

Charles A. Guyton

May 6, 1997

By Hand Delivery

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

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**DAVIS** 

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940539-RG

Re: Residential Air Conditioning Program

Dear Ms. Bayó:

Marrie

305 577 7000

Enclosed for filing on behalf of Florida Power & Light Company are the original and fifteen (15) copies of Petition For Modification of Florida Power & Light Company's Residential Air Conditioning Program.

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

Key West. 305-292-7272

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FPSC=RECORDS/REPORTING

### BEFORE THE FLORID . PUBLIC SERVICE COMMISSION

In Re: Petition for Modification of	)	Docket No.
Florida Power & Light Company's	)	
Residential Air Conditioning Program	)	Filed: May 6, 1997

# PETITION FOR MODIFICATION OF FLORIDA POWER & LIGHT COMPANY'S RESIDENTIAL AIR CONDITIONING PROGRAM

Florida Power & Light Company ("FPL"), pursuant to Section 366.82(2), Florida Statutes (1995), hereby petitions the Florida Public Service Commission ("Commission") to (1) approve the modifications to FPL's Residential Air Conditioning Program set forth in this petition and attachments, (2) allow FPL to recover reasonable and prudent expenditures for the modified Residential Air Conditioning Program, and (3) include FPL's modified Residential Air Conditioning Program as part of FPL's approved DSM Plan. The grounds for this petition are:

 FPL's address is 9250 West Flagler Street, Miami Florida, 33174. Correspondence, notices, orders and other documents concerning this petition should be sent to:

Matthew M. Childs, P.A.

Charles A. Guyton

Steel Hector & Davis LLP
Suite 601, 215 S. Monroe St.

Tallahassee, Florida 32301

William G. Walker

Vice President, Regulatory Affairs
Florida Power & Light Company
9250 West Flagler Street

Miami, Florida 33174

2. FPL is an investor-owned electric utility regulated by the Commission pursuant to Chapter 366, Florida Statutes. FPL is subject to the Florida Energy Efficiency Conservation Act ("FEECA"), Section 366.80-85, 413.519, Florida Statutes (1995), and its Energy Conservation Cost Recovery ("ECCR") clause is subject to the Commission's jurisdiction. FPL has

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FPSC-RECORDS/REPORTING

Commission approved conservation goals. See, Order No. PSC-94-1313-FOF-EG issued on October 25, 1994. The Commission has previously approved a FPL DSM Plan to meet the goals approved for FPL. See, Order Nos. 95-1343-S-EG, 95-1343A-S-EG. As part of that DSM Plan the Commission approved FPL's Residential Air Conditioning Program. FPL has a substantial interest in whether this program is modified as requested by FPL in this petition, approved as part of FPL's DSM Plan, and authorized for cost recovery.

- 3. The objective of the Residential Air Conditioning Program is to reduce FPL's summer and winter coincident peak demand and energy attributable to central and room heating, ventilating, and air conditioning (HVAC) equipment by encouraging residential customers, through the use of incentives, to purchase higher efficiency equipment. The Residential Air Conditioning Program, as FPL proposes to modify it, is more fully described in Appendix A attached to this petition.
- 4. The Residential Air Conditioning Program, as modified, will help advance the policy objectives set forth in Rule 25-17.001, Florida Administrative Code and the FEECA. As shown in Appendix A, the Residential Air Conditioning Program will reduce an average participant's summer and winter peak demand and energy consumption by .386 kW Summer demand, .039 kW Winter demand, and 744 annual kWh, respectively.
- 5. The Residential Air Conditioning Program, as modified, is projected to be cost-effective. Appendix B, attached hereto, shows the results of the cost-effectiveness analyses of the program using the Commission's methodology prescribed in Rule 25-17.008, Florida Administrative Code and supply option cost and performance assumptions from FPL's most recent resource planning study. FPL seeks to modify the Residential Air Conditioning Program to make it cost-effective under current planning assumptions. To make the Residential Air

Conditioning Program cost-effective, FPL has (a) included among the eligible measures in the program ground source heat pumps, (b) exc<sup>1</sup> Jed room air conditioners for commercial and industrial customers, and (c) restructured the incentives to be paid for eligible measures. Each of these modifications has the effect of helping the Residential Air Conditioning Program to achieve a benefit/cost ratio greater than 1.0 under the RIM and Participants tests.

- The Residential Air Conditioning Program, as modified, is directly monitorable and will yield measurable results. FPL's monitoring plan is described in Section VI of Appendix A.
  - 7. FPL is not aware of any disputed issues of material fact.
- FPL respectfully requests that this petition be processed with the Commission's Proposed Agency Action procedure, which is recognized in Section 120.80(13)(b), Florida Statutes.

WHEREFORE, FPL respectfully petitions the Commission to (1) approve the Residential Air Conditioning Program, as modified, (2) allow FPL to recover reasonable and prudent expenditures for the Residential Air Conditioning Program, as modified, through FPL's ECCR clause, and (3) approve the Residential Air Conditioning Program, as modified, as part of FPL's approved DSM Plan.

Respectfully submitted,

STEEL HECTOR & DAVIS LLP Suite 601,215 S. Monroe Street Tallahassee, Florida 32301-1804

Attorneys for Florida Power & Light Company

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Charles A. Guytony

# BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Petition for Modification of	)	Docket No.
Florida Power & Light Company's	)	
Residential Air Conditioning Program	)	Filed: May 6, 1997

# CERTIFICATE OF SERVICE

I hereby certify that on this the 6th day of May, 1997, a copy of the foregoing Petition for Modification of Florida Power & Light Company's Residential Air Conditioning Program was served by hand delivery\* or First Class United States Mail on the following:

Robert V. Elias, Esquire\*
Chief of Electric & Gas
Division of Legal Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

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

By Charles A. Guyton

#### APPENDIX A

# RESIDENTIAL AIR CONDITIONING PROGRAM

# I. Program Description

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

FPL plans to make residential customers aware of this program through contractors, retail outlets and other trade allies, appropriate advertising and promotion activities, as well as direct contact with potential participants by FPL personnel. FPL will continue to facilitate the application of this program to potential low income participants. This will be accomplished by targeting public agencies and governmental housing authorities for program education and implementation and by including window / wall units in the program. For example, the qualification of a public agency or housing authority as a participating contractor will assist in lowering the installation costs of measures for low income participants. FPL also will assist agencies in the selection of qualified contractors for the installation of the qualified measure if requested to do so.

# II. Summary of Program Changes

FPL's existing Residential Air Conditioning Program includes high efficiency, straight cool, air and water source heat pumps and room air conditioners. Residential, commercial and industrial customers are able to participate when they install qualifying room air conditioners. Based on an

analysis of HVAC technologies the following changes are being made to the program:

- the inclusion of ground source heat pumps,
- the exclusion of room air conditioners for commercial and industrial customers due to them not being cost-effectiv, and
- the program incentive structure will change to a range not to exceed \$182 to \$303 per kw of summer demand reduction, depending on the technology.

# III. Description of Program Administration

To be eligible for incentives for central air conditioning systems, the customer must make an installation at a residence which has had a Certificate of Occupancy or equivalent for at least one year.

All residential customers may receive an incentive for installing a qualifying room air conditioner.

The primary method of encouraging prospective customers to participate in the program will be the payment of incentives. The amount of the incentives will vary depending on several factors: the size of the unit being installed, the Seasonal Energy Efficiency Ratio (SEER) or Energy Efficiency Ratio (EER) for central units, and the EER for room units. Incentive tables will be included in FPL's Program Standards and will be based on a range not to exceed \$182 to \$303 per kw of summer demand reduction, depending on the technology, which is based on cost effectiveness analyses included in Appendix B. Eligible units can be either a straight cool or a heat pump. Central air conditioning units must have a single speed compressor.

The incentives for central air conditioning systems will be issued to the customer at the time the customer purchases a qualifying HVAC unit(s) from a qualifying contractor. The contractor fills out the incentive certificate and gives it to the customer for his/her signature. The customer signs and gives the incentive certificate back to the contractor as partial payment for the installation. The contractor then forwards the certificate to FPL for payment.

Residential customers who purchase a qualifying room air conditioner will complete an incentive certificate, obtained at the point of sale, and forward it to FPL along with the proof of purchase. The incentive payment will be made directly to the customer

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

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

# IV. Projected Participation and Savings

The projected demand and energy savings for a typical installation are .386 kw (summer) and .039 kw (winter), 744 annual kwh. The energy consumption and demand reduction projections are based on evaluation results.

# V. Cost-Effectiveness Analysis

FPL has used the Commission approved cost-effectiveness methodologies required by Rule 25-17.008 to determine the cost-effectiveness of this program. These cost-effectiveness analyses can be found in Appendix B. These analyses show the following benefit-cost ratios for the Residential Air Conditioning Program: 2.03 Participants, 1.02 RIM, 1.33 TRC.

# VI. Program Monitoring and Evaluation

The impact of this program on demand and energy consumption will be evaluated over time by FPL.

Baseline data will be developed from non-participants, and participants' data will be compared against non-participants' data to establish usage patterns and demand impacts and to validate engineering assumptions.

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

Appendix B

Cost-effectiveness Run

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 PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

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(52)	TAX BATE NOON	0	0	o	o	0	0	0	0	0	0	o	0	0	0	0	0	a	0	0	0	0	0	0	0	0	•	0	•	0	o
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61	TOTAL EQUITY AFUCC MODO	1,801	1 801	1,801	1.801	1,601	1001	1,601	1.601	1,601	1,601	1,601	1,601	1,001	1,501	1.801	1,601	1.801	1,801	1,901	1,601	1,601	1,601	1,601	1001	1,801	1,001	1,801	1001	1,601	1,601
6	TAX TAX DUE TO DEPRECATION NOOD	96	80	878	225	274	111	ĭ	1	127	127	177	137	177	137	127	137	137	137	137	137	(101)	(090)	(380)	(090)	(380)	(090)	(090)	(250)	(380)	(opp.)
É	ACCUMALATED BOOK DEPR FOR POPERBRED TAX 12 BODGS	808	318.1	2,734	3,632	550	5,448	6,356	735	8,172	8,080	8,908	10,895	11,803	12711	13.619	14,527	15,435	16.343	17,281	18,150	18,067	19,975	20,863	21,791	22,699	23,607	24,515	25,43	28,331	27,230
€	BOOK ACCUMALATED DEPRECATION BOOK DEPR FOR FOR FOR FOR BOOK BOOK BOOK DEPRESHED TAX BOOK) BOOK)	808	808	808	808	808	800	808	808	80	808	808	808	808	808	808	808	808	808	808	808	808	808	808	808	88	908	800	808	808	808
ē	BOOK PRECATION BOOK	18	1 823	2.884	3,845	4,807	5,768	6.728	7,691	0.652	8,613	10.574	11.536	12.487	13,450	14.00	15,381	16.342	17.304	18,285	19,228	20,188	21,148	22,110	23,072	34,033	34,994	25,306	28.917	27.578	28,639
£	BOOK EMECATION MOOD	196	18	18	196	ž	198	8	8	8	8	8	8	18	196	198	28	8	198	198	198	100	100	100	198	100	198	8	196	198	198
Ŧ	ACCUMALATED TAX DEPRECIATION D	1,002	3,105	4.996	6.745	6.363	9,859	11.243	12.523	13,786	15.049	16,313	17.578	18.639	20,102	21 365	22 628	23.801	25.154	28.417	27,680	28,312	20.312	28,312	28,312	28,312	28,312	28.312	28,312	28.312	28,312
6	TAX EPSECATION O	1,002	2044	1.890	1750	1.617	1.486	1384	1,280	1,263	1,263	1383	1,263	130	1,263	1 203	130	1363	1.263	1363	1,263	3	0	•	0	•	•	0	0	0	0
6	ACCUMALATED ACCUMALATED ACT TAX TAX BOOK TAX TAX BOOK DEPRECATION DEPRECATION DEPRECATION DISCUSSION BOOKS BOOKS BOOKS	375%	122	C 687	610	\$77%	230%	4.00%	100	4.00.4	-	4.40.4	****	4.40%	4 40%	-	****	100	4.00%	4.40%	4.60%	223%	0.00%	000	2000	0.00%	0.000	0.000%	1,000	0 000	8,000
÷	3	1000	2000	2000	2004	2008	2008	2002	2008	3000	2010	2011	2013	2013	2014	2018	3018	200	2018	2018	2000	2001	2002	3023	3004	3008	3008	2002	3008	2000	2000

BLALVAGE / RENOVAL COST	000
PEAR SALVAGE / COST OF REMOVAL	2000
DEFERRED TAXES DURANG CONSTRUCTION (SEE PAGE 5)	(4)4)
POTAL HOLITY APLIDE CAPITALIZED (SEE PAGE 3)	1.6.
BOOM COMP DATE . LEMENTE LIFE	3.27%

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TAX	MANT IN SERVICE MODIN			BEGINNING	ENDING OF	
		DEPRECATION DEFTARES NOON 10001	ACCUMALATED DEF TAMES \$10001	YSAR RATE BASE NOON	TEAR RATE BASE BODD)	MAD YEAR PATE BASE MODE
	27,678	ä	(394)	28.253	28,223	28,743
	28.917	1,923	1	28,233	20.603	27,533
	25,856	2.004	8	28.533	25,483	28,163
	24,884	3.845	787	25,483	N X	24,850
	24,033	4,807	1,001	34,207	578.52	23,559
	23,072	5,788	1,288	22.872	17.75	22,378
	22,110	6,729	1.472	21,784	20,639	21,211
	21.148	7,691	1,615	20,639	12.534	20,000
	20,188	8,652	27.7	19,534	18.435	18 985
	19.228	6.613	1,869	14.05	17,337	17,886
	10,205	10.574	2,00%	17,337	14,239	14,788
	17,304	11,536	2,163	902.30	15 141	15.690
	16.30	12,497	2,300	18,141	14.042	14.591
	15,381	13,458	2.07	14,042	12.944	13.403
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	14,420	14.420	2.574	12,944	11.846	12,385
227 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	13,458	15,381	2711	11,848	10,747	11,298
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12,487	1630	2,848	10,747	9,649	10,198
2 2275 CELL (200	11.536	17,304	2,985	200	1.551	9,100
2.22% CML (200 cm	10,574	18,265	2,422	8.551	7.40	B,007
2000 0000 0000 0000 0000 0000 0000 000	51813	18,238	3,259	7,452	4.354	6,903
4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,652	20,188	2,153	S.M.S.	5,499	5,927
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,691	21,148	2,802	1,400	4,880	5,194
9.000	673	22,110	2402	4,000	4277	4,583
	5,768	23,072	2,102	422	3,665	2,872
	4,807	24,033	(722	3,000	3,055	3,361
A ANNE A CARDA	3,845	24,994	10.	3,065	2,484	2,748
Total Control	2,884	25,956	1,001	244	1.633	2,138
(DEC) 0 WOOD NOT	1,923	28,917	Ē	1,633	1,222	1,527
(DEC) 0 9600 600	8	27,678	100	TIT.		916
(OSC) 0 9000 0000	•	28,839	•	119	0	308

BEFORE ESCALATION ESCALATION EXPERITIVE  N-SERVICE RATE FACTOR (N)	9001 1000		2 2574 1000		8	(8) (84" (89" CARALATIVE CARALATIVE NO YEARS SPECIOS DEST MONTANT AND	E (thw) (thw)	000	800	200	9	#F 01		PLANT COSTS 2001 CONSTRUCTION PLANT COSTS 285 ECUITY AFLOC AFLOC NATE 10 /0% COST AFLOC CONSTRUCTION CONSTRUC	
ESCUATION	1 000	800	1000		201	COEST TOTAL	(Jaw)	000	80	8 %	9	85.04		1000	
					201				80	8 %	9	85.04	L	8888	
COPPORTING	N-00 0	8 8	×	3	8	CUMBLATIV DEST	(BAN)		•	9 64	ğ				
			1	1	8	w		8	8	8 2				W 20 2	
(MAR)	000	8 8	112.15	8	MERC	TEARLY TOTAL	(BANK)	80	8	8 8	200	88		***	
SPENDING (\$AM)	8	8 8	72.00	n n		*	(BAM)	800	88	8 8	28.02		BOOK BASIS	1001	
						(Ne)* CONSTRUCTION PERIOD NUTUEST	(MAN)	800	000	3 4	4.55	ă.	BOOK BASIS FOR DEF TAX	100000000000000000000000000000000000000	
						CUMALATINE	(TAW)	80	8 8	3 5	22		TAX BASIS	C967	THE RESERVE THE PERSON NAMED IN
						(MET DEFENSED TAKES	(TAW)	8 0	8 8	6	(0,10)	(Carry			
						CUMBLATIVE DEFENSED TAMES	(SANA)	800	8 6	(102)	(4 92)				
						(10) MCPEMENTAL YEAR-END BOOK VALUE	CHANG	80	88			55 X			
						CUMULATIVE VEAR-BIND BOOK VALUE	(SAW)	000	8 8	119.20	30.07				
		(BAN) (PAN)	(taw) (taw) (taw)	(Baw)	(BAW)	(AAV) (BAN)	STEMON   SPENONG   SPENO	113   15   15   15   15   15   15   15	13   13   14   14   14   14   14   14	1975-00-00   1987   1	1989-00-80   1989   1	11315   1400)   1500   1500   1700	113 14   14   14   14   14   14   14	111   11   12   12   12   12   12   1	111   112

TOTAL	-	UNEUTY	-	***************************************			
PARTICIPATING	TOTA CARLATNE PARTICIPATING CARLATING PARTICIPATING CARLATING CARTICIPATING CARTICIPAT	PARE COST	FUEL COST	NARGRAL FUEL COST	REPLICEMENT FUE: COST CAMPS	PROCRAM IN PROGRAM INF EFFECTIVENESS EFFECTIVENES FACTOR FACTOR	PROGRAM VIV. EFFECTIVENES FACTOR
0	0	000	263	240	000	1001	
•	•	8	264	240	80	1 00	
000,100	68,160	986	283	22	8	180	
133.749	133,740	86	2.95	257	80	8.	
197.348	197.348	80	3.20	288	8	8	
197.348	197.348	80	362	2 80	238	81	
157.348	197.348	80	3.50	4:	282	81	
107.348	197.348	80	149	2.87	240	8	
197.348	197.348	900	3.79	3.06	2.86	8	
197.348	197,348	8	3 93	320	322	8	
197.348	197,348	800	417	330	3.45	8	
197.348	197,348	80	4	161	3.76	8	
197.348	157,348	000	4.58	275	3.67	81	
197.348	197.348	000	į	285	3 83	8	
197.348	197,340	80	517	4	4.39	8	
187.348	197.348	80	245	3	4.70	81	
197.348	197,348	80	5.74	48	*74	8	
197,348	197,348	000	5.83	400	\$ 02	81	
197.348	167,348	000	618	*	808	100	
197.348	197,348	80	29.0	5.27	5.67	100	
197.348	197,348	000	80	5.35	9.80	91	
197.348	197.348	000	7.07	28.8	2.00	100	
187.348	197.348	80	7.43	5.77	633	100	
197.345	167.348	000	7.88	28.5	**	100	

This column is used only for lond biesting programs which shift consumetion to diff-fear repross the values represent the diff fear system fuel costs.

AVOIDED GENERATING BENEFITS PROGNAME METHOD SELECTED NEV\_REQ PROGNAM NAME Residental HVAC.

00	000011000
0	22211115
74	BALLERS !
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700	80,515	24,795	100	82,401	96,357	10,345
-	97750	8.006	326	34.846	28 712	31.82

AVOICED TAD AND PROCINAL FUEL SAVINGS PROCINAL METHOD SELECTED REV\_REQ PROCINAL NAME. Resolves MANC.

			TOTAL			TOTAL		
4 \$ 2	AVOIDED PANSAESSICH CAP COST BIDDI	TRANSMESSION OLIMICOST BODD	TRANSSACRA COST WOOD	CAP COST BROOD	DISTRIBUTION OGMI COST SCIENCE	AVOIDED DISTRIBUTION COST BODD)	PROGRAM FUEL SAVINGS \$(000)	OFF-PEAK PAYBACK NOO!
	0	0	0	0		0	8	
	0	0	0	0	.0	0	•	
	0	0	0	0	•	0	949	
	378	2	609	×	28	630	2.639	
000	27	179	912	8	787	1271	603	
	1,000	273	1361	800	1,200	1,898	6.679	
2002	1.007	200	1,313	5	126	1,921	6.389	
1000	1	200	1,285	29	100	1,948	6,362	
1000	900	310	1,360	529	1,356	1,978	6.873	
9008	213	Ř	1,237	200	1,414	2,012	7,228	
	2	222	1,216	5	1,474	2,000	7,687	
_	2	SK	1,192	553	1,539	2,092	8,166	
	812	THE REAL PROPERTY.	1,180	SES	1,606	2,138	1,63	
	780	200	1,163	116	1,675	2.188	1991	
	240	430	110	9	1347	2,237	8.607	
2011	715	-	1.122	4	-	2,392	10,006	
	9	80	1,116	24	1,906	2,352	10,668	
	98	458	1,106	9	1,991	2,417	11,079	
	617	100	1,093	ş	2,001	2,485	11,439	
	585		1,083	280	2,176	2,559	12,368	
	3	ā	1.073	N	2.274	2,636	12.877	
	220	3	1,063	2	2373	2,713	13,306	
	-	906	1,063	318	2,473	2782	13,999	
	464	200	1,045	200	2.577	2.875	14,528	

15,009	6717	24.534	10,352	34,086	48,438	210,188	0
*CO*	2.553	4.587	3,962	11,155	15,108	61,635	0

\*These values represent the cost of the incheased fuel consumption due to greater off-peak energy usage. Used for lond shifting procuration only.

TOTAL RESOURCE COST TEST PROCEAM METHOD SELECTED REV, REQ PROCEAM NAME Resource INVAC.

(13)	CUMMANTIVE DISCOUNTED NET BENEFITS \$(000)	0	•	(21.815)	(38,739)	DET. 7730	(41,578)	(30,733)	(24.343)	(14,655)	(8.525)	(2,784)	3,500	8.005	12,089	15.852	30,650	25,421	21,577	18.552	14.071	18,563	22,832	28,042	22,122	28,037
(123)	NET BENEFITS \$(000)	0	0	128,787	(22, 312)	(18,351)	15,690	13,191	11,159	13.574	15,778	14,338	14,792	12,762	12,788	12,940	18,026	18.347	(15,862)	(14,810)	(13,294)	20,363	20,865	18.307	15,861	15,880
1439	TOTAL BICHEFITS MIDDO	0	0	51	1,755	7,013	15,690	15.191	15.559	15.574	15,778	14,338	M. A.	17,340	17,444	17,804	18,026	18,347	18,745	18,152	19,906	20,363	20,855	21,499	22,048	22,346
2	OTHER BENEFITS \$000)	0	0	0	0	o	0	0	ø	o	0	0	0	0	0	0	0	0	0	0	a	0	a	•	0	•
E	PROCESAM FUEL SAVINGS NOOD	0	0	948	2,659	6277	4.679	4.369	4.362	6,973	7,228	7,687	8,166	8.432	8.941	1,847	10.085	10,668	11,079	11,400	12,300	12,877	13,306	13,939	14,528	14,840
€	AVOICED TAID TO BENEFITS P	0	0	0	1,000	2,173	3,238	3.234	3,233	3.238	3.240	3,396	3,290	3,310	3,346	3,384	1404	2,471	2,522	3,578	3,642	3,708	2,776	3,845	3,921	4,009
Е	AVOICED GENUNET BENEFITS BENEFITS		0	•	0	0	8,773	2,348	1,044	1,363	8,298	1,305	1,336	8,501	8.154	4,723	4307	4.700	*:*	4.07	3,956	3,808	3,773	3,006	3,597	3.488
Ē	TOTAL COSTS MODE	0	0	28.633	28,087	25,564	0	0	o	0	0	0	0	4.578	4.648	4,804	0	0	34,627	33,963	MIN	0	0	6,100	6,185	0,405
£	COSTS COSTS	0		•	0	0	0	0	0	0	6	0	0	0	•	0	0	0	0	•	0	•	0	•	•	•
£	PROCESSE COSTS ECOL	0	0	34.600	24.073	23,588	•	0	0	0	•	•	•	4.063	4113	4,300	0	0	32.167	31.570	30,801	0	0	2.403	5,677	8778
€	PROCESSES COSTS	0	0	2.032	1.894	1,865	•	•	•	0	0	a	0	5	25	282	0	•	2,440	2.383	2.341	0	•	800	208	741
6	NCHEABED SUPPLY COSTS	0			0	0	0	0	0	0	•	0	0	o	0	0	0	•	•		0		0	•	0	0
t)	3	1996	1887	1,208	1.000	2000	2001	2002	2003	3000	2008	3008	3007	2008	3000	3010	2011	2012	2013	3014	2015	2010	3017	2018	2019	2020

0 14,827	105,997	0 0	212,904	31.602	77,984	210, 186 61,635		117,181	28.007
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Despurt Rate: BenefaCost Rate (Col(11) / Col(6)):

PARTICENANT CC6TS AND BENEFITS PROCENAN METHOD SELECTED REV\_REQ PROCENAN MAYE Resourced HVAC.

£.	CUMMANTIVE DISCOUNTED ACT BENEFITS NOO!	0	0	(12,727)	(19,440)	(21,447)	(10,047)	ş	10,062	19,040	27,249	34,991	42,705	47,785	\$3,004	58,240	64.063	69,505	68,657	400,107	67,574	11,731	75,509	78,337	80,972	83,409
(11)	NET DO NET NE NEW PIETES NE	0	0	(15,163)	(8,748)	(2,856)	17.721	17.75	17,804	18.186	18.162	18,738	18,043	16,087	16,498	17,838	21,876	22,329	(3,801)	(2,892)	(2.316)	23,693	24,098	19,706	20,053	20,256
610	107A COSTS B(000)	0	0	24,600	24,073	23,500	0	0	0	0	0	0	0	4.053	4.113	4.306	0	0	32,167	31.570	30,891	0	0	3,403	5,477	\$728
E	COSTS COSTS	0	0	0	0	o	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0
Đ.	CUSTOMER OGM COSTS RODD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•	0	0	0
6	CUSTOMER EQUIPMENT COSTS BROOM	0	0	24,600	24,073	22,500	0	0	o	a	0	0	0	4,053	4,113	4308	0	0	32,167	31,570	30,891	0	0	5,403	5,477	8.728
£	TOTAL MENEFITS MODE	0	.0	8.418	15,325	20,700	17,721	17,753	17,904	18,196	18,162	18,708	18,043	30.140	20,612	22.344	27,676	22,379	30,10	28,677	28.574	23,593	24,098	25,108	25,529	28,980
Ť	OTHER BENEFITS NOON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•	0
Ţ	AEBATES MOON	0	0	6.301	6,079	2,000	0	0	0	0	•	0	0	186	200	8	•	0	5.764	3,490	5.215	•	0	585	2	909
£.	CHEDITS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0	0	0	0	•
6	SAVINGS IN PARTICIPARTS BILLS MICHAELS	0	•	3.067	200	14.928	17.71	17.75	17.904	18.186	18,162	18,708	19,043	19.544	20.023	27.545	21.876	22, 229	22,622	23,308	23,358	23,683	24.098	24.51	24.96	25.381
ε		le.	1983	1906	1,000	2000	1002	2000	5000	2007	3000	2008	2000	3000	3000	2010	3011	2012	2013	2014	2015	2016	2017	2018	2019	2000

NOW Y	14,74		18,264	00	154,5470	196,907	0 0	00	195,987	204.413
2	Service of Gen Unit				2001					
	Describe Rate: Benefit Cost Rate ( Col(5)	1/Ca(10)		П	2.69					

PROGRAM METHOD SELECTED NEV\_REQ PROCRAM NAME Numbership HVAC

•	CUMULATIVE DISCOUNTED SET BENEFITS NOOD	0	0	(7,890)	(18,532)	(22,400)	(48, 329)	(14,780)	(14,280)	(12,040)	(3,925)	(7,847)	(5,826)	(4(435)	(3,130)	(2,129)	(000)	98	(404)	(1,070)	(1,454)	(180)	906	1,322	2,049	2714
(2)	NET BENEFITS ROOS	a	0	(9,412)	(9.958)	(8.873)	4.880	4.36	4,637	ě,	4,007	4.835	5,176	428	4,109	144	4,001	25	(3.254)	(2,997)	(1,840)	2,940	6,156	123	5,535	1,523
125	TOTAL BENEFITS ROOD)	0	0	945	2,755	7,013	15,690	15,191	15,559	15,574	15,776	16,238	16,792	17,340	17,444	17,804	18,026	18.30	18,745	19,152	18,905	20,393	20,855	21,499	22,046	22,346
(11)	OTHER BENEFITS NOON	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(50)	REVENUE GARIS S(000)	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	AVOIDED TAD BENEFITS BIXON	0	0	0	1,095	2,173	3,238	324	1,233	3,238	3,249	3,706	3,290	2,316	3,349	3,384	3.434	3,01	3,522	3.578	3,642	3,708	3,776	3,845	3,921	4009
e	AVOIDED GEN UNIT & PUEL BENEFITS BROOM	0	0	ž.	2,059	4,839	12,452	11,967	12,326	12,336	12.527	13.072	13,502	14.023	14.095	14.00	14,601	14,676	15.223	18.574	16.334	16,685	17,079	17,664	18,125	16,336
ε	101A COSTS E000)	0	0	10,258	12,713	16,805	10.810	10.829	10.922	11,083	11,079	11.412	11.616	13,043	13.335	14,360	13.344	13.620	22,003	22 148	27.808	14,463	14,700	16.248	16.511	10,623
€	OTHER COSTS BODD	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	a	0	0	0	0	0	
£	NEVENUE LOSSES MODOS			1,865	5.540	8,106	10.810	10.829	10.922	11,093	11.079	11.412	11.616	11 622	12.714	13.303	13.344	13,630	13,800	14.286	14.248	14.653	14,700	14,952	18,214	15,482
g	MCD/TM15	0		6.361	6.079	5.815	•	0		0	0	0	•	285	985	009	0		8.764	8.480	\$215		0	186	à	900
6	UTLITY PROCESAM COSTS MORE	0		2 032	1.804	1.985	0	0			0	0		828	8	689	0	0	2.440	2 363	2341	0		000	709	741
6	SUPPLY COSTS SOON	0	. 0		0	0	0			0	0	0	0				0								0	0
	3	+400	1	8001	1989	3000	2000	2000	and a	100	2006	2000	2000	2008	1000	2010	1100	2012	2013	3014	3018	2016	3007	2018	2018	2000

9 0	16,927	18.26	275,711		114,637	93,457	23.084			117,151	2714
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Discount Rate Benefit Cost 12 / Cost 13:

1.02