

State of Florida



# Public Service Commission

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TALLAHASSEE, FLORIDA 32399-0850

**-M-E-M-O-R-A-N-D-U-M-**

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**DATE:** February 25, 2010  
**TO:** Ann Cole, Commission Clerk, Office of Commission Clerk  
**FROM:** Katherine E. Fleming, Senior Attorney, Office of the General Counsel *KEF*  
**RE:** Docket Nos. 080407-EG – 080413-EG – Commission review of numeric conservation goals.

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Please place the attached document in the above-referenced docket files. Thank you.

RECEIVED-FPSC  
10 FEB 25 PM 3:13  
COMMISSION  
CLERK

DOCUMENT NUMBER-DATE

01282 FEB 25 09

FPSC-COMMISSION CLERK

## Katherine Fleming

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**From:** Burnett, John [John.Burnett@pgnmail.com]  
**Sent:** Friday, January 22, 2010 2:15 PM  
**To:** Katherine Fleming  
**Cc:** Glenn, Alex; Brenda Buchan; Charles Beck; Charlie Guyton ; Don Wucker; E. Leon Jacobs; English, Jack; Gary V. Perko; George Cavros (SACE); J.R. Kelly; James D. Beasley; Jeremy Susac; Jessica Cano; Joe Eysie ; John McWhirter; Jon C. Moyle Jr.; Myron Rollins; Norman H. Horton; Lewis Jr, Paul; Paula K. Brown; Roy Young; Steven Griffin; Susan Clark ; Susan Ritenour; Suzanne Brownless; Teala Milton; Vicki Gordon Kaufman ; Wade\_Litchfield; Jennifer Brubaker; Tom Ballinger; Mark Futrell; Bob Trapp; Beth Salak; Burnett, John  
**Subject:** RE: PEF Motion for Reconsideration  
**Attachments:** FPSC Motion For Reconsideration Inquiry Response V2.docx; Attachment A1 - PEF Response to Staff's 7th ROGs (41-80).docx; Attachment A2 2.pdf; Attachment B - PEF Tech Pot Study B.1-2.pdf; Attachment C - PEF's Late Filed Exhibit.xlsx

Katherine:

Attached are documents responsive to your question below. Please let me know if you have any questions. Thanks,

**John T. Burnett**  
Associate General Counsel  
Progress Energy Service Company, LLC  
P.O. Box 14042, PEF 151  
St. Petersburg, FL 33733  
727-820-5184 (T)  
727-820-5249 (F)  
john.burnett@pgnmail.com

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**From:** Katherine Fleming [mailto:KEFLEMIN@PSC.STATE.FL.US]  
**Sent:** Wednesday, January 20, 2010 2:49 PM  
**To:** Burnett, John  
**Cc:** Glenn, Alex; Brenda Buchan; Charles Beck; Charlie Guyton ; Don Wucker; E. Leon Jacobs; English, Jack; Gary V. Perko; George Cavros (SACE); J.R. Kelly; James D. Beasley; Jeremy Susac; Jessica Cano; Joe Eysie ; John McWhirter; Jon C. Moyle Jr.; Myron Rollins; Norman H. Horton; Lewis Jr, Paul; Paula K. Brown; Roy Young; Steven Griffin; Susan Clark ; Susan Ritenour; Suzanne Brownless; Teala Milton; Vicki Gordon Kaufman ; Wade\_Litchfield; Jennifer Brubaker; Tom Ballinger; Mark Futrell; Bob Trapp; Beth Salak  
**Subject:** FW: PEF Motion for Reconsideration  
**Importance:** High

John,

Could you please verify the numbers of the three measures that were double counted because staff cannot reconcile the numbers in the motion to the numbers in the record.

Thank you,

2/25/2010

DOCUMENT NUMBER-DATE  
01282 FEB 25 09  
FPSC-COMMISSION CLERK

Katherine E. Fleming, Senior Attorney  
Office of the General Counsel  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399  
Phone (850) 413-6218  
Fax (850) 413-6219

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**From:** Tibbetts, Arlene [mailto:Arlene.Tibbetts@pgnmail.com]

**Sent:** Tuesday, January 12, 2010 10:23 AM

**To:** Filings@psc.state.fl.us

**Cc:** 'jenglish@fpuc.com'; 'ljacobs50@comcast.net'; 'sclark@radeylaw.com'; 'jeremy.susac@myflorida.com'; 'suzannebrownless@comcast.net'; Katherine Fleming; 'vkaufman@kagmlaw.com'; 'jmcwhirter@mac-law.com'; 'george@cavros-law.com'; 'jbeasley@ausley.com'; 'lwillis@ausley.com'; 'srg@beggslane.com'; 'cbrowder@ouc.com'; 'miltta@jea.com'; 'ryoung@yvlaw.net'; 'nhorton@lawfla.com'; 'sdriteno@southernco.com'; 'cguyton@ssd.com'; 'wade.litchfield@fpl.com'; Burnett, John; 'rhalley@ouc.com'; 'jeff.curry@lakelandelectric.com'; 'regdept@tecoenergy.com'; 'jessica.cano@fpl.com'; 'gperko@hgslaw.com'; Masiello, John A.; Lewis Jr, Paul

**Subject:** PEF Motion for Reconsideration

This electronic filing is made by:

John Burnett  
P.O. Box 14042  
St. Petersburg, FL 33733  
727-820-5184  
[John.Burnett@pgnmail.com](mailto:John.Burnett@pgnmail.com)

Docket: 080408-EG, et al.

In re: Commission Review of numeric conservation goals (Progress Energy Florida, Inc.)

On behalf of Progress Energy Florida

Consisting of 8 pages

The attached document for filing is PEF's Motion for Reconsideration

## FPSC Motion For Reconsideration Inquiry Response

**Question: Could you please verify the numbers of the three measures that were double counted because staff cannot reconcile the numbers in the motion to the numbers in the record?**

### PEF's response:

- The basis for determining which measures were double-counted is PEF's Response to Staff's 7<sup>th</sup> Interrogatory-Question 66, Attachment H, page 2 of 12. This document itemizes measures by building type that were included in the E-TRC portfolio.
- The measures in question were also included with ITRON's *Technical Potential for Electric Energy and Peak Demand Savings in Progress Energy Florida* study as listed in Appendix B.1, page B.1-2 of the study.
- The basis for the impacts associated with the 3 double-counted measures is PEF's *Late Filed Exhibit 2*, which contains a listing of the top ten residential and commercial measures with paybacks of 2-years or less.
- *Late Filed Exhibit 2* page 1 of 1 was prepared by PEF utilizing detailed measure impacts by building types provided by ITRON to PEF in file name "O\_Saere\_PEF\_TRC\_NO.xls". This file contains technical potential level impacts by building types.
- Most measures listed in *Late Filed Exhibit 2* page 1 of 1 reflect a summary of measures for multiple building types. Thus, the technical potential savings of 681.43 GWH for measure number 231 reflects the sum of impacts for single family homes, multi-family homes and mobile homes. Impacts for measure numbers 801 and 802 of 210.32 GWH and 211.83 GWH, respectively, reflect the sum of impacts for single family homes and mobile homes.
- Impacts for the double-counted measures listed in PEF's Motion for Reconsideration reflect the following measures by building type as extracted from ITRON's file name "O\_Saere\_PEF\_TRC\_NO.xls".
  - Measure 231 (CFL) – Mobile Homes
  - Measure 801 (2-Speed Pool Pump) – Single Family
  - Measure 802 (High Efficiency 1-Speed Pool Pump) – Mobile Homes

### Attachments:

- ITRON's *Technical Potential for Electric Energy and Peak Demand Savings in Progress Energy Florida* study
- PEF's Response to Staff's 7<sup>th</sup> Interrogatory-Question 66, Attachment H on page 2 of 12.
- PEF's *Late Filed Exhibit #2*

**Attachment A1 – PEF’s Response to Staff’s 7<sup>th</sup> Interrogatory**

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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In re: Commission review of numeric  
conservation goals (Progress Energy  
Florida, Inc.).

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Docket No. 080408-EG

Submitted for Filing: July 22, 2009

**PROGRESS ENERGY FLORIDA’S RESPONSES TO  
STAFF’S SEVENTH SET OF INTERROGATORIES (NOS. 41-80)**

Progress Energy Florida, Inc. (“PEF”), responds to STAFF’s Seventh Set of Interrogatories to PEF (Nos. 41-80), as follows:

**INTERROGATORIES**

41. Please refer to page 1 of Exhibit JAM-8 attached to the direct testimony of witness John A. Masiello. Please explain or describe whether Exhibit JAM-8 provides the difference, in percent, for seasonal demand and annual energy savings, of the Base Case RIM Economic Potential and of the No Carbon Case RIM Economic Potential.
- a. Please explain or describe whether the company would consider it reasonable to use these percentages to estimate the effect of a no carbon scenario on the Achievable Potential's seasonal demand and annual energy savings.

**RESPONSE:** JAM-8 provides the difference, in percent, for all scenarios of economic potential relative to technical potential for seasonal demand and annual energy savings. The No Carbon Case RIM Economic Potential can be expressed as a percentage of the Base Case RIM Economic Potential by dividing the absolute numbers in the table:

66. Please generate a list of measures which were included in the achievable potential for the E-TRC portfolio, but were excluded from the E-RIM portfolio. Please provide the E-RIM and E-TRC Values for cost-effectiveness, and the associated seasonal demand and annual energy savings.

**RESPONSE:** For a list of measures which were included in the achievable potential for the E-TRC portfolio, but were excluded from the E-RIM portfolio, please refer to Attachment H.

Residential Measure List: TRC Achievable Results NOT in the RIM portfolio \*

Measure Type	Customer Type	Measure Information		Cost Effectiveness		Average Annual Savings *		
		Measure #	Measure Name	E-TRC Test Value	E-RIM Test Value	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWH)
EE	Res - Multi Attached	146	Window Tinting	3.53	1.08	0.01044	0.00000	0.02243
EE	Res - Mobile Home	146	Window Tinting	3.16	1.10	0.01222	0.00000	0.02323
EE	Res - Single Detached	148	Single Pane Clear Windows to Double Pane Low-E Windows	0.87	0.58	0.35027	0.36409	0.88212
EE	Res - Multi Attached	148	Single Pane Clear Windows to Double Pane Low-E Windows	2.14	0.91	0.04402	0.03869	0.10513
EE	Res - Mobile Home	148	Single Pane Clear Windows to Double Pane Low-E Windows	1.13	0.70	0.03485	0.03755	0.07362
EE	Res - Single Detached	150	Ceiling R-0 to R-19 Insulation	0.98	0.77	0.00110	0.00862	0.00324
EE	Res - Multi Attached	150	Ceiling R-0 to R-19 Insulation	0.90	0.71	0.00019	0.00119	0.00052
EE	Res - Mobile Home	150	Ceiling R-0 to R-19 Insulation	1.16	0.89	0.00051	0.00366	0.00126
EE	Res - Multi Attached	151	Ceiling R-19 to R-38 Insulation	0.02	0.02	0.00000	0.00000	0.00000
EE	Res - Multi Attached	152	Wall 2x4 R-0 to Blow-In R-13 Insulation	0.04	0.04	0.00000	0.00000	0.00000
EE	Res - Single Detached	153	Weather Strip/Caulk w/Blower Door	0.41	0.30	0.00543	0.00469	0.17901
EE	Res - Multi Attached	153	Weather Strip/Caulk w/Blower Door	0.21	0.20	0.00011	0.00009	0.00336
EE	Res - Single Detached	191	HE Room Air Conditioner - EER 11	2.22	0.97	0.01097	0.00000	0.02209
EE	Res - Multi Attached	191	HE Room Air Conditioner - EER 11	1.70	0.88	0.01002	0.00000	0.01914
EE	Res - Single Detached	192	HE Room Air Conditioner - EER 12	0.50	0.41	0.03176	0.00000	0.06398
EE	Res - Multi Attached	192	HE Room Air Conditioner - EER 12	0.38	0.34	0.02195	0.00000	0.04192
EE	Res - Mobile Home	192	HE Room Air Conditioner - EER 12	0.43	0.37	0.00762	0.00000	0.01287
EE	Res - Single Detached	196	Reflective Roof	1.21	0.69	0.00032	0.00000	0.00085
EE	Res - Multi Attached	196	Reflective Roof	2.10	0.89	0.00162	0.00000	0.00407
EE	Res - Mobile Home	196	Reflective Roof	2.34	0.96	0.00058	0.00000	0.00129
EE	Res - Single Detached	197	Window Film	0.17	0.17	0.00007	(0.00004)	0.00027
EE	Res - Mobile Home	197	Window Film	0.55	0.41	0.00116	(0.00050)	0.00359
EE	Res - Single Detached	198	Window Tinting	0.55	0.43	0.00002	0.00000	0.00005
EE	Res - Multi Attached	198	Window Tinting	2.52	0.97	0.00127	0.00000	0.00273
EE	Res - Single Detached	200	Single Pane Clear Windows to Double Pane Low-E Windows	0.46	0.38	0.01436	0.01419	0.03617
EE	Res - Multi Attached	200	Single Pane Clear Windows to Double Pane Low-E Windows	1.60	0.80	0.02021	0.01735	0.04828
EE	Res - Mobile Home	200	Single Pane Clear Windows to Double Pane Low-E Windows	0.66	0.50	0.00434	0.00480	0.00917
EE	Res - Single Detached	202	Ceiling R-0 to R-19 Insulation	0.73	0.51	0.00008	0.00012	0.00024
EE	Res - Multi Attached	202	Ceiling R-0 to R-19 Insulation	0.54	0.42	0.00003	0.00004	0.00008
EE	Res - Mobile Home	202	Ceiling R-0 to R-19 Insulation	0.76	0.53	0.00006	0.00009	0.00016
EE	Res - Multi Attached	203	Ceiling R-19 to R-38 Insulation	0.02	0.03	0.00000	0.00000	0.00000
EE	Res - Multi Attached	204	Wall 2x4 R-0 to Blow-In R-13 Insulation	0.03	0.03	0.00000	0.00000	0.00000
EE	Res - Single Detached	205	Weather Strip/Caulk w/Blower Door	0.21	0.18	0.00016	0.00013	0.00519
EE	Res - Multi Attached	205	Weather Strip/Caulk w/Blower Door	0.18	0.16	0.00007	0.00006	0.00207
EE	Res - Multi Attached	221	CFL (18-Watt integral ballast), 0.5 hr/day	2.77	0.69	0.02167	0.03090	0.41423
EE	Res - Mobile Home	231	CFL (18-Watt integral ballast), 2.5 hrs/day	5.81	0.65	0.04385	0.06266	0.84000
EE	Res - Single Detached	252	RET 2L4T8, 1EB	3.04	0.71	0.04667	0.04860	0.89199
EE	Res - Single Detached	252	RET 2L4T8, 1EB	3.04	0.71	0.00893	0.01743	0.17063
EE	Res - Single Detached	351	HE Freezer	0.91	0.49	0.00480	0.00446	0.03613
EE	Res - Single Detached	404	AC Heat Recovery Units	0.54	0.42	0.00092	0.00000	0.00273
EE	Res - Mobile Home	404	AC Heat Recovery Units	0.41	0.34	0.00008	0.00000	0.00022
EE	Res - Single Detached	405	Low Flow Showerhead	4.83	0.88	0.12085	0.39194	1.58771
EE	Res - Multi Attached	405	Low Flow Showerhead	3.16	0.82	0.03137	0.09068	0.34848
EE	Res - Mobile Home	405	Low Flow Showerhead	3.59	0.82	0.01486	0.04282	0.19177
EE	Res - Single Detached	406	Pipe Wrap	0.72	0.44	0.00383	0.01328	0.05030
EE	Res - Multi Attached	406	Pipe Wrap	0.47	0.34	0.00048	0.00151	0.00536
EE	Res - Mobile Home	406	Pipe Wrap	0.54	0.37	0.00033	0.00101	0.00424
EE	Res - Multi Attached	407	Faucet Aerators	3.23	0.82	0.02228	0.06297	0.24750
EE	Res - Mobile Home	407	Faucet Aerators	3.61	0.82	0.01078	0.03048	0.13913
EE	Res - Multi Attached	408	Water Heater Blanket	6.64	0.87	0.05942	0.15279	0.66006
EE	Res - Single Detached	409	Water Heater Temperature Check and Adjustment	1.27	0.60	0.00444	0.01494	0.05838
EE	Res - Multi Attached	409	Water Heater Temperature Check and Adjustment	0.84	0.49	0.00057	0.00173	0.00635
EE	Res - Multi Attached	410	Water Heater Timeclock	0.97	0.85	0.00099	0.00301	0.01098
EE	Res - Single Detached	411	Heat Trap	7.79	0.91	0.17116	0.51780	2.24858
EE	Res - Multi Attached	411	Heat Trap	5.79	0.88	0.07033	0.18902	0.78119
EE	Res - Multi Attached	502	Energy Star CW CEE Tier 2 (MEF=2.0)	1.17	0.56	0.23331	0.23277	1.66054
EE	Res - Single Detached	503	Energy Star CW CEE Tier 3 (MEF=2.2)	0.43	0.32	0.15730	0.58370	1.11958
EE	Res - Multi Attached	503	Energy Star CW CEE Tier 3 (MEF=2.2)	0.43	0.32	0.04417	0.16391	0.31440
EE	Res - Mobile Home	503	Energy Star CW CEE Tier 3 (MEF=2.2)	0.54	0.38	0.02888	0.10717	0.20557
EE	Res - Single Detached	610	High Efficiency CD (EF=3.01 w/moisture sensor)	0.98	0.54	0.42842	0.19986	2.65410
EE	Res - Multi Attached	610	High Efficiency CD (EF=3.01 w/moisture sensor)	0.70	0.45	0.07778	0.03628	0.48185
EE	Res - Single Detached	701	Energy Star DW (EF=0.68)	0.60	0.39	0.34137	0.24719	3.48107
EE	Res - Multi Attached	701	Energy Star DW (EF=0.68)	0.50	0.35	0.09402	0.06808	0.95872
EE	Res - Mobile Home	701	Energy Star DW (EF=0.68)	0.50	0.35	0.02940	0.02129	0.29979
EE	Res - Single Detached	801	Two Speed Pool Pump (1.5 hp)	2.90	0.84	0.42533	0.16819	1.99217
EE	Res - Multi Attached	801	Two Speed Pool Pump (1.5 hp)	2.90	0.84	0.09157	0.00662	0.00733
EE	Res - Multi Attached	802	High Efficiency One Speed Pool Pump (1.5 hp)	5.67	0.86	0.03363	0.00071	0.01701
EE	Res - Mobile Home	802	High Efficiency One Speed Pool Pump (1.5 hp)	5.67	0.86	0.01380	0.00268	0.00465
EE	Res - Multi Attached	803	Variable-Speed Pool Pump (<1 hp)	1.17	0.95	0.00579	0.00316	0.02712
EE	Res - Mobile Home	803	Variable-Speed Pool Pump (<1 hp)	1.17	0.61	0.02201	0.01202	0.10308
EE	Res - Single Detached	804	PV-Powered Pool Pumps	0.25	0.22	0.30202	0.22709	1.41458

Staff 7th Set of ROGS to PEF  
 (Nos. 41-80)  
 Attachment H  
 2 of 12

# Attachment B - PEF Technical Potential Study

## B.1 Measure Inputs - Residential

### MEASURE COSTS

Segment	Measure #	Measure Description	Unit	Equipment Cost	Labor Cost	NPV of Lifetime O & M Cost	Implementation Cost Factor	Cost Units per Savings	Full = 1		Replace Cost	Full			Relative Energy Reduction Factors			End Use	Implementation Type	1=1-ROB	2=ROB
									Initial Cost	Inst Cost		Cost	SP	WP	OP	rh	rh				
1	176	Window Tinting	square foot	\$1.19			\$1.19	1	40	1	\$1.19	1.08	0.00	1.00	1.00	1.00	1.00	1	2		
1	177	Default Window With Sunscreen	square foot	\$0.63	\$0.84		\$1.27	1	10	1	\$1.27	1.25	0.00	1.00	1.00	1.00	1.00	1	1		
1	178	Single Pane Clear Windows to Double Pane Low-E Windows	square foot	\$4.28			\$4.28	1	40	1	\$4.28	0.81	0.00	1.00	1.00	1.00	1.00	1	2		
1	180	Ceiling R-0 to R-18 Insulation	square foot	\$0.52			\$0.52	1	20	1	\$0.52	0.86	0.00	1.00	1.00	1.00	1.00	1	1		
1	181	Ceiling R-18 to R-38 Insulation	square foot	\$0.52			\$0.52	1	20	1	\$0.52	0.86	0.00	1.00	1.00	1.00	1.00	1	1		
1	182	Wall 2x4 R-0 to Blow-In R-13 Insulation	square foot	\$0.15	\$1.17		\$1.32	1	20	1	\$1.32	0.86	0.00	1.00	1.00	1.00	1.00	1	1		
1	183	Weather Strip/Caulk w/Blower Door	home	\$89.89			\$89.89	1	5	1	\$89.89	0.07	0.00	1.00	1.00	1.00	1.00	1	1		
1	180	Base 9 EER Room Air Conditioner & Btsp Heater	unit	\$400.00			\$400.00	1	15	1	\$400.00	1.00	1.00	1.00	1.00	1.00	1.00	1	2		
1	181	HE Room Air Conditioner - EER 11	unit	\$508.00			\$508.00	1	15	0	\$508.00	1.21	0.00	1.00	1.00	1.00	1.00	1	2		
1	182	HE Room Air Conditioner - EER 12	unit	\$674.98			\$674.98	1	15	0	\$674.98	1.21	0.00	1.00	1.00	1.00	1.00	1	2		
1	186	Reflective Roof	square foot	\$0.27			\$0.27	1	15	1	\$0.27	0.82	0.00	1.00	1.00	1.00	1.00	1	2		
1	197	Window Film	square foot	\$1.75			\$1.75	1	10	1	\$1.75	0.86	-0.19	1.00	1.00	1.00	1.00	1	1		
1	198	Window Tinting	square foot	\$1.19			\$1.19	1	40	1	\$1.19	1.08	0.00	1.00	1.00	1.00	1.00	1	2		
1	199	Default Window With Sunscreen	square foot	\$0.63	\$0.84		\$1.27	1	10	1	\$1.27	1.25	0.00	1.00	1.00	1.00	1.00	1	1		
1	200	Single Pane Clear Windows to Double Pane Low-E Windows	square foot	\$4.28			\$4.28	1	40	1	\$4.28	0.81	0.00	1.00	1.00	1.00	1.00	1	2		
1	202	Ceiling R-0 to R-18 Insulation	square foot	\$0.52			\$0.52	1	20	1	\$0.52	0.78	0.75	1.00	1.00	1.00	1.00	1	1		
1	203	Ceiling R-18 to R-38 Insulation	square foot	\$0.52			\$0.52	1	20	1	\$0.52	0.78	0.75	1.00	1.00	1.00	1.00	1	1		
1	204	Wall 2x4 R-0 to Blow-In R-13 Insulation	square foot	\$0.15	\$1.17		\$1.32	1	20	1	\$1.32	0.78	0.75	1.00	1.00	1.00	1.00	1	1		
1	205	Weather Strip/Caulk w/Blower Door	home	\$89.89			\$89.89	1	5	1	\$89.89	0.07	0.04	1.00	1.00	1.00	1.00	1	1		
1	220	Base Lighting (60-Watt incandescent), 0.5 hr/day	lamp	\$0.80			\$0.80	1	1,000	1	\$0.80	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	221	CFL (18-Watt integral ballast), 0.8 hr/day	lamp	\$2.44			\$2.44	1	5,000	1	\$2.44	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	230	Base Lighting (60-Watt incandescent), 2.5 hr/day	lamp	\$0.80			\$0.80	1	1,000	1	\$0.80	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	231	CFL (18-Watt integral ballast), 2.5 hr/day	lamp	\$2.44			\$2.44	1	5,000	1	\$2.44	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	240	Base Lighting (60-Watt incandescent), 8.0 hr/day	lamp	\$0.80			\$0.80	1	1,000	1	\$0.80	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	241	CFL (18-Watt integral ballast), 8.0 hr/day	lamp	\$2.44			\$2.44	1	5,000	1	\$2.44	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	250	Base Fluorescent Fixture, 2L4T12 40W 1EEMAG	fixture	\$12.00			\$12.00	1	45,000	1	\$12.00	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	251	ROB 2L4T8 1EB	fixture	\$20.00			\$20.00	1	70,000	0	\$20.00	1.00	1.00	1.00	1.00	1.00	1.00	2	2		
1	252	RET 2L4T8 1EB	fixture	\$20.00			\$20.00	1	70,000	1	\$20.00	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	260	Base Outdoor Lighting	fixture	\$12.00			\$12.00	1	1,000	1	\$12.00	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	261	CFL - medium screw based <30 Watts	fixture	\$20.00			\$20.00	1	5,000	0	\$20.00	1.00	1.00	1.00	1.00	1.00	1.00	2	2		
1	262	Photocell/timer/switch	fixture	\$20.00			\$20.00	1	70,000	1	\$20.00	1.00	1.00	1.00	1.00	1.00	1.00	2	1		
1	300	Base Refrigerator (18 of wtop-mount freezer, no through-door ice)	unit	\$822.80	\$0.00		\$822.80	1	14	1	\$822.80	1.00	1.00	1.00	1.00	1.00	1.00	3	2		
1	301	HE Refrigerator - Energy Star version of above	unit	\$821.80	\$0.00		\$821.80	1	14	0	\$821.80	1.00	1.00	1.00	1.00	1.00	1.00	3	2		
1	350	Base Freezer	unit	\$421.80	\$0.00		\$421.80	1	11	1	\$421.80	1.00	1.00	1.00	1.00	1.00	1.00	3	2		
1	361	HE Freezer	unit	\$471.60	\$0.00		\$471.60	1	11	0	\$471.60	1.00	1.00	1.00	1.00	1.00	1.00	3	2		
1	400	Base 40 gal. Water Heating (EF=0.92)	unit	\$251.11			\$251.11	1	13	1	\$251.11	1.00	1.00	1.00	1.00	1.00	1.00	4	2		
1	401	Heat Pump Water Heater (EF=2.9)	unit	\$1,681.98	\$122.83		\$1,681.98	1	10	0	\$1,681.98	1.00	1.00	1.00	1.00	1.00	1.00	4	2		
1	402	HE Water Heater (EF=0.93)	unit	\$323.41			\$323.41	1	13	0	\$323.41	1.00	1.00	1.00	1.00	1.00	1.00	4	2		
1	403	Solar Water Heat	unit	\$3,850.00			\$3,850.00	1	15	0	\$3,850.00	1.43	0.00	1.00	1.00	1.00	1.00	4	2		
1	404	AC Heat Recovery Units	unit	\$475.00			\$475.00	1	10	1	\$475.00	4.42	0.00	1.00	1.00	1.00	1.00	4	2		
1	405	Low Flow Showerhead	unit	\$14.32	\$15.00		\$29.32	1	10	1	\$29.32	1.00	1.00	1.00	1.00	1.00	1.00	4	1		
1	406	Pipe Wrap	linear foot	\$0.37	\$2.44		\$2.81	1	13	1	\$2.81	1.00	1.00	1.00	1.00	1.00	1.00	4	1		
1	407	Faucet Aerators	unit	\$3.74	\$5.58		\$9.32	1	10	1	\$9.32	1.00	1.00	1.00	1.00	1.00	1.00	4	1		
1	408	Water Heater Blanket	unit	\$14.00			\$14.00	1	7	1	\$14.00	1.00	1.00	1.00	1.00	1.00	1.00	4	1		
1	409	Water Heater Temperature Check and Adjustment	unit	\$0.00	\$5.00		\$5.00	1	5	1	\$5.00	1.00	1.00	1.00	1.00	1.00	1.00	4	1		
1	410	Water Heater Timer/lock	unit	\$80.00			\$80.00	1	10	1	\$80.00	1.00	1.00	1.00	1.00	1.00	1.00	4	1		
1	411	Heat Trap	unit	\$20.00	\$2.00		\$22.00	1	10	1	\$22.00	1.00	1.00	1.00	1.00	1.00	1.00	4	1		
1	500	Base Clotheswasher (MEF=1.6)	unit	\$588.38	\$0.00		\$588.38	1	11	1	\$588.38	1.00	1.00	1.00	1.00	1.00	1.00	5	2		
1	501	Energy Star CW CEE Tier 1 (MEF=1.8)	unit	\$773.64	\$0.00		\$773.64	1	11	0	\$773.64	1.00	1.00	1.00	1.00	1.00	1.00	5	2		
1	502	Energy Star CW CEE Tier 2 (MEF=2.0)	unit	\$902.06	\$0.00		\$902.06	1	11	0	\$902.06	1.00	1.00	1.00	1.00	1.00	1.00	5	2		
1	503	Energy Star CW CEE Tier 3 (MEF=2.2)	unit	\$1,030.49	\$0.00		\$1,030.49	1	11	0	\$1,030.49	1.00	1.00	1.00	1.00	1.00	1.00	5	2		
1	600	Base Clothes Dryer (EF=3.01)	unit	\$319.02	\$0.00		\$319.02	1	18	1	\$319.02	1.00	1.00	1.00	1.00	1.00	1.00	8	2		
1	610	High Efficiency CD (EF=3.01 w/moisture sensor)	unit	\$557.25	\$0.00		\$557.25	1	18	0	\$557.25	1.00	1.00	1.00	1.00	1.00	1.00	8	2		
1	700	Base Dishwasher (EF=0.46)	unit	\$292.85	\$0.00		\$292.85	1	13	1	\$292.85	1.00	1.00	1.00	1.00	1.00	1.00	7	2		
1	701	Energy Star DW (EF=0.88)	unit	\$690.08	\$0.00		\$690.08	1	13	0	\$690.08	1.00	1.00	1.00	1.00	1.00	1.00	7	2		
1	800	Base Pool Pump and Motor (1.5 hp)	unit	\$345.03	\$0.00		\$345.03	1	10	1	\$345.03	1.00	1.00	1.00	1.00	1.00	1.00	8	2		
1	801	Two Speed Pool Pump (1.5 hp)	unit	\$527.21	\$0.00		\$527.21	1	5	0	\$527.21	1.00	1.00	1.00	1.00	1.00	1.00	8	2		
1	802	High Efficiency One Speed Pool Pump (1.8 hp)	unit	\$385.94	\$0.00		\$385.94	1	5	0	\$385.94	1.00	1.00	1.00	1.00	1.00	1.00	8	2		
1	803	Variable-Speed Pool Pump (<1 hp)	unit	\$1,300.00	\$0.00		\$1,300.00	1	10	0	\$1,300.00	1.00	1.00	1.00	1.00	1.00	1.00	8	2		
1	804	PV-Powered Pool Pumps	unit	\$5,000.00	\$0.00		\$5,000.00	1	10	0	\$5,000.00	1.00	1.00	1.00	1.00	1.00	1.00	8	2		
1	900	Base CRT TV	unit	\$0.00			\$0.00	1	7	1	\$0.00	1.00	1.00	1.00	1.00	1.00	1.00	9	2		
1	901	Energy Star TV	unit	\$0.00	\$0.00		\$0.00	1	7	0	\$0.00	1.00	1.00	1.00	1.00	1.00	1.00	9	2		
1	910	Base Large-screen TV	unit	\$0.00			\$0.00	1	7	1	\$0.00	1.00	1.00	1.00	1.00	1.00	1.00	9	2		
1	911	Energy Star TV	unit	\$0.00	\$0.00		\$0.00	1	7	0	\$0.00	1.00	1.00	1.00	1.00	1.00	1.00	9	2		
1	920	Base Set-Top Box	unit	\$0.00			\$0.00	1	7	1	\$0.00	1.00	1.00	1.00	1.00	1.00	1.00	9	2		
1	921	Energy Star Set-Top Box	unit	\$0.00	\$0.00		\$0.00	1	7	0	\$0.00	1.00	1.00	1.00	1.00	1.00	1.00	9	2		
1	930	Base DVD Player	unit	\$0.00			\$0.00	1	7	1	\$0.00	1.00	1.00	1.00	1.00	1.00	1.00	9	2		



**Attachment C - PEF's Late Filed Exhibit 2**

<b>Customer</b>	<b>Measure #</b>	<b>Measure Name</b>			
Residential	231	CFL (18-Watt integral ballast)	681.43	35.65	50.84
Commercial	131	CFL Screw-in 18W	402.3	77.9	43.3
Commercial	111	Premium T8, Electronic Ballast	243.42	46.93	28.04
Residential	802	High Efficiency One Speed Pool Pump (1.5 hp)	211.83	45.23	8.79
Residential	801	Two Speed Pool Pump (1.5 hp)	210.32	44.90	8.73
Residential	114	Proper Refrigerant Charging and Air Flow	202.50	77.09	-
Residential	141	Electronically Commutated Motors (ECM) on an Air H	181.81	58.50	109.94
Residential	121	Default Window With Sunscreen	161.27	120.83	(17.77)
Residential	408	Water Heater Blanket	132.70	10.51	29.33
Residential	112	AC Maintenance (Outdoor Coil Cleaning)	122.03	47.12	-