	17	0	
2026	9	6	2	0	17	0	0	0	0	0	17	17	0	
2027	9	6	2	0	17	0	0	0	0	0	18	18	-1	
2028	0	0	0	0	0	0	0	0	0	0	0	0	0	
NOMINAL	201	148	34	0	383	0	0	0	0	10	363	373	10	
NPV	62	47	11	0	119	0	0	0	0	0	108	108	11	

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.00

INPUT DATA

Base Code: SC-D-04

Measure Name: High Efficiency Room AC Units

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$327.00	2000	113
Incremental Annual O&M Cost:	\$1.50	2001	211
Non-Recurring Incentive per Participant:	\$23.00	2002	313
Utility Non-Recurring Cost per Participant:	\$2.00	2003	417
Utility Recurring Cost per Participant:	\$0.00	2004	523
Annual KWH Reduction:	750	2005	633
Peak Winter KW Reduction:	0.232	2006	731
Peak Summer KW Reduction:	0.450	2007	831
Life of Measure (years):	10	2008	934
		2009	1,038

MEASURE or PROGRAM: SCD-4X

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	5	3	0	8	38	0	38	-30
2000	9	2	0	11	34	0	34	-23
2001	13	2	0	15	37	0	37	-22
2002	18	2	0	20	38	0	38	-18
2003	22	2	0	24	40	0	40	-16
2004	27	3	0	30	43	0	43	-13
2005	32	2	0	34	40	0	40	-6
2006	36	2	0	38	42	0	42	-4
2007	41	2	0	43	44	0	44	-1
2008	46	2	0	48	47	0	47	1
2009	47	0	0	47	0	0	0	47
2010	48	0	0	48	0	0	0	48
2011	48	0	0	48	0	0	0	48
2012	49	0	0	49	0	0	0	49
2013	50	0	0	50	0	0	0	50
2014	51	0	0	51	0	0	0	51
2015	51	0	0	51	0	0	0	51
2016	52	0	0	52	0	0	0	52
2017	53	0	0	53	0	0	0	53
2018	54	0	0	54	0	0	0	54
2019	55	0	0	55	0	0	0	55
2020	55	0	0	55	0	0	0	55
2021	56	0	0	56	0	0	0	56
2022	57	0	0	57	0	0	0	57
2023	58	0	0	58	0	0	0	58
2024	59	0	0	59	0	0	0	59
2025	60	0	0	60	0	0	0	60
2026	61	0	0	61	0	0	0	61
2027	62	0	0	62	0	0	0	62
2028	0	0	0	0	0	0	0	0
NOMINAL	1275	22	0	1297	403	0	403	894
NPV	381	0	0	381	0	0	0	381

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.43

MEASURE or PROGRAM: SCD-4X

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	3	2	0	0	5	38	0	0	0	0	38	-33
2000	6	4	0	0	10	34	0	0	0	0	34	-24
2001	6	6	2	0	14	37	0	0	0	0	37	-23
2002	9	8	3	0	20	38	0	0	0	0	38	-18
2003	13	10	2	0	25	40	0	0	0	0	40	-15
2004	16	12	5	0	33	43	0	0	0	0	43	-10
2005	22	14	3	0	39	40	0	0	0	0	40	-1
2006	20	16	4	0	40	42	0	0	0	0	42	-2
2007	23	18	3	0	44	44	0	0	0	0	44	0
2008	26	20	4	0	50	47	0	0	0	0	47	3
2009	26	20	4	0	50	0	0	0	0	0	0	50
2010	26	20	5	0	51	0	0	0	0	0	0	51
2011	26	20	5	0	51	0	0	0	0	0	0	51
2012	27	20	5	0	52	0	0	0	0	0	0	52
2013	27	20	5	0	52	0	0	0	0	0	0	52
2014	27	20	5	0	52	0	0	0	0	0	0	52
2015	27	20	5	0	52	0	0	0	0	0	0	52
2016	28	20	6	0	54	0	0	0	0	0	0	54
2017	28	20	5	0	53	0	0	0	0	0	0	53
2018	28	20	6	0	54	0	0	0	0	0	0	54
2019	29	20	6	0	55	0	0	0	0	0	0	55
2020	29	20	6	0	55	0	0	0	0	0	0	55
2021	29	20	6	0	55	0	0	0	0	0	0	55
2022	30	20	7	0	57	0	0	0	0	0	0	57
2023	30	20	7	0	57	0	0	0	0	0	0	57
2024	31	20	7	0	58	0	0	0	0	0	0	58
2025	31	20	7	0	58	0	0	0	0	0	0	58
2026	31	20	8	0	59	0	0	0	0	0	0	59
2027	32	20	7	0	59	0	0	0	0	0	0	59
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	686	490	138	0	1314	403	0	0	0	0	403	911
NPV	210	155	41	0	406	0	0	0	0	0	0	406

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 1.46

MEASURE or PROGRAM: SCD-4X

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	3	2	0	0	5	0	0	0	0	3	5	8	-3
2000	6	4	0	0	10	0	0	0	0	2	9	11	-1
2001	6	6	2	0	14	0	0	0	0	2	13	15	-1
2002	9	8	3	0	20	0	0	0	0	2	18	20	0
2003	13	10	2	0	25	0	0	0	0	2	22	24	1
2004	16	12	5	0	33	0	0	0	0	3	27	30	3
2005	22	14	3	0	39	0	0	0	0	2	32	34	5
2006	20	16	4	0	40	0	0	0	0	2	36	38	2
2007	23	18	3	0	44	0	0	0	0	2	41	43	1
2008	26	20	4	0	50	0	0	0	0	2	46	48	2
2009	26	20	4	0	50	0	0	0	0	0	47	47	3
2010	26	20	5	0	51	0	0	0	0	0	48	48	3
2011	26	20	5	0	51	0	0	0	0	0	48	48	3
2012	27	20	5	0	52	0	0	0	0	0	49	49	3
2013	27	20	5	0	52	0	0	0	0	0	50	50	2
2014	27	20	5	0	52	0	0	0	0	0	51	51	1
2015	27	20	5	0	52	0	0	0	0	0	51	51	1
2016	28	20	6	0	54	0	0	0	0	0	52	52	2
2017	28	20	5	0	53	0	0	0	0	0	53	53	0
2018	28	20	6	0	54	0	0	0	0	0	54	54	0
2019	29	20	6	0	55	0	0	0	0	0	55	55	0
2020	29	20	6	0	55	0	0	0	0	0	55	55	0
2021	29	20	6	0	55	0	0	0	0	0	56	56	-1
2022	30	20	7	0	57	0	0	0	0	0	57	57	0
2023	30	20	7	0	57	0	0	0	0	0	58	58	-1
2024	31	20	7	0	58	0	0	0	0	0	59	59	-1
2025	31	20	7	0	58	0	0	0	0	0	60	60	-2
2026	31	20	8	0	59	0	0	0	0	0	61	61	-2
2027	32	20	7	0	59	0	0	0	0	0	62	62	-3
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	686	490	138	0	1314	0	0	0	0	22	1275	1297	17
NPV	210	155	41	0	406	0	0	0	0	0	381	381	25

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.02

INPUT DATA

Base Code: SC-D-08

Measure Name: 2-Speed Motor for Cooling Tower

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$17.00	2000	856
Incremental Annual O&M Cost:	\$0.00	2001	1,645
Non-Recurring Incentive per Participant:	\$7.40	2002	2,454
Utility Non-Recurring Cost per Participant:	\$1.00	2003	3,282
Utility Recurring Cost per Participant:	\$0.00	2004	4,130
Annual KWH Reduction:	415	2005	4,998
Peak Winter KW Reduction:	0.074	2006	5,811
Peak Summer KW Reduction:	0.000	2007	6,642
Life of Measure (years):	10	2008	7,492
		2009	8,359

MEASURE or PROGRAM: SCD-8X

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	20	6	0	26	15	0	15	11
2000	38	6	0	44	14	0	14	30
2001	57	6	0	63	15	0	15	48
2002	77	6	0	83	16	0	16	67
2003	98	6	0	104	17	0	17	87
2004	119	6	0	125	18	0	18	107
2005	139	6	0	145	17	0	17	128
2006	160	6	0	166	18	0	18	148
2007	181	6	0	187	19	0	19	168
2008	206	6	0	212	20	0	20	192
2009	209	0	0	209	0	0	0	209
2010	212	0	0	212	0	0	0	212
2011	215	0	0	215	0	0	0	215
2012	219	0	0	219	0	0	0	219
2013	222	0	0	222	0	0	0	222
2014	225	0	0	225	0	0	0	225
2015	229	0	0	229	0	0	0	229
2016	232	0	0	232	0	0	0	232
2017	236	0	0	236	0	0	0	236
2018	240	0	0	240	0	0	0	240
2019	243	0	0	243	0	0	0	243
2020	247	0	0	247	0	0	0	247
2021	251	0	0	251	0	0	0	251
2022	255	0	0	255	0	0	0	255
2023	259	0	0	259	0	0	0	259
2024	263	0	0	263	0	0	0	263
2025	267	0	0	267	0	0	0	267
2026	271	0	0	271	0	0	0	271
2027	275	0	0	275	0	0	0	275
2028	0	0	0	0	0	0	0	0
NOMINAL	5665	60	0	5725	169	0	169	5556
NPV	1688	0	0	1688	0	0	0	1688

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 14.92

MEASURE or PROGRAM: SCD-8X

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	11	10	0	0	21	15	0	0	0	1	16	5
2000	24	18	0	0	42	14	0	0	0	1	15	27
2001	26	28	7	0	61	15	0	0	0	1	16	45
2002	41	37	12	0	90	16	0	0	0	1	17	73
2003	56	46	8	0	110	17	0	0	0	1	18	92
2004	61	56	19	0	136	18	0	0	0	1	19	117
2005	89	65	8	0	162	17	0	0	0	1	18	144
2006	89	75	12	0	176	18	0	0	0	1	19	157
2007	103	84	10	0	197	19	0	0	0	1	20	177
2008	114	94	13	0	221	20	0	0	0	1	21	200
2009	116	94	12	0	222	0	0	0	0	0	0	222
2010	117	94	13	0	224	0	0	0	0	0	0	224
2011	119	94	13	0	226	0	0	0	0	0	0	226
2012	119	94	14	0	227	0	0	0	0	0	0	227
2013	121	94	14	0	229	0	0	0	0	0	0	229
2014	121	94	14	0	229	0	0	0	0	0	0	229
2015	124	94	15	0	233	0	0	0	0	0	0	233
2016	124	94	16	0	234	0	0	0	0	0	0	234
2017	126	94	15	0	235	0	0	0	0	0	0	235
2018	126	94	17	0	237	0	0	0	0	0	0	237
2019	128	94	16	0	238	0	0	0	0	0	0	238
2020	129	94	17	0	240	0	0	0	0	0	0	240
2021	132	94	17	0	243	0	0	0	0	0	0	243
2022	132	94	20	0	246	0	0	0	0	0	0	246
2023	135	94	19	0	248	0	0	0	0	0	0	248
2024	135	94	19	0	248	0	0	0	0	0	0	248
2025	138	94	20	0	252	0	0	0	0	0	0	252
2026	139	94	22	0	255	0	0	0	0	0	0	255
2027	141	94	21	0	256	0	0	0	0	0	0	256
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	3036	2299	403	0	5738	169	0	0	0	10	179	5559
NPV	920	726	125	0	1771	0	0	0	0	0	0	1771

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 14.39

MEASURE or PROGRAM: SCD-8X

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	11	10	0	0	21	0	0	0	1	6	20	27	-6
2000	24	18	0	0	42	0	0	0	1	6	38	45	-3
2001	26	28	7	0	61	0	0	0	1	6	57	64	-3
2002	41	37	12	0	90	0	0	0	1	6	77	84	6
2003	56	46	8	0	110	0	0	0	1	6	98	105	5
2004	61	56	19	0	136	0	0	0	1	6	119	126	10
2005	89	65	8	0	162	0	0	0	1	6	139	146	16
2006	89	75	12	0	176	0	0	0	1	6	160	167	9
2007	103	84	10	0	197	0	0	0	1	6	181	188	9
2008	114	94	13	0	221	0	0	0	1	6	206	213	8
2009	116	94	12	0	222	0	0	0	0	0	209	209	13
2010	117	94	13	0	224	0	0	0	0	0	212	212	12
2011	119	94	13	0	226	0	0	0	0	0	215	215	11
2012	119	94	14	0	227	0	0	0	0	0	219	219	8
2013	121	94	14	0	229	0	0	0	0	0	222	222	7
2014	121	94	14	0	229	0	0	0	0	0	225	225	4
2015	124	94	15	0	233	0	0	0	0	0	229	229	4
2016	124	94	16	0	234	0	0	0	0	0	232	232	2
2017	126	94	15	0	235	0	0	0	0	0	236	236	-1
2018	126	94	17	0	237	0	0	0	0	0	240	240	-3
2019	128	94	16	0	238	0	0	0	0	0	243	243	-5
2020	129	94	17	0	240	0	0	0	0	0	247	247	-7
2021	132	94	17	0	243	0	0	0	0	0	251	251	-8
2022	132	94	20	0	246	0	0	0	0	0	255	255	-9
2023	135	94	19	0	248	0	0	0	0	0	259	259	-11
2024	135	94	19	0	248	0	0	0	0	0	263	263	-15
2025	138	94	20	0	252	0	0	0	0	0	267	267	-15
2026	139	94	22	0	255	0	0	0	0	0	271	271	-16
2027	141	94	21	0	256	0	0	0	0	0	275	275	-19
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	3036	2299	403	0	5738	0	0	0	10	60	5665	5735	3
NPV	920	726	125	0	1771	0	0	0	0	0	1688	1688	84

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.02

INPUT DATA

Base Code: SC-D-09

Measure Name: Speed Control for Cooling Tower

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$74.00	2000	826
Incremental Annual O&M Cost:	\$0.00	2001	1,541
Non-Recurring Incentive per Participant:	\$9.26	2002	2,273
Utility Non-Recurring Cost per Participant:	\$1.00	2003	3,024
Utility Recurring Cost per Participant:	\$0.00	2004	3,793
Annual KWH Reduction:	259	2005	4,580
Peak Winter KW Reduction:	0.093	2006	5,285
Peak Summer KW Reduction:	0.090	2007	6,005
Life of Measure (years):	10	2008	6,741
		2009	7,494

MEASURE or PROGRAM: SCD-9X

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	12	8	0	20	63	0	63	-43
2000	22	7	0	29	56	0	56	-27
2001	33	7	0	40	59	0	59	-19
2002	44	7	0	51	63	0	63	-12
2003	56	7	0	63	66	0	66	-3
2004	68	7	0	75	70	0	70	5
2005	79	7	0	86	65	0	65	21
2006	90	7	0	97	68	0	68	29
2007	102	7	0	109	72	0	72	37
2008	115	7	0	122	76	0	76	46
2009	117	0	0	117	0	0	0	117
2010	119	0	0	119	0	0	0	119
2011	120	0	0	120	0	0	0	120
2012	122	0	0	122	0	0	0	122
2013	124	0	0	124	0	0	0	124
2014	126	0	0	126	0	0	0	126
2015	128	0	0	128	0	0	0	128
2016	130	0	0	130	0	0	0	130
2017	132	0	0	132	0	0	0	132
2018	134	0	0	134	0	0	0	134
2019	136	0	0	136	0	0	0	136
2020	138	0	0	138	0	0	0	138
2021	140	0	0	140	0	0	0	140
2022	143	0	0	143	0	0	0	143
2023	145	0	0	145	0	0	0	145
2024	147	0	0	147	0	0	0	147
2025	149	0	0	149	0	0	0	149
2026	152	0	0	152	0	0	0	152
2027	154	0	0	154	0	0	0	154
2028	0	0	0	0	0	0	0	0
NOMINAL	3177	71	0	3248	658	0	658	2590
NPV	949	0	0	949	0	0	0	949

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 2.20

MEASURE or PROGRAM: SCD-9X

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	7	6	0	0	13	63	0	0	0	1	64	-51
2000	14	11	0	0	25	56	0	0	0	1	57	-32
2001	15	16	5	0	36	59	0	0	0	1	60	-24
2002	24	22	7	0	53	63	0	0	0	1	64	-11
2003	32	27	5	0	64	66	0	0	0	1	67	-3
2004	32	33	11	0	76	70	0	0	0	1	71	5
2005	53	38	6	0	97	65	0	0	0	1	66	31
2006	50	43	7	0	100	68	0	0	0	1	69	31
2007	58	48	7	0	113	72	0	0	0	1	73	40
2008	64	54	9	0	127	76	0	0	0	1	77	50
2009	65	54	8	0	127	0	0	0	0	0	0	127
2010	66	54	8	0	128	0	0	0	0	0	0	128
2011	67	54	9	0	130	0	0	0	0	0	0	130
2012	67	54	10	0	131	0	0	0	0	0	0	131
2013	68	54	9	0	131	0	0	0	0	0	0	131
2014	68	54	10	0	132	0	0	0	0	0	0	132
2015	69	54	10	0	133	0	0	0	0	0	0	133
2016	70	54	11	0	135	0	0	0	0	0	0	135
2017	71	54	10	0	135	0	0	0	0	0	0	135
2018	71	54	11	0	136	0	0	0	0	0	0	136
2019	72	54	11	0	137	0	0	0	0	0	0	137
2020	72	54	11	0	137	0	0	0	0	0	0	137
2021	74	54	12	0	140	0	0	0	0	0	0	140
2022	74	54	12	0	140	0	0	0	0	0	0	140
2023	76	54	12	0	142	0	0	0	0	0	0	142
2024	76	54	13	0	143	0	0	0	0	0	0	143
2025	77	54	13	0	144	0	0	0	0	0	0	144
2026	78	54	14	0	146	0	0	0	0	0	0	146
2027	80	54	14	0	148	0	0	0	0	0	0	148
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	1710	1324	265	0	3299	658	0	0	0	10	668	2631
NPV	519	420	81	0	1020	0	0	0	0	0	0	1020

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.21

MEASURE or PROGRAM: SCD-9X

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) A VOIDED T&D CAP. COSTS \$(000)	(3) A VOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	7	6	0	0	13	0	0	0	1	8	12	21	-8
2000	14	11	0	0	25	0	0	0	1	7	22	30	-5
2001	15	16	5	0	36	0	0	0	1	7	33	41	-5
2002	24	22	7	0	53	0	0	0	1	7	44	52	1
2003	32	27	5	0	64	0	0	0	1	7	56	64	0
2004	32	33	11	0	76	0	0	0	1	7	68	76	0
2005	53	38	6	0	97	0	0	0	1	7	79	87	10
2006	50	43	7	0	100	0	0	0	1	7	90	98	2
2007	58	48	7	0	113	0	0	0	1	7	102	110	3
2008	64	54	9	0	127	0	0	0	1	7	115	123	4
2009	65	54	8	0	127	0	0	0	0	0	117	117	10
2010	66	54	8	0	128	0	0	0	0	0	119	119	9
2011	67	54	9	0	130	0	0	0	0	0	120	120	10
2012	67	54	10	0	131	0	0	0	0	0	122	122	9
2013	68	54	9	0	131	0	0	0	0	0	124	124	7
2014	68	54	10	0	132	0	0	0	0	0	126	126	6
2015	69	54	10	0	133	0	0	0	0	0	128	128	5
2016	70	54	11	0	135	0	0	0	0	0	130	130	5
2017	71	54	10	0	135	0	0	0	0	0	132	132	3
2018	71	54	11	0	136	0	0	0	0	0	134	134	2
2019	72	54	11	0	137	0	0	0	0	0	136	136	1
2020	72	54	11	0	137	0	0	0	0	0	138	138	-1
2021	74	54	12	0	140	0	0	0	0	0	140	140	0
2022	74	54	12	0	140	0	0	0	0	0	143	143	-3
2023	76	54	12	0	142	0	0	0	0	0	145	145	-3
2024	76	54	13	0	143	0	0	0	0	0	147	147	-4
2025	77	54	13	0	144	0	0	0	0	0	149	149	-5
2026	78	54	14	0	146	0	0	0	0	0	152	152	-6
2027	80	54	14	0	148	0	0	0	0	0	154	154	-6
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	1710	1324	265	0	3299	0	0	0	10	71	3177	3258	41
NPV	519	420	81	0	1020	0	0	0	0	0	949	949	71

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.01

INPUT DATA

Base Code: SC-D-22

Measure Name: Window Film (Chiller)

Vintage: New

		Year	Cumulative Participation
Incremental Participant Cost:	\$231.00	2000	50
Incremental Annual O&M Cost:	\$0.00	2001	96
Non-Recurring Incentive per Participant:	\$11.00	2002	143
Utility Non-Recurring Cost per Participant:	\$2.00	2003	191
Utility Recurring Cost per Participant:	\$0.00	2004	241
Annual KWH Reduction:	651	2005	291
Peak Winter KW Reduction:	0.110	2006	338
Peak Summer KW Reduction:	0.092	2007	386
Life of Measure (years):	10	2008	435
		2009	485

MEASURE or PROGRAM: SCD-22N

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	2	1	0	3	12	0	12	-9
2000	4	1	0	5	11	0	11	-6
2001	5	1	0	6	12	0	12	-6
2002	7	1	0	8	13	0	13	-5
2003	9	1	0	10	13	0	13	-3
2004	11	1	0	12	14	0	14	-2
2005	13	1	0	14	13	0	13	1
2006	15	1	0	16	14	0	14	2
2007	17	1	0	18	15	0	15	3
2008	19	1	0	20	16	0	16	4
2009	19	0	0	19	0	0	0	19
2010	19	0	0	19	0	0	0	19
2011	20	0	0	20	0	0	0	20
2012	20	0	0	20	0	0	0	20
2013	20	0	0	20	0	0	0	20
2014	21	0	0	21	0	0	0	21
2015	21	0	0	21	0	0	0	21
2016	21	0	0	21	0	0	0	21
2017	21	0	0	21	0	0	0	21
2018	22	0	0	22	0	0	0	22
2019	22	0	0	22	0	0	0	22
2020	22	0	0	22	0	0	0	22
2021	23	0	0	23	0	0	0	23
2022	23	0	0	23	0	0	0	23
2023	24	0	0	24	0	0	0	24
2024	24	0	0	24	0	0	0	24
2025	24	0	0	24	0	0	0	24
2026	25	0	0	25	0	0	0	25
2027	25	0	0	25	0	0	0	25
2028	0	0	0	0	0	0	0	0
NOMINAL	518	10	0	528	133	0	133	395
NPV	155	0	0	155	0	0	0	155

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.72

MEASURE or PROGRAM: SCD-22N

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	1	1	0	0	2	12	0	0	0	0	12	-10
2000	2	2	0	0	4	11	0	0	0	0	11	-7
2001	2	2	1	0	5	12	0	0	0	0	12	-7
2002	4	3	1	0	8	13	0	0	0	0	13	-5
2003	5	4	1	0	10	13	0	0	0	0	13	-3
2004	7	5	2	0	14	14	0	0	0	0	14	0
2005	8	6	1	0	15	13	0	0	0	0	13	2
2006	8	6	1	0	15	14	0	0	0	0	14	1
2007	9	7	2	0	18	15	0	0	0	0	15	3
2008	10	8	1	0	19	16	0	0	0	0	16	3
2009	10	8	1	0	19	0	0	0	0	0	0	19
2010	11	8	1	0	20	0	0	0	0	0	0	20
2011	11	8	1	0	20	0	0	0	0	0	0	20
2012	11	8	1	0	20	0	0	0	0	0	0	20
2013	11	8	1	0	20	0	0	0	0	0	0	20
2014	11	8	1	0	20	0	0	0	0	0	0	20
2015	11	8	1	0	20	0	0	0	0	0	0	20
2016	11	8	1	0	20	0	0	0	0	0	0	20
2017	12	8	1	0	21	0	0	0	0	0	0	21
2018	11	8	1	0	20	0	0	0	0	0	0	20
2019	12	8	1	0	21	0	0	0	0	0	0	21
2020	12	8	1	0	21	0	0	0	0	0	0	21
2021	12	8	2	0	22	0	0	0	0	0	0	22
2022	12	8	2	0	22	0	0	0	0	0	0	22
2023	12	8	2	0	22	0	0	0	0	0	0	22
2024	12	8	1	0	21	0	0	0	0	0	0	21
2025	12	8	2	0	22	0	0	0	0	0	0	22
2026	12	8	2	0	22	0	0	0	0	0	0	22
2027	13	8	2	0	23	0	0	0	0	0	0	23
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	275	196	35	0	506	133	0	0	0	0	133	373
NPV	84	62	12	0	157	0	0	0	0	0	0	157

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 1.72

MEASURE or PROGRAM: SCD-22N

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS								NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)		
1999	1	1	0	0	2	0	0	0	0	1	2	3	-1	
2000	2	2	0	0	4	0	0	0	0	1	4	5	-1	
2001	2	2	1	0	5	0	0	0	0	1	5	6	-1	
2002	4	3	1	0	8	0	0	0	0	1	7	8	0	
2003	5	4	1	0	10	0	0	0	0	1	9	10	0	
2004	7	5	2	0	14	0	0	0	0	1	11	12	2	
2005	8	6	1	0	15	0	0	0	0	1	13	14	1	
2006	8	6	1	0	15	0	0	0	0	1	15	16	-1	
2007	9	7	2	0	18	0	0	0	0	1	17	18	0	
2008	10	8	1	0	19	0	0	0	0	1	19	20	-1	
2009	10	8	1	0	19	0	0	0	0	0	19	19	0	
2010	11	8	1	0	20	0	0	0	0	0	19	19	1	
2011	11	8	1	0	20	0	0	0	0	0	20	20	0	
2012	11	8	1	0	20	0	0	0	0	0	20	20	0	
2013	11	8	1	0	20	0	0	0	0	0	20	20	0	
2014	11	8	1	0	20	0	0	0	0	0	21	21	-1	
2015	11	8	1	0	20	0	0	0	0	0	21	21	-1	
2016	11	8	1	0	20	0	0	0	0	0	21	21	-1	
2017	12	8	1	0	21	0	0	0	0	0	21	21	0	
2018	11	8	1	0	20	0	0	0	0	0	22	22	-2	
2019	12	8	1	0	21	0	0	0	0	0	22	22	-1	
2020	12	8	1	0	21	0	0	0	0	0	22	22	-1	
2021	12	8	2	0	22	0	0	0	0	0	23	23	-1	
2022	12	8	2	0	22	0	0	0	0	0	23	23	-1	
2023	12	8	2	0	22	0	0	0	0	0	24	24	-2	
2024	12	8	1	0	21	0	0	0	0	0	24	24	-3	
2025	12	8	2	0	22	0	0	0	0	0	24	24	-2	
2026	12	8	2	0	22	0	0	0	0	0	25	25	-3	
2027	13	8	2	0	23	0	0	0	0	0	25	25	-2	
2028	0	0	0	0	0	0	0	0	0	0	0	0	0	
NOMINAL	275	196	35	0	506	0	0	0	0	10	518	528	-22	
NPV	84	62	12	0	157	0	0	0	0	0	155	155	2	

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.00

INPUT DATA

Base Code: SC-D-22

Measure Name: Window Film (Chiller)

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$251.00	2000	100
Incremental Annual O&M Cost:	\$0.00	2001	187
Non-Recurring Incentive per Participant:	\$26.00	2002	275
Utility Non-Recurring Cost per Participant:	\$10.00	2003	366
Utility Recurring Cost per Participant:	\$0.00	2004	459
Annual KWH Reduction:	852	2005	554
Peak Winter KW Reduction:	0.260	2006	640
Peak Summer KW Reduction:	0.200	2007	727
Life of Measure (years):	10	2008	816
		2009	907

MEASURE or PROGRAM: SCD-22X

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	5	3	0	8	26	0	26	-18
2000	9	2	0	11	23	0	23	-12
2001	13	2	0	15	24	0	24	-9
2002	18	2	0	20	26	0	26	-6
2003	22	2	0	24	27	0	27	-3
2004	27	2	0	29	29	0	29	0
2005	31	2	0	33	27	0	27	6
2006	36	2	0	38	28	0	28	10
2007	41	2	0	43	29	0	29	14
2008	46	2	0	48	31	0	31	17
2009	46	0	0	46	0	0	0	46
2010	47	0	0	47	0	0	0	47
2011	48	0	0	48	0	0	0	48
2012	49	0	0	49	0	0	0	49
2013	49	0	0	49	0	0	0	49
2014	50	0	0	50	0	0	0	50
2015	51	0	0	51	0	0	0	51
2016	52	0	0	52	0	0	0	52
2017	53	0	0	53	0	0	0	53
2018	53	0	0	53	0	0	0	53
2019	54	0	0	54	0	0	0	54
2020	55	0	0	55	0	0	0	55
2021	56	0	0	56	0	0	0	56
2022	57	0	0	57	0	0	0	57
2023	58	0	0	58	0	0	0	58
2024	59	0	0	59	0	0	0	59
2025	59	0	0	59	0	0	0	59
2026	60	0	0	60	0	0	0	60
2027	61	0	0	61	0	0	0	61
2028	0	0	0	0	0	0	0	0
NOMINAL	1265	21	0	1286	270	0	270	1016
NPV	378	0	0	378	0	0	0	378

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 2.12

MEASURE or PROGRAM: SCD-22X

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	3	2	0	0	5	26	0	0	0	1	27	-22
2000	6	4	0	0	10	23	0	0	0	1	24	-14
2001	6	6	2	0	14	24	0	0	0	1	25	-11
2002	9	9	3	0	21	26	0	0	0	1	27	-6
2003	13	11	2	0	26	27	0	0	0	1	28	-2
2004	16	13	4	0	33	29	0	0	0	1	30	3
2005	21	15	2	0	38	27	0	0	0	1	28	10
2006	20	17	3	0	40	28	0	0	0	1	29	11
2007	23	19	2	0	44	29	0	0	0	1	30	14
2008	25	21	3	0	49	31	0	0	0	1	32	17
2009	26	21	3	0	50	0	0	0	0	0	0	50
2010	26	21	3	0	50	0	0	0	0	0	0	50
2011	27	21	3	0	51	0	0	0	0	0	0	51
2012	27	21	3	0	51	0	0	0	0	0	0	51
2013	27	21	3	0	51	0	0	0	0	0	0	51
2014	27	21	4	0	52	0	0	0	0	0	0	52
2015	28	21	4	0	53	0	0	0	0	0	0	53
2016	28	21	4	0	53	0	0	0	0	0	0	53
2017	28	21	4	0	53	0	0	0	0	0	0	53
2018	28	21	4	0	53	0	0	0	0	0	0	53
2019	29	21	4	0	54	0	0	0	0	0	0	54
2020	29	21	4	0	54	0	0	0	0	0	0	54
2021	30	21	4	0	55	0	0	0	0	0	0	55
2022	30	21	5	0	56	0	0	0	0	0	0	56
2023	30	21	5	0	56	0	0	0	0	0	0	56
2024	30	21	5	0	56	0	0	0	0	0	0	56
2025	31	21	5	0	57	0	0	0	0	0	0	57
2026	31	21	5	0	57	0	0	0	0	0	0	57
2027	32	21	5	0	58	0	0	0	0	0	0	58
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	686	516	98	0	1300	270	0	0	0	10	280	1020
NPV	209	164	30	0	403	0	0	0	0	0	0	403

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.10

MEASURE or PROGRAM: SCD-22X

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS								NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
	FUEL & O & M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	FUEL & O & M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)		
1999	3	2	0	0	5	0	0	0	1	3	5	9	-4	
2000	6	4	0	0	10	0	0	0	1	2	9	12	-2	
2001	6	6	2	0	14	0	0	0	1	2	13	16	-2	
2002	9	9	3	0	21	0	0	0	1	2	18	21	0	
2003	13	11	2	0	26	0	0	0	1	2	22	25	1	
2004	16	13	4	0	33	0	0	0	1	2	27	30	3	
2005	21	15	2	0	38	0	0	0	1	2	31	34	4	
2006	20	17	3	0	40	0	0	0	1	2	36	39	1	
2007	23	19	2	0	44	0	0	0	1	2	41	44	0	
2008	25	21	3	0	49	0	0	0	1	2	46	49	0	
2009	26	21	3	0	50	0	0	0	0	0	46	46	4	
2010	26	21	3	0	50	0	0	0	0	0	47	47	3	
2011	27	21	3	0	51	0	0	0	0	0	48	48	3	
2012	27	21	3	0	51	0	0	0	0	0	49	49	2	
2013	27	21	3	0	51	0	0	0	0	0	49	49	2	
2014	27	21	4	0	52	0	0	0	0	0	50	50	2	
2015	28	21	4	0	53	0	0	0	0	0	51	51	2	
2016	28	21	4	0	53	0	0	0	0	0	52	52	1	
2017	28	21	4	0	53	0	0	0	0	0	53	53	0	
2018	28	21	4	0	53	0	0	0	0	0	53	53	0	
2019	29	21	4	0	54	0	0	0	0	0	54	54	0	
2020	29	21	4	0	54	0	0	0	0	0	55	55	-1	
2021	30	21	4	0	55	0	0	0	0	0	56	56	-1	
2022	30	21	5	0	56	0	0	0	0	0	57	57	-1	
2023	30	21	5	0	56	0	0	0	0	0	58	58	-2	
2024	30	21	5	0	56	0	0	0	0	0	59	59	-3	
2025	31	21	5	0	57	0	0	0	0	0	59	59	-2	
2026	31	21	5	0	57	0	0	0	0	0	60	60	-3	
2027	32	21	5	0	58	0	0	0	0	0	61	61	-3	
2028	0	0	0	0	0	0	0	0	0	0	0	0	0	
NOMINAL	686	516	98	0	1300	0	0	0	10	21	1265	1296	4	
NPV	209	164	30	0	403	0	0	0	0	0	378	378	25	

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.01

INPUT DATA

Base Code: N/A

Measure Name: Standby Generation

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$0.00	2000	5
Utility Annual O&M Cost:	\$10,000.00	2001	10
Recurring Incentive per Participant:	\$14,900.00	2002	15
Utility Non-Recurring Cost per Participant:	\$0.00	2003	20
Utility Recurring Cost per Participant:	\$0.00	2004	25
Annual KWH Reduction:	6000	2005	30
Peak Winter KW Reduction:	600.000	2006	35
Peak Summer KW Reduction:	600.000	2007	40
Life of Measure (years):	20	2008	45
		2009	50

MEASURE or PROGRAM: STNDBY

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	2	75	0	77	0	0	0	77
2000	5	149	0	154	0	0	0	154
2001	6	224	0	230	0	0	0	230
2002	6	298	0	304	0	0	0	304
2003	13	373	0	386	0	0	0	386
2004	12	447	0	459	0	0	0	459
2005	20	522	0	542	0	0	0	542
2006	22	596	0	618	0	0	0	618
2007	19	671	0	690	0	0	0	690
2008	39	745	0	784	0	0	0	784
2009	18	745	0	763	0	0	0	763
2010	40	745	0	785	0	0	0	785
2011	18	745	0	763	0	0	0	763
2012	38	745	0	783	0	0	0	783
2013	19	745	0	764	0	0	0	764
2014	37	745	0	782	0	0	0	782
2015	45	745	0	790	0	0	0	790
2016	38	745	0	783	0	0	0	783
2017	46	745	0	791	0	0	0	791
2018	39	745	0	784	0	0	0	784
2019	48	745	0	793	0	0	0	793
2020	38	745	0	783	0	0	0	783
2021	45	745	0	790	0	0	0	790
2022	35	745	0	780	0	0	0	780
2023	40	745	0	785	0	0	0	785
2024	36	745	0	781	0	0	0	781
2025	45	745	0	790	0	0	0	790
2026	33	745	0	778	0	0	0	778
2027	35	745	0	780	0	0	0	780
2028	0	0	0	0	0	0	0	0
NOMINAL	837	18255	0	19092	0	0	0	19092
NPV	238	0	0	238	0	0	0	238

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 9999.00

MEASURE or PROGRAM: STNDBY

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	2	25	0	0	27	0	0	0	0	10	10	17
2000	6	50	0	0	56	0	0	0	0	10	10	46
2001	0	75	148	0	223	0	127	0	0	10	137	86
2002	0	100	159	0	259	0	141	0	0	10	151	108
2003	0	125	286	0	411	0	198	0	0	10	208	203
2004	0	150	265	0	415	0	29	0	0	10	39	376
2005	0	175	344	0	519	0	96	0	0	10	106	413
2006	0	200	314	0	514	0	46	0	0	10	56	458
2007	0	225	365	0	590	0	43	0	0	10	53	537
2008	0	250	660	0	910	0	73	0	0	10	83	827
2009	0	250	678	0	928	0	66	0	0	10	76	852
2010	0	250	703	0	953	0	55	0	0	10	65	888
2011	0	250	722	0	972	0	76	0	0	10	86	886
2012	0	250	746	0	996	0	67	0	0	10	77	919
2013	0	250	766	0	1016	0	62	0	0	10	62	954
2014	0	250	794	0	1044	0	62	0	0	10	72	972
2015	0	250	816	0	1066	0	44	0	0	10	54	1012
2016	0	250	843	0	1093	0	44	0	0	10	54	1039
2017	10	250	633	0	893	0	0	0	0	10	10	883
2018	0	250	897	0	1147	0	41	0	0	10	51	1096
2019	0	250	644	0	894	0	9	0	0	10	19	875
2020	0	250	952	0	1202	0	33	0	0	10	43	1159
2021	13	250	716	0	979	0	0	0	0	10	10	969
2022	0	250	1014	0	1264	0	26	0	0	10	36	1228
2023	0	250	727	0	977	0	2	0	0	10	12	965
2024	0	250	1076	0	1326	0	16	0	0	10	26	1300
2025	28	250	809	0	1087	0	0	0	0	10	10	1077
2026	0	250	1146	0	1396	0	9	0	0	10	19	1377
2027	11	250	822	0	1083	0	0	0	0	10	10	1073
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	70	6125	18045	0	24240	0	1355	0	0	290	1645	22595
NPV	14	1941	4993	0	6948	0	706	0	0	0	706	6242

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 8.49

MEASURE or PROGRAM: STNDBY

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	2	25	0	0	27	0	0	0	10	75	2	87	-60
2000	6	50	0	0	56	0	0	0	10	149	5	164	-108
2001	0	75	148	0	223	127	0	0	10	224	6	367	-144
2002	0	100	159	0	259	141	0	0	10	298	6	455	-196
2003	0	125	286	0	411	198	0	0	10	373	13	594	-183
2004	0	150	265	0	415	29	0	0	10	447	12	498	-83
2005	0	175	344	0	519	96	0	0	10	522	20	648	-129
2006	0	200	314	0	514	46	0	0	10	596	22	674	-160
2007	0	225	365	0	590	43	0	0	10	671	19	743	-153
2008	0	250	660	0	910	73	0	0	10	745	39	867	43
2009	0	250	678	0	928	66	0	0	10	745	18	839	89
2010	0	250	703	0	953	55	0	0	10	745	40	850	103
2011	0	250	722	0	972	76	0	0	10	745	18	849	123
2012	0	250	746	0	996	67	0	0	10	745	38	860	136
2013	0	250	766	0	1016	52	0	0	10	745	19	826	190
2014	0	250	794	0	1044	62	0	0	10	745	37	854	190
2015	0	250	816	0	1066	44	0	0	10	745	45	844	222
2016	0	250	843	0	1093	44	0	0	10	745	38	837	256
2017	10	250	633	0	893	0	0	0	10	745	46	801	92
2018	0	250	897	0	1147	41	0	0	10	745	39	835	312
2019	0	250	644	0	894	9	0	0	10	745	48	812	82
2020	0	250	952	0	1202	33	0	0	10	745	38	826	376
2021	13	250	716	0	979	0	0	0	10	745	45	800	179
2022	0	250	1014	0	1264	26	0	0	10	745	35	816	448
2023	0	250	727	0	977	2	0	0	10	745	40	797	180
2024	0	250	1076	0	1326	16	0	0	10	745	36	807	519
2025	28	250	809	0	1087	0	0	0	10	745	45	800	287
2026	0	250	1146	0	1396	9	0	0	10	745	33	797	599
2027	11	250	822	0	1083	0	0	0	10	745	35	790	293
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	70	6125	18045	0	24240	1355	0	0	290	18255	837	20737	3503
NPV	14	1941	4993	0	6948	706	0	0	0	0	238	944	6004

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.01

INPUT DATA

Base Code: RSC-01A

Measure Name: High Efficiency Air Source HP

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$500.00	2000	2,501
Incremental Annual O&M Cost:	\$0.00	2001	5,020
Non-Recurring Incentive per Participant:	\$250.00	2002	7,541
Utility Non-Recurring Cost per Participant:	\$40.00	2003	10,051
Utility Recurring Cost per Participant:	\$0.00	2004	12,546
Annual KWH Reduction:	750	2005	15,020
Peak Winter KW Reduction:	2.200	2006	17,472
Peak Summer KW Reduction:	0.270	2007	19,901
Life of Measure (years):	15	2008	22,307
		2009	24,690

MEASURE or PROGRAM: RSC-1AX

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	139	625	0	764	1289	0	1289	-525
2000	279	630	0	909	1339	0	1339	-430
2001	422	630	0	1052	1381	0	1381	-329
2002	566	628	0	1194	1418	0	1418	-224
2003	703	624	0	1327	1453	0	1453	-126
2004	844	619	0	1463	1486	0	1486	-23
2005	985	613	0	1598	1518	0	1518	80
2006	1119	607	0	1726	1550	0	1550	176
2007	1265	602	0	1867	1583	0	1583	284
2008	1421	596	0	2017	1629	0	1629	388
2009	1443	0	0	1443	0	0	0	1443
2010	1468	0	0	1468	0	0	0	1468
2011	1493	0	0	1493	0	0	0	1493
2012	1519	0	0	1519	0	0	0	1519
2013	1543	0	0	1543	0	0	0	1543
2014	1569	0	0	1569	0	0	0	1569
2015	1595	0	0	1595	0	0	0	1595
2016	1618	0	0	1618	0	0	0	1618
2017	1644	0	0	1644	0	0	0	1644
2018	1672	0	0	1672	0	0	0	1672
2019	1699	0	0	1699	0	0	0	1699
2020	1728	0	0	1728	0	0	0	1728
2021	1755	0	0	1755	0	0	0	1755
2022	1785	0	0	1785	0	0	0	1785
2023	1813	0	0	1813	0	0	0	1813
2024	1844	0	0	1844	0	0	0	1844
2025	1873	0	0	1873	0	0	0	1873
2026	1905	0	0	1905	0	0	0	1905
2027	1935	0	0	1935	0	0	0	1935
2028	0	0	0	0	0	0	0	0
NOMINAL	39644	6174	0	45818	14646	0	14646	31172
NPV	11847	0	0	11847	0	0	0	11847

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.60

MEASURE or PROGRAM: RSC-1AX

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	72	194	0	0	266	1289	0	0	0	103	1392	-1126
2000	187	390	0	0	577	1339	0	0	0	107	1446	-869
2001	118	586	295	0	999	1381	0	0	0	111	1492	-493
2002	195	781	364	0	1340	1418	0	0	0	113	1531	-191
2003	346	975	134	0	1455	1453	0	0	0	116	1569	-114
2004	429	1167	165	0	1761	1486	0	0	0	119	1605	156
2005	2213	1352	983	0	4548	1518	0	0	0	121	1639	2909
2006	503	1541	922	0	2966	1550	0	0	0	124	1674	1292
2007	576	1729	641	0	2946	1583	0	0	0	127	1710	1236
2008	686	1914	290	0	2890	1629	0	0	0	130	1759	1131
2009	697	1914	320	0	2931	0	0	0	0	0	0	2931
2010	700	1914	307	0	2921	0	0	0	0	0	0	2921
2011	683	1914	857	0	3454	0	0	0	0	0	0	3454
2012	690	1914	896	0	3500	0	0	0	0	0	0	3500
2013	701	1914	914	0	3529	0	0	0	0	0	0	3529
2014	714	1914	953	0	3581	0	0	0	0	0	0	3581
2015	725	1914	968	0	3607	0	0	0	0	0	0	3607
2016	712	1914	1641	0	4267	0	0	0	0	0	0	4267
2017	723	1914	1638	0	4275	0	0	0	0	0	0	4275
2018	734	1914	1748	0	4396	0	0	0	0	0	0	4396
2019	756	1914	1730	0	4400	0	0	0	0	0	0	4400
2020	765	1914	1854	0	4533	0	0	0	0	0	0	4533
2021	798	1914	1850	0	4562	0	0	0	0	0	0	4562
2022	802	1914	1975	0	4691	0	0	0	0	0	0	4691
2023	835	1914	1955	0	4704	0	0	0	0	0	0	4704
2024	848	1914	2095	0	4857	0	0	0	0	0	0	4857
2025	874	1914	2091	0	4879	0	0	0	0	0	0	4879
2026	889	1914	2231	0	5034	0	0	0	0	0	0	5034
2027	907	1914	2209	0	5030	0	0	0	0	0	0	5030
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	19878	46995	32026	0	98899	14646	0	0	0	1171	15817	83082
NPV	6494	14929	7751	0	29174	0	0	0	0	0	0	29174

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.66

MEASURE or PROGRAM: RSC-1AX

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	72	194	0	0	266	0	0	0	103	625	139	867	-601
2000	187	390	0	0	577	0	0	0	107	630	279	1016	-439
2001	118	586	295	0	999	0	0	0	111	630	422	1163	-164
2002	195	781	364	0	1340	0	0	0	113	628	566	1307	33
2003	346	975	134	0	1455	0	0	0	116	624	703	1443	12
2004	429	1167	165	0	1761	0	0	0	119	619	844	1582	179
2005	2213	1352	983	0	4548	0	0	0	121	613	985	1719	2829
2006	503	1541	922	0	2966	0	0	0	124	607	1119	1850	1116
2007	576	1729	641	0	2946	0	0	0	127	602	1265	1994	952
2008	686	1914	290	0	2890	0	0	0	130	596	1421	2147	743
2009	697	1914	320	0	2931	0	0	0	0	0	1443	1443	1488
2010	700	1914	307	0	2921	0	0	0	0	0	1468	1468	1453
2011	683	1914	857	0	3454	0	0	0	0	0	1493	1493	1961
2012	690	1914	896	0	3500	0	0	0	0	0	1519	1519	1981
2013	701	1914	914	0	3529	0	0	0	0	0	1543	1543	1986
2014	714	1914	953	0	3581	0	0	0	0	0	1569	1569	2012
2015	725	1914	968	0	3607	0	0	0	0	0	1595	1595	2012
2016	712	1914	1641	0	4267	0	0	0	0	0	1618	1618	2649
2017	723	1914	1638	0	4275	0	0	0	0	0	1644	1644	2631
2018	734	1914	1748	0	4396	0	0	0	0	0	1672	1672	2724
2019	756	1914	1730	0	4400	0	0	0	0	0	1699	1699	2701
2020	765	1914	1854	0	4533	0	0	0	0	0	1728	1728	2805
2021	798	1914	1850	0	4562	0	0	0	0	0	1755	1755	2807
2022	802	1914	1975	0	4691	0	0	0	0	0	1785	1785	2906
2023	835	1914	1955	0	4704	0	0	0	0	0	1813	1813	2891
2024	848	1914	2095	0	4857	0	0	0	0	0	1844	1844	3013
2025	874	1914	2091	0	4879	0	0	0	0	0	1873	1873	3006
2026	889	1914	2231	0	5034	0	0	0	0	0	1905	1905	3129
2027	907	1914	2209	0	5030	0	0	0	0	0	1935	1935	3095
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	19878	46995	32026	0	98899	0	0	0	1171	6174	39644	46989	51910
NPV	6494	14929	7751	0	29174	0	0	0	0	0	11847	11847	17327

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.71

INPUT DATA

Base Code: RSC-01B

Measure Name: High Efficiency Air Source HP

Vintage: New

		Year	Cumulative Participation
Incremental Participant Cost:	\$300.00	2000	352
Incremental Annual O&M Cost:	\$0.00	2001	709
Non-Recurring Incentive per Participant:	\$200.00	2002	1,069
Utility Non-Recurring Cost per Participant:	\$0.00	2003	1,431
Utility Recurring Cost per Participant:	\$0.00	2004	1,793
Annual KWH Reduction:	722	2005	2,156
Peak Winter KW Reduction:	0.293	2006	2,521
Peak Summer KW Reduction:	0.474	2007	2,890
Life of Measure (years):	15	2008	3,262
		2009	3,637

MEASURE or PROGRAM: RSC-1BN

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	19	14	0	33	109	0	109	-76
2000	38	14	0	52	114	0	114	-62
2001	58	14	0	72	118	0	118	-46
2002	78	14	0	92	123	0	123	-31
2003	97	14	0	111	127	0	127	-16
2004	117	15	0	132	131	0	131	1
2005	137	15	0	152	136	0	136	16
2006	157	15	0	172	141	0	141	31
2007	178	15	0	193	147	0	147	46
2008	201	15	0	216	154	0	154	62
2009	205	0	0	205	0	0	0	205
2010	208	0	0	208	0	0	0	208
2011	211	0	0	211	0	0	0	211
2012	215	0	0	215	0	0	0	215
2013	218	0	0	218	0	0	0	218
2014	222	0	0	222	0	0	0	222
2015	226	0	0	226	0	0	0	226
2016	229	0	0	229	0	0	0	229
2017	233	0	0	233	0	0	0	233
2018	237	0	0	237	0	0	0	237
2019	241	0	0	241	0	0	0	241
2020	245	0	0	245	0	0	0	245
2021	249	0	0	249	0	0	0	249
2022	253	0	0	253	0	0	0	253
2023	257	0	0	257	0	0	0	257
2024	261	0	0	261	0	0	0	261
2025	265	0	0	265	0	0	0	265
2026	270	0	0	270	0	0	0	270
2027	274	0	0	274	0	0	0	274
2028	0	0	0	0	0	0	0	0
NOMINAL	5599	145	0	5744	1300	0	1300	4444
NPV	1667	0	0	1667	0	0	0	1667

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.99

MEASURE or PROGRAM: RSC-1BN

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	9	8	0	0	17	109	0	0	0	0	109	-92
2000	21	16	0	0	37	114	0	0	0	0	114	-77
2001	18	24	13	0	55	118	0	0	0	0	118	-63
2002	34	33	18	0	85	123	0	0	0	0	123	-38
2003	47	41	18	0	106	127	0	0	0	0	127	-21
2004	49	49	24	0	122	131	0	0	0	0	131	-9
2005	109	58	30	0	197	136	0	0	0	0	136	61
2006	73	66	31	0	170	141	0	0	0	0	141	29
2007	82	75	34	0	191	147	0	0	0	0	147	44
2008	92	83	40	0	215	154	0	0	0	0	154	61
2009	93	83	41	0	217	0	0	0	0	0	0	217
2010	94	83	43	0	220	0	0	0	0	0	0	220
2011	96	83	43	0	222	0	0	0	0	0	0	222
2012	97	83	45	0	225	0	0	0	0	0	0	225
2013	98	83	46	0	227	0	0	0	0	0	0	227
2014	99	83	48	0	230	0	0	0	0	0	0	230
2015	101	83	49	0	233	0	0	0	0	0	0	233
2016	102	83	51	0	236	0	0	0	0	0	0	236
2017	103	83	52	0	238	0	0	0	0	0	0	238
2018	104	83	55	0	242	0	0	0	0	0	0	242
2019	106	83	55	0	244	0	0	0	0	0	0	244
2020	106	83	58	0	247	0	0	0	0	0	0	247
2021	109	83	58	0	250	0	0	0	0	0	0	250
2022	110	83	62	0	255	0	0	0	0	0	0	255
2023	112	83	62	0	257	0	0	0	0	0	0	257
2024	113	83	65	0	261	0	0	0	0	0	0	261
2025	115	83	66	0	264	0	0	0	0	0	0	264
2026	117	83	70	0	270	0	0	0	0	0	0	270
2027	118	83	70	0	271	0	0	0	0	0	0	271
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2527	2030	1247	0	5804	1300	0	0	0	0	1300	4504
NPV	772	642	352	0	1766	0	0	0	0	0	0	1766

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 1.98

MEASURE or PROGRAM: RSC-1BN

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	9	8	0	0	17	0	0	0	0	14	19	33	-16
2000	21	16	0	0	37	0	0	0	0	14	38	52	-15
2001	18	24	13	0	55	0	0	0	0	14	58	72	-17
2002	34	33	18	0	85	0	0	0	0	14	78	92	-7
2003	47	41	18	0	106	0	0	0	0	14	97	111	-5
2004	49	49	24	0	122	0	0	0	0	15	117	132	-10
2005	109	58	30	0	197	0	0	0	0	15	137	152	45
2006	73	66	31	0	170	0	0	0	0	15	157	172	-2
2007	82	75	34	0	191	0	0	0	0	15	178	193	-2
2008	92	83	40	0	215	0	0	0	0	15	201	216	-1
2009	93	83	41	0	217	0	0	0	0	0	205	205	12
2010	94	83	43	0	220	0	0	0	0	0	208	208	12
2011	96	83	43	0	222	0	0	0	0	0	211	211	11
2012	97	83	45	0	225	0	0	0	0	0	215	215	10
2013	98	83	46	0	227	0	0	0	0	0	218	218	9
2014	99	83	48	0	230	0	0	0	0	0	222	222	8
2015	101	83	49	0	233	0	0	0	0	0	226	226	7
2016	102	83	51	0	236	0	0	0	0	0	229	229	7
2017	103	83	52	0	238	0	0	0	0	0	233	233	5
2018	104	83	55	0	242	0	0	0	0	0	237	237	5
2019	106	83	55	0	244	0	0	0	0	0	241	241	3
2020	106	83	58	0	247	0	0	0	0	0	245	245	2
2021	109	83	58	0	250	0	0	0	0	0	249	249	1
2022	110	83	62	0	255	0	0	0	0	0	253	253	2
2023	112	83	62	0	257	0	0	0	0	0	257	257	0
2024	113	83	65	0	261	0	0	0	0	0	261	261	0
2025	115	83	66	0	264	0	0	0	0	0	265	265	-1
2026	117	83	70	0	270	0	0	0	0	0	270	270	0
2027	118	83	70	0	271	0	0	0	0	0	274	274	-3
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2527	2030	1247	0	5804	0	0	0	0	145	5599	5744	60
NPV	772	642	352	0	1766	0	0	0	0	0	1667	1667	99

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.00

INPUT DATA

Base Code: RSC-05A

Measure Name: Reduced Duct Leakage

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$250.00	2000	2,543
Incremental Annual O&M Cost:	\$0.00	2001	5,292
Non-Recurring Incentive per Participant:	\$125.00	2002	8,158
Utility Non-Recurring Cost per Participant:	\$25.00	2003	11,031
Utility Recurring Cost per Participant:	\$0.00	2004	13,798
Annual KWH Reduction:	500	2005	16,354
Peak Winter KW Reduction:	0.925	2006	18,621
Peak Summer KW Reduction:	0.473	2007	20,555
Life of Measure (years):	15	2008	22,139
		2009	23,387

MEASURE or PROGRAM: RSC-5AX

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	94	318	0	412	655	0	655	-243
2000	196	344	0	540	731	0	731	-191
2001	304	358	0	662	785	0	785	-123
2002	414	359	0	773	812	0	812	-39
2003	515	346	0	861	806	0	806	55
2004	612	320	0	932	767	0	767	165
2005	700	283	0	983	702	0	702	281
2006	772	242	0	1014	617	0	617	397
2007	835	198	0	1033	521	0	521	512
2008	901	156	0	1057	427	0	427	630
2009	916	0	0	916	0	0	0	916
2010	926	0	0	926	0	0	0	926
2011	941	0	0	941	0	0	0	941
2012	957	0	0	957	0	0	0	957
2013	972	0	0	972	0	0	0	972
2014	989	0	0	989	0	0	0	989
2015	1006	0	0	1006	0	0	0	1006
2016	1023	0	0	1023	0	0	0	1023
2017	1040	0	0	1040	0	0	0	1040
2018	1057	0	0	1057	0	0	0	1057
2019	1074	0	0	1074	0	0	0	1074
2020	1091	0	0	1091	0	0	0	1091
2021	1108	0	0	1108	0	0	0	1108
2022	1127	0	0	1127	0	0	0	1127
2023	1144	0	0	1144	0	0	0	1144
2024	1164	0	0	1164	0	0	0	1164
2025	1183	0	0	1183	0	0	0	1183
2026	1203	0	0	1203	0	0	0	1203
2027	1222	0	0	1222	0	0	0	1222
2028	0	0	0	0	0	0	0	0
NOMINAL	25486	2924	0	28410	6823	0	6823	21587
NPV	7784	0	0	7784	0	0	0	7784

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 2.02

MEASURE or PROGRAM: RSC-5AX

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	48	89	0	0	137	655	0	0	0	66	721	-584
2000	136	185	0	0	321	731	0	0	0	73	804	-483
2001	119	285	162	0	566	785	0	0	0	79	864	-298
2002	183	386	216	0	785	812	0	0	0	81	893	-108
2003	253	482	0	0	735	806	0	0	0	81	887	-152
2004	310	572	0	0	882	767	0	0	0	77	844	38
2005	1576	645	500	0	2721	702	0	0	0	70	772	1949
2006	346	714	452	0	1512	617	0	0	0	62	679	833
2007	362	770	504	0	1636	521	0	0	0	52	573	1063
2008	429	813	61	0	1303	427	0	0	0	43	470	833
2009	435	813	80	0	1328	0	0	0	0	0	0	1328
2010	403	813	602	0	1818	0	0	0	0	0	0	1818
2011	417	813	602	0	1832	0	0	0	0	0	0	1832
2012	421	813	638	0	1872	0	0	0	0	0	0	1872
2013	431	813	644	0	1888	0	0	0	0	0	0	1888
2014	436	813	680	0	1929	0	0	0	0	0	0	1929
2015	441	813	680	0	1934	0	0	0	0	0	0	1934
2016	446	813	721	0	1980	0	0	0	0	0	0	1980
2017	454	813	727	0	1994	0	0	0	0	0	0	1994
2018	457	813	768	0	2038	0	0	0	0	0	0	2038
2019	467	813	768	0	2048	0	0	0	0	0	0	2048
2020	480	813	814	0	2107	0	0	0	0	0	0	2107
2021	497	813	822	0	2132	0	0	0	0	0	0	2132
2022	500	813	868	0	2181	0	0	0	0	0	0	2181
2023	519	813	868	0	2200	0	0	0	0	0	0	2200
2024	523	813	920	0	2256	0	0	0	0	0	0	2256
2025	537	813	929	0	2279	0	0	0	0	0	0	2279
2026	545	813	981	0	2339	0	0	0	0	0	0	2339
2027	560	813	980	0	2353	0	0	0	0	0	0	2353
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	12731	20388	15987	0	49106	6823	0	0	0	684	7507	41599
NPV	4319	6627	4100	0	15046	0	0	0	0	0	0	15046

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.78

MEASURE or PROGRAM: RSC-5AX

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	48	89	0	0	137	0	0	0	66	318	94	478	-341
2000	136	185	0	0	321	0	0	0	73	344	196	613	-292
2001	119	285	162	0	566	0	0	0	79	358	304	741	-175
2002	183	386	216	0	785	0	0	0	81	359	414	854	-69
2003	253	482	0	0	735	0	0	0	81	346	515	942	-207
2004	310	572	0	0	882	0	0	0	77	320	612	1009	-127
2005	1576	645	500	0	2721	0	0	0	70	283	700	1053	1668
2006	346	714	452	0	1512	0	0	0	62	242	772	1076	436
2007	362	770	504	0	1636	0	0	0	52	198	835	1085	551
2008	429	813	61	0	1303	0	0	0	43	156	901	1100	203
2009	435	813	80	0	1328	0	0	0	0	0	916	916	412
2010	403	813	602	0	1818	0	0	0	0	0	926	926	892
2011	417	813	602	0	1832	0	0	0	0	0	941	941	891
2012	421	813	638	0	1872	0	0	0	0	0	957	957	915
2013	431	813	644	0	1888	0	0	0	0	0	972	972	916
2014	436	813	680	0	1929	0	0	0	0	0	989	989	940
2015	441	813	680	0	1934	0	0	0	0	0	1006	1006	928
2016	446	813	721	0	1980	0	0	0	0	0	1023	1023	957
2017	454	813	727	0	1994	0	0	0	0	0	1040	1040	954
2018	457	813	768	0	2038	0	0	0	0	0	1057	1057	981
2019	467	813	768	0	2048	0	0	0	0	0	1074	1074	974
2020	480	813	814	0	2107	0	0	0	0	0	1091	1091	1016
2021	497	813	822	0	2132	0	0	0	0	0	1108	1108	1024
2022	500	813	868	0	2181	0	0	0	0	0	1127	1127	1054
2023	519	813	868	0	2200	0	0	0	0	0	1144	1144	1056
2024	523	813	920	0	2256	0	0	0	0	0	1164	1164	1082
2025	537	813	929	0	2279	0	0	0	0	0	1183	1183	1096
2026	545	813	981	0	2339	0	0	0	0	0	1203	1203	1136
2027	560	813	980	0	2353	0	0	0	0	0	1222	1222	1131
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	12731	20388	15987	0	49106	0	0	0	684	2924	25486	29094	20012
NPV	4319	6627	4100	0	15046	0	0	0	0	0	7784	7784	7262

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.44

INPUT DATA

Base Code: RSC-05B

Measure Name: Reduced Duct Leakage

Vintage: New

		Year	Cumulative Participation
Incremental Participant Cost:	\$175.00	2000	5,500
Incremental Annual O&M Cost:	\$0.00	2001	12,651
Non-Recurring Incentive per Participant:	\$125.00	2002	21,538
Utility Non-Recurring Cost per Participant:	\$25.00	2003	32,112
Utility Recurring Cost per Participant:	\$0.00	2004	44,192
Annual KWH Reduction:	500	2005	57,513
Peak Winter KW Reduction:	1.000	2006	71,804
Peak Summer KW Reduction:	0.500	2007	86,748
Life of Measure (years):	15	2008	102,064
		2009	117,520

MEASURE or PROGRAM: RSC-5BN

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	204	688	0	892	992	0	992	-100
2000	462	894	0	1356	1330	0	1330	26
2001	804	1111	0	1915	1704	0	1704	211
2002	1206	1322	0	2528	2091	0	2091	437
2003	1659	1510	0	3169	2463	0	2463	706
2004	2158	1665	0	3823	2800	0	2800	1023
2005	2697	1786	0	4483	3097	0	3097	1386
2006	3252	1868	0	5120	3339	0	3339	1781
2007	3849	1915	0	5764	3528	0	3528	2236
2008	4502	1932	0	6434	3699	0	3699	2735
2009	4575	0	0	4575	0	0	0	4575
2010	4651	0	0	4651	0	0	0	4651
2011	4729	0	0	4729	0	0	0	4729
2012	4807	0	0	4807	0	0	0	4807
2013	4885	0	0	4885	0	0	0	4885
2014	4966	0	0	4966	0	0	0	4966
2015	5048	0	0	5048	0	0	0	5048
2016	5132	0	0	5132	0	0	0	5132
2017	5218	0	0	5218	0	0	0	5218
2018	5305	0	0	5305	0	0	0	5305
2019	5391	0	0	5391	0	0	0	5391
2020	5480	0	0	5480	0	0	0	5480
2021	5569	0	0	5569	0	0	0	5569
2022	5662	0	0	5662	0	0	0	5662
2023	5753	0	0	5753	0	0	0	5753
2024	5849	0	0	5849	0	0	0	5849
2025	5944	0	0	5944	0	0	0	5944
2026	6042	0	0	6042	0	0	0	6042
2027	6140	0	0	6140	0	0	0	6140
2028	0	0	0	0	0	0	0	0
NOMINAL	121939	14691	0	136630	25043	0	25043	111587
NPV	34984	0	0	34984	0	0	0	34984

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 2.75

MEASURE or PROGRAM: RSC-5BN

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	104	136	0	0	240	992	0	0	0	142	1134	-894
2000	286	312	0	0	598	1330	0	0	0	190	1520	-922
2001	274	531	348	0	1153	1704	0	0	0	243	1947	-794
2002	407	784	522	0	1713	2091	0	0	0	299	2390	-677
2003	816	1082	250	0	2148	2463	0	0	0	352	2815	-667
2004	1064	1412	526	0	3002	2800	0	0	0	400	3200	-198
2005	3321	1765	1310	0	6396	3097	0	0	0	442	3539	2857
2006	1497	2134	1408	0	5039	3339	0	0	0	477	3816	1223
2007	1826	2512	754	0	5092	3528	0	0	0	504	4032	1060
2008	2146	2893	529	0	5568	3699	0	0	0	528	4227	1341
2009	2173	2893	567	0	5633	0	0	0	0	0	0	5633
2010	2191	2893	559	0	5643	0	0	0	0	0	0	5643
2011	2191	2893	1136	0	6220	0	0	0	0	0	0	6220
2012	2207	2893	1185	0	6285	0	0	0	0	0	0	6285
2013	2249	2893	1211	0	6353	0	0	0	0	0	0	6353
2014	2274	2893	1258	0	6425	0	0	0	0	0	0	6425
2015	2305	2893	1284	0	6482	0	0	0	0	0	0	6482
2016	2329	2893	1339	0	6561	0	0	0	0	0	0	6561
2017	2330	2893	1991	0	7214	0	0	0	0	0	0	7214
2018	2361	2893	2113	0	7367	0	0	0	0	0	0	7367
2019	2405	2893	2107	0	7405	0	0	0	0	0	0	7405
2020	2423	2893	2245	0	7561	0	0	0	0	0	0	7561
2021	2481	2893	2250	0	7624	0	0	0	0	0	0	7624
2022	2512	2893	2387	0	7792	0	0	0	0	0	0	7792
2023	2562	2893	2380	0	7835	0	0	0	0	0	0	7835
2024	2594	2893	2537	0	8024	0	0	0	0	0	0	8024
2025	2635	2893	2542	0	8070	0	0	0	0	0	0	8070
2026	2681	2893	2698	0	8272	0	0	0	0	0	0	8272
2027	2725	2893	2689	0	8307	0	0	0	0	0	0	8307
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	57369	68528	40125	0	166022	25043	0	0	0	3577	28620	137402
NPV	17279	20850	10200	0	48328	0	0	0	0	0	0	48328

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.60

MEASURE or PROGRAM: RSC-5BN

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	104	136	0	0	240	0	0	0	142	688	204	1034	-794
2000	286	312	0	0	598	0	0	0	190	894	462	1546	-948
2001	274	531	348	0	1153	0	0	0	243	1111	804	2158	-1005
2002	407	784	522	0	1713	0	0	0	299	1322	1206	2827	-1114
2003	816	1082	250	0	2148	0	0	0	352	1510	1659	3521	-1373
2004	1064	1412	526	0	3002	0	0	0	400	1665	2158	4223	-1221
2005	3321	1765	1310	0	6396	0	0	0	442	1786	2697	4925	1471
2006	1497	2134	1408	0	5039	0	0	0	477	1868	3252	5597	-558
2007	1826	2512	754	0	5092	0	0	0	504	1915	3849	6268	-1176
2008	2146	2893	529	0	5568	0	0	0	528	1932	4502	6962	-1394
2009	2173	2893	567	0	5633	0	0	0	0	0	4575	4575	1058
2010	2191	2893	559	0	5643	0	0	0	0	0	4651	4651	992
2011	2191	2893	1136	0	6220	0	0	0	0	0	4729	4729	1491
2012	2207	2893	1185	0	6285	0	0	0	0	0	4807	4807	1478
2013	2249	2893	1211	0	6353	0	0	0	0	0	4885	4885	1468
2014	2274	2893	1258	0	6425	0	0	0	0	0	4966	4966	1459
2015	2305	2893	1284	0	6482	0	0	0	0	0	5048	5048	1434
2016	2329	2893	1339	0	6561	0	0	0	0	0	5132	5132	1429
2017	2330	2893	1991	0	7214	0	0	0	0	0	5218	5218	1996
2018	2361	2893	2113	0	7367	0	0	0	0	0	5305	5305	2062
2019	2405	2893	2107	0	7405	0	0	0	0	0	5391	5391	2014
2020	2423	2893	2245	0	7561	0	0	0	0	0	5480	5480	2081
2021	2481	2893	2250	0	7624	0	0	0	0	0	5569	5569	2055
2022	2512	2893	2387	0	7792	0	0	0	0	0	5662	5662	2130
2023	2562	2893	2380	0	7835	0	0	0	0	0	5753	5753	2082
2024	2594	2893	2537	0	8024	0	0	0	0	0	5849	5849	2175
2025	2635	2893	2542	0	8070	0	0	0	0	0	5944	5944	2126
2026	2681	2893	2698	0	8272	0	0	0	0	0	6042	6042	2230
2027	2725	2893	2689	0	8307	0	0	0	0	0	6140	6140	2167
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	57369	68528	40125	0	166022	0	0	0	3577	14691	121939	140207	25815
NPV	17279	20850	10200	0	48328	0	0	0	0	0	34984	34984	13344

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.03

INPUT DATA

Base Code: RSC-05B

Measure Name: Reduced Duct Leakage

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$250.00	2000	2,487
Incremental Annual O&M Cost:	\$0.00	2001	5,175
Non-Recurring Incentive per Participant:	\$125.00	2002	7,978
Utility Non-Recurring Cost per Participant:	\$25.00	2003	10,788
Utility Recurring Cost per Participant:	\$0.00	2004	13,493
Annual KWH Reduction:	500	2005	15,992
Peak Winter KW Reduction:	0.925	2006	18,210
Peak Summer KW Reduction:	0.473	2007	20,100
Life of Measure (years):	15	2008	21,650
		2009	22,870

MEASURE or PROGRAM: RSC-5BX

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	92	311	0	403	641	0	641	-238
2000	192	336	0	528	714	0	714	-186
2001	298	350	0	648	768	0	768	-120
2002	405	351	0	756	794	0	794	-38
2003	503	338	0	841	788	0	788	53
2004	601	312	0	913	750	0	750	163
2005	684	277	0	961	687	0	687	274
2006	754	236	0	990	603	0	603	387
2007	816	194	0	1010	510	0	510	500
2008	880	153	0	1033	417	0	417	616
2009	890	0	0	890	0	0	0	890
2010	905	0	0	905	0	0	0	905
2011	919	0	0	919	0	0	0	919
2012	935	0	0	935	0	0	0	935
2013	950	0	0	950	0	0	0	950
2014	966	0	0	966	0	0	0	966
2015	983	0	0	983	0	0	0	983
2016	999	0	0	999	0	0	0	999
2017	1016	0	0	1016	0	0	0	1016
2018	1033	0	0	1033	0	0	0	1033
2019	1048	0	0	1048	0	0	0	1048
2020	1065	0	0	1065	0	0	0	1065
2021	1082	0	0	1082	0	0	0	1082
2022	1100	0	0	1100	0	0	0	1100
2023	1118	0	0	1118	0	0	0	1118
2024	1136	0	0	1136	0	0	0	1136
2025	1155	0	0	1155	0	0	0	1155
2026	1174	0	0	1174	0	0	0	1174
2027	1193	0	0	1193	0	0	0	1193
2028	0	0	0	0	0	0	0	0
NOMINAL	24892	2858	0	27750	6672	0	6672	21078
NPV	7605	0	0	7605	0	0	0	7605

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 2.02

MEASURE or PROGRAM: RSC-5BX

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	47	61	0	0	108	641	0	0	0	64	705	-597
2000	135	128	0	0	263	714	0	0	0	71	785	-522
2001	132	197	129	0	458	768	0	0	0	77	845	-387
2002	183	266	178	0	627	794	0	0	0	79	873	-246
2003	248	333	0	0	581	788	0	0	0	79	867	-286
2004	288	394	226	0	908	750	0	0	0	75	825	83
2005	1367	444	336	0	2147	687	0	0	0	69	756	1391
2006	348	491	328	0	1167	603	0	0	0	60	663	504
2007	368	530	355	0	1253	510	0	0	0	51	561	692
2008	422	560	0	0	982	417	0	0	0	42	459	523
2009	402	560	402	0	1364	0	0	0	0	0	0	1364
2010	407	560	430	0	1397	0	0	0	0	0	0	1397
2011	415	560	423	0	1398	0	0	0	0	0	0	1398
2012	417	560	457	0	1434	0	0	0	0	0	0	1434
2013	428	560	455	0	1443	0	0	0	0	0	0	1443
2014	434	560	485	0	1479	0	0	0	0	0	0	1479
2015	436	560	478	0	1474	0	0	0	0	0	0	1474
2016	441	560	516	0	1517	0	0	0	0	0	0	1517
2017	444	560	514	0	1518	0	0	0	0	0	0	1518
2018	453	560	548	0	1561	0	0	0	0	0	0	1561
2019	466	560	540	0	1566	0	0	0	0	0	0	1566
2020	474	560	582	0	1616	0	0	0	0	0	0	1616
2021	487	560	580	0	1627	0	0	0	0	0	0	1627
2022	493	560	620	0	1673	0	0	0	0	0	0	1673
2023	504	560	610	0	1674	0	0	0	0	0	0	1674
2024	508	560	658	0	1726	0	0	0	0	0	0	1726
2025	519	560	656	0	1735	0	0	0	0	0	0	1735
2026	530	560	700	0	1790	0	0	0	0	0	0	1790
2027	538	560	689	0	1787	0	0	0	0	0	0	1787
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	12334	14044	11895	0	38273	6672	0	0	0	667	7339	30934
NPV	4147	4566	3214	0	11927	0	0	0	0	0	0	11927

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.25

MEASURE or PROGRAM: RSC-5BX

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	47	61	0	0	108	0	0	0	64	311	92	467	-359
2000	135	128	0	0	263	0	0	0	71	336	192	599	-336
2001	132	197	129	0	458	0	0	0	77	350	298	725	-267
2002	183	266	178	0	627	0	0	0	79	351	405	835	-208
2003	248	333	0	0	581	0	0	0	79	338	503	920	-339
2004	288	394	226	0	908	0	0	0	75	312	601	988	-80
2005	1367	444	336	0	2147	0	0	0	69	277	684	1030	1117
2006	348	491	328	0	1167	0	0	0	60	236	754	1050	117
2007	368	530	355	0	1253	0	0	0	51	194	816	1061	192
2008	422	560	0	0	982	0	0	0	42	153	880	1075	-93
2009	402	560	402	0	1364	0	0	0	0	0	890	890	474
2010	407	560	430	0	1397	0	0	0	0	0	905	905	492
2011	415	560	423	0	1398	0	0	0	0	0	919	919	479
2012	417	560	457	0	1434	0	0	0	0	0	935	935	499
2013	428	560	455	0	1443	0	0	0	0	0	950	950	493
2014	434	560	485	0	1479	0	0	0	0	0	966	966	513
2015	436	560	478	0	1474	0	0	0	0	0	983	983	491
2016	441	560	516	0	1517	0	0	0	0	0	999	999	518
2017	444	560	514	0	1518	0	0	0	0	0	1016	1016	502
2018	453	560	548	0	1561	0	0	0	0	0	1033	1033	528
2019	466	560	540	0	1566	0	0	0	0	0	1048	1048	518
2020	474	560	582	0	1616	0	0	0	0	0	1065	1065	551
2021	487	560	580	0	1627	0	0	0	0	0	1082	1082	545
2022	493	560	620	0	1673	0	0	0	0	0	1100	1100	573
2023	504	560	610	0	1674	0	0	0	0	0	1118	1118	556
2024	508	560	658	0	1726	0	0	0	0	0	1136	1136	590
2025	519	560	656	0	1735	0	0	0	0	0	1155	1155	580
2026	530	560	700	0	1790	0	0	0	0	0	1174	1174	616
2027	538	560	689	0	1787	0	0	0	0	0	1193	1193	594
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	12334	14044	11895	0	38273	0	0	0	667	2858	24892	28417	9856
NPV	4147	4566	3214	0	11927	0	0	0	0	0	7605	7605	4322

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.17

INPUT DATA

Base Code: RSC-09A

Measure Name: Ceiling Insulation - New Dwelling

Vintage: New

		Year	Cumulative Participation
Incremental Participant Cost:	\$220.00	2000	326
Incremental Annual O&M Cost:	\$0.00	2001	750
Non-Recurring Incentive per Participant:	\$17.00	2002	1,277
Utility Non-Recurring Cost per Participant:	\$10.00	2003	1,904
Utility Recurring Cost per Participant:	\$0.00	2004	2,620
Annual KWH Reduction:	336	2005	3,410
Peak Winter KW Reduction:	0.397	2006	4,257
Peak Summer KW Reduction:	0.210	2007	5,143
Life of Measure (years):	30	2008	6,051
		2009	6,968

MEASURE or PROGRAM: RSC-9AN

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	8	6	0	14	74	0	74	-60
2000	19	7	0	26	99	0	99	-73
2001	32	9	0	41	127	0	127	-86
2002	48	11	0	59	156	0	156	-97
2003	66	12	0	78	183	0	183	-105
2004	86	13	0	99	209	0	209	-110
2005	108	14	0	122	231	0	231	-109
2006	131	15	0	146	249	0	249	-103
2007	154	15	0	169	263	0	263	-94
2008	180	16	0	196	276	0	276	-80
2009	183	0	0	183	0	0	0	183
2010	186	0	0	186	0	0	0	186
2011	189	0	0	189	0	0	0	189
2012	192	0	0	192	0	0	0	192
2013	196	0	0	196	0	0	0	196
2014	199	0	0	199	0	0	0	199
2015	202	0	0	202	0	0	0	202
2016	205	0	0	205	0	0	0	205
2017	209	0	0	209	0	0	0	209
2018	212	0	0	212	0	0	0	212
2019	216	0	0	216	0	0	0	216
2020	219	0	0	219	0	0	0	219
2021	223	0	0	223	0	0	0	223
2022	227	0	0	227	0	0	0	227
2023	230	0	0	230	0	0	0	230
2024	234	0	0	234	0	0	0	234
2025	238	0	0	238	0	0	0	238
2026	242	0	0	242	0	0	0	242
2027	246	0	0	246	0	0	0	246
2028	0	0	0	0	0	0	0	0
NOMINAL	4880	118	0	4998	1867	0	1867	3131
NPV	1400	0	0	1400	0	0	0	1400

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.22

MEASURE or PROGRAM: RSC-9AN

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	4	6	0	0	10	74	0	0	0	3	77	-67
2000	10	14	0	0	24	99	0	0	0	5	104	-80
2001	6	24	12	0	42	127	0	0	0	6	133	-91
2002	19	35	18	0	72	156	0	0	0	7	163	-91
2003	30	49	26	0	105	183	0	0	0	8	191	-86
2004	32	63	26	0	121	209	0	0	0	9	218	-97
2005	691	79	59	0	829	231	0	0	0	10	241	588
2006	57	95	57	0	209	249	0	0	0	11	260	-51
2007	65	112	71	0	248	263	0	0	0	12	275	-27
2008	77	129	88	0	294	276	0	0	0	13	289	5
2009	78	129	88	0	295	0	0	0	0	0	0	295
2010	78	129	93	0	300	0	0	0	0	0	0	300
2011	81	129	93	0	303	0	0	0	0	0	0	303
2012	81	129	99	0	309	0	0	0	0	0	0	309
2013	83	129	99	0	311	0	0	0	0	0	0	311
2014	84	129	105	0	318	0	0	0	0	0	0	318
2015	86	129	105	0	320	0	0	0	0	0	0	320
2016	86	129	112	0	327	0	0	0	0	0	0	327
2017	89	129	113	0	331	0	0	0	0	0	0	331
2018	90	129	119	0	338	0	0	0	0	0	0	338
2019	92	129	119	0	340	0	0	0	0	0	0	340
2020	92	129	126	0	347	0	0	0	0	0	0	347
2021	95	129	128	0	352	0	0	0	0	0	0	352
2022	96	129	135	0	360	0	0	0	0	0	0	360
2023	99	129	134	0	362	0	0	0	0	0	0	362
2024	99	129	143	0	371	0	0	0	0	0	0	371
2025	103	129	145	0	377	0	0	0	0	0	0	377
2026	104	129	152	0	385	0	0	0	0	0	0	385
2027	106	129	152	0	387	0	0	0	0	0	0	387
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2713	3057	2617	0	8387	1867	0	0	0	84	1951	6436
NPV	983	931	697	0	2610	0	0	0	0	0	0	2610

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.06

MEASURE or PROGRAM: RSC-9AN

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	4	6	0	0	10	0	0	0	3	6	8	17	-7
2000	10	14	0	0	24	0	0	0	5	7	19	31	-7
2001	8	24	12	0	42	0	0	0	6	9	32	47	-5
2002	19	35	18	0	72	0	0	0	7	11	48	66	6
2003	30	49	26	0	105	0	0	0	8	12	66	86	19
2004	32	63	26	0	121	0	0	0	9	13	86	108	13
2005	691	79	59	0	829	0	0	0	10	14	108	132	697
2006	57	95	57	0	209	0	0	0	11	15	131	157	52
2007	65	112	71	0	248	0	0	0	12	15	154	181	67
2008	77	129	88	0	294	0	0	0	13	16	180	209	85
2009	78	129	88	0	295	0	0	0	0	0	183	183	112
2010	78	129	93	0	300	0	0	0	0	0	186	186	114
2011	81	129	93	0	303	0	0	0	0	0	189	189	114
2012	81	129	99	0	309	0	0	0	0	0	192	192	117
2013	83	129	99	0	311	0	0	0	0	0	196	196	115
2014	84	129	105	0	318	0	0	0	0	0	199	199	119
2015	86	129	105	0	320	0	0	0	0	0	202	202	118
2016	86	129	112	0	327	0	0	0	0	0	205	205	122
2017	89	129	113	0	331	0	0	0	0	0	209	209	122
2018	90	129	119	0	338	0	0	0	0	0	212	212	126
2019	92	129	119	0	340	0	0	0	0	0	216	216	124
2020	92	129	126	0	347	0	0	0	0	0	219	219	128
2021	95	129	128	0	352	0	0	0	0	0	223	223	129
2022	96	129	135	0	360	0	0	0	0	0	227	227	133
2023	99	129	134	0	362	0	0	0	0	0	230	230	132
2024	99	129	143	0	371	0	0	0	0	0	234	234	137
2025	103	129	145	0	377	0	0	0	0	0	238	238	139
2026	104	129	152	0	385	0	0	0	0	0	242	242	143
2027	106	129	152	0	387	0	0	0	0	0	246	246	141
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2713	3057	2617	0	8387	0	0	0	84	118	4880	5082	3305
NPV	983	931	697	0	2610	0	0	0	0	0	1400	1400	1210

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.70

INPUT DATA

Base Code: RSC-09B

Measure Name: Ceiling Insulation - New Dwelling

Vintage: New

		Year	Cumulative Participation
Incremental Participant Cost:	\$220.00	2000	197
Incremental Annual O&M Cost:	\$0.00	2001	452
Non-Recurring Incentive per Participant:	\$10.00	2002	770
Utility Non-Recurring Cost per Participant:	\$10.00	2003	1,148
Utility Recurring Cost per Participant:	\$0.00	2004	1,579
Annual KWH Reduction:	288	2005	2,056
Peak Winter KW Reduction:	0.233	2006	2,566
Peak Summer KW Reduction:	0.227	2007	3,101
Life of Measure (years):	30	2008	3,648
		2009	4,200

MEASURE or PROGRAM: RSC-9BN

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	4	2	0	6	45	0	45	-39
2000	10	3	0	13	60	0	60	-47
2001	17	3	0	20	77	0	77	-57
2002	25	4	0	29	94	0	94	-65
2003	34	4	0	38	110	0	110	-72
2004	44	5	0	49	126	0	126	-77
2005	56	5	0	61	139	0	139	-78
2006	67	5	0	72	150	0	150	-78
2007	79	5	0	84	158	0	158	-74
2008	92	6	0	98	166	0	166	-68
2009	94	0	0	94	0	0	0	94
2010	95	0	0	95	0	0	0	95
2011	97	0	0	97	0	0	0	97
2012	99	0	0	99	0	0	0	99
2013	100	0	0	100	0	0	0	100
2014	102	0	0	102	0	0	0	102
2015	104	0	0	104	0	0	0	104
2016	105	0	0	105	0	0	0	105
2017	107	0	0	107	0	0	0	107
2018	109	0	0	109	0	0	0	109
2019	110	0	0	110	0	0	0	110
2020	112	0	0	112	0	0	0	112
2021	114	0	0	114	0	0	0	114
2022	116	0	0	116	0	0	0	116
2023	118	0	0	118	0	0	0	118
2024	120	0	0	120	0	0	0	120
2025	122	0	0	122	0	0	0	122
2026	124	0	0	124	0	0	0	124
2027	126	0	0	126	0	0	0	126
2028	0	0	0	0	0	0	0	0
NOMINAL	2502	42	0	2544	1125	0	1125	1419
NPV	719	0	0	719	0	0	0	719

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.02

MEASURE or PROGRAM: RSC-9BN

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	2	4	0	0	6	45	0	0	0	2	47	-41
2000	6	8	0	0	14	60	0	0	0	3	63	-49
2001	3	15	8	0	26	77	0	0	0	3	80	-54
2002	11	22	12	0	45	94	0	0	0	4	98	-53
2003	17	30	15	0	62	110	0	0	0	5	115	-53
2004	14	39	17	0	70	126	0	0	0	6	132	-62
2005	78	48	34	0	160	139	0	0	0	6	145	15
2006	31	58	36	0	125	150	0	0	0	7	157	-32
2007	35	69	44	0	148	158	0	0	0	7	165	-17
2008	41	79	55	0	175	166	0	0	0	8	174	1
2009	42	79	55	0	176	0	0	0	0	0	0	176
2010	42	79	59	0	180	0	0	0	0	0	0	180
2011	44	79	57	0	180	0	0	0	0	0	0	180
2012	44	79	62	0	185	0	0	0	0	0	0	185
2013	45	79	62	0	186	0	0	0	0	0	0	186
2014	45	79	67	0	191	0	0	0	0	0	0	191
2015	47	79	65	0	191	0	0	0	0	0	0	191
2016	47	79	70	0	196	0	0	0	0	0	0	196
2017	48	79	69	0	196	0	0	0	0	0	0	196
2018	49	79	75	0	203	0	0	0	0	0	0	203
2019	50	79	73	0	202	0	0	0	0	0	0	202
2020	50	79	78	0	207	0	0	0	0	0	0	207
2021	52	79	78	0	209	0	0	0	0	0	0	209
2022	53	79	85	0	217	0	0	0	0	0	0	217
2023	54	79	83	0	216	0	0	0	0	0	0	216
2024	55	79	89	0	223	0	0	0	0	0	0	223
2025	56	79	88	0	223	0	0	0	0	0	0	223
2026	57	79	96	0	232	0	0	0	0	0	0	232
2027	58	79	94	0	231	0	0	0	0	0	0	231
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	1176	1873	1626	0	4675	1125	0	0	0	51	1176	3499
NPV	351	570	433	0	1354	0	0	0	0	0	0	1354

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 1.77

MEASURE or PROGRAM: RSC-9BN

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	2	4	0	0	6	0	0	0	2	2	4	8	-2
2000	6	8	0	0	14	0	0	0	3	3	10	16	-2
2001	3	15	8	0	26	0	0	0	3	3	17	23	3
2002	11	22	12	0	45	0	0	0	4	4	25	33	12
2003	17	30	15	0	62	0	0	0	5	4	34	43	19
2004	14	39	17	0	70	0	0	0	6	5	44	55	15
2005	78	48	34	0	160	0	0	0	6	5	56	67	93
2006	31	58	36	0	125	0	0	0	7	5	67	79	46
2007	35	69	44	0	148	0	0	0	7	5	79	91	57
2008	41	79	55	0	175	0	0	0	8	6	92	106	69
2009	42	79	55	0	176	0	0	0	0	0	94	94	82
2010	42	79	59	0	180	0	0	0	0	0	95	95	85
2011	44	79	57	0	180	0	0	0	0	0	97	97	83
2012	44	79	62	0	185	0	0	0	0	0	99	99	86
2013	45	79	62	0	186	0	0	0	0	0	100	100	86
2014	45	79	67	0	191	0	0	0	0	0	102	102	89
2015	47	79	65	0	191	0	0	0	0	0	104	104	87
2016	47	79	70	0	196	0	0	0	0	0	105	105	91
2017	48	79	69	0	196	0	0	0	0	0	107	107	89
2018	49	79	75	0	203	0	0	0	0	0	109	109	94
2019	50	79	73	0	202	0	0	0	0	0	110	110	92
2020	50	79	78	0	207	0	0	0	0	0	112	112	95
2021	52	79	78	0	209	0	0	0	0	0	114	114	95
2022	53	79	85	0	217	0	0	0	0	0	116	116	101
2023	54	79	83	0	216	0	0	0	0	0	118	118	98
2024	55	79	89	0	223	0	0	0	0	0	120	120	103
2025	56	79	88	0	223	0	0	0	0	0	122	122	101
2026	57	79	96	0	232	0	0	0	0	0	124	124	108
2027	58	79	94	0	231	0	0	0	0	0	126	126	105
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	1176	1873	1626	0	4675	0	0	0	51	42	2502	2595	2080
NPV	351	570	433	0	1354	0	0	0	0	0	719	719	635

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.73

INPUT DATA

Base Code: RSC-10A

Measure Name: Ceiling Ins. (R5-R24)

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$250.00	2000	1,986
Incremental Annual O&M Cost:	\$0.00	2001	4,133
Non-Recurring Incentive per Participant:	\$75.00	2002	6,370
Utility Non-Recurring Cost per Participant:	\$40.00	2003	8,614
Utility Recurring Cost per Participant:	\$0.00	2004	10,774
Annual KWH Reduction:	487.5	2005	12,770
Peak Winter KW Reduction:	0.661	2006	14,541
Peak Summer KW Reduction:	0.502	2007	16,050
Life of Measure (years):	30	2008	17,288
		2009	18,262

MEASURE or PROGRAM: RSC-10AX

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	72	149	0	221	497	0	497	-276
2000	150	161	0	311	553	0	553	-242
2001	232	168	0	400	594	0	594	-194
2002	316	168	0	484	615	0	615	-131
2003	392	162	0	554	610	0	610	-56
2004	471	150	0	621	581	0	581	40
2005	537	133	0	670	532	0	532	138
2006	593	113	0	706	467	0	467	239
2007	641	93	0	734	395	0	395	339
2008	688	73	0	761	323	0	323	438
2009	699	0	0	699	0	0	0	699
2010	711	0	0	711	0	0	0	711
2011	722	0	0	722	0	0	0	722
2012	735	0	0	735	0	0	0	735
2013	746	0	0	746	0	0	0	746
2014	759	0	0	759	0	0	0	759
2015	772	0	0	772	0	0	0	772
2016	786	0	0	786	0	0	0	786
2017	796	0	0	796	0	0	0	796
2018	811	0	0	811	0	0	0	811
2019	822	0	0	822	0	0	0	822
2020	837	0	0	837	0	0	0	837
2021	849	0	0	849	0	0	0	849
2022	864	0	0	864	0	0	0	864
2023	877	0	0	877	0	0	0	877
2024	893	0	0	893	0	0	0	893
2025	906	0	0	906	0	0	0	906
2026	923	0	0	923	0	0	0	923
2027	936	0	0	936	0	0	0	936
2028	0	0	0	0	0	0	0	0
NOMINAL	19536	1370	0	20906	5167	0	5167	15739
NPV	5965	0	0	5965	0	0	0	5965

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.87

MEASURE or PROGRAM: RSC-10AX

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	32	75	0	0	107	497	0	0	0	79	576	-469
2000	101	156	0	0	257	553	0	0	0	89	642	-385
2001	101	241	105	0	447	594	0	0	0	95	689	-242
2002	132	326	127	0	585	615	0	0	0	98	713	-128
2003	174	407	0	0	581	610	0	0	0	98	708	-127
2004	207	483	146	0	836	581	0	0	0	93	674	162
2005	1357	550	392	0	2299	532	0	0	0	85	617	1682
2006	253	607	349	0	1209	467	0	0	0	75	542	667
2007	264	654	397	0	1315	395	0	0	0	63	458	857
2008	283	690	449	0	1422	323	0	0	0	52	375	1047
2009	290	690	451	0	1431	0	0	0	0	0	0	1431
2010	290	690	479	0	1459	0	0	0	0	0	0	1459
2011	303	690	474	0	1467	0	0	0	0	0	0	1467
2012	304	690	507	0	1501	0	0	0	0	0	0	1501
2013	312	690	509	0	1511	0	0	0	0	0	0	1511
2014	316	690	541	0	1547	0	0	0	0	0	0	1547
2015	320	690	536	0	1546	0	0	0	0	0	0	1546
2016	321	690	573	0	1584	0	0	0	0	0	0	1584
2017	334	690	575	0	1599	0	0	0	0	0	0	1599
2018	336	690	612	0	1638	0	0	0	0	0	0	1638
2019	352	690	605	0	1647	0	0	0	0	0	0	1647
2020	351	690	648	0	1689	0	0	0	0	0	0	1689
2021	367	690	649	0	1706	0	0	0	0	0	0	1706
2022	365	690	691	0	1746	0	0	0	0	0	0	1746
2023	381	690	684	0	1755	0	0	0	0	0	0	1755
2024	380	690	732	0	1802	0	0	0	0	0	0	1802
2025	394	690	734	0	1818	0	0	0	0	0	0	1818
2026	400	690	781	0	1871	0	0	0	0	0	0	1871
2027	414	690	772	0	1876	0	0	0	0	0	0	1876
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	9434	17299	13518	0	40251	5167	0	0	0	827	5994	34257
NPV	3243	5621	3645	0	12509	0	0	0	0	0	0	12509

UTILITY DISCOUNT RATE: 8.53 %
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.89

MEASURE or PROGRAM: RSC-10AX

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	FUEL & O & M SAVINGS \$(000)	AVOIDED T&D CAP. COSTS \$(000)	AVOIDED GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	FUEL & O & M INCREASE \$(000)	INCREASED T&D CAP. COSTS \$(000)	INCREASED GEN. CAP. COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	
1999	32	75	0	0	107	0	0	0	79	149	72	300	-193
2000	101	156	0	0	257	0	0	0	89	161	150	400	-143
2001	101	241	105	0	447	0	0	0	95	168	232	495	-48
2002	132	326	127	0	585	0	0	0	98	168	316	582	3
2003	174	407	0	0	581	0	0	0	98	162	392	652	-71
2004	207	483	146	0	836	0	0	0	93	150	471	714	122
2005	1357	550	392	0	2299	0	0	0	85	133	537	755	1544
2006	253	607	349	0	1209	0	0	0	75	113	593	781	428
2007	264	654	397	0	1315	0	0	0	63	93	641	797	518
2008	283	690	449	0	1422	0	0	0	52	73	688	813	609
2009	290	690	451	0	1431	0	0	0	0	0	699	699	732
2010	290	690	479	0	1459	0	0	0	0	0	711	711	748
2011	303	690	474	0	1467	0	0	0	0	0	722	722	745
2012	304	690	507	0	1501	0	0	0	0	0	735	735	766
2013	312	690	509	0	1511	0	0	0	0	0	746	746	785
2014	316	690	541	0	1547	0	0	0	0	0	759	759	788
2015	320	690	536	0	1546	0	0	0	0	0	772	772	774
2016	321	690	573	0	1584	0	0	0	0	0	786	786	798
2017	334	690	575	0	1599	0	0	0	0	0	796	796	803
2018	336	690	612	0	1638	0	0	0	0	0	811	811	827
2019	352	690	605	0	1647	0	0	0	0	0	822	822	825
2020	351	690	648	0	1689	0	0	0	0	0	837	837	852
2021	367	690	649	0	1706	0	0	0	0	0	849	849	857
2022	365	690	691	0	1746	0	0	0	0	0	864	864	882
2023	381	690	684	0	1755	0	0	0	0	0	877	877	878
2024	380	690	732	0	1802	0	0	0	0	0	893	893	909
2025	394	690	734	0	1818	0	0	0	0	0	906	906	912
2026	400	690	781	0	1871	0	0	0	0	0	923	923	948
2027	414	690	772	0	1876	0	0	0	0	0	936	936	940
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	9434	17299	13518	0	40251	0	0	0	827	1370	19536	21733	18518
NPV	3243	5621	3645	0	12509	0	0	0	0	0	5965	5965	6544

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.65

INPUT DATA

Base Code: RSC-10B

Measure Name: Ceiling Ins. (R5-R24)

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$250.00	2000	897
Incremental Annual O&M Cost:	\$0.00	2001	1,866
Non-Recurring Incentive per Participant:	\$75.00	2002	2,877
Utility Non-Recurring Cost per Participant:	\$40.00	2003	3,890
Utility Recurring Cost per Participant:	\$0.00	2004	4,865
Annual KWH Reduction:	417	2005	5,767
Peak Winter KW Reduction:	0.476	2006	6,566
Peak Summer KW Reduction:	0.384	2007	7,248
Life of Measure (years):	30	2008	7,807
		2009	8,247

MEASURE or PROGRAM: RSC-10BX

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	28	67	0	95	231	0	231	-136
2000	58	73	0	131	258	0	258	-127
2001	90	76	0	166	277	0	277	-111
2002	122	76	0	198	286	0	286	-88
2003	153	73	0	226	284	0	284	-58
2004	182	68	0	250	271	0	271	-21
2005	207	60	0	267	247	0	247	20
2006	228	51	0	279	218	0	218	61
2007	247	42	0	289	184	0	184	105
2008	265	33	0	298	150	0	150	148
2009	269	0	0	269	0	0	0	269
2010	274	0	0	274	0	0	0	274
2011	278	0	0	278	0	0	0	278
2012	283	0	0	283	0	0	0	283
2013	287	0	0	287	0	0	0	287
2014	292	0	0	292	0	0	0	292
2015	298	0	0	298	0	0	0	298
2016	302	0	0	302	0	0	0	302
2017	307	0	0	307	0	0	0	307
2018	312	0	0	312	0	0	0	312
2019	317	0	0	317	0	0	0	317
2020	322	0	0	322	0	0	0	322
2021	327	0	0	327	0	0	0	327
2022	333	0	0	333	0	0	0	333
2023	338	0	0	338	0	0	0	338
2024	344	0	0	344	0	0	0	344
2025	349	0	0	349	0	0	0	349
2026	355	0	0	355	0	0	0	355
2027	361	0	0	361	0	0	0	361
2028	0	0	0	0	0	0	0	0
NOMINAL	7528	619	0	8147	2406	0	2406	5741
NPV	2300	0	0	2300	0	0	0	2300

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.59

MEASURE or PROGRAM: RSC-10BX

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	13	25	0	0	38	231	0	0	0	37	268	-230
2000	32	52	0	0	84	258	0	0	0	41	299	-215
2001	48	80	36	0	164	277	0	0	0	44	321	-157
2002	50	108	45	0	203	286	0	0	0	46	332	-129
2003	71	134	69	0	274	284	0	0	0	45	329	-55
2004	80	159	53	0	292	271	0	0	0	43	314	-22
2005	856	182	136	0	1174	247	0	0	0	40	287	887
2006	104	200	116	0	420	218	0	0	0	35	253	167
2007	109	216	134	0	459	184	0	0	0	29	213	246
2008	117	228	151	0	496	150	0	0	0	24	174	322
2009	119	228	153	0	500	0	0	0	0	0	0	500
2010	119	228	160	0	507	0	0	0	0	0	0	507
2011	123	228	161	0	512	0	0	0	0	0	0	512
2012	124	228	170	0	522	0	0	0	0	0	0	522
2013	127	228	172	0	527	0	0	0	0	0	0	527
2014	128	228	181	0	537	0	0	0	0	0	0	537
2015	125	228	182	0	535	0	0	0	0	0	0	535
2016	133	228	192	0	553	0	0	0	0	0	0	553
2017	134	228	194	0	556	0	0	0	0	0	0	556
2018	137	228	204	0	569	0	0	0	0	0	0	569
2019	142	228	205	0	575	0	0	0	0	0	0	575
2020	142	228	217	0	587	0	0	0	0	0	0	587
2021	147	228	219	0	594	0	0	0	0	0	0	594
2022	148	228	231	0	607	0	0	0	0	0	0	607
2023	153	228	232	0	613	0	0	0	0	0	0	613
2024	154	228	245	0	627	0	0	0	0	0	0	627
2025	158	228	247	0	633	0	0	0	0	0	0	633
2026	160	228	261	0	649	0	0	0	0	0	0	649
2027	165	228	262	0	655	0	0	0	0	0	0	655
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	4118	5716	4628	0	14462	2406	0	0	0	384	2790	11672
NPV	1497	1857	1284	0	4638	0	0	0	0	0	0	4638

UTILITY DISCOUNT RATE: 8.53 %
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.30

MEASURE or PROGRAM: RSC-10BX

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	13	25	0	0	38	0	0	0	37	67	28	132	-94
2000	32	52	0	0	84	0	0	0	41	73	58	172	-88
2001	48	80	36	0	164	0	0	0	44	76	90	210	-46
2002	50	108	45	0	203	0	0	0	46	76	122	244	-41
2003	71	134	69	0	274	0	0	0	45	73	153	271	3
2004	80	159	53	0	292	0	0	0	43	68	182	293	-1
2005	856	182	136	0	1174	0	0	0	40	60	207	307	867
2006	104	200	116	0	420	0	0	0	35	51	228	314	106
2007	109	216	134	0	459	0	0	0	29	42	247	318	141
2008	117	228	151	0	496	0	0	0	24	33	265	322	174
2009	119	228	153	0	500	0	0	0	0	0	269	269	231
2010	119	228	160	0	507	0	0	0	0	0	274	274	233
2011	123	228	161	0	512	0	0	0	0	0	278	278	234
2012	124	228	170	0	522	0	0	0	0	0	283	283	239
2013	127	228	172	0	527	0	0	0	0	0	287	287	240
2014	128	228	181	0	537	0	0	0	0	0	292	292	245
2015	125	228	182	0	535	0	0	0	0	0	298	298	237
2016	133	228	192	0	553	0	0	0	0	0	302	302	251
2017	134	228	194	0	556	0	0	0	0	0	307	307	249
2018	137	228	204	0	569	0	0	0	0	0	312	312	257
2019	142	228	205	0	575	0	0	0	0	0	317	317	258
2020	142	228	217	0	587	0	0	0	0	0	322	322	265
2021	147	228	219	0	594	0	0	0	0	0	327	327	267
2022	148	228	231	0	607	0	0	0	0	0	333	333	274
2023	153	228	232	0	613	0	0	0	0	0	338	338	275
2024	154	228	245	0	627	0	0	0	0	0	344	344	283
2025	158	228	247	0	633	0	0	0	0	0	349	349	284
2026	160	228	261	0	649	0	0	0	0	0	355	355	294
2027	165	228	262	0	655	0	0	0	0	0	361	361	294
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	4118	5716	4628	0	14462	0	0	0	384	619	7528	8531	5931
NPV	1497	1857	1284	0	4638	0	0	0	0	0	2300	2300	2338

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.52

INPUT DATA

Base Code: RSC-11A

Measure Name: Ceiling Ins. (R11-R30)

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$250.00	2000	321
Incremental Annual O&M Cost:	\$0.00	2001	668
Non-Recurring Incentive per Participant:	\$100.00	2002	1,029
Utility Non-Recurring Cost per Participant:	\$40.00	2003	1,391
Utility Recurring Cost per Participant:	\$0.00	2004	1,740
Annual KWH Reduction:	244.5	2005	2,063
Peak Winter KW Reduction:	0.386	2006	2,349
Peak Summer KW Reduction:	0.282	2007	2,593
Life of Measure (years):	30	2008	2,792
		2009	2,950

MEASURE or PROGRAM: RSC-11AX

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	6	32	0	38	83	0	83	-45
2000	12	35	0	47	92	0	92	-45
2001	19	36	0	55	99	0	99	-44
2002	26	36	0	62	102	0	102	-40
2003	32	35	0	67	102	0	102	-35
2004	38	32	0	70	97	0	97	-27
2005	44	29	0	73	89	0	89	-16
2006	48	24	0	72	78	0	78	-6
2007	52	20	0	72	65	0	65	7
2008	56	16	0	72	54	0	54	18
2009	57	0	0	57	0	0	0	57
2010	58	0	0	58	0	0	0	58
2011	58	0	0	58	0	0	0	58
2012	60	0	0	60	0	0	0	60
2013	60	0	0	60	0	0	0	60
2014	61	0	0	61	0	0	0	61
2015	62	0	0	62	0	0	0	62
2016	64	0	0	64	0	0	0	64
2017	64	0	0	64	0	0	0	64
2018	66	0	0	66	0	0	0	66
2019	67	0	0	67	0	0	0	67
2020	68	0	0	68	0	0	0	68
2021	69	0	0	69	0	0	0	69
2022	70	0	0	70	0	0	0	70
2023	71	0	0	71	0	0	0	71
2024	72	0	0	72	0	0	0	72
2025	73	0	0	73	0	0	0	73
2026	75	0	0	75	0	0	0	75
2027	76	0	0	76	0	0	0	76
2028	0	0	0	0	0	0	0	0
NOMINAL	1584	295	0	1879	861	0	861	1018
NPV	484	0	0	484	0	0	0	484

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.13

Florida Power Corporation
Docket No. 971005-EG
Witness: M.F. Jacob
Exhibit No. (MFJ-5)
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MEASURE or PROGRAM: RSC-11AX

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	3	8	0	0	11	83	0	0	0	13	96	-85
2000	7	16	0	0	23	92	0	0	0	15	107	-84
2001	2	25	11	0	38	99	0	0	0	16	115	-77
2002	9	34	13	0	56	102	0	0	0	16	118	-62
2003	14	43	19	0	76	102	0	0	0	16	118	-42
2004	9	51	15	0	75	97	0	0	0	16	113	-38
2005	78	58	39	0	175	89	0	0	0	14	103	72
2006	20	64	36	0	120	78	0	0	0	12	90	30
2007	21	69	41	0	131	65	0	0	0	10	75	56
2008	22	72	47	0	141	54	0	0	0	9	63	78
2009	23	72	47	0	142	0	0	0	0	0	0	142
2010	22	72	50	0	144	0	0	0	0	0	0	144
2011	24	72	50	0	146	0	0	0	0	0	0	146
2012	24	72	53	0	149	0	0	0	0	0	0	149
2013	25	72	53	0	150	0	0	0	0	0	0	150
2014	24	72	57	0	153	0	0	0	0	0	0	153
2015	26	72	56	0	154	0	0	0	0	0	0	154
2016	26	72	60	0	158	0	0	0	0	0	0	158
2017	27	72	60	0	159	0	0	0	0	0	0	159
2018	27	72	64	0	163	0	0	0	0	0	0	163
2019	28	72	63	0	163	0	0	0	0	0	0	163
2020	28	72	68	0	168	0	0	0	0	0	0	168
2021	30	72	68	0	170	0	0	0	0	0	0	170
2022	30	72	72	0	174	0	0	0	0	0	0	174
2023	31	72	72	0	175	0	0	0	0	0	0	175
2024	31	72	77	0	180	0	0	0	0	0	0	180
2025	32	72	76	0	180	0	0	0	0	0	0	180
2026	33	72	82	0	187	0	0	0	0	0	0	187
2027	34	72	81	0	187	0	0	0	0	0	0	187
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	710	1808	1430	0	3948	861	0	0	0	137	998	2950
NPV	228	588	393	0	1209	0	0	0	0	0	0	1209

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 1.68

MEASURE or PROGRAM: RSC-11AX

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	3	8	0	0	11	0	0	0	13	32	6	51	-40
2000	7	16	0	0	23	0	0	0	15	35	12	62	-39
2001	2	25	11	0	38	0	0	0	16	36	19	71	-33
2002	9	34	13	0	56	0	0	0	16	36	26	78	-22
2003	14	43	19	0	76	0	0	0	16	35	32	83	-7
2004	9	51	15	0	75	0	0	0	16	32	38	86	-11
2005	78	58	39	0	175	0	0	0	14	29	44	87	88
2006	20	64	36	0	120	0	0	0	12	24	48	84	36
2007	21	69	41	0	131	0	0	0	10	20	52	82	49
2008	22	72	47	0	141	0	0	0	9	16	56	81	60
2009	23	72	47	0	142	0	0	0	0	0	57	57	85
2010	22	72	50	0	144	0	0	0	0	0	58	58	86
2011	24	72	50	0	146	0	0	0	0	0	58	58	88
2012	24	72	53	0	149	0	0	0	0	0	60	60	89
2013	25	72	53	0	150	0	0	0	0	0	60	60	90
2014	24	72	57	0	153	0	0	0	0	0	61	61	92
2015	26	72	56	0	154	0	0	0	0	0	62	62	92
2016	26	72	60	0	158	0	0	0	0	0	64	64	94
2017	27	72	60	0	159	0	0	0	0	0	64	64	95
2018	27	72	64	0	163	0	0	0	0	0	66	66	97
2019	28	72	63	0	163	0	0	0	0	0	67	67	96
2020	28	72	68	0	168	0	0	0	0	0	68	68	100
2021	30	72	68	0	170	0	0	0	0	0	69	69	101
2022	30	72	72	0	174	0	0	0	0	0	70	70	104
2023	31	72	72	0	175	0	0	0	0	0	71	71	104
2024	31	72	77	0	180	0	0	0	0	0	72	72	108
2025	32	72	76	0	180	0	0	0	0	0	73	73	107
2026	33	72	82	0	187	0	0	0	0	0	75	75	112
2027	34	72	81	0	187	0	0	0	0	0	76	76	111
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	710	1808	1430	0	3948	0	0	0	137	295	1584	2016	1932
NPV	228	588	393	0	1209	0	0	0	0	0	484	484	725

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.51

INPUT DATA

Base Code: RSC-11B

Measure Name: Ceiling Ins. (R11-R30)

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$250.00	2000	159
Incremental Annual O&M Cost:	\$0.00	2001	330
Non-Recurring Incentive per Participant:	\$100.00	2002	509
Utility Non-Recurring Cost per Participant:	\$40.00	2003	689
Utility Recurring Cost per Participant:	\$0.00	2004	861
Annual KWH Reduction:	210	2005	1,021
Peak Winter KW Reduction:	0.344	2006	1,163
Peak Summer KW Reduction:	0.286	2007	1,283
Life of Measure (years):	30	2008	1,382
		2009	1,460

MEASURE or PROGRAM: RSC-11BX

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	2	16	0	18	41	0	41	-23
2000	5	17	0	22	45	0	45	-23
2001	8	18	0	26	49	0	49	-23
2002	11	18	0	29	51	0	51	-22
2003	14	17	0	31	50	0	50	-19
2004	16	16	0	32	48	0	48	-16
2005	18	14	0	32	44	0	44	-12
2006	20	12	0	32	39	0	39	-7
2007	22	10	0	32	32	0	32	0
2008	24	8	0	32	27	0	27	5
2009	24	0	0	24	0	0	0	24
2010	24	0	0	24	0	0	0	24
2011	25	0	0	25	0	0	0	25
2012	25	0	0	25	0	0	0	25
2013	26	0	0	26	0	0	0	26
2014	26	0	0	26	0	0	0	26
2015	26	0	0	26	0	0	0	26
2016	27	0	0	27	0	0	0	27
2017	27	0	0	27	0	0	0	27
2018	28	0	0	28	0	0	0	28
2019	28	0	0	28	0	0	0	28
2020	29	0	0	29	0	0	0	29
2021	29	0	0	29	0	0	0	29
2022	30	0	0	30	0	0	0	30
2023	30	0	0	30	0	0	0	30
2024	31	0	0	31	0	0	0	31
2025	31	0	0	31	0	0	0	31
2026	32	0	0	32	0	0	0	32
2027	32	0	0	32	0	0	0	32
2028	0	0	0	0	0	0	0	0
NOMINAL	670	146	0	816	426	0	426	390
NPV	205	0	0	205	0	0	0	205

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 1.02

MEASURE or PROGRAM: RSC-11BX

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS \$(000)
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	1	3	0	0	4	41	0	0	0	7	48	-44
2000	3	7	0	0	10	45	0	0	0	7	52	-42
2001	1	11	4	0	16	49	0	0	0	8	57	-41
2002	4	15	5	0	24	51	0	0	0	8	59	-35
2003	6	19	8	0	33	50	0	0	0	8	58	-25
2004	8	22	6	0	36	48	0	0	0	8	56	-20
2005	32	26	16	0	74	44	0	0	0	7	51	23
2006	9	28	14	0	51	39	0	0	0	6	45	6
2007	9	30	16	0	55	32	0	0	0	5	37	18
2008	10	32	19	0	61	27	0	0	0	4	31	30
2009	10	32	18	0	60	0	0	0	0	0	0	60
2010	11	32	20	0	63	0	0	0	0	0	0	63
2011	11	32	19	0	62	0	0	0	0	0	0	62
2012	11	32	22	0	65	0	0	0	0	0	0	65
2013	11	32	21	0	64	0	0	0	0	0	0	64
2014	11	32	23	0	66	0	0	0	0	0	0	66
2015	12	32	22	0	66	0	0	0	0	0	0	66
2016	12	32	23	0	67	0	0	0	0	0	0	67
2017	12	32	23	0	67	0	0	0	0	0	0	67
2018	12	32	26	0	70	0	0	0	0	0	0	70
2019	13	32	25	0	70	0	0	0	0	0	0	70
2020	12	32	26	0	70	0	0	0	0	0	0	70
2021	13	32	26	0	71	0	0	0	0	0	0	71
2022	13	32	29	0	74	0	0	0	0	0	0	74
2023	14	32	28	0	74	0	0	0	0	0	0	74
2024	14	32	30	0	76	0	0	0	0	0	0	76
2025	14	32	30	0	76	0	0	0	0	0	0	76
2026	15	32	33	0	80	0	0	0	0	0	0	80
2027	15	32	32	0	79	0	0	0	0	0	0	79
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	319	801	564	0	1684	426	0	0	0	68	494	1190
NPV	103	260	155	0	518	0	0	0	0	0	0	518

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 1.46

MEASURE or PROGRAM: RSC-11BX

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	1	3	0	0	4	0	0	0	7	16	2	25	-21
2000	3	7	0	0	10	0	0	0	7	17	5	29	-19
2001	1	11	4	0	16	0	0	0	8	18	8	34	-18
2002	4	15	5	0	24	0	0	0	8	18	11	37	-13
2003	6	19	8	0	33	0	0	0	8	17	14	39	-6
2004	8	22	6	0	36	0	0	0	8	16	16	40	-4
2005	32	26	16	0	74	0	0	0	7	14	18	39	35
2006	9	28	14	0	51	0	0	0	6	12	20	38	13
2007	9	30	16	0	55	0	0	0	5	10	22	37	18
2008	10	32	19	0	61	0	0	0	4	8	24	36	25
2009	10	32	18	0	60	0	0	0	0	0	24	24	36
2010	11	32	20	0	63	0	0	0	0	0	24	24	39
2011	11	32	19	0	62	0	0	0	0	0	25	25	37
2012	11	32	22	0	65	0	0	0	0	0	25	25	40
2013	11	32	21	0	64	0	0	0	0	0	26	26	38
2014	11	32	23	0	66	0	0	0	0	0	26	26	40
2015	12	32	22	0	66	0	0	0	0	0	26	26	40
2016	12	32	23	0	67	0	0	0	0	0	27	27	40
2017	12	32	23	0	67	0	0	0	0	0	27	27	40
2018	12	32	26	0	70	0	0	0	0	0	28	28	42
2019	13	32	25	0	70	0	0	0	0	0	28	28	42
2020	12	32	26	0	70	0	0	0	0	0	29	29	41
2021	13	32	26	0	71	0	0	0	0	0	29	29	42
2022	13	32	29	0	74	0	0	0	0	0	30	30	44
2023	14	32	28	0	74	0	0	0	0	0	30	30	44
2024	14	32	30	0	76	0	0	0	0	0	31	31	45
2025	14	32	30	0	76	0	0	0	0	0	31	31	45
2026	15	32	33	0	80	0	0	0	0	0	32	32	48
2027	15	32	32	0	79	0	0	0	0	0	32	32	47
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	319	801	564	0	1684	0	0	0	68	146	670	884	800
NPV	103	260	155	0	518	0	0	0	0	0	205	205	314

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.44

INPUT DATA

Base Code: N/A

Measure Name: Residential Energy Management - Winter Only DLC

Vintage: New

		Year	Cumulative Participation
Incremental Participant Cost:	\$0.00	2000	5,000
Utility Annual O&M Cost:	\$145,000.00	2001	10,625
Recurring Incentive per Participant:	\$24.80	2002	16,875
Utility Non-Recurring Cost per Participant:	\$132.56	2003	23,750
Utility Recurring Cost per Participant:	\$4.56	2004	31,250
Annual KWH Reduction:	0	2005	38,750
Peak Winter KW Reduction:	2.110	2006	45,625
Peak Summer KW Reduction:	0.000	2007	51,875
Life of Measure (years):	20	2008	57,500
		2009	62,500

MEASURE or PROGRAM: LM-WNTR

PARTICIPANT TEST

YEAR	BENEFITS				COSTS			(8) NET BENEFITS TO PARTICIPANTS \$(000)
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COSTS \$(000)	(6) PARTICIPANT'S BILL INCREASE \$(000)	(7) TOTAL COSTS \$(000)	
1999	1	124	0	125	0	0	0	125
2000	3	264	0	267	0	0	0	267
2001	2	419	0	421	0	0	0	421
2002	3	589	0	592	0	0	0	592
2003	13	775	0	788	0	0	0	788
2004	9	961	0	970	0	0	0	970
2005	37	1132	0	1169	0	0	0	1169
2006	28	1287	0	1315	0	0	0	1315
2007	35	1426	0	1461	0	0	0	1461
2008	40	1550	0	1590	0	0	0	1590
2009	54	1550	0	1604	0	0	0	1604
2010	41	1550	0	1591	0	0	0	1591
2011	33	1550	0	1583	0	0	0	1583
2012	43	1550	0	1593	0	0	0	1593
2013	34	1550	0	1584	0	0	0	1584
2014	44	1550	0	1594	0	0	0	1594
2015	35	1550	0	1585	0	0	0	1585
2016	45	1550	0	1595	0	0	0	1595
2017	39	1550	0	1589	0	0	0	1589
2018	46	1550	0	1596	0	0	0	1596
2019	45	1550	0	1595	0	0	0	1595
2020	52	1550	0	1602	0	0	0	1602
2021	45	1550	0	1595	0	0	0	1595
2022	53	1550	0	1603	0	0	0	1603
2023	48	1550	0	1598	0	0	0	1598
2024	55	1550	0	1605	0	0	0	1605
2025	48	1550	0	1598	0	0	0	1598
2026	57	1550	0	1607	0	0	0	1607
2027	55	1550	0	1605	0	0	0	1605
2028	0	0	0	0	0	0	0	0
NOMINAL	1043	37977	0	39020	0	0	0	39020
NPV	294	0	0	294	0	0	0	294

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 4/COL. 7): 9999.00

MEASURE or PROGRAM: LM-WNTR

TOTAL RESOURCE COST TEST

YEAR	BENEFITS					COSTS						NET BENEFITS
	(1) TOTAL FUEL & O&M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) OTHER PARTICIPANT BENEFITS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) PARTICIPANT'S COSTS \$(000)	(7) TOTAL FUEL & O&M INCREASE \$(000)	(8) INCREASED T&D CAP. COSTS \$(000)	(9) INCREASED GEN. CAP. COSTS \$(000)	(10) UTILITY PROGRAM COSTS \$(000)	(11) TOTAL COSTS \$(000)	
1999	2	90	0	0	92	0	0	0	0	976	976	-884
2000	7	192	0	0	199	0	0	0	0	1087	1087	-888
2001	0	305	826	0	1131	0	724	0	0	1203	1927	-796
2002	0	430	945	0	1375	0	1164	0	0	1324	2488	-1113
2003	0	565	1790	0	2355	0	1500	0	0	1450	2950	-595
2004	0	701	1659	0	2360	0	837	0	0	1496	2333	27
2005	0	825	2615	0	3440	0	1906	0	0	1459	3365	75
2006	0	939	2692	0	3631	0	495	0	0	1420	1915	1716
2007	0	1040	3422	0	4462	0	677	0	0	1381	2058	2404
2008	0	1131	3923	0	5054	0	696	0	0	1340	2036	3018
2009	0	1131	4051	0	5182	0	659	0	0	692	1351	3831
2010	0	1131	4175	0	5306	0	628	0	0	708	1336	3970
2011	0	1131	4151	0	5282	0	585	0	0	724	1309	3973
2012	0	1131	4433	0	5564	0	606	0	0	741	1347	4217
2013	0	1131	4416	0	5547	0	553	0	0	758	1311	4236
2014	0	1131	4718	0	5849	0	567	0	0	777	1344	4505
2015	0	1131	4690	0	5821	0	494	0	0	796	1290	4531
2016	0	1131	5009	0	6140	0	517	0	0	815	1332	4808
2017	0	1131	5024	0	6155	0	478	0	0	836	1314	4841
2018	0	1131	5331	0	6462	0	467	0	0	857	1324	5138
2019	0	1131	5338	0	6469	0	406	0	0	879	1285	5184
2020	0	1131	5660	0	6791	0	423	0	0	902	1325	5466
2021	0	1131	5676	0	6807	0	360	0	0	926	1286	5521
2022	0	1131	6023	0	7154	0	369	0	0	953	1322	5832
2023	0	1131	6031	0	7162	0	296	0	0	981	1277	5885
2024	0	1131	6395	0	7526	0	310	0	0	1010	1320	6206
2025	0	1131	6413	0	7544	0	231	0	0	1040	1271	6273
2026	0	1131	6805	0	7936	0	269	0	0	1071	1340	6596
2027	0	1131	6862	0	7993	0	177	0	0	1104	1281	6712
2028	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	9	27707	119073	0	146789	0	16394	0	0	29706	46100	100689
NPV	6	8768	32530	0	41304	0	7505	0	0	0	7505	33799

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 11): 2.01

MEASURE or PROGRAM: LM-WNTR

RATE IMPACT MEASURE TEST

YEAR	BENEFITS					COSTS							NET BENEFITS TO ALL CUSTOMERS \$(000)
	(1) FUEL & O & M SAVINGS \$(000)	(2) AVOIDED T&D CAP. COSTS \$(000)	(3) AVOIDED GEN. CAP. COSTS \$(000)	(4) REVENUE GAINS \$(000)	(5) TOTAL BENEFITS \$(000)	(6) FUEL & O & M INCREASE \$(000)	(7) INCREASED T&D CAP. COSTS \$(000)	(8) INCREASED GEN. CAP. COSTS \$(000)	(9) UTILITY PROGRAM COSTS \$(000)	(10) INCENTIVE PAYMENTS \$(000)	(11) REVENUE LOSSES \$(000)	(12) TOTAL COSTS \$(000)	
1999	2	90	0	0	92	0	0	0	976	124	1	1101	-1009
2000	7	192	0	0	199	0	0	0	1087	264	3	1354	-1155
2001	0	305	826	0	1131	724	0	0	1203	419	2	2348	-1217
2002	0	430	945	0	1375	1164	0	0	1324	589	3	3080	-1705
2003	0	565	1790	0	2355	1500	0	0	1450	775	13	3738	-1383
2004	0	701	1659	0	2360	837	0	0	1496	961	9	3303	-943
2005	0	825	2615	0	3440	1906	0	0	1459	1132	37	4534	-1094
2006	0	939	2692	0	3631	495	0	0	1420	1287	28	3230	401
2007	0	1040	3422	0	4462	677	0	0	1381	1426	35	3519	943
2008	0	1131	3923	0	5054	696	0	0	1340	1550	40	3626	1428
2009	0	1131	4051	0	5182	659	0	0	692	1550	54	2955	2227
2010	0	1131	4175	0	5306	628	0	0	708	1550	41	2927	2379
2011	0	1131	4151	0	5282	585	0	0	724	1550	33	2892	2390
2012	0	1131	4433	0	5564	606	0	0	741	1550	43	2940	2624
2013	0	1131	4416	0	5547	553	0	0	758	1550	34	2895	2652
2014	0	1131	4718	0	5849	567	0	0	777	1550	44	2938	2911
2015	0	1131	4690	0	5821	494	0	0	796	1550	35	2875	2946
2016	0	1131	5009	0	6140	517	0	0	815	1550	45	2927	3213
2017	0	1131	5024	0	6155	478	0	0	836	1550	39	2903	3252
2018	0	1131	5331	0	6462	467	0	0	857	1550	46	2920	3542
2019	0	1131	5338	0	6469	406	0	0	879	1550	45	2880	3589
2020	0	1131	5660	0	6791	423	0	0	902	1550	52	2927	3864
2021	0	1131	5676	0	6807	360	0	0	926	1550	45	2881	3926
2022	0	1131	6023	0	7154	369	0	0	953	1550	53	2925	4229
2023	0	1131	6031	0	7162	296	0	0	981	1550	48	2875	4287
2024	0	1131	6395	0	7526	310	0	0	1010	1550	55	2925	4601
2025	0	1131	6413	0	7544	231	0	0	1040	1550	48	2869	4675
2026	0	1131	6805	0	7936	269	0	0	1071	1550	57	2947	4989
2027	0	1131	6862	0	7993	177	0	0	1104	1550	55	2886	5107
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	9	27707	119073	0	146789	16394	0	0	29706	37977	1043	85120	61669
NPV	6	8768	32530	0	41304	7505	0	0	0	0	294	7799	33505

UTILITY DISCOUNT RATE: 8.53%
BENEFIT/COST RATIO (COL. 5/COL. 12): 1.25

INPUT DATA

Base Code: N/A

Measure Name: Walk-Through Audits

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$0.00	2000	18,000
Incremental Annual O&M Cost:	\$0.00	2001	36,000
Non-Recurring Incentive per Participant:	\$0.00	2002	54,000
Utility Non-Recurring Cost per Participant:	\$65.00	2003	72,000
Utility Recurring Cost per Participant:	\$0.00	2004	90,000
Annual KWH Reduction:	330	2005	108,000
Peak Winter KW Reduction:	0.100	2006	126,000
Peak Summer KW Reduction:	0.100	2007	144,000
Life of Measure (years):	5	2008	162,000
		2009	180,000

INPUT DATA

Base Code: N/A

Measure Name: Mail-In Audits

Vintage: Existing

		Year	Cumulative Participation
Incremental Participant Cost:	\$0.00	2000	6,500
Incremental Annual O&M Cost:	\$0.00	2001	1,300
Non-Recurring Incentive per Participant:	\$0.00	2002	19,500
Utility Non-Recurring Cost per Participant:	\$30.00	2003	2,600
Utility Recurring Cost per Participant:	\$0.00	2004	32,500
Annual KWH Reduction:	83	2005	39,000
Peak Winter KW Reduction:	0.025	2006	45,500
Peak Summer KW Reduction:	0.025	2007	52,000
Life of Measure (years):	5	2008	58,500
		2009	65,000