



Charles A Guyton

May 6, 1997

By Hand Delivery

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

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Re: Commercial/Industrial Heating, Ventilating and Air Conditioning Program

Dear Ms Bayo

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 Commercial/Industrial Heating, Ventilating and Air Conditioning Program

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

Very truly yours.

Charles A Guyton

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Petition for Modification of)	Docket No.
Florida Power & Light Company's)	
Commercial/Industrial Heating,)	Filed: May 6, 1997
Ventilating and Air Conditioning)	
Program)	

PETITION FOR MODIFICATION OF FLORIDA POWER & LIGHT COMPANY'S COMMERCIAL/INDUSTRIAL HEATING, VENTILATING AND AIR CONDITIONING PROGRAM

Florida Power & Light Company ("FPL"), pursuant to Section 366-82(2). Florida Statutes (1995), here by petitions the Florida Public Service Commission ("Commission") to (1) approve the modifications to FPL's Commercial/Industrial Heating, Ventilating and Air Conditioning Program ("C/I HVAC Program") set forth in this petition and attachments, (2) allow FPL to recover reasonable and prudent expenditures for the modified C/I HVAC Program, and (3) include FPL's modified C/I HVAC 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
 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 C/I HVAC Program. FPL has a substantial interest in whether
 this program is no idified 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 C/I HVAC Program is to reduce the current and future growth of coincident peak demand and energy consumption of commercial and industrial customers by increasing the use of high efficiency heating, ventilating, and air conditioning (HVAC) systems. Under this program FPL provides incentives to commercial and industrial customers (or their designees) who install eligible high efficiency HVAC equipment. The C/I HVAC Program, as FPL proposes to modify it, is more fully described in Appendix A attached to this petition.
- 4. The C/I HVAC 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 modified C/I HVAC Program will reduce cumulative summer peak demand by 52.5 mW and

winter peak demand by 3.5 mW for the period 1998 through 2000. In addition, it will result in a reduction in annual energy consumption of 122.1 gWh by the year 2000.

- 5. The C/I HVAC 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 C/I HVAC Program to make it cost-effective under current planning assumption. To make the C/I HVAC Program cost-effective, FPL has (a) eliminated the payment of incentives for cold air distribution, (b) discontinued incentives for ventilation exhaust hoods, and (c) restructured incentives for thermal energy storage and duct sealing. Each of these modifications has the effect of helping the C/I HVAC Program to achieve a benefit/cost ratio greater than 1.0 under the RIM and Participants tests.
- 6. The C/I HVAC Program, as modified, is directly monitorable and will yield measurable results. FPL's monitoring plan is described in Section VI of Appendix A. This is the same monitoring plan as is currently being followed by FPL, and it has yielded measurable results
 - 7 FPL is not aware of any disputed issues of material fact

8 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 Commercial/Industrial HVAC Program, as modified, (2) allow FPL to recover reasonable and prudent expenditures for the Commercial/Industrial HVAC Program, as modified, through FPL's ECCR clause, and (3) approve the Commercial/Industrial Program, as modified, as part of FPL's approved DSM Plan.

Respectfully submitted,

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

Attorneys for Florida Power & Light Company

Charles A Guyton

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Petition for Modification of)	Docket No.
Florida Power & Light Company's)	
Commercial/Industrial Heating,)	Filed: May 6, 1997
Ventilating and Air Conditioning)	
Program)	

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 Commercial/Industrial Heating, Ventilating and 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 Marles A Guyton

APPENDIX A

COMMERCIAL/INDUSTRIAL HEATING, VENTILATING, AND AIR CONDITIONING PROGRAM

I. Program Description

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

FPL will provide an incentive to customers (or their designees), who install qualifying HVAC equipment. The customers will also receive any operating savings from the installation of the equipment. FPL plans to make commercial and industrial customers aware of this program through dealers, distributors, contractors, other trade a'lies, appropriate advertising and promotion activities, as well as direct contact with potential participants by FPL personnel.

II. Summary of Program Changes

Based on an analysis of HVAC technologies the following changes are being made to maintain the cost-effectiveness of the program:

- eliminate the payment of additional incentives for cold air distribution,
- discontinue ventilation exhaust hoods as eligible equipment for program incentives.
- 3) change the existing incentive for thermal energy storage from not to exceed \$333 per summer kw peak reduction to not to exceed \$356 per summer kw peak reduction, and

4) change the existing incentive for duct seal of DX HVAC and heat pumps from not to exceed \$112 per summer kw peak reduction to not to exceed \$139 per summer kw peak reduction.

III. Description of Program Administration

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

To qualify, the commercial/industrial customer must submit equipment specifications to FPL. These specifications must meet or exceed FPL's Program Standards. FPL's Program Standards shall consist of both equipment and installation requirements. The Standards will be subject to periodic review and change based on factors such as, but not limited to, equipment efficiencies, energy code, program results, incentive amounts, and operational considerations. If changed, they will be submitted to the Commission Staff for review as a change in the Program Standards.

The chiller and DX split/packaged electric equipment incentives are based on efficiency improvements above the Florida Energy Efficiency Code. New high efficiency chillers may include adjustable speed drives. Duct sealing provides the opportunity to reduce kw by improving the HVAC system for eligible customers. All thermal energy storage systems must use electricity as the primary energy source. The systems must be designed and operated to reduce FPL's summer and winter system peaks. When installing a thermal energy storage system, the cooling load to be shifted must regularly

operate or be designed to operate during FPL's on-peak hours as defined by the current or any subsequent applicable time-of-use rate tariff approved by the Commission

The incentive for heating and air conditioning equipment will not exceed \$77 per summer peak kw reduction, except for thermal energy storage. The incentive for thermal energy storage will not exceed \$356 per summer peak kw reduction. Incentives for thermal energy storage will include both rebates paid for installations and funding for other inducements such as design expenses, maintenance agreements, and system commissioning. In addition, thermal energy storage feasibility study funding, of an amount not to exceed \$2,500 per major facility, will be available. The incentive for duct sealing will not exceed \$139. These incentives are based on cost-effectiveness analyses, an average participant's payback to be not less than 2 years, and the assumption the load being reduced is associated with equipment that operates between the hours of 3 p.m. and 6 p.m., weekdays, for the months of April through October.

IV. Projected Participation and Savings

The projected demand savings for the period 1998 through 2000 are 52.5 mW of summer peak demand reduction and 3.5 mW of winter peak demand reduction. In addition, the annual reduction in energy consumption by the year 2000 will be 122.1 gWh. The energy consumption and demand reduction projections are based on engineering assumptions and calculations

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 Commercial/Industrial Heating, Ventilating, and Air Conditioning Program: 2.09 Participants, 1.05 RIM, 1.76 TRC.

VI. Program Monitoring and Evaluation

The impact of the 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 costeffectively 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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DISCOLAFT RATE

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DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION PROCESSAR METHOD SELECTED REV. REG PROCEAM FAME Convences/Polaries MAK.

(32)	DEFENSED	N.	and and	3	2	317	528	B	200	1000		P	N.	187	140	153	1,500	1,762	1,856	1,950	204	2.138	2,231	2.158	1 919	153	- 6	1 199	698	720	9	92	0
ě.	*	(B)+(2)+13)	- Constant		8	22	H	9	158	100	8	1	1	1	x	ı	z	ı	1	3	z	z	ı	E.	1340	G G	(340)	(345)	1000	(340)	S C	040	(340)
(13)	SALVAGE	TAK RATE	No.	9	0	0	0	0	0	0	0	a	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E.	(117/01)	TAX RATE	No.	9	0	0	0	0	a	0	0	0	0	o	o	o	0	o	0	0	0	0	0	0	a	0	0	0	0	0	0	0	0
1113	BOOK DEPR	PATE	2471 079400	9	0	0	o	0	o	0	0	a	o	o	0	o	0	0	0	0	a	o	0	0	0	0	0	a	a	0	o	0	a
101	TOTAL EQUITY	Mubc.	No.	1 200	1 086	1 000	1 096	1 096	000	1 006	1 096	1 000	1 0985	1 096	4 086	1 096	1 086	1 096	1,086	1 000	1 098	1,096	1 0005	1,000	1,096	1,096	1,096	1,095	1,098	1.096	1,096	1,096	1 096
ē	DEFENSED TAX DUE TO	DEPPECIATION	(cook	÷	8	朝	222	187	125	R	Ħ	I	1	I	1	1	1	I	1	1	ı	1	ı	(£7)	(040)	640	(242)	(340)	(340)	(340)	(340)	(340)	(0+0)
(8)		ž	Name of	3	1243	1,816	2.487	1,108	2730	4 M2	4.973	1,595	8.216	6.638	7.450	190 8	8,703	8 325	0 240	10,368	11,190	11.811	12.433	13,055	13.678	14,250	14.918	15.541	16.163	18,784	17.406	18,029	18.649
3		3	MOOD	9	229	9	3	5	55	ij	5	8	8	13	8	ij	5	5	279	9	6	8	529	229	ũ	23	23	623	9	229	623	23	8
192	ACCURACATED (KPRECIATION I	(000)	809	316	1.875	2.633	1231	2 940	4,807	3,385	1.104	0,382	7.345	7.88%	8.336	9.274	1.073	10.531	11,189	11.847	12.505	13,164	13.622	14,480	15.130	15,796	10.454	17 113	17.77	10.639	19 007	19,745
90	×	DEPRECATION DEP	1000/8	900	950	809	809	909	909	809	909	800	809	659	600	809	800	800	609	859	800	800	658	858	BC3	859	900	6/10	609	609	600	628	659
£	ACCUMULATED TAX	ğ	1000	121	2.128	3.00	4.010	\$ 7.26	6.750	7.698	8.574	1 430	10.304	11.169	12,033	12.898	13.763	14 628	15 402	16.367	17.22	18.067	18.962	10,354	10.384	10 354	10.384	10.384	15 354	10.384	10.36	10 384	19.384
e.	*	ě	9000	127	1 796	7.7	i	1 107	20.	ī	677	800	900	8002	8605	8655	9002	9805	900	900	100	802	808	9	0		0			. 0			
в	3		SOMEOUR	3.75%	7.22%	4 CO.	6 15%	877.8	100	4 00%	1537	4.60%	4.00.4	4 40%	4 40%	4 40%	4 4676	4.46%	4 40%	1	100	4 40%	4 40%	2 22%	0.00%	0.00%	1000	2000	0.00%	1000	1000	1000	0000
14.5			TEAR	2001	2002	2002	2000	3000	2000	1000	3000	3000	2010	3011	2013	3013	3014	30.00	200	-	1	3018	20100	2001	X	2002	7000	*****	200	A A	1	2000	900

ELALVACE / HEMONAL COST	000
PEAR SALVAGE / COST OF REMOVAL	NAME OF THE PERSON
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	CMC
FOTAL EQUITY ARUDO CAPITALIZED (SEE PAGE S)	1,006
MOON OF PRINTE , 14 MED IN LIFE	3.33%

DEFENDED TAX AND MED-YEAR RATE BASE CALCULATION PROCEDAM METHOD SELECTED REV. REQ PROCEDAM HARE COMMENCES FRANCES IN MAKE

(A)	OF TEAR NET PLANT IN	TAX SERVICE DEL RECARION BIOCO BIOCO BIOCO	41 18,067	300 14.429	17.771	222 17,113	187 18.454	155 15,788	128 15.138	14,400	13.622	12.164	94 12.505	11,847	11,189	10.531	1,000	PH 8,274	94 R.508	24 7,898	7.240	2053	6 th (C7)		(340) 4.807	3.940	1231	(340) 2,633	1,875	1,316	C34C1	6
€.	10.70		121	1,300	1271	1.198	1 107	*81	596	228	903	9007	900	9000	8002	9803	902	902	800	9000	8005	8665	Đ	0	٥	0	o	0	0	0	0	0
(1)	TAN.	VEAR SCHEDALF MOON	1,				2005	2006 5.29%	2007 4.89%	2000	2000	2010 4.40%	2011 4.40%	2012 4 40%	2013 4 40%	2014 4 40%	2015 4 4874	2016 4 40%	2017	2018	2019 4 40%	25.5	364									

* Column not apporting an workplack

(3)		YEAR	1000	1987	1,000	1-2000	2000					YEAR	1004	1067	1,998	1,908	2000				42TJ			
G	NO YEARS BEFORE	BN-SEPANCE	**	7	?	*	*			SAN VY CHA	BEFORE	BH-SERVICE	*	4	7	**					IN SERVICE YEAR	AFUDC RATE		
đ	ESCALATION	RATE	1000	2 55%	2.55%	2.67%	2894		€	CUMALATIVE	WITH APUDC	(BWW)	80	900	000	58 57	219.30					10 704		
£	CUMULATIVE	FACTOR	1 300	100	1 062	1 080	Ξ.		(Best	CHEST	APUDC	(Battari)	80					10.59				32		
£	- 3	(4)	9,000	1000	8.000	第12章	65.23%	100 001	ë	CUMARATIVE	MUDC	(Asset)	000	000							CONSTRUCTION CASH	DEBT ANDC	5	TOTAL
ĝ.	SPENCING	(MAN)	80	800	8	11315	200 20	31334	€	TOTAL	ANDC	(burne)	80	80	8 0	600	500	28.22	O THE OWNER OF THE OWNER OWNER OF THE OWNER		CASH			
(7) Committed	AVERACE	(MW)	8	900	8	25.55	20.00		į	TOTAL	WUDC	(Assess)	000	8	800	900	E F			BOOK BASIS	18,040	010	-	19 745
		55							(Se)	PERIOD	ATEMEST (AAW)		8	900	8	4.81	18.53	KII	BOOK BASIS	FOR DE	18,040	610		18.649
									jg.	CUMBRATIVE	5 %		920	800	8	÷	n			TAX B	18,040		ı	19,363
									96	CHESTORED	TAUES		8 0	80	8	8	(3.80)	(4 92)						
									1	DEFENSED	TAKES		8 0	8 0	90		(4 92)	200						
									(01)	TEARDO	BOOK VALUE		80	8 0	000	119.20	H	16.24						
									(11)	VEAR-END	BOOK VALUE		8	000	8	119.50	N De la	a a						

* Column not specified in workbook.

PROGRAM METHOD SELECTED REV. REO
PROGRAM MAME Communication HVAC

(**)		UTTR ITTY					
CUMMENTINE TOTAL MATTICIPATINE CUSTOMERS	CLARLATIVE ADJUSTED TOTAL CLARLATIVE PARTICIPATING PARTICIPATING CLISTOMERS CLISTOMERS CLISTOMERS	AVERAGE SYSTEM FUEL COST	AVCIDED MARGINAL FUEL COST (CAMP)	MARGRAL FUEL COST (CAWR)	REPLACEMENT FUEL COST (CAMM)	PROGRAM LW PROGRAM LWN EFFECTMENESS EFFECTMENESS FACTOR FACTOR	PROGRAM W EFFECTIMENE FACTOR
0	١.	800	367	2.39	000	100	981
9	0	80	2.00	2.5	80	8	10
17.401	17491	000	7.85	28.2	8	100	94
34.980	34.980	000	2.82	2.56	8	8	
52 465	53 462	80	125	2.67	8	8	
23 482	22.62	800	3.00	2.00	238	8-	31
52 45	52.462	80	3.55	2.85	2.50	8	
22.45	22.402	8	3.53	2 84	2.69	18	
52.45	52.462	80	3.85	308	2.96	91	
22 46	22.402	80	200	3.16	322	8	*
52.46	52 462	8	423	28.5	345	100	*
52.45	23.42	000	4.50	2.57	3.76	8	
52.46	52.402	800	3	17.5	367	91	-
52.46	52.452	95 0	4.01	181	3.83	100	
52.45	22.62	80	22.5	3 80	4.39	8	
52.45	20 60	80	3.53	4 35	27.4	8	•
52.45	52.462	800	200	4.54	474	8	*
52.45	22 462	80	50	463	50	8	
52.46	52 662	000	6.23	4.78	808	8	*
52.46	52.462	8	E 2	\$ 30	260	8.	*
52.45	22 662	8	68.0	\$ 22	\$ 80	8.	
52.46	22 62	80	71.7	5.65	2 96	8	
\$2.4E	23 462	80	7.53	\$ 69	E.S.	81	*
52.46	2 52.462	8 9	7.80	5.54	10	8-	
						***************************************	*

THIS COLUMN IS LISED ONLY FOR LOND SHETING PROGRAMS WHICH SHETT CONSUMPTION TO OFF-PEAR PERIODS.
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

AVOICED GENERATING BENEFITS PROGRAM METHICO SELECTED REV_REQ PROGRAM NAME Commenciality datum HVAC

	AVOIDED GEN UNIT CAPACITY COST \$1000]	AVOICED ADDITIONS T PRED OAM BOXOL	AVCIDED GEN UNIT VARIABLE DAM \$0000	AVOIDED GEN UNIT FUEL COST \$(000)	REPLACEMENT FUEL COST \$COOT
	Š	0	0	0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	~	0	0	0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	~	0	0	٥	0
0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	,	0	9	0	0
28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0	0	0	0
20	3.91	200	15	2.638	3,400
8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3.784	574	R	2233	2.623
200 20 20 20 20 20 20 20 20 20 20 20 20	3.64	900	8	1,670	2,078
28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.51	20	Ħ	2,080	2,506
20 E E E E E E E E E E E E E E E E E E E	138	900	*	240	280
25 T T 25 E E E E E E E E E E E E E E E E E E	125	100	H	2.985	1221
# 1	212	202	R	3.351	1201
600 600 600 700 700 700 700 700 700 700	3.02	120	2	1,518	3.480
10 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2.91	170	X	2.973	2,157
1000 1000 1000 1000 1000 1000 1000 100	2.78			1,709	
200 1000 1000 1000 1001 200 200 200 200	2.56	903	74	1,787	2,345
1 000 1 100	2.57	2/8	R	3,368	
2001 (000) (2.45	910	**	3,380	
1001 1000 1001 1001 1001 1001 1001 100	2,36		R	2,179	
100 100 100 100 100 100 100 100 100 100	2.23	-	gg	3,081	
1,137 28	2.11	-	*	3,181	
25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	2.00		22	2,558	
1,105	1,88	•		3,112	200
	1.78	1,185		3,083	3,617
	1,667		8	2.806	3,440

56,125	16,676	629	56,417	00.287	20.00
19.471	4741	222	17,011	18,658	21,787

AVOIDED TLD AND PROGRAM FUEL SAVINGS PROCINAM METHOD SELECTED REV, REQ PROCINAM NAME CAMMINISTRALISMS MANC

TAMESTREEN TAM	£	В	6	1014	€	Ē	€ tot	6	1887
1	3	AVOIDED TRANSMESSADIN CAP COST BODGS	TRUNDARBESON CASA COST \$1000	TRANSMESSION COST ECOST	AVOIDED DISTRIBUTION CAP COST BIXXD	AVOICED DISTREBUTION DISM COST SIGODI	AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SANDRGS NO	PROGRAM OFF PEAK PAYSACK NOON
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,006	0	a	0	0	0	0	0	0
250	1987	0	0	0	a	0	0	0	0
10	198	0	0	0	0	•	0	487	0
## 120	005	230	2	XX	ž,	72	416	1,540	0
1,000	3000	ě	130	A18	H	2	98	2.942	ø
174 186 180 441 181 171	2001	Ē	188	919	5	5	1,300	3,329	0
661 73 70 861 645 646 861 1334 645 646 861 1334 645 645 862 643 862 643 863 643 643 643 643 643 643 643 643 643 6	2000	70	190	800	1.04	800	1,375	TH. 18	0
12 12 12 12 12 12 12 12	2000	677	ž	i	599	108	1,334	2.738	0
17.1	7000	199	212	863	Ş	123	1 304	4.000	0
557 5.24 650 5.75 650	2000	Ö	23	940	410	964	1.378	422	0
17.9 24.1 12.00 17.9 1,004 1,403 1,504 1,403 1,504 1,403 1,504 1,403 1,504 1,403 1,504 1,403 1,404 1,403 1,404 1,403 1,404 1,403 1,404 1,403 1,404 1,403 1,404 1,403	2000	5009	ñ	633	M.	1000	9	***	0
554 255 255 255 255 255 255 255 255 255	3007	575	241	820	273	1,054	1.69	4.785	0
512 274 166 216 1167 1167 1467 1467 1467 1467 1467 14	8000	28	H	808	N	1,000	- 64	4,830	0
512 774 716 518 110 1 106 1522 640 286 776 221 176 176 176 176 176 176 176 176 176 17	5000		SE	ř	OM.	1110	1.45	1231	0
460 200 100 100 100 100 100 100 100 100 10	2010		174	78	111	1 196	1.50	2.640	0
445 312 759 310 (511 (412) 415 (413) 415 (2011		200	25	Ē	1,249	1,570	5.893	0
445 312 757 300 (300) 1606 (3	2012	450	200	700	Ø	1,005	1.611	6.224	0
401 284 749 277 (425 1,702 201 284 284 1,802 1,902 284 1,802	2013	445	312	75	H	1,383	1,855	8,444	
401 341 742 202 1480 1752 203 1480 2052 2052 2052 2052 2052 2052 2052 20	2100			749	112	103	27.	0.676	0
319 356 725 248 1,557 1,805 1,805 3,50 1,507 1,507 1,500 3,50 3,50 3,50 3,50 3,50 3,50 3,50	2015		THE STATE OF	742	202	1,490	1,752	7,191	0
354 365 1,555 1,555 1,555 1,655 1,655 1,55	2016			No.	7	1,567	1,805	7.470	
313 404 772 218 1,683 1,912 313 404 718 205 1,704 1,989 204 471 715 102 1,639 2,031	100			27	213	1,625	1,858	7,715	
254 421 716 205 1,764 1,569 264 421 715 162 1,639 2,031	2018		200	27	218	1,693	1,912	£116	
284 421 715 102 1,639 2,031	2018		•	317	205	1,784	1,909	8,414	
	2000			715	192	600,1	2,031	0.100	

NOM	10.019	5,954	16,784	7,000	26,058	D IO	122.430	o
20	4177	1.745	5,868	2.700	7,634	10.334	35,978	0

*THESE VALLES REPRESENT THE COST OF THE INCREASED FUEL. CONSLANTTON DUE TO GREATER OFF-PEAK. EMENDY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST PROCRAM METHOD SELECTEJ REV, REO PROCRAM NAME CommunicIPINALIMM MAK.

SECRETABLE JTLITY PARTICIPAMY TOTAL SUSPRITY PROCESSAM PROCESSAM TOTAL 1989 COST3 COST3 COST3 COST3 1989 COST3 COST3 COST3 COST3 1989 COST3 LADD LADD LADD LADD 1989 COST3 LADD LADD LADD LADD 1980 COST3 LADD 1980 LADD 1980 COST3 LADD 1980 LADD	€	ĝ.	121	Œ.	(8)	(40)	0.0	(44)	7
1,737 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1970.00	101AL COSTS	AVOIDED GEN UNIT BENEFITS ACCOL	TED THE SECOND	PROCIEM FUEL EAVINGS SCOOL	DENESTS MONO	TOTAL BENEFITS BODD!	MEMERTS MODE)	CUMALATIVE DISCOUNTED NET BENEFITE BODO!
1,790 11,757 0 0 1,780 11,757 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	0	0	0	0	0	0	0	
1,700 11,737 0 1,737 0 1,730 1 1,737 0 1 1,737			0	0	a	0	0	0	
1,800 12,001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	11530	0	0	129	a	120	(13,050)	(10.93
1,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Fr	11.842	0	724	1,540	0	2,284	(11,578)	_
2 2 481 15 ME 24	100	14.145	0	1.404	2.842	0	500	(903.8)	_
2 2 481 15 ME 34		0	1.953	22.18	1.929	0	ă,	18,100	_
2 2 481 15 ME 24	0	0	3,812	2,215	175	0	B,780	8,780	•
2 2 481 15 823 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 0		4.07	2,715	3.736	O	10.021	10,021	
500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 0	0	3,672	2.218	4.008	0	8,878	2.37	
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	. 0	0	1.628	2.775	4.223	0	10.078	10.078	63
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	3,687	2,237	4494	0	10,418	10,418	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60		3,663	127	4.785	0	10,602	10,692	
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0	0	3.628	2272	4 930	0	11,030	11,000	
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	q	0	3.539	1.194	15231	0	11,054	11,054	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 0	0	3,233	2.314	0791	0	11,200	11,200	
5.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0	0	3.086	2,346	5.883	0	1 30	THE C	
50 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	2.001	2.377	6.234		11,482	11,482	
0 002 3.837 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CON	4.359	2.837	2.413	77	0	11,894	7,338	
0 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	837	4 488	2,730	2.451	8.676	0	11,917	7,428	
2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000	4.818	2 708	2.494	7,191	0	12.304	7,776	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	2.607	2.540	7,470	a	12,817	12,617	
0 2.461 15.823 0 2.500 18.342 0	0	0	2.563	2.580	7,715	0	12.884	12,884	
0 2526 18,342 0	128	14.384	2,102	2.633	B.138	0	13,254	(8,130)	
	342	18.867	2.462	2.086	6,414	0	13.542	(5,305)	
28.21 0 18.775 0 12.307	130	19.367	2,300	2.745	8.500	0	13,722	(3.636)	_

0	14,600	04,913	0	111,608	63,910	48,927	122,430	0	230,200	
	8 8 40	8C2 88		40 110	21 787	16,102	36,076	0	73,958	

Discount Rate BenefitiCost Fatio (Col(11) / Col(6))

PARTICIPANT COSTS AND BENEFITS PROCEIVAN METHOD SELECTED NEV, NEG PROCEIVAN NAME Commercialiticalmina NVAC

CAMPACAS STATES CAMPACAS S	5	G	Ü	¥	£	ĝ	(7)	(8)	6	1043	613	(22)
		SAVINCE IN PARTICIPANTS	3	CT.CT.	OTHER	₩101	CUSTOMER	CUSTOMER	9000	₩101	Ä	CUMULATIVE
1		\$777	CHEDITS	MEBATES MODE	MODO!	\$0000 BENEFITS	\$1000	MODO)	\$1000i	COSTS \$(000)	MCACHTS.	\$(000)
Color Colo	908	0	0	0	0	0	0	0	0	0	0	
1,400 C 2,589 O 1,989 11,737 C C C C C 4,238 O 2,589 O 8,827 C C C C 8,324 O C C C C 8,324 O C C C C 8,324 O C C C 8,324 O C C C 8,325 O C C C 8,425 O C 9,425 O C 9	987	0	0	0	0	9	0	0	o	0	0	37
4.238 0 2.5489 0 6.827 12,021 0 12,021 (5.194) 8.394 0	8	8	0	2.509	o	3 368	11 757	0	0	11 757	(7.758)	16.51
E, 1944 D 2,568 Q 9,562 0 0 1,236 Q D Q 1,236 Q D Q 1,236 Q D Q D	900	4.238	a	2.589	0	6,827	12.021	0	a	12,021	(5,194)	(10.49
# 3264 0 0 0 0 # 3264 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	6 954	٥	2.568	0	9.562	12,285	o	a	12,285	(2.703)	12.30
8.505 0 0 0 8.505 0 0 0 8.505 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	8.354	0	0	0	4354	0	a	0	a	0.254	7.0
Rest	8	8 385	0	0	0	8.385	0	o	0	o	£385	(2.08
### ### ### ### ### ### ### ### ### ##	8	0.403	0	0	o	0.463	0	es	0	0	0,463	240
### 8.00	ě	8 630	0	0	o	0.630	0	0	0	0	0.630	673
8.000 0 0 8.000 0 0 8.000 0 0 0 0 0 0 0	90	1998	0	0	0	0.043	0	0	0	0	1 541	10.69
8.512 0 0 0 8.004 8.512 0 0 0 0 8.512 0 0 0 0 8.512 8.521 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	8.309	0	a	0	8,900	0	o	0	0	808.9	14.34
8,312 0 0 0 8,312 0 0 8,317 0 0 0 8,312 0 0 0 0 8,312 0 0 0 8,312 0 0 0 0 0 0 9,312 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100	8 084	0	0	0	1000	0	0	0	0	100 8	
1,1126	Š	8 312	0	0	0	8.312	0	0	0	0	9.312	
10,221 0 0 10,221 0 0 0 0 10,221 10,283 0	ı	123.8	0	0	0	9.527	0	0	0	0	722.0	
10,283	10	100.00	a	0	9	10 321	0	0	O	0	152.01	
10.725 0 200 0 11.014 3.823 0 0 0 3.823 7.192 3.107 11.118 0 0 0 0 0 0 0 0 0.0619 3.107 11.118 0 0 0 0 0 0 0 0 0.0619 3.107 11.118 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10 363	0	0	0	10 383	0	0	0	0	10,363	た男
11,136 0 200 0 11,014 3,823 0 0 3,823 7.182 1 11,136 1 11,236 0 0 1,136 3,823 0 0 0 3,823 7.182 1 11,136 0 0 1,136 3,823 0 0 0 0 1,1316 0 0 0 0 0 1,1316 1 11,1316 0 0 0 1,1316 0 0 0 1,1316 1 11,1316 0 0 1,1316 0 0 1,1316 1 11,1316 0 0 1,1316 1 11,1316 0 0 1,1316 1 11,1316 0 0 1,1316 1 11,1316 0 0 1,1316 1 11,1316 1 11,1316 0 0 1,1316 1 11,1316	613	40.619	0	0	9	910.01	0	0	0	0	10,619	H
	610	10 735	0	907	0	11.014	3,823	0	0	1.623	7,192	N TI
11,135	910	11.116	0	280	0	11,336	3,937	0	0	3,937	7,459	N
11,216 0 0 0 11,216 0 0 0 0 11,216 1 1 1 1 1 1 1 1 1	015	11.136	0	2778	o	11.415	4.060	0	0	4,050	7,354	-
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11,700 0 2,300 0 14,007 15,823 0 0 15,823 (1,875) 4 11,900 0 2,300 0 14,205 16,342 0 0 16,342 (2,077) 4 12,102 0 2,300 0 4,400 16,775 0 0 0 16,775 (2,284) 3	017	1	0	0	0	1 20	0	0	0	o	11,524	40.62
11,966 0 2,309 0 14,265 16,342 0 0 16,342 (2,077) 4 12,152 0 2,308 0 4,490 16,775 0 0 16,775 (2,284) 3	010	11.730	•	2308	0	14,047	13,923	0	0	15,923	(1,676)	¥ Q
12.150 0 2.300 0 A 400 14,775 0 0 14,775 (2,284) 3	610	11.956	0	2.309	0	14,285	16.342	0	0	MA	(7.077)	40 OF
	8	12 162	0	2.308	0	4.490	16,775	0	0	16,775	(2,284	10.81

30.818	36.578	0	0	86,578	78,396	0	7,009	0	400 337	3
		9	0	26,913	230,405	0	15,530	0	214,005	NOM

Service of Gen Unit
Decount Rate
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RATE MPACT TEST PROGRAM METHOD SELECTED REV_RED PROGRAM NAME Commercialing MAC

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	SUPPLY COSTS	UTLUTY PROCESSAS COSTS	PCDITNES	REVENUE	COSTS	1014	AVOIDED GEN UNIT & FUEL BENEFITS	AVOIDED TAD ROSETTS	REVENCE	OTHER BENEFITE MODEL	TOTAL BEMEPITS MODE	MET MEDICATES	CUMULATIVE DISCOUNTEE NET BENEFIT NOON
TEAM	inonia .	0	0	0	0	0	0	0	0	a	o	0	
		. 0		. 0	0	0	0	0	0	0	0	0	
-	9 0	1 780	2 540	1 180	0	\$ 500	467	a	0	0	487	(5,072)	
000	9 6	909	2 500	3.500		7,905	35.	100	0	o	2284	(8,731)	
0000	0	1 880	2.588	5.000	0	10.344	2.842	1.454	0	0	4300	(BCC.B)	
1000	0		0	7,008	0	7,008	7.881	2,218	0	0	10,100	3,374	
-		. 0		7.042	0	7.042	7.354	2.215	0	a	8,780	2,737	
		. 10		7 110	-0	7.110	7,806	2.215	0	0	10,021	2,910	
	0 0	• 0		7.236	0	7.238	7 760	2.218	0	0	9.078	2,723	
	0 0	0.0		7.223	0	7.223	7.862	2,225	6	0	10.078	2,855	
-		. 0		7.463	0	746	B.181	2227	0	0	10,418	2,974	
2000		. 0	0	7.576	0	7.576	8,438	777	0	0	10,682	3,116	(2.673)
	0 0	. 0	0	2 778	0	7.778	8.757	2277	0	9	11,030	1,251	
			0	7.004	0	7.984	8,780	2234	0	0	11,054	3,090	
2000	0		0	8.616	0	8.610	0,663	2,316	0	a	11,200	2,585	
		. 0		8 603	0	6.693	8.978	2,346	0	0	11,324	2,631	
-	0	. 0	. 0	8.880	a	2.560	9,105	2337	0	0	11,462	2,602	
	• 0	200	98	000	0	9 800	9,281	2.413	9	۰	11,554	1,809	
		COS	380	8 300	0	10.131	9,400	2.451	0	0	11,917	1,785	
2000	0	900	279	8.299	0	10,146	9,900	2.494	0	0	12,394	2,248	
2010	0		0	8.439	0	8,439	10,017	2,540	0		12,617	2.178	
1	9 0			9,603	0	9,603	10.298	2,500	0	0	12.884	3,281	
2000	0	24.1	2.308	9.774	0	14.544	10,621	2,633	0	0	1220	(1,290)	
2010		2 636	2 309	9 946	0	14.782	10,877	2,5005	0	0	13,962	(1,220)	

73,958	
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40,107	
188,339	
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15,530	
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Decourt Rate BenefitCost Ratio (Col(12) / Col(7))

1.00