

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

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In re: Commission Review of Numeric  
Conservation Goals (Duke Energy  
Florida, LLC).

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Docket No. 20190018-EG

Filed: July 23, 2019

**DUKE ENERGY FLORIDA, LLC'S RESPONSE TO  
STAFF'S TENTH SET OF INTERROGATORIES (NOS. 110-118)**

Duke Energy Florida, LLC ("DEF") responds to the Staff of the Florida Public Service Commission's ("Staff") Tenth Set of Interrogatories to DEF (Nos. 110-118) as follows:

**INTERROGATORIES**

110. Please provide the MW and MWh impact of new Codes and Standards on the Technical Potential.

**Answer:**

The Market Potential Study analyzed savings for energy efficiency measures that exceed current and known future Codes and Standards; therefore, the MW and MWh impact of new Codes and Standards was not calculated in this study.

Codes and Standards were accounted for through the elimination of measures considered in the last goal setting for DEF, as listed in the response to Staff Interrogatory No. 4, as well as through adjustments to baseline efficiency assumptions in measures included in the study, such as minimum HVAC and water heating equipment efficiency and the Energy Independence and Security Act (EISA) standards for general service lighting. The adjustments to baseline efficiency were applied at the individual measure level prior to estimating the technical potential for the service territory, therefore the overall MW and MWh impact of new Codes and Standards was not calculated.

111. Please refer to witness Cross' Exhibit No. LC-5. Please provide the monthly bill impact from DSM program expenditures for a 1200 kWh per month residential customer for each year of the period 2015-2019. As part of your response, please complete the table below and provide an electronic version of the table in Excel format.

Historic DSM Residential Bill Impacts	
Year	Monthly DSM Cost
	(\$/1200 kWh-mo)

**Answer:**

Historic DSM Residential Bills	
Year	Monthly DSM Cost \$/1200 kwh-mo
2015	3.05
2016	3.90
2017	3.80
2018	3.94
2019	3.56

112. Please refer to witness Cross' Exhibit No. LC-7. For a residential customer using 1000kWh per month, please provide the projected monthly bill impact of both the RIM and TRC portfolios and the difference in the bill impact between the portfolios for each year from 2020 through 2029. As part of your response, please complete the table below and provide an electronic version of the table in Excel format.

Projected DSM Residential Bill Impacts			
Year	Monthly DSM Cost		
	(\$/1000 kWh-mo)		
	RIM Portfolio	TRC Portfolio	Difference

**Answer:**

Projected DSM Residential Bill Impacts			
Year	Monthly DSM Cost		
	(\$/1000 kWh-mo)		
	RIM Portfolio	TRC Portfolio	Difference
2020	3.02	3.36	0.34
2021	2.95	3.25	0.31
2022	2.51	2.81	0.30
2023	2.51	2.79	0.29

2024	2.50	2.77	0.27
2025	2.48	2.71	0.23
2026	2.49	2.69	0.20
2027	2.61	2.79	0.18
2028	2.48	2.63	0.15
2029	2.48	2.60	0.12

113. Please refer to witness Cross’ Direct testimony, page 5, line 22 through page 6, line 1. For both passing and failing measures in the Achievable Potential screening, please provide the estimated benefits and costs in net present value 2019\$ for each cost-effectiveness pathway, including avoided generation, avoided transmission and distribution, avoided operations and maintenance, avoided fuel, administrative costs, incentive costs, lost revenues, utility equipment cost, and customer equipment costs. As part of your response, please complete the table below and provide an electronic version of the table in Excel format.

Achievable Potential Measures Savings & Costs										
[Passing Measures or Failing Measures] – [TRC or RIM] – NPV										
Customer Class	Measure Name	Avoided Generation	Avoided T&D	Avoided O&M	Avoided Fuel	Admin Costs	Incentives	Lost Revenues	Utility Equipment	Customer Equipment

**Answer:**

These tables, with measures included in the Achievable Potential (AP) screening, bear bates label 20190018-DEF-041503 - 20190018-DEF-041540. Because each unique measure was split into measure permutations by segment and vintage for the analysis, and some segments and vintages had varying savings or costs, the measure results provided are for the individual permutations of each measure.

Please note that because there was no AP for the failing measures, there are no economic impacts for these measures.

114. Please refer to DEF’s response to Interrogatory No. 22 and the document bearing bates number 20190018-DEF-0039416.

- a. Please clarify if the values in the tables are in nominal dollars or NPV 2019 dollars.
- b. Please provide all values in NPV 2019 dollars.

**Answer:**

- a. As stated in the response to Interrogatory No. 22, the costs provided in nominal dollars “only include customer equipment costs for Economic Potential. All other costs provided are in net present value dollars”.

Therefore, the only values that in the table that were in nominal dollars are the first two values in the bottom row of the table under the Economic Potential columns for RIM and TRC. All other cost data provided is in NPV dollars.

- b. The two costs that were provided in nominal dollars, as described above, are costs that occur in the first year of the study. Therefore, the NPV value for these costs is the same as the nominal cost. So, the entire cost table provided in response to Interrogatory No. 22 and provided again below, can be considered to be in net present value dollars.

Combined Measures Savings & Costs				
Category (\$ NPV)	Economic Potential		Achievable Potential	
	RIM	TRC	RIM	TRC
Avoided Generation	5,884,954,905	5,931,454,335	245,999,284	248,763,284
Avoided T&D	1,716,868,837	1,868,968,717	130,995,280	138,204,375
Avoided O&M	N/A	N/A	N/A	N/A
Avoided Fuel	741,627,680	1,045,677,477	44,828,364	52,728,064
Administrative Costs	N/A	N/A	19,487,090	19,726,571
Incentive Costs	N/A	N/A	112,660,148	146,110,121
Lost Revenues	2,793,679,308	3,922,655,033	170,154,242	198,385,480
Utility Equipment	N/A	N/A	31,664,454	31,664,454
Customer Equipment	1,638,969,833	1,599,361,112	98,232,021	103,625,532

- 115. Please refer to witness Herndon’s Exhibit No. JH-4, page 49 of 118, Table 5-2 and the document bearing bates number 20190018-DEF-0039359. Please clarify what the 2019 winter peak demand value is for the technical potential of all commercial and industrial demand response measures.

**Answer:**

Subsequent to completing the Market Potential Study (MPS) analysis and filing the MPS report with the Florida PSC, Nexant discovered an error in the reported demand response (DR) technical potential (TP) listed in Table 1-4 and 5-2 as well as Figure 5-12 of the DEF MPS report. Because DEF’s economic potential (EP) was the same as TP, this error also impacted Tables 1-5 and 6-7, and Figure 6-17. The error was a result of accidentally

omitting the DR TP (and EP) for one customer segment’s results in the roll-up table of overall sector and portfolio TP and EP.

The Non-Residential DR Winter Peak TP and EP in Tables 1-4, 1-5, 5-2, and 6-7 was reported as 1,446 MW and the correct value is 1,788 MW. Based on this correction, the total DR Winter Peak TP in these tables (Residential and Non-Residential combined), which was reported as 4,073 MW should be corrected to 4,415 MW.

116. Please provide the Economic Potential cumulative demand and energy savings for the base case and all sensitivities performed for all measures combined by cost-effectiveness pathway. As part of your response, please complete the table below and provide an electronic version of the table in Excel format.

Economic Potential Totals by Sensitivity							
Test	Goal	Base	Fuel		Payback		CO2
			High	Low	3 Years	1 Year	
RIM	Summer Demand (MW)						
	Winter Demand (MW)						
	Energy (GWh)						
TRC	Summer Demand (MW)						
	Winter Demand (MW)						
	Energy (GWh)						

**Answer:**

The Economic Potential sensitivity results are provided in the table below and also provided in the “Staff ROG116” tab in the attached Microsoft Excel workbook.

Economic Potential Totals by Sensitivity							
Test	Goal	Base	Fuel		Payback		CO2
			High	Low	3 Years	1 Year	
RIM	Summer Demand (MW)	1,035	1,073	1,035	906	1,064	1,043
	Winter Demand (MW)	565	573	564	512	613	565
	Energy (GWh)	1,898	1,970	1,896	1,689	2,007	1,920
TRC	Summer Demand (MW)	1,192	1,276	1,191	952	1,334	1,191
	Winter Demand (MW)	644	775	643	502	696	644
	Energy (GWh)	3,117	3,791	3,111	1,970	3,915	3,168

117. Please refer to DEF’s response to Interrogatory No. 18. Provide the following information, by cost-effectiveness test, for each of the unique measure permutations considered in the Economic Potential screening that failed due to the two-year payback screen: customer class of the measure, the measure’s name, the cost-effectiveness test results, and the estimated seasonal peak demand and annual energy savings. If Economic

Potential demand and energy savings are not available for these measures, please explain why not and how measures were assigned cost-savings without associated demand or energy savings. As part of this response, please complete the tables below.

Measure Permutations Failing 2-Year Payback							
Economic Potential – [TRC or RIM]							
Customer Class	Measure Name	TRC	RIM	PCT	Summer (MW)	Winter (MW)	Energy (GWh)

**Answer:**

These tables are provided in the “Staff ROG117” tab in the attached Microsoft Excel workbook. Because each unique measure was split into measure permutations by segment and vintage for the analysis, and some segments and vintages had varying savings or costs, the measure results provided are for the individual permutations of each measure.

Economic Potential (EP) demand and energy savings are not available for these measures because the measures were eliminated due to failing the 2-year payback screen prior to conducting the EP analysis in Nexant’s TEA-POT model. The EP savings are outputs of the model, therefore if a measure is eliminated prior to modeling, there would be no resulting EP. The economic impacts for these measures, which are used for determining TRC, RIM, PCT, and simple payback for the economic screening, are developed based on the per-unit energy and demand savings for each measure permutation, as provided in response to SACE’s first request for Production of Documents No. 16.

118. Please refer to DEF’s amended response to Interrogatory No. 21.
- a. Does DEF plan to continue to offer measures that have failed either the TRC or RIM tests, or both, at the Achievable Potential level (current program cost-ineffective measures) in future DSM program offerings?
  - b. If the answer to Question 118(a) is yes, please complete the table below with the Achievable Potential estimated benefits and costs (in net present value 2019\$) associated with each current program cost-ineffective measure by cost-effectiveness pathway.

Current Program Cost-Ineffective Measures Savings & Costs										
Achievable Potential – [TRC or RIM] – NPV 2019\$										
Customer Class	Measure Name	Avoided Generation	Avoided T&D	Avoided O&M	Avoided Fuel	Admin Costs	Incentives	Lost Revenues	Utility Equipment	Customer Equipment

**Answer:**

- a. DEF will most likely continue to offer measures that are not cost-effective based on the RIM evaluation and measures that have less than a two-year payback as part of its low-income programs. However, as with the currently offered measures that are not cost-effective under the RIM test, DEF intends to combine such measures into bundles at the program level that are cost-effective under RIM.
- b. DEF cannot complete the requested table as DEF has not determined exactly which measures will be included in its low-income programs or developed measure or program participation estimates. That work will be completed when DEF develops program plans after goals are approved.

**DECLARATION**

I sponsored the answers to Interrogatory Nos. 110 and 113-117 from the Florida Public Service Commission Staff's Tenth Set of Interrogatories to Duke Energy Florida, LLC in Docket No. 20190018-EG, and the responses are true and correct based on my personal knowledge.

Under penalties of perjury, I declare that I have read the foregoing declaration and the interrogatory answers identified above, and that the facts stated therein are true.



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Jim Herndon, Vice President, Strategic &  
Planning Consulting, Nexant

Date: 7/21/19



**AFFIDAVIT**

STATE OF FLORIDA

COUNTY OF PINELLAS

I hereby certify that on this 23<sup>rd</sup> day of July, 2019, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments, personally appeared LORI CROSS, who is personally known to me, and she acknowledged before me that she provided the answers to interrogatory numbers 111, 112 and 118, from STAFF'S TENTH SET OF INTERROGATORIES TO DUKE ENERGY FLORIDA, LLC (NOS. 110-118) in Docket No. 20190018-EG, and that the responses are true and correct based on her personal knowledge.

In Witness Whereof, I have hereunto set my hand and seal in the State and County aforesaid as of this 23<sup>rd</sup> day of July, 2019.

*Lori Q. Cross*

Lori Cross



CHRISTINA WOLF  
Commission # GG 146409  
Expires September 27, 2021  
Bonded Thru Budget Notary Services

*Christina Wolf*

Notary Public  
State of Florida, at Large

My Commission Expires:

9/27/21

Actionable Project of Measures to Regulate - (FISC or BIME) - NPV														
Current Use	Measure Name	Project	TV Type	A. Value (USD)	B. Value (USD)	C. Value (USD)	D. Value (USD)	E. Value (USD)	F. Value (USD)	G. Value (USD)	H. Value (USD)	I. Value (USD)	J. Value (USD)	Current (USD)
Residential	1 SEER ASHP from base elec. no. 2 or more	Single Family	Turnover	530 838	1 170 828	N/A	3 399 321	64 603	2 366 40	13 731 131	N/A	0	0	0
Residential	1 SEER ASHP from base elec. no. 2 or more	Multi-Family	Turnover	366 615	651 38	N/A	25 811	37 115	372 5 9	1 049 210	N/A	0	0	0
Residential	1 SEER ASHP from base elec. no. 2 or more	Manufactured Home	Turnover	191 197	312 718	N/A	122 222	17 802	82 76	325 328	N/A	0	0	0
Residential	1 SEER ASHP from base elec. no. 2 or more	Single Family	New	1 185 2	1 936 727	N/A	797 531	110 3	512 971	3 259 989	N/A	0	0	0
Residential	1 SEER ASHP from base elec. no. 2 or more	Multi-Family	New	9 387	15 258	N/A	60 336	8 788	9 858	259 336	N/A	0	0	0
Residential	1 SEER ASHP from base elec. no. 2 or more	Manufactured Home	New	2 275	73 991	N/A	28 9 1	215	19 596	12 362	N/A	0	0	0
Residential	15 SEER Air Source Heat Pump	Single Family	Turnover	25 628	7 232 963	N/A	3 210 26	12 07	2 297 09	12 139 839	N/A	0	0	0
Residential	15 SEER Air Source Heat Pump	Single Family	New	10 7415	1 712 128	N/A	739 953	97 5	5 375	2 878 399	N/A	0	0	0
Residential	15 SEER Central AC	Single Family	Turnover	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	15 SEER Central AC	Single Family	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	15 SEER Central AC	Single Family	Turnover	2 096 301	3 276 198	N/A	1 807 7 8	218 676	19 297	6 532 352	N/A	0	0	0
Residential	15 SEER Central AC	Single Family	New	19 47	68 950	N/A	377 9 3	5 715	87 662	1 3 883	N/A	0	0	0
Residential	Air Sealing/Storm on Control	Single Family	Existing	2 0 2 125	802 733	N/A	1 096 177	3 1 3	487 387	7 817 15	N/A	0	0	0
Residential	Air Sealing/Storm on Control	Multi-Family	Existing	1 211 8	2 3 213	N/A	1 180 695	203 170	60 518	623 188	N/A	0	0	0
Residential	Air Sealing/Storm on Control	Manufactured Home	Existing	800 817	1 876 952	N/A	780 231	13 265	204 034	5 105 10	N/A	0	0	0
Residential	Air Sealing/Storm on Control	Single Family	New	1 079 31	2 650 832	N/A	1 288 289	150 309	1 346 7 2	361 39	N/A	0	0	0
Residential	Air Sealing/Storm on Control	Multi-Family	New	604 038	882 218	N/A	373 284	38 862	3 1 46	1 286 102	N/A	0	0	0
Residential	Air Sealing/Storm on Control	Manufactured Home	New	27 899	389 120	N/A	170 984	17 38	188 399	438 18	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Single Family	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Multi-Family	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Manufactured Home	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Single Family	Existing	303 376	517 273	N/A	239 350	2 3	221 655	864 669	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Multi-Family	Existing	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Single Family	Existing	309 963	1 8	N/A	192 077	19 596	29 056	718 620	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Multi-Family	Existing	905 919	1 336 788	N/A	618 6	631 5	2 676	2 315 491	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Manufactured Home	Existing	68 596	669 253	N/A	309 871	31 613	130 259	1 139 133	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Single Family	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Multi-Family	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Manufactured Home	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Single Family	Existing	2 300 1 0	1 391 995	N/A	2 2 1 396	385 693	771 722	8 778 130	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Multi-Family	Existing	2 367 963	5 581 182	N/A	2 321 705	369 512	7 990 771	9 980 970	N/A	0	0	0
Residential	Ceiling Insulation (R12 to R38)	Manufactured Home	Existing	1 008 019	3 768 967	N/A	1 366 681	269 590	539 1	5 13 56	N/A	0	0	0
Residential	Energy Star Windows	Single Family	Existing	769 979	6 390 501	N/A	2 978 844	301 862	2 18 111	11 079 134	N/A	0	0	0
Residential	Energy Star Windows	Multi-Family	Existing	2 029 2	3 167 672	N/A	1 66 680	1 626	1 398 78	4 872 394	N/A	0	0	0
Residential	Energy Star Windows	Manufactured Home	Existing	1 072 21	3 36 690	N/A	666 155	68 081	5 785	2 93 805	N/A	0	0	0
Residential	Home Energy Management Sys. em	Single Family	Existing	102 129	36 9	N/A	177 76	30 5	41 356	69 935	N/A	0	0	0
Residential	Home Energy Management Sys. em	Multi-Family	Existing	221 40	38 10	N/A	230 309	20 709	1 31	71 981	N/A	0	0	0
Residential	Home Energy Management Sys. em	Manufactured Home	Existing	188 265	1 290	N/A	83 72	31 36	63 123	738 258	N/A	0	0	0
Residential	Home Energy Management Sys. em	Single Family	New	2 315	56 988	N/A	23 688	676	8 156	92 761	N/A	0	0	0
Residential	Home Energy Management Sys. em	Multi-Family	New	16 513	38 707	N/A	16 099	2 769	5 12	43 003	N/A	0	0	0
Residential	Home Energy Management Sys. em	Manufactured Home	New	21 128	53 887	N/A	2 76	21 3	8 29	95 817	N/A	0	0	0
Residential	Space Foam Insulation (New R2)	Single Family	Existing	3 968 08	7 927 537	N/A	3 470 329	37 45	3 396 972	13 732 713	N/A	0	0	0
Residential	Space Foam Insulation (New R2)	Single Family	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	Wall Insulation	Single Family	Existing	90 957	658 995	N/A	303 121	31 128	282 381	1 1 563	N/A	0	0	0
Residential	Wall Insulation	Manufactured Home	Existing	117 799	158 117	N/A	73 219	7 46	47 75	273 96	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Assembly	Turnover	98 277	78 126	N/A	6 395	469	21 729	136 809	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	College and Uni. em	Turnover	3	0	N/A	2 751	26	1 262	9 257	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Onseny	Turnover	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Healthcare	Turnover	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Hospital	Turnover	1 710 6	197 128	N/A	117 366	11 277	33 536	395 660	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Hotel	Turnover	1 710 6	197 128	N/A	117 366	11 277	33 536	395 660	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Manufactured Home	Turnover	32 628	3 781	N/A	26 111	2 30	12 172	87 873	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Off use	Turnover	107 66	1 070	N/A	83 925	8 2	1 063	289 835	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Restaurants	Turnover	7 136	9 366	N/A	5 707	5 7	2 660	19 206	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	School	Turnover	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Schools K-12	Turnover	28 36	38 203	N/A	22 788	2 388	10 422	76 982	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Assembly	New	19 176	20 707	N/A	13 311	1 71	7 1 7	51 997	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	College and Uni. em	New	1 132	1 518	N/A	905	87	22	3 0 6	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Onseny	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Healthcare	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Hospital	New	8 385	6 865	N/A	38 685	3 711	11 015	130 192	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Hotel	New	11 111	1 900	N/A	8 886	852	1 24	29 905	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Manufactured Home	New	8 768	11 75	N/A	7 010	472	2 28	23 992	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Manufactured Home	New	10 755	1 12	N/A	8 595	82	907	28 026	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Off use	New	35 271	7 18	N/A	28 284	2 713	13 183	95 173	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Restaurants	New	2 330	3 131	N/A	1 879	180	876	4 32	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	School	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Schools K-12	New	9 376	12 173	N/A	7 96	719	3 96	25 236	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Assembly	Turnover	33 95	90	N/A	26 786	2 588	12 8	90 127	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	College and Uni. em	Turnover	1 969	2 439	N/A	1 57	131	73	3 297	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Healthcare	Turnover	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Hospital	Turnover	88 774	119 012	N/A	70 776	4 808	33 087	238 035	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Hotel	Turnover	1 991	20 096	N/A	11 980	1 136	5 287	6 235	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Off use	Turnover	61 376	82 28	N/A	9 075	707	22 876	185 152	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Restaurants	Turnover	3 987	5 3	N/A	3 188	306	1 86	10 728	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	School	Turnover	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Schools K-12	Turnover	16 315	23 870	N/A	12 0 3	1 251	6 980	3 895	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Assembly	New	11 018	1 770	N/A	8 809	8 5	306	28 6 6	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	College and Uni. em	New	6 8	868	N/A	538	50	2 1	1 7 3	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Healthcare	New	0	0	N/A	0	0	0	0	N/A	0	0	0
Residential	High Eff. e-ency Chiller (Water cooled, cond. at 200 tons)	Hospital	New	29 201										











Commercial	Chilled Water System - Variable Speed Dr. eq.	Warehouse	Existing	0	0	N/A	0	0	0	0	N/A	0
Commercial	Chilled Water System - Variable Speed Dr. eq.	Assembly	New	31 909	58 932	N/A	112 720	15 550	8 9	7	302 7 9	83 721
Commercial	Chilled Water System - Variable Speed Dr. eq.	College and Uni. enbr.	New	17	321	N/A	41	83	9	2	1 1	56
Commercial	Chilled Water System - Variable Speed Dr. eq.	Library	New	0	0	N/A	0	0	0	0	0	0
Commercial	Chilled Water System - Variable Speed Dr. eq.	Healthcare	New	0	0	N/A	0	0	0	0	0	0
Commercial	Chilled Water System - Variable Speed Dr. eq.	Hotels	New	13 88	29 331	N/A	36 100	7 736	5	100 50	N/A	1 67
Commercial	Chilled Water System - Variable Speed Dr. eq.	Hotel/Hotel	New	28 034	51 781	N/A	99 0	13 4	7 862	3 1 101	N/A	73 56
Commercial	Chilled Water System - Variable Speed Dr. eq.	Lodging/Hospital	New	13 1 2	20 9 6	N/A	0 06	5 520	3 08	129 369	N/A	29 757
Commercial	Chilled Water System - Variable Speed Dr. eq.	Manufactures	New	31 532	58 236	N/A	113 366	15 3 4	8 8	1	308 1 81	82 731
Commercial	Chilled Water System - Variable Speed Dr. eq.	Offices	New	53 295	98 28	N/A	188 261	25 028	1 9 3	633 973	N/A	139 832
Commercial	Chilled Water System - Variable Speed Dr. eq.	Restaurants	New	2 676	932	N/A	9 33	1 300	7 9	32 868	N/A	7 004
Commercial	Chilled Water System - Variable Speed Dr. eq.	Retail	New	0	0	N/A	0	0	0	0	0	0
Commercial	Chilled Water System - Variable Speed Dr. eq.	Schools K-12	New	10 766	19 887	N/A	38 028	5 2	1 019	112 536	N/A	28 252
Commercial	Chilled Water System - Variable Speed Dr. eq.	Warehouses	New	0	0	N/A	0	0	0	0	0	0
Commercial	Def. rated Outdoor Air System on VAV eq.	Healthcare	Existing	16 2	26 5 8	N/A	21 017	2 536	23 578	72 022	N/A	37 796
Commercial	Def. rated Outdoor Air System on VAV eq.	Hotels	Existing	3 2 3	5 386	N/A	794	306	5 8 1	1 378	N/A	7 918
Commercial	Def. rated Outdoor Air System on VAV eq.	Lodging/Hospital	Existing	10 617	17 337	N/A	18 36	2 220	33 028	43 033	N/A	3 708
Commercial	Def. rated Outdoor Air System on VAV eq.	Restaurants	Existing	13 706	25 630	N/A	20 313	2 51	3 381	49 650	N/A	6 18
Commercial	Def. rated Outdoor Air System on VAV eq.	Hotels	New	3 273	5 3 9	N/A	233	511	5 15	1 311	N/A	7 61
Commercial	Def. rated Outdoor Air System on VAV eq.	Hotels	New	657	1 075	N/A	850	303	1 130	2 642	N/A	1 66
Commercial	Def. rated Outdoor Air System on VAV eq.	Lodging/Hospital	New	2 127	3 70	N/A	3 68	5	6 61	12 620	N/A	8 751
Commercial	Def. rated Outdoor Air System on VAV eq.	Restaurants	New	2 808	389	N/A	3 633	38	6 1 9	12 9	N/A	8 260
Commercial	Duct Sealing Paper	Assembly	Existing	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	College and Uni. enbr.	Existing	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	Retail	Existing	3 479 22	6 129 866	N/A	2 212 120	266 099	77 6	7 860	N/A	1 363 01
Commercial	Duct Sealing Paper	Schools K-12	Existing	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	Warehouses	Existing	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	Assembly	New	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	College and Uni. enbr.	New	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	Healthcare	New	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	Hotels	New	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	Schools K-12	New	0	0	N/A	0	0	0	0	0	0
Commercial	Duct Sealing Paper	Warehouses	New	0	0	N/A	0	0	0	0	0	0
Commercial	ECM Motors on Furnaces	College and Uni. enbr.	Existing	0	0	N/A	0	0	0	0	0	0
C. I. F. I. C.	ECM M. - F	Hotels	Existing	33	38	N/A	113	11	1	1	1	113
Commercial	ECM Motors on Furnaces	Hotels	Existing	3	3	N/A	3	3	3	3	3	3
Commercial	ECM Motors on Furnaces	Lodging/Hospital	Existing	19	32	N/A	41	8	41	233	N/A	101
Commercial	ECM Motors on Furnaces	Retail	Existing	26	2	N/A	62	11	0	311	N/A	61
Commercial	ECM Motors on Furnaces	Schools K-12	Existing	0	0	N/A	0	0	0	0	0	0
Commercial	ECM Motors on Furnaces	College and Uni. enbr.	New	0	0	N/A	0	0	0	0	0	0
Commercial	ECM Motors on Furnaces	Hotels	New	0	0	N/A	0	0	0	0	0	0
Commercial	ECM Motors on Furnaces	Hotels	New	0	0	N/A	0	0	0	0	0	0
Commercial	ECM Motors on Furnaces	Hotels	New	0	0	N/A	0	0	0	0	0	0
Commercial	ECM Motors on Furnaces	Lodging/Hospital	New	3	3	N/A	8	1	8	32	N/A	1
Commercial	ECM Motors on Furnaces	Retail	New	0	0	N/A	11	2	1	3	N/A	8
Commercial	ECM Motors on Furnaces	Schools K-12	New	0	0	N/A	0	0	0	0	0	0
C. I. F. I. C.	F. I. C.	Hotels	New	20 050	40 950	N/A	18 52	10 22	3 303	210 713	N/A	49 87
C. I. F. I. C.	F. I. C.	Hotels	New	11 1 3	210 022	N/A	201 617	33 908	160 362	129 96	N/A	33 253
Commercial	Facility Energy Management System	College and Uni. enbr.	Existing	807	1 38	N/A	2 133	200	2 301	7 377	N/A	3 52
Commercial	Facility Energy Management System	Healthcare	Existing	10 427	17 335	N/A	18 650	2 2	20	63 840	N/A	11 253
Commercial	Facility Energy Management System	Hotels	Existing	38 397	30 475	N/A	3 300	23 82	3 598	837 180	N/A	1 1 2 1
Commercial	Facility Energy Management System	Lodging/Hospital	Existing	31 963	42 00	N/A	5 019	5 31	22 012	15 278	N/A	6 178
Commercial	Facility Energy Management System	Manufactures	Existing	75 1 6	75 888	N/A	833 250	100 556	170 975	2 835 8	N/A	635 139
Commercial	Facility Energy Management System	Offices	Existing	211 308	3 3 013	N/A	370 528	715	1 578	1 289 777	N/A	218 479
Commercial	Facility Energy Management System	Retail	Existing	608 096	967 1 075	N/A	608 021	608 021	632 216	2 1 2 1	N/A	1 11 123
Commercial	Facility Energy Management System	Schools K-12	Existing	3	3	N/A	3 022	1 0	1 000	2 779	N/A	3 000
Commercial	Facility Energy Management System	College and Uni. enbr.	New	6 5	1 05	N/A	1 682	105	1 638	5 90	N/A	2 569
Commercial	Facility Energy Management System	Healthcare	New	11 9	18 788	N/A	20 136	2 32	41	40 072	N/A	12 773
Commercial	Facility Energy Management System	Hotels	New	9 953	16 253	N/A	2 712	2 962	565	8 682	N/A	1 52
Commercial	Facility Energy Management System	Lodging/Hospital	New	23 375	38 96	N/A	33 262	607	16 23	110 78	N/A	39 526
Commercial	Facility Energy Management System	Manufactures	New	51 00	57 38	N/A	600 130	13 300	21 018	318 766	N/A	68 250
Commercial	Facility Energy Management System	Offices	New	17 901	32 578	N/A	20 463	130	133	103 173	N/A	1 096
Commercial	Facility Energy Management System	Retail	New	7 72	12 027	N/A	102 2 8	13 763	77 96	360 473	N/A	138 650
Commercial	Facility Energy Management System	Schools K-12	New	3 577	5 99	N/A	5	5	5	771	N/A	3 752
Commercial	HVAC misc-eq	Assembly	Existing	0	0	N/A	0	0	0	0	0	0
Commercial	HVAC misc-eq	Lodging/Hospital	Existing	0	0	N/A	0	0	0	0	0	0
Commercial	HVAC misc-eq	Offices	Existing	0	0	N/A	1 07	1 006	3 108	11 987	N/A	8 33
Commercial	HVAC misc-eq	Restaurants	Existing	0	0	N/A	21	21	21	62	N/A	62
Commercial	HVAC misc-eq	Retail	Existing	0	0	N/A	30	30	30	133	N/A	133
Commercial	HVAC misc-eq	Schools K-12	Existing	0	0	N/A	3	3	3	3	N/A	3
Commercial	HVAC misc-eq	Hotels	Existing	0	0	N/A	3	3	3	3	N/A	3
Commercial	HVAC misc-eq	Hotels	Existing	0	0	N/A	2	2	2	2	N/A	2
Commercial	HVAC misc-eq	Lodging/Hospital	New	0	0	N/A	0	0	0	0	0	0
C. I. F. I. C.	HV. C. -	Hotels	New	0	1 07	N/A	7 0	266	7 0	2 887	N/A	2 031
C. I. F. I. C.	HV. C. -	Hotels	New	0	1 07	N/A	90	18	0	196	N/A	60
C. I. F. I. C.	HV. C. -	Hotels	New	0	1 07	N/A	71	2	3	28	N/A	13
Commercial	HVAC misc-eq	Schools K-12	New	0	0	N/A	0	0	0	0	0	0
Commercial	HVAC misc-eq	Hotels	Existing	0	352 439	N/A	156 203	50 220	2 9 3	608 46	N/A	207 683
Commercial	HVAC misc-eq	Hotels	Existing	0	337 293	N/A	11 089	21 578	11 10	218 218	N/A	232 091
Commercial	HVAC misc-eq	Lodging/Hospital	Existing	0	19 228	N/A	86 008	30 9 3	65 35	333 388	N/A	21 338
Commercial	HVAC misc-eq	Restaurants	Existing	0	630 688	N/A	276 295	100 82	225 69	1 089 111	N/A	788 301
Commercial	HVAC misc-eq	Hotels	New	0	83 788	N/A	37 388	13 388	6 028	1 3 778	N/A	71 88
Commercial	HVAC misc-eq	Hotels	New	0	8 388	N/A	6 031	3 27	1 88	7 078	N/A	29 278
Commercial	HVAC misc-eq	Lodging/Hospital	New	0	6 388	N/A	39 96	7 078	16 578	79 788	N/A	49 068
Commercial	HVAC misc-eq	Restaurants	New	0	8 388	N/A	68 2	23 617	83 2	210 028	N/A	188 738
Commercial	Low U-Value Windows	College and Uni. enbr.	Existing	12 676	27 36	N/A	61 5 6	1 963	129 91	207 128	N/A	138 373
Commercial	Low U-Value Windows	Hotels	Existing	3 38	608	N/A	2 912	279	6 1 8	9 788	N/A	7 82
C. I. F. I. C.	L. U. V. I. W.	Hotels	New	0	4 609	N/A	86 613	5 713	5 2 8	115 527	N/A	1 0 796
C. I. F. I. C.	L. U. V. I. W.	Hotels	New	0	41 323	N/A	127 30	77 313	7 11	383 293	N/A	189 038
Commercial	Low U-Value Windows	Hotels	Existing	0	52 850	N/A	70 862	5 720	1 8 1	208 128	N/A	189 5 1
Commercial	Low U-Value Windows	Hotel/Hotel	Existing	1 8	35 61	N/A	33 131	3 370	7 178	118 211	N/A	90 03
Commercial	Low U-Value Windows	Lodging/Hospital	Existing	205 330	275 236	N/A	1 6 7	1 036	309 272	42 9 6	N/A	376 919
Commercial	Low U-Value Windows	Manufactures	Existing	157 537	21 119	N/A	1 0	13 816	30 1 2	6 780	N/A	279 667
Commercial	Low U-Value Windows	Offices	Existing	127 9 0	211 8	N/A	132 888	12 725	288 010	7 82	N/A	3 2 2 2
Commercial	Low U-Value Windows	Restaurants	Existing	208 102	279 108	N/A	178 111	16 911	172 272	303 341	N/A	15 699
Commercial	Low U-Value Windows	Retail	Existing	150 900	210 332	N/A	132 879	12 7 1	286 566	7 182	N/A	3 191
Commercial	Low U-Value Windows	Schools K-12	Existing	29 862	9 959	N/A	25 957	2 27	51 30	61 818	N/A	61 113
Commercial	Low U-Value Windows	Warehouses	Existing	18 339	21 96	N/A	1 9 0	1 33	31 3	30 779	N/A	38
Commercial	Programmable Thermostat	Lodging/Hospital	Existing	0	0	N/A	0	0	0	0	0	0
Commercial	Programmable Thermostat	Restaurants	Existing	207 278	623 952	N/A	38 9 0	37 2	20 20	1 261 280	N/A	286 693
Commercial	Programmable Thermostat	Hotels	New	0	0	N/A	0	0	0	0	0	0
C. I. F. I. C.	P. T. T.	Hotels	New	32 857	56 88	N/A	1 628	1 018	2 8 8	1 018	N/A	86 86
Commercial	Smart Thermostat	Hotels	Existing	37 273	222 1 8	N/A	361 516	36 1 4	71 903	1 903 133	N/A	360 313
Commercial	Smart Thermostat	Hotel/Hotel	Existing	7 017	16 380	N/A	280 813	7 000	1 051	1 033 03	N/A	2 0 590
Commercial	Smart Thermostat	Lodging/Hospital	Existing	5 666 974	13 1 3 369	N/A	1 902 91	162 261	825 171	3 363 960	N/A	1 686 37
Commercial	Smart Thermostat	Offices	Existing	36 838	83 898	N/A	1 336 798	2 7 013	166 2	1 28	N/A	1 336 389
Commercial	Smart Thermostat	Retail	Existing	1 007 713	1 02 068	N/A	1 17 686	28 362	1 93	1 027 128	N/A	1 027 128
Commercial	Smart Thermostat	Restaurants	New	11 961	27 938	N/A	20 96	11 309	1 022	230 38	N/A	43 968
Commercial	Smart Thermostat	Hotel/Hotel	New	850	1 998	N/A	32 871	7 038	1 71	126 030	N/A	30 3 2
Commercial	Smart Thermostat	Lodging/Hospital	New	760 801	1 6 2 33	N/A	123 296	20 281	833 138	3 96	N/A	289 708
Commercial	Smart Thermostat	Offices	New	60	60	N/A	60	60	60	60	N/A	60
Commercial	Smart Thermostat	Retail	New	112 633	30 688	N/A	176 163	26 901	2 2 879	633 993	N/A	60 087
Commercial	Thermal Energy Storage	Assembly	Existing	1 978 89	2 452 902	N/A	-99 033	29 461	188 963</			









**PRIVILEGED AND CONFIDENTIAL**  
**Attorney-Client Communication/Attorney Work Product**  
**Prepared at the Direction of the Legal Counsel**

Economic Potential Totals by Sensitivity							
Test	Goal	Base	Fuel		Payback		CO2
			High	Low	3 Years	1 Year	
RIM	Summer Demand (MW)	1,035	1,073	1,035	906	1,064	1,043
	Winter Demand (MW)	565	573	564	512	613	565
	Energy (GWh)	1,898	1,970	1,896	1,689	2,007	1,920
TRC	Summer Demand (MW)	1,192	1,276	1,191	952	1,334	1,191
	Winter Demand (MW)	644	775	643	502	696	644
	Energy (GWh)	3,117	3,791	3,111	1,970	3,915	3,168

Measure Permutations Failing 2-Year Payback									
Economic Potential – [TRC or RIM]									
Customer Class	Measure Name	*Segment	*Vintage	TRC	RIM	PCT	Summer (MW)	Winter (MW)	Energy (GWh)
Commercial	High Efficiency PTAC	Assembly	Turnover	8.81	1.35	6.52	0	0	0
Commercial	High Efficiency PTAC	Healthcare	Turnover	19.16	1.35	14.18	0	0	0
Commercial	High Efficiency PTAC	Lodging/Hospitality	Turnover	14.55	1.35	10.77	0	0	0
Commercial	High Efficiency PTAC	Offices	Turnover	8.63	1.18	7.34	0	0	0
Commercial	High Efficiency PTAC	Restaurants	Turnover	14.27	1.35	10.56	0	0	0
Commercial	High Efficiency PTAC	Retail	Turnover	11.19	1.35	8.28	0	0	0
Commercial	High Efficiency PTAC	Schools K-12	Turnover	9.72	1.35	7.20	0	0	0
Commercial	High Efficiency PTAC	Assembly	New	8.81	1.35	6.52	0	0	0
Commercial	High Efficiency PTAC	Healthcare	New	19.16	1.35	14.18	0	0	0
Commercial	High Efficiency PTAC	Lodging/Hospitality	New	14.55	1.35	10.77	0	0	0
Commercial	High Efficiency PTAC	Offices	New	8.63	1.18	7.34	0	0	0
Commercial	High Efficiency PTAC	Restaurants	New	14.27	1.35	10.56	0	0	0
Commercial	High Efficiency PTAC	Retail	New	11.19	1.35	8.28	0	0	0
Commercial	High Efficiency PTAC	Schools K-12	New	9.72	1.35	7.20	0	0	0
Commercial	High Efficiency PTHP	Assembly	Turnover	8.80	1.33	6.61	0	0	0
Commercial	High Efficiency PTHP	Healthcare	Turnover	19.08	1.33	14.33	0	0	0
Commercial	High Efficiency PTHP	Lodging/Hospitality	Turnover	14.47	1.33	10.87	0	0	0
Commercial	High Efficiency PTHP	Offices	Turnover	9.84	1.33	7.39	0	0	0
Commercial	High Efficiency PTHP	Restaurants	Turnover	14.53	1.33	10.91	0	0	0
Commercial	High Efficiency PTHP	Retail	Turnover	11.31	1.33	8.50	0	0	0
Commercial	High Efficiency PTHP	Schools K-12	Turnover	9.85	1.33	7.40	0	0	0
Commercial	High Efficiency PTHP	Assembly	New	8.80	1.33	6.61	0	0	0
Commercial	High Efficiency PTHP	Healthcare	New	19.08	1.33	14.33	0	0	0
Commercial	High Efficiency PTHP	Lodging/Hospitality	New	14.47	1.33	10.87	0	0	0
Commercial	High Efficiency PTHP	Offices	New	9.84	1.33	7.39	0	0	0
Commercial	High Efficiency PTHP	Restaurants	New	14.53	1.33	10.91	0	0	0
Commercial	High Efficiency PTHP	Retail	New	11.31	1.33	8.50	0	0	0
Commercial	High Efficiency PTHP	Schools K-12	New	9.85	1.33	7.40	0	0	0
Commercial	Faucet Aerator	Grocery	Existing	10.17	1.03	9.85	0	0	0
Commercial	Faucet Aerator	Lodging/Hospitality	Existing	10.17	1.03	9.85	0	0	0
Commercial	Faucet Aerator	Restaurants	Existing	10.17	1.03	9.85	0	0	0
Commercial	Faucet Aerator	Retail	Existing	10.17	1.03	9.85	0	0	0
Commercial	Faucet Aerator	Grocery	New	10.17	1.03	9.85	0	0	0
Commercial	Faucet Aerator	Lodging/Hospitality	New	10.17	1.03	9.85	0	0	0
Commercial	Faucet Aerator	Restaurants	New	10.17	1.03	9.85	0	0	0
Commercial	Faucet Aerator	Retail	New	10.17	1.03	9.85	0	0	0
Commercial	Low Flow Shower Head	Lodging/Hospitality	Existing	11.76	1.03	11.42	0	0	0
Commercial	Low Flow Shower Head	Lodging/Hospitality	New	11.76	1.03	11.42	0	0	0

Measure Permutations Failing 2-Year Payback									
Economic Potential – [TRC or RIM]									
Customer Class	Measure Name	*Segment	*Vintage	TRC	RIM	PCT	Summer (MW)	Winter (MW)	Energy (GWh)
Residential	Energy Star Clothes Washer	Single Family	Turnover	7.20	0.69	10.41	0	0	0
Residential	Energy Star Clothes Washer	Multi-Family	Turnover	7.20	0.69	10.41	0	0	0
Residential	Energy Star Clothes Washer	Manufactured Home	Turnover	7.20	0.69	10.41	0	0	0
Residential	Energy Star Clothes Washer	Single Family	New	7.20	0.69	10.41	0	0	0
Residential	Energy Star Clothes Washer	Multi-Family	New	7.20	0.69	10.41	0	0	0
Residential	Energy Star Clothes Washer	Manufactured Home	New	7.20	0.69	10.41	0	0	0
Residential	Energy Star Room AC	Single Family	Turnover	6.94	0.92	7.54	0	0	0
Residential	Energy Star Room AC	Multi-Family	Turnover	6.94	0.92	7.54	0	0	0
Residential	Energy Star Room AC	Manufactured Home	Turnover	6.94	0.92	7.54	0	0	0
Residential	Energy Star Room AC	Single Family	New	6.94	0.92	7.54	0	0	0
Residential	Energy Star Room AC	Multi-Family	New	6.94	0.92	7.54	0	0	0
Residential	Energy Star Room AC	Manufactured Home	New	6.94	0.92	7.54	0	0	0
Residential	CFL - 15W Flood (Exterior)	Single Family	Turnover	2.51	0.25	10.18	0	0	0
Residential	CFL - 15W Flood (Exterior)	Multi-Family	Turnover	2.51	0.25	10.18	0	0	0
Residential	CFL - 15W Flood (Exterior)	Manufactured Home	Turnover	2.51	0.25	10.18	0	0	0
Residential	CFL - 15W Flood (Exterior)	Single Family	New	2.51	0.25	10.18	0	0	0
Residential	CFL - 15W Flood (Exterior)	Multi-Family	New	2.51	0.25	10.18	0	0	0
Residential	CFL - 15W Flood (Exterior)	Manufactured Home	New	2.51	0.25	10.18	0	0	0
Residential	CFL-23W	Single Family	Turnover	2.55	0.35	7.33	0	0	0
Residential	CFL-23W	Multi-Family	Turnover	2.55	0.35	7.33	0	0	0
Residential	CFL-23W	Manufactured Home	Turnover	2.55	0.35	7.33	0	0	0
Residential	CFL-23W	Single Family	New	2.55	0.35	7.33	0	0	0
Residential	CFL-23W	Multi-Family	New	2.55	0.35	7.33	0	0	0
Residential	CFL-23W	Manufactured Home	New	2.55	0.35	7.33	0	0	0
Residential	LED - 14W	Single Family	Turnover	3.42	0.37	9.24	0	0	0
Residential	LED - 14W	Multi-Family	Turnover	3.42	0.37	9.24	0	0	0
Residential	LED - 14W	Manufactured Home	Turnover	3.42	0.37	9.24	0	0	0
Residential	LED - 14W	Single Family	New	3.42	0.37	9.24	0	0	0
Residential	LED - 14W	Multi-Family	New	3.42	0.37	9.24	0	0	0
Residential	LED - 14W	Manufactured Home	New	3.42	0.37	9.24	0	0	0
Residential	LED - 9W Flood (Exterior)	Single Family	Turnover	4.38	0.25	17.36	0	0	0
Residential	LED - 9W Flood (Exterior)	Multi-Family	Turnover	4.38	0.25	17.36	0	0	0
Residential	LED - 9W Flood (Exterior)	Manufactured Home	Turnover	4.38	0.25	17.36	0	0	0
Residential	LED - 9W Flood (Exterior)	Single Family	New	4.38	0.25	17.36	0	0	0
Residential	LED - 9W Flood (Exterior)	Multi-Family	New	4.38	0.25	17.36	0	0	0
Residential	LED - 9W Flood (Exterior)	Manufactured Home	New	4.38	0.25	17.36	0	0	0
Residential	LED - 9W	Single Family	Turnover	3.02	0.37	8.14	0	0	0
Residential	LED - 9W	Multi-Family	Turnover	3.02	0.37	8.14	0	0	0