

STEEL  
HECTOR  
DAVIS

December 17, 1998

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

By Hand Delivery

Re: Docket Nos. 970544-EG, 970545-EG, 970543-EG,  
970539-EG, 970541-EG and 970540-EG

980000

Dear Ms. Bayo

Enclosed for filing on behalf of Florida Power & Light Company (FPL) are the original and fifteen (15) copies of cost-effectiveness runs for the following FPL DSM program standards:

Commercial/Industrial Building Envelope, Commercial/Industrial Heating Ventilation & Air-Conditioning, Commercial/Industrial Efficient Lighting, Residential Air-Conditioning, Residential Building Envelope, Residential Duct System Testing and Repair

These cost-effectiveness runs are being filed pursuant to Order Nos. PSC-97-1482-FOF-EG, PSC-97-1483-FOF-EG, PSC-97-1475-FOF-EG, PSC-97-1476-FOF-EG, PSC-97-1479-FOF-EG, PSC-97-1481-FOF-EG and PSC-97-1480-FOF-EG

ACK \_\_\_\_\_  
ASA \_\_\_\_\_  
ATL \_\_\_\_\_  
CFL \_\_\_\_\_  
DTP \_\_\_\_\_  
FPL \_\_\_\_\_  
GFL \_\_\_\_\_  
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UFL \_\_\_\_\_  
VFL \_\_\_\_\_  
WFL \_\_\_\_\_  
XFL \_\_\_\_\_  
YFL \_\_\_\_\_  
ZFL \_\_\_\_\_

If you or your Staff have any questions regarding this filing, please contact me at 222-

2300

*Stutrell*

Very truly yours,

*Charles A. Guyton*

Charles A. Guyton

enc  
cc Leslie Paugh, Esq  
LAI/26833-1

*Paugh*

Closed 2/1/99

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In May of 1997 Florida Power and Light Company submitted petitions to modify the following DSM programs:

- 970544-EG - C/I Building Envelope Program
- 970545-EG - C/I Heating Ventilating and Air Conditioning Program
- 970543-EG - C/I Efficient Lighting Program
- 970539-EG - Residential Air Conditioning Program
- 970541-EG - Residential Building Envelope Program
- 970540-EG - Residential Duct System Testing & Repair Program.

As part of the final orders approving the requested modifications, the FPSC Staff expressed concern over each program's closeness to a 1.0 RIM ratio. Specifically, FPL was requested to reassess the cost-effectiveness of these programs using the most current assumptions, and file the cost-effectiveness ratio with its true-up filing in Docket No. 980002-EG. At that time the filing date was scheduled to be in November 1998.

Subsequent to these final orders, the schedule for the true-up filing for Docket No. 980002-EG was changed from November 1998 to June 1998 in order for FPL to move to a calendar year based ECCR filing.

FPL has re-evaluated the cost-effectiveness of these programs using our most current assumptions. The result of these evaluations are as follows:

Program	RIM	TRC	Participant
C/I Building Envelope Program	1.35	1.60	1.37
C/I Heating Ventilating and Air Conditioning Program	1.29	2.35	2.23
C/I Efficient Lighting Program	1.20	2.61	2.72
Residential Air Conditioning Program	1.09	1.67	2.42
Residential Building Envelope Program	1.35	2.58	2.85
Residential Duct System Testing & Repair Program	1.15	2.00	2.97

The supporting cost-effectiveness runs are attached for your information.

DOCUMENT NO. DATE

14143 DEC 17 88

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PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER MW REDUCTION AT METER	0.87 MW
(2) GENERATOR MW REDUCTION PER CUSTOMER	1.11 MW
(3) MW LINE LOSS PERCENTAGE	8.01 %
(4) GENERATION MW REDUCTION PER CUSTOMER	1.143 MW
(5) MW LINE LOSS PERCENTAGE	7.02 %
(6) GROUP LINE LOSS MULTIPLIER	1.000
(7) CUSTOMER MW INCREASE AT METER	0.0 MW

ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM	22 YEARS
(2) GENERATOR ECONOMIC LIFE	30 YEARS
(3) TLD ECONOMIC LIFE	30 YEARS
(4) K FACTOR FOR GENERATION	1.8418
(5) K FACTOR FOR T & D	1.46985

UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER	---	ECUST
(2) UTILITY RECURRING COST PER CUSTOMER	---	ECOST
(3) UTILITY COST ESCALATION RATE	---	ECUR
(4) CUSTOMER EQUIPMENT COST	---	ECUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	---	ECUR
(6) CUSTOMER O & M COST	---	ECUST
(7) CUSTOMER O & M COST ESCALATION RATE	---	ECUR
(8) INCREASED SUPPLY COSTS	---	ECUST
(9) SUPPLY COSTS ESCALATION RATES	8.96 %	ECUR
(10) UTILITY DISCOUNT RATE	10.30 %	ECUR
(11) UTILITY ALLOC RATE	---	ECUR
(12) UTILITY NON RECURRING REBATE/INCENTIVE	---	ECUR
(13) UTILITY RECURRING REBATE/INCENTIVE	---	ECUR
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE	---	ECUR

AVOIDED GENERATOR AND TLD COSTS

(1) BASE YEAR	1988
(2) N-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2001
(3) N-SERVICE YEAR FOR AVOIDED TLD	2001-2001
(4) BASE YEAR AVOIDED GENERATING COST	265 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST	70 \$/kW
(6) BASE YEAR DISTRIBUTION COST	50 \$/kW
(7) GEN. TRAN & DIST COST ESCALATION RATE	1.78 %
(8) GENERATOR FIXED O & M COST	56 \$/kW/YR
(9) GENERATOR FIXED O & M COST ESCALATION RATE	4.10 %
(10) TRANSMISSION FIXED O & M COST	2.73 \$/kW
(11) DISTRIBUTION FIXED O & M COST	13.01 \$/kW
(12) TLD FIXED O & M COST	4.10 %
(13) AVOIDED GEN UNIT (AVAILABLE O & M COSTS)	0.030 CENTS/kWh
(14) GENERATOR VARIABLE O & M COST ESCALATION RATE	2.70 %
(15) GENERATOR CAPACITY FACTOR	21% (per annum)
(16) AVOIDED GENERATING UNIT FUEL COST	3.07 CENTS PER kWh (per service Y)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE	4.27 %

NON-FUEL ENERGY AND DEMAND CHARGES

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

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

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED REV. REC  
PROGRAM NAME Casper\_04

YEAR	(1) UTILITY PROGRAM COSTS WITHOUT INCENTIVES	(2) UTILITY PROGRAM COSTS WITH INCENTIVES	(3) OTHER UTILITY PROGRAM COSTS	(4) TOTAL UTILITY PROGRAM COSTS	(5) ENERGY CHARGE REVENUE LOSSES	(6) DEMAND CHARGE REVENUE LOSSES	(7) PARTICIPANT EQUIPMENT COSTS	(8) PARTICIPANT O&M COSTS	(9) OTHER PARTICIPANT COSTS	(10) TOTAL PARTICIPANT COSTS
	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000
1998	0	0	0	0	0	0	0	0	0	0
1999	480	1,571	0	2,051	168	168	4,719	0	4,719	0
2000	403	1,298	0	1,693	473	406	3,884	0	3,884	0
2001	0	0	0	0	618	587	0	0	0	0
2002	0	0	0	0	618	587	0	0	0	0
2003	0	0	0	0	631	596	0	0	0	0
2004	0	0	0	0	634	596	0	0	0	0
2005	0	0	0	0	644	596	0	0	0	0
2006	0	0	0	0	646	585	0	0	0	0
2007	0	0	0	0	651	584	0	0	0	0
2008	0	0	0	0	655	585	0	0	0	0
2009	199	308	0	507	655	583	2,227	0	2,227	0
2010	164	247	0	411	664	584	1,835	0	1,835	0
2011	0	0	0	0	689	549	0	0	0	0
2012	0	0	0	0	697	548	0	0	0	0
2013	0	0	0	0	705	544	0	0	0	0
2014	0	0	0	0	717	544	0	0	0	0
2015	0	0	0	0	723	541	0	0	0	0
2016	0	0	0	0	733	535	0	0	0	0
2017	0	0	0	0	734	538	0	0	0	0
2018	0	0	0	0	741	533	0	0	0	0
2019	849	1,571	0	2,420	749	530	8,174	0	8,174	0
2020	700	1,289	0	1,989	737	528	8,740	0	8,740	0

FROM	2,808	8,215	0	8,021	14,322	11,808	27,579	0	0	27,579
BY	1,171	3,159	0	4,328	5,899	4,881	11,481	0	0	11,481

\* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK  
\*\* NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRIC AND RAL TESTS

CALCULATION OF GEN K-FACTOR  
PROGRAM METHOD SELECTED REV. 92  
PROGRAM NAME: Cargym, 98

YEAR	(2) AUC-YEAR RATE BASE \$1000	(3) DEBT \$1000	(4) PREFERRED STOCK \$1000	(5) COMMON EQUITY \$1000	(6) INCOME TAXES \$1000	(7) OTHER TAXES & INSURANCE \$1000	(8) DEPRECIATION \$1000	(9) DEFERRED TAXES \$1000	(10) TOTAL FIXED CHARGES \$1000	(11) PRESENT WORTH \$1000	(12) CUMULATIVE PW FIXED CHARGES \$1000
2001	3,759	129	0	238	159	13	128	7	322	73	732
2002	3,601	123	0	248	103	13	128	7	298	61	1,383
2003	3,422	117	0	228	103	13	128	6	263	57	1,958
2004	3,250	111	0	223	102	13	128	6	238	50	2,487
2005	3,085	106	0	212	102	13	128	5	214	44	2,976
2006	2,927	100	0	201	101	13	128	5	191	39	3,314
2007	2,774	95	0	191	100	13	128	4	168	35	3,605
2008	2,627	90	0	181	99	13	128	4	146	31	3,878
2009	2,483	85	0	171	94	13	128	3	125	24	4,250
2010	2,340	80	0	161	84	13	128	3	104	21	4,603
2011	2,198	75	0	151	81	13	128	2	84	18	4,904
2012	2,052	70	0	141	75	13	128	2	68	16	5,058
2013	1,908	65	0	131	69	13	128	1	54	14	5,202
2014	1,765	60	0	121	63	13	128	1	41	12	5,329
2015	1,621	55	0	111	57	13	128	1	29	10	5,438
2016	1,478	51	0	102	50	13	128	1	20	9	5,534
2017	1,334	46	0	92	44	13	128	1	14	8	5,617
2018	1,190	41	0	82	38	13	128	1	10	7	5,688
2019	1,047	36	0	72	32	13	128	1	7	6	5,750
2020	903	31	0	62	26	13	128	1	5	5	5,803
2021	775	27	0	53	20	13	128	1	4	4	5,849
2022	660	23	0	47	16	13	128	1	3	4	5,890
2023	600	21	0	41	13	13	128	1	3	4	5,928
2024	520	19	0	36	10	13	128	1	2	3	5,958
2025	440	15	0	30	8	13	128	1	2	2	5,985
2026	360	12	0	25	6	13	128	1	1	2	6,009
2027	280	10	0	19	5	13	128	1	1	1	6,020
2028	200	7	0	14	4	13	128	1	1	1	6,049
2029	120	4	0	8	3	13	128	1	1	1	6,084
2030	40	1	0	3	2	13	128	1	1	1	6,084

W-L INCL LTR (3000) 3.750  
 BALANCE YEAR 2001 30  
 BOOK LIFE (YRS) 28.575  
 EFFECT TAX RATE 8.88%  
 DISCOUNT RATE 1.62%  
 O-TAX & INS RATE 1.62%

CAPITAL STRUCTURE			K-FACTOR = GMWC / M-SVC COST *		
SOURCE	WEIGHT	COST			
DEBT	43%	7.80%			
PGS	0%	0.00%			
CG	57%	12.50%			

YEAR	TAX SCHEDULE	TAX \$000	ACCUMULATED TAX \$000	BOOK TAX \$000	ACCUMULATED DEFERRED TAX \$000	DEFERRED TAX FOR REPRODUCTION \$000	DEFERRED TAX FOR DEPRECIATION \$000	TOTAL DEFERRED TAX \$000	BOOK DEPR RATE	DEFERRED TAX RATE	SALVAGE TAX RATE	ANNUAL DEFERRED TAX \$000	ACCUMULATED DEFERRED TAX \$000
2001	3.75%	139	139	139	139	119	119	258	0	0	0	119	139
2002	7.27%	247	406	139	262	239	119	351	0	0	0	239	378
2003	8.80%	347	603	139	378	308	119	487	0	0	0	308	686
2004	8.47%	229	682	139	504	477	119	623	0	0	0	477	1163
2005	5.71%	211	1,080	139	630	597	119	749	0	0	0	597	1760
2006	5.29%	196	1,284	139	758	718	119	877	0	0	0	718	2478
2007	4.80%	181	1,469	139	882	825	119	997	0	0	0	825	3303
2008	4.52%	167	1,637	139	1,008	855	119	1,114	0	0	0	855	4158
2009	4.46%	165	1,802	139	1,134	1,074	119	1,253	0	0	0	1,074	5232
2010	4.46%	165	1,967	139	1,260	1,153	119	1,392	0	0	0	1,153	6385
2011	4.46%	165	2,132	139	1,386	1,232	119	1,531	0	0	0	1,232	7617
2012	4.46%	165	2,297	139	1,512	1,312	119	1,670	0	0	0	1,312	8929
2013	4.46%	165	2,462	139	1,638	1,392	119	1,809	0	0	0	1,392	10321
2014	4.46%	165	2,627	139	1,764	1,472	119	1,948	0	0	0	1,472	11793
2015	4.46%	165	2,792	139	1,890	1,552	119	2,087	0	0	0	1,552	13345
2016	4.46%	165	2,957	139	2,016	1,632	119	2,226	0	0	0	1,632	14977
2017	4.46%	165	3,122	139	2,142	1,712	119	2,365	0	0	0	1,712	16689
2018	4.46%	165	3,287	139	2,268	1,792	119	2,504	0	0	0	1,792	18481
2019	4.46%	165	3,452	139	2,394	1,872	119	2,643	0	0	0	1,872	20353
2020	4.46%	165	3,617	139	2,520	1,952	119	2,782	0	0	0	1,952	22305
2021	2.27%	83	3,700	139	2,646	2,032	119	2,921	0	0	0	2,032	24437
2022	0.00%	0	3,700	139	2,772	2,112	119	3,060	0	0	0	2,112	26649
2023	0.00%	0	3,700	139	2,898	2,192	119	3,200	0	0	0	2,192	28941
2024	0.00%	0	3,700	139	3,024	2,272	119	3,340	0	0	0	2,272	31313
2025	0.00%	0	3,700	139	3,150	2,352	119	3,480	0	0	0	2,352	33765
2026	0.00%	0	3,700	139	3,276	2,432	119	3,620	0	0	0	2,432	36297
2027	0.00%	0	3,700	139	3,402	2,512	119	3,760	0	0	0	2,512	38909
2028	0.00%	0	3,700	139	3,528	2,592	119	3,900	0	0	0	2,592	41601
2029	0.00%	0	3,700	139	3,654	2,672	119	4,040	0	0	0	2,672	44373
2030	0.00%	0	3,700	139	3,780	2,752	119	4,180	0	0	0	2,752	47225

SALVAGE / REMOVAL COST 0.00%  
 YEAR SALVAGE / COST OF REMOVAL 2029 (48)  
 DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5) 200 (48)  
 TOTAL EQUITY ADJUC CAPITALIZED (SEE PAGE 5) 200 (48)  
 BOOK DEPR RATE - USERRA LIFE 3.37%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
PROGRAM METHOD SELECTED REV. REG  
PROGRAM NA Change, IN

YEAR	TAX SCHEDULE	TAX \$000	DEFERRED TAX \$000	NET PLANT N SERVICE	ACCUMULATE DEPRECIATION	ACCUMULATE DEF TAXES	REMAINING YEAR RATE BASE	ENDING OF YEAR RATE BASE	MID-YEAR RATE BASE
				\$000	\$000	\$000	\$000	\$000	\$000
2001	3.75%	287	37	3,528	252	8	3,892	3,692	3,738
2002	7.27%	247	48	3,492	378	88	3,508	3,534	3,601
2003	8.68%	229	42	3,278	504	170	3,134	3,250	3,422
2004	8.18%	211	35	3,150	630	145	3,164	3,005	3,205
2005	5.21%	188	29	3,024	756	175	3,005	2,848	3,005
2006	4.89%	181	24	2,899	882	198	2,849	2,699	2,827
2007	4.52%	187	19	2,772	1,008	217	2,699	2,555	2,714
2008	4.46%	185	18	2,646	1,134	225	2,555	2,411	2,627
2009	4.46%	185	18	2,520	1,260	252	2,411	2,268	2,483
2010	4.46%	185	18	2,394	1,386	279	2,268	2,124	2,340
2011	4.46%	185	18	2,268	1,512	287	2,124	1,980	2,198
2012	4.46%	185	18	2,142	1,638	305	1,980	1,837	2,052
2013	4.46%	185	18	2,016	1,764	323	1,837	1,693	1,909
2014	4.46%	185	18	1,890	1,890	340	1,693	1,550	1,765
2015	4.46%	185	18	1,764	2,016	358	1,550	1,408	1,621
2016	4.46%	185	18	1,638	2,142	378	1,408	1,265	1,478
2017	4.46%	185	18	1,512	2,268	393	1,265	1,119	1,334
2018	4.46%	185	18	1,386	2,394	411	1,119	975	1,190
2019	4.46%	185	18	1,260	2,520	429	975	831	1,047
2020	2.27%	185	83	1,134	2,646	414	831	687	803
2021	0.00%	0	0	1,008	2,772	388	687	543	660
2022	0.00%	0	0	882	2,898	360	543	400	500
2023	0.00%	0	0	756	3,024	328	400	257	357
2024	0.00%	0	0	630	3,150	290	257	114	214
2025	0.00%	0	0	504	3,276	246	114	0	114
2026	0.00%	0	0	378	3,402	198	0	0	198
2027	0.00%	0	0	252	3,528	150	0	0	150
2028	0.00%	0	0	126	3,654	102	0	0	102
2029	0.00%	0	0	0	3,780	54	0	0	54
2030	0.00%	0	0	0	0	0	0	0	0

\* Column not specified in workbook

(1)	(2)	(3)	(4)	(5)	(6)	(7)
NO YEARS BEFORE SERVICE	PLANT ESCALATION RATE	CUMULATIVE ESCALATION FACTOR	YEARLY EXPENDITURE	ANNUAL SPENDING (\$MM)	CUMULATIVE AVERAGE SPENDING (\$MM)	
1998	3	0.00%	1.000	0.00	0.00	
1999	2	1.78%	1.018	60.62	42.91	
2000	1	1.53%	1.033	186.71	179.18	

100.00% 272.53

YEAR	NO YEARS BEFORE SERVICE	CUMULATIVE SPENDING WITH AMLUC (\$MM)	CUMULATIVE DEBT AMLUC (\$MM)	CUMULATIVE DEBT AMLUC (\$MM)	YEARLY TOTAL AMLUC (\$MM)	CUMULATIVE TOTAL AMLUC (\$MM)	CONSTRUCTION PERIOD INTEREST (\$MM)	CUMULATIVE CONSTRUCTION INTEREST (\$MM)	DEFERRED TAXES (\$MM)	CUMULATIVE DEFERRED TAXES (\$MM)	INCREMENTAL YEAR-END BOOK VALUE (\$MM)	CUMULATIVE YEAR-END BOOK VALUE (\$MM)
1998	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	42.91	1.47	1.47	4.42	4.42	3.28	3.28	0.89	0.89	90.24	90.24
2000	1	183.80	6.30	7.77	18.87	23.39	13.87	17.13	0.82	0.81	205.88	296.12

7.77 23.39 17.13 0.81 296.12

N SERVICE YEAR 2001  
PLANT COSTS 285  
AMLUC RATE 10.20%

	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	3,481	3,481
EQUITY AMLUC	200	
DEBT AMLUC	89	
CM		218
TOTAL	3,780	3,700

\* Column not specified in workbook

YEAR	(1) CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	(2) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(3) UTILITY SYSTEM FUEL COST (C/MWH)	(4) AVOIDED NATIONAL FUEL COST (C/MWH)	(5) INCREASED NATIONAL FUEL COST (C/MWH)	(6) REPLACEMENT PROGRAM FUEL COST (C/MWH)	(7) PROGRAM EFFECTIVENESS FACTOR	(8) PROGRAM EFFECTIVENESS FACTOR	(9) PROGRAM EFFECTIVENESS FACTOR
1998	0	0	2.50	2.51	2.51	0.00	1.00	1.00	1.00
1999	8,364	8,364	2.23	2.83	2.29	0.00	1.00	1.00	1.00
2000	11,664	11,664	2.43	3.18	2.52	0.00	1.00	1.00	1.00
2001	11,664	11,664	2.75	4.00	2.85	4.23	1.00	1.00	1.00
2002	11,664	11,664	2.82	3.30	2.70	3.96	1.00	1.00	1.00
2003	11,664	11,664	2.80	3.41	2.87	3.78	1.00	1.00	1.00
2004	11,664	11,664	2.78	3.71	2.89	4.50	1.00	1.00	1.00
2005	11,664	11,664	2.85	3.81	2.83	4.80	1.00	1.00	1.00
2006	11,664	11,664	2.82	4.01	3.01	5.81	1.00	1.00	1.00
2007	11,664	11,664	2.94	4.41	3.15	7.23	1.00	1.00	1.00
2008	11,664	11,664	2.99	4.19	3.08	7.79	1.00	1.00	1.00
2009	11,664	11,664	3.07	4.54	3.18	8.79	1.00	1.00	1.00
2010	11,664	11,664	3.20	4.53	3.31	7.35	1.00	1.00	1.00
2011	11,664	11,664	3.29	4.54	3.40	7.40	1.00	1.00	1.00
2012	11,664	11,664	3.38	4.89	3.48	8.12	1.00	1.00	1.00
2013	11,664	11,664	3.46	4.86	3.58	7.94	1.00	1.00	1.00
2014	11,664	11,664	3.54	5.08	3.68	7.88	1.00	1.00	1.00
2015	11,664	11,664	3.67	5.18	3.80	7.44	1.00	1.00	1.00
2016	11,664	11,664	3.70	5.21	3.83	7.28	1.00	1.00	1.00
2017	11,664	11,664	3.83	5.53	3.87	7.81	1.00	1.00	1.00
2018	11,664	11,664	4.00	5.80	4.14	8.48	1.00	1.00	1.00
2019	11,664	11,664	4.18	6.15	4.22	8.51	1.00	1.00	1.00
2020	11,664	11,664	4.30	6.35	4.48	8.89	1.00	1.00	1.00

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

AVOIDED GENERATING BENEFITS  
PROGRAM METHOD SELECTED REV. REC  
PROGRAM NAME: Cmpgm. #8

YEAR	(2) AVOIDED CAPACITY COS GEN UNIT \$1000	(3) AVOIDED FIXED O&M GEN UNIT \$1000	(4) AVOIDED VARIABLE O&M GEN UNIT \$1000	(5) AVOIDED FUEL COST GEN UNIT \$1000	(6) REPLACEMENT FUEL COST GEN UNIT \$1000	(7) AVOIDED GEN UNIT BENEFIT \$1000
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	732	810	7	707	812	1,281
2002	709	842	5	501	620	1,437
2003	683	816	4	372	411	1,526
2004	658	810	4	402	544	1,480
2005	634	848	4	431	571	1,445
2006	611	864	4	421	644	1,377
2007	588	1,024	4	447	833	1,220
2008	567	1,065	3	328	854	1,308
2009	546	1,107	3	342	757	1,241
2010	525	1,151	4	306	649	1,387
2011	504	1,187	3	275	687	1,482
2012	483	1,245	3	268	518	1,481
2013	462	1,286	3	275	487	1,537
2014	441	1,347	3	280	455	1,598
2015	420	1,407	3	319	508	1,632
2016	399	1,467	3	303	464	1,687
2017	378	1,516	4	349	545	1,701
2018	357	1,576	4	421	712	1,848
2019	336	1,639	5	491	809	1,882
2020	315	1,704	5	508	848	1,885

NAME	10,348	24,091	78	7,832	12,530	28,811
NPV	4,443	8,316	72	2,717	4,802	11,305

YEAR	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)	
	AVOIDED TRANSMISSION/ DISTRIBUTION CAP COST \$1000	AVOIDED O&M COST \$1000	AVOIDED TRANSMISSION/ DISTRIBUTION CAP COST \$1000	AVOIDED O&M COST \$1000	TOTAL AVOIDED COST \$1000	AVOIDED TRANSMISSION/ DISTRIBUTION CAP COST \$1000	AVOIDED O&M COST \$1000	TOTAL AVOIDED COST \$1000	AVOIDED TRANSMISSION/ DISTRIBUTION CAP COST \$1000	AVOIDED O&M COST \$1000	TOTAL AVOIDED COST \$1000	PROGRAM FUEL SAVINGS \$1000	PROGRAM OFF-PEAK PAYBACK \$1000	PROGRAM FUEL SAVINGS \$1000	PROGRAM OFF-PEAK PAYBACK \$1000	PROGRAM FUEL SAVINGS \$1000	PROGRAM OFF-PEAK PAYBACK \$1000	
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2000	91	21	112	201	213	58	91	149	105	171	276	111	30	146	582	0		
2001	162	39	201	187	388	105	171	276	102	178	280	485	0	485	0	0		
2002	156	41	197	183	380	96	155	251	94	192	286	529	0	529	0	0		
2003	150	43	193	189	382	90	200	290	87	218	308	575	0	575	0	0		
2004	144	46	190	185	375	84	216	300	84	216	300	641	0	641	0	0		
2005	139	48	187	178	365	77	224	301	77	224	301	698	0	698	0	0		
2006	134	50	184	175	359	71	231	302	71	231	302	748	0	748	0	0		
2007	129	52	181	170	351	66	238	304	66	238	304	771	0	771	0	0		
2008	124	54	178	165	343	60	244	304	60	244	304	802	0	802	0	0		
2009	119	56	175	160	335	54	251	305	54	251	305	828	0	828	0	0		
2010	114	58	172	155	327	48	258	306	48	258	306	852	0	852	0	0		
2011	109	61	169	150	319	42	265	307	42	265	307	877	0	877	0	0		
2012	104	63	166	145	311	36	272	308	36	272	308	902	0	902	0	0		
2013	99	65	163	140	308	30	279	309	30	279	309	928	0	928	0	0		
2014	94	68	160	135	305	24	286	310	24	286	310	954	0	954	0	0		
2015	90	71	158	130	301	18	293	311	18	293	311	981	0	981	0	0		
2016	85	74	155	125	290	12	300	312	12	300	312	1008	0	1008	0	0		
2017	80	77	152	120	282	6	307	313	6	307	313	1036	0	1036	0	0		
2018	75	80	149	115	274	0	314	314	0	314	314	1065	0	1065	0	0		
2019	70	83	146	110	266	-4	321	315	-4	321	315	1095	0	1095	0	0		
2020	66	86	143	105	259	-10	328	316	-10	328	316	1126	0	1126	0	0		

YEAR	AVOIDED TRANSMISSION/ DISTRIBUTION CAP COST \$1000	AVOIDED O&M COST \$1000	TOTAL AVOIDED COST \$1000	AVOIDED TRANSMISSION/ DISTRIBUTION CAP COST \$1000	AVOIDED O&M COST \$1000	TOTAL AVOIDED COST \$1000	PROGRAM FUEL SAVINGS \$1000	PROGRAM OFF-PEAK PAYBACK \$1000	PROGRAM FUEL SAVINGS \$1000	PROGRAM OFF-PEAK PAYBACK \$1000
1998	2334	1,993	4,327	1,517	5,171	6,688	13,829	0	0	0
1999	1,048	422	1,470	680	1,830	2,510	5,181	0	0	0

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

TOTAL RESOURCE COST TEST  
PROGRAM METHOD SELECTED REV\_16  
PROGRAM NAME Change\_16

YEAR	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	INCREASED SUPPLY COSTS	UTILITY PROGRAM COSTS	PARTICIPANT PROGRAM COSTS	OTHER COSTS	TOTAL COSTS	AVOIDED OEN UNIT BENEFITS	AVOIDED TAD BENEFITS	PROGRAM FUEL SAVINGS	OTHER BENEFITS	TOTAL BENEFITS	NET BENEFITS	CUMULATIVE DISCOUNTED NET BENEFITS	
	\$000	\$000	\$000	\$000	\$000	\$07.3	\$000	\$000	\$000	\$000	\$000	\$000	
1998	0	0	0	0	0	0	0	0	0	0	0	0	
1999	0	490	0	479	0	0	0	111	0	111	111	14,678	
2000	0	403	0	3,884	0	0	782	352	0	1,134	1,134	17,778	
2001	0	0	0	0	0	1,381	478	562	0	2,341	2,341	35,965	
2002	0	0	0	0	0	1,437	478	465	0	2,379	2,379	35,965	
2003	0	0	0	0	0	1,524	475	465	0	2,464	2,464	35,965	
2004	0	0	0	0	0	1,460	475	529	0	2,464	2,464	35,965	
2005	0	0	0	0	0	1,445	475	561	0	2,481	2,481	35,965	
2006	0	0	0	0	0	1,377	478	573	0	2,428	2,428	35,965	
2007	0	0	0	0	0	1,320	478	641	0	2,349	2,349	35,965	
2008	0	199	0	2,227	0	1,308	460	608	0	2,395	2,395	35,965	
2009	0	0	0	0	0	1,341	463	628	0	2,362	2,362	35,965	
2010	0	164	0	1,635	0	1,367	467	658	0	2,529	2,529	35,965	
2011	0	0	0	0	0	1,462	467	652	0	2,621	2,621	35,965	
2012	0	0	0	0	0	1,461	460	676	0	2,602	2,602	35,965	
2013	0	0	0	0	0	1,537	500	702	0	2,739	2,739	35,965	
2014	0	0	0	0	0	1,596	525	754	0	2,875	2,875	35,965	
2015	0	0	0	0	0	1,632	511	748	0	2,891	2,891	35,965	
2016	0	0	0	0	0	1,607	518	771	0	2,896	2,896	35,965	
2017	0	0	0	0	0	1,701	525	823	0	3,029	3,029	35,965	
2018	0	849	0	8,174	0	1,846	533	843	0	3,022	3,022	35,965	
2019	0	700	0	6,740	0	1,962	541	807	0	3,100	3,100	35,965	
2020	0	0	0	0	0	1,985	551	829	0	3,181	3,181	35,965	

HCMA	0	2,808	27,279	0	30,584	29,811	10,274	13,839	0	53,963	23,579	
HPV	0	1,171	11,491	0	12,662	11,705	3,878	5,191	0	20,244	7,992	

Discount Rate   
Benefit-Cost Ratio (Col(11) / Col(12))

PARTICIPANT COSTS AND BENEFITS  
PROGRAM METHOD: SELECTED REV. REG  
PROGRAM NAME: Chargeup, BT

YEAR	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	SAVINGS IN PARTICIPANTS BILLS \$1000	TAX CREDITS \$1000	UTILITY REBATES \$1000	OTHER BENEFITS \$1000	TOTAL BENEFITS \$1000	CUSTOMER EQUIPMENT COSTS \$1000	CUSTOMER O&M COSTS \$1000	OTHER COSTS \$1000	TOTAL COSTS \$1000	NET BENEFITS \$1000	DISCOUNTED NET BENEFITS \$1000	
1998	0	0	0	0	0	0	0	0	0	0	0	
1999	398	0	1,571	0	1,967	4,718	0	0	4,718	(2,752)	(2,526)	
2000	1,108	0	1,259	0	2,365	1,884	0	0	3,884	(1,519)	(2,804)	
2001	1,433	0	0	0	1,433	0	0	0	1,433	(2,697)	(2,697)	
2002	1,432	0	0	0	1,432	0	0	0	1,432	(1,881)	(1,881)	
2003	1,451	0	0	0	1,451	0	0	0	1,451	(1,451)	(777)	
2004	1,453	0	0	0	1,453	0	0	0	1,453	(1,453)	131	
2005	1,498	0	0	0	1,498	0	0	0	1,498	(886)	833	
2006	1,458	0	0	0	1,458	0	0	0	1,458	(1,458)	2,342	
2007	1,464	0	0	0	1,464	0	0	0	1,464	(1,470)	2,884	
2008	1,470	0	0	0	1,470	2,227	0	0	3,697	(451)	2,788	
2009	1,468	0	308	0	1,776	1,826	0	0	3,602	(1,025)	2,754	
2010	1,480	0	247	0	1,727	0	0	0	1,727	(1,480)	3,228	
2011	1,480	0	0	0	1,480	0	0	0	1,480	(1,480)	3,888	
2012	1,487	0	0	0	1,487	0	0	0	1,487	(1,487)	4,098	
2013	1,512	0	0	0	1,512	0	0	0	1,512	(1,512)	4,480	
2014	1,519	0	0	0	1,519	0	0	0	1,519	(1,519)	4,832	
2015	1,525	0	0	0	1,525	0	0	0	1,525	(1,525)	5,157	
2016	1,527	0	0	0	1,527	0	0	0	1,527	(1,527)	5,465	
2017	1,535	0	0	0	1,535	0	0	0	1,535	(1,535)	5,750	
2018	1,542	0	1,571	0	3,113	8,174	0	0	11,287	(5,087)	4,898	
2019	1,542	0	1,259	0	2,801	8,740	0	0	11,541	(2,911)	4,305	
2020	1,550	0	0	0	1,550	0	0	0	1,550	0	0	

YEAR	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
	CONCOURT PLAN BENEFIT/COST RATIO (CONTR / COST)									
1998	31,284	0	4,215	0	37,479	27,579	0	0	27,579	8,800
1999	12,828	0	3,198	0	16,026	11,481	0	0	11,481	4,305

In Service of Gen Unit  
 Discount Rate  
 Benefit/Cost Ratio (Contr / Cost) 2001  
 8.98 %  
 1.31

