Ohio | Public Utilities Commission

Application to Commit Energy Efficiency/Peak Demand Reduction Programs (Mercantile Customers Only)

Case No.: 13-0168-EL-EEC

Mercantile Customer:	South Euclid Lyndhurst City Schools
Electric Utility:	The Cleveland Electric Illuminating Company
Program Title or Description:	South Euclid Lyndhurst City Schools Lighting Retrofit

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs in accordance with the Commission's pilot program established in Case No. 10-834-EL-POR

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up the issuance of a Commission order.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

Any confidential or trade secret information may be submitted to Staff on disc or via email at ee-pdr@puc.state.oh.us.

Section 1: Mercantile Customer Information

Name:South Euclid Lyndhurst City Schools

Principal address:5044 Mayfield Road, Lyndhurst, OH 44124

Address of facility for which this energy efficiency program applies: Listed Below

Administration Building	5044 Mayfield Road, 44124
Adrian Elementary	1071 Homestead Road, 44121
Arc Tech Academy	4807 Mayfield Road, 44124
Charles F Brush High	4875 Glenly Road, 44124
Greenview Elementary	1825 South Green Road, 44121
Memorial Jr. High	1250 Professor Road, 44121
Rowland Elementary	4300 Bayard Road, 44121
Sunview Elementary	5520 Meadow Wood Blvd, 44124

Name and telephone number for responses to questions:Chris Coad, 216-691-2039

Electricity use by the customer (check the box(es) that apply):

- ☒ The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.)
- ☐ The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

Section 2: Application Information

A) The customer is filing this application (choose which applies):

- ☐ Individually, without electric utility participation.
- ☒ Jointly with the electric utility.

B) The electric utility is: The Cleveland Electric Illuminating Company

C) The customer is offering to commit (check any that apply):

☒ Energy savings from the customer's energy efficiency program. (Complete Sections 3, 5, 6, and 7.)

☐ Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)

☐ Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

A) The customer's energy efficiency program involves (check those that apply):

☒ Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)). **If Checked, Please see Exhibit 1 and Exhibit 2**

☐ Installation of new equipment to replace equipment that needed to be replaced The customer installed new equipment on the following date(s): _____.

☐ Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):

_____.

☐ Behavioral or operational improvement.

B) Energy savings achieved/to be achieved by the energy efficiency program:

1) If you checked the box indicating that the project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) – (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 828,355 kWh

2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

3) If you checked the box indicating that the project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) – (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

Section 4: Demand Reduction/Demand Response Programs

A) The customer's program involves (check the one that applies):

☒ Coincident peak-demand savings from the customer's energy efficiency program.

☐ Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)

☐ Potential peak-demand reduction (check the one that applies):

☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.

☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.

B) On what date did the customer initiate its demand reduction program?

_____

C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

_____ kW

Section 5: Request for Cash Rebate Reasonable Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

A) The customer is applying for:

☒ Option 1: A cash rebate reasonable arrangement.

OR

☐ Option 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR

☐ Commitment payment

B) The value of the option that the customer is seeking is:

Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):

☒ A cash rebate of $30,985. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.

☐ An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for _____ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

☐ A commitment payment valued at no more than $_____. (Attach documentation and calculations showing how this payment amount was determined.)

OR

☐ Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of the customer's ongoing efficiency program. (Attach documentation that establishes the ongoing nature of the program.) In order to continue the exemption beyond the initial 24 month period, the customer will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

☐ Total Resource Cost (TRC) Test. The calculated TRC value is: _____(Continue to Subsection 1, then skip Subsection 2)

☒ Utility Cost Test (UCT) . The calculated UCT value is: **See Exhibit 3** (Skip to Subsection 2.)

Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The incremental measure costs were _____.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were **See Exhibit 3**

The utility's program costs were **See Exhibit 3**

The utility's incentive costs/rebate costs were **See Exhibit 3**

Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.
- A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:
  1) any confidentiality requirements associated with the agreement;
  2) a description of any consequences of noncompliance with the terms of the commitment;
  3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
  4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
  5) a commitment by the customer to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
- A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.

Ohio | Public Utilities Commission

Application to Commit Energy Efficiency/Peak Demand Reduction Programs (Mercantile Customers Only)

Case No.: 13-0168-EL-EEC

State of Ohio :

Chris Coad Director of Business Operations, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

   South Euclid Lyndhurst City Schools
   [insert customer or EDU company name and any applicable name(s) doing business as]

2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

Director of Business operations
Signature of Affiant & Title

Sworn and subscribed before me this 22 day of April, 2013 Month/Year

Signature of official administering oath

Denise J. Gunn Registrar
Print Name and Title

My commission expires on 8/22/14

DENISE J. GUNN
Notary Public, State of Ohio
Recorded in Cuyahoga Cty.
My Commission Expires 8/22/2014

Exhibit 1

Customer Legal Entity Name: South Euclid-Lyndhurst City School District

Site Address: Administration Building
Principal Address: 5044 Mayfield Road

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Administration Building Lighting Retrofit	Administration Building was completed August 2012 as an OFSC funded project. The change in lighting significally increased energy efficiency rates by replacing all T12 and Metal Halide fixture with T8 and incandescent fixtures.	See lighting calculator	June 2012 replacement of existing fixtures ceased when it was deteremined retrofit project was approved.	N/A

Exhibit 2

Customer Legal Entity Name: South Euclid-Lyndhurst City School District
Site Address: Administration Building
Principal Address: 5044 Mayfield Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) *Note 1*
2011	3,912	3,912	3,912
2010	3,912	3,912	3,912
2009	4,031	4,031	4,031
Average	**3,952**	**3,952**	**3,952**

Project Number	Project Name	In-Service Date	Project Cost $	50% of Project Cost $	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) $	Eligible Rebate Amount (H) $ *Note 2*
1	Administration Building Lighting Retrofit	08/01/2012	$27,550	$13,775	41,338	41,338	-	$2,066	$1,550
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	**$27,550**		**41,338**	**41,338**	**0**	**$2,066**	**$1,550**

Docket No. 13-0168
Site: 5044 Mayfield Road

Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of $0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or $250,000 per project. The rebate also cannot exceed $500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost $/MWh (B)	Utility Avoided Cost $ (C)	Utility Cost $ (D)	Cash Rebate $ (E)	Administrator Variable Fee $ (F)	Total Utility Cost $ (G)	UCT (H)
1	41	$ 308	$ 12,744	$ 4,050	$1,550	$413	$ 6,013	**2.1**
Total	**41**	**$ 308**	**12,744**	**4,050**	**$1,550**	**$413**	**6,013**	**2.1**

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

South Euclid-Lyndhurst City School District ~ Administration Building
Docket No. 13-0168

Site: 5044 Mayfield Road

Lighting Inventory Form

Applicant Name: South Euclid Lyndhurst

Facility Name: Administration Building

Date: 4/5/2013

Lighting Zone (exterior only): Lighting Zone 3

Instructions: Please use one line for each fixture type in a room or area

For existing or proposed control, choose OCC for Occupany Sensor, DAY for photosensor, Hi-Lo for bi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)				POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.		Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
e.g.	*Retrofit*	*400 North Street*	*2*	*Office*	*Other*	*Interior*	*Office - Small*		*Cooled Space*	*3*	*F44ILL*	*112*	*0.34*	*NONE*						*3*	*CFT55/1-BX*	*56*	*0.17*	*No*	*OCC*	*3*	*0.17*	*84%*	*84%*	*34%*	*12%*	*0%*	*30%*	*0.19*	*2,808*	*3,435*	*646*
e.g.	*New Construction*	*Example*	*1*	*Restaurant*	*Conference, Meeting or Training Room*	*Exterior*	*Retail - Small*	*Builing facades (liner ft based)*	*Cooled Space*							*500*	*linear ft*	*3.8*	*1.88*	*5*	*Example Cut Sheet 2*	*25*	*0.13*	*Yes*	*DAY*	*5*	*1.75*	*88%*	*89%*	*34%*	*12%*	*0%*	*0%*	*2.09*	*8,760*	*3,068*	*6,013*
1	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	3	Cut Sheet 1	62	0.19	NONE						3	Cut Sheet 2	41	0.12	No	NONE		0.06		84%	34%	12%	0%	0%	0.07		3,435	242
2	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	5	Cut Sheet 3	98	0.49	NONE						5	Cut Sheet 4	48	0.24	No	NONE		0.25		84%	34%	12%	0%	0%	0.28		3,435	962
3	Retrofit	5044 Mayfield Road	ALL	Office	Conference, Meeting or Training Room	Interior	Office - Large		Cooled Space	4	Cut Sheet 3	98	0.39	NONE						4	Cut Sheet 4	48	0.19	No	NONE		0.20		84%	34%	12%	0%	0%	0.23		3,435	769
4	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	88	Cut Sheet 6	72	6.34	NONE						88	Cut Sheet 8	48	4.22	No	NONE		2.11		84%	34%	12%	0%	0%	2.38		3,435	8,125
5	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	15	Cut Sheet 6	72	1.08	NONE						15	Cut Sheet 8	48	0.72	No	NONE		0.36		84%	34%	12%	0%	0%	0.41		3,435	1,385
6	Retrofit	5044 Mayfield Road	ALL	Office	Conference, Meeting or Training Room	Interior	Office - Large		Cooled Space	14	Cut Sheet 6	72	1.01	NONE						14	Cut Sheet 8	48	0.67	No	NONE		0.34		84%	34%	12%	0%	0%	0.38		3,435	1,293
7	Retrofit	5044 Mayfield Road	ALL	Hallway	Other	Interior	Office - Large		Cooled Space	30	Cut Sheet 6	72	2.16	NONE						30	Cut Sheet 8	48	1.44	No	NONE		0.72		84%	34%	12%	0%	0%	0.81		3,435	2,770
8	Retrofit	5044 Mayfield Road	ALL	Stairwell	Other	Interior	Office - Large		Cooled Space	2	Cut Sheet 6	72	0.14	NONE						2	Cut Sheet 8	48	0.10	No	NONE		0.05		84%	34%	12%	0%	0%	0.05		3,435	185
9	Retrofit	5044 Mayfield Road	ALL	Storage	Other	Interior	Office - Large		Cooled Space	5	Cut Sheet 6	72	0.36	NONE						5	Cut Sheet 8	48	0.24	No	NONE		0.12		84%	34%	12%	0%	0%	0.14		3,435	462
10	Retrofit	5044 Mayfield Road	ALL	Storage	Other	Interior	Office - Large		Cooled Space	1	Cut Sheet 7	98	0.10	NONE						1	Cut Sheet 8	48	0.05	No	NONE		0.05		84%	34%	12%	0%	0%	0.06		3,435	192
11	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	16	Cut Sheet 9	112	1.79	NONE						16	Cut Sheet 8	48	0.77	No	NONE		1.02		84%	34%	12%	0%	0%	1.15		3,435	3,940
12	Retrofit	5044 Mayfield Road	ALL	Office	Conference, Meeting or Training Room	Interior	Office - Large		Cooled Space	8	Cut Sheet 10	86	0.69	NONE						8	Cut Sheet 8	48	0.38	No	NONE		0.30		84%	34%	12%	0%	0%	0.34		3,435	1,170
13	Retrofit	5044 Mayfield Road	ALL	Storage	Other	Interior	Office - Large		Cooled Space	14	Cut Sheet 11	72	1.01	NONE						14	Cut Sheet 12	27	0.38	No	NONE		0.63		84%	34%	12%	0%	0%	0.71		3,435	2,424
14	Retrofit	5044 Mayfield Road	ALL	Boiler Room	Other	Interior	Office - Large		Cooled Space	4	Cut Sheet 13	62	0.25	NONE						4	Cut Sheet 8	48	0.19	No	NONE		0.06		84%	34%	12%	0%	0%	0.06		3,435	215
15	Retrofit	5044 Mayfield Road	ALL	Office	Restrooms	Interior	Office - Large		Cooled Space	2	Cut Sheet 14	112	0.22	NONE						2	Cut Sheet 15	96	0.19	No	NONE		0.03		84%	34%	12%	0%	0%	0.04		3,435	123
16	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	3	Cut Sheet 16	62	0.19	NONE						3	Cut Sheet 8	48	0.14	No	NONE		0.04		84%	34%	12%	0%	0%	0.05		3,435	162
17	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	27	Cut Sheet 16	62	1.67	NONE						27	Cut Sheet 8	48	1.30	No	NONE		0.38		84%	34%	12%	0%	0%	0.43		3,435	1,454
18	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	7	Cut Sheet 17	72	0.50	NONE						7	Cut Sheet 8	48	0.34	No	NONE		0.17		84%	34%	12%	0%	0%	0.19		3,435	646
19	Retrofit	5044 Mayfield Road	ALL	Office	Copy or Printing Room	Interior	Office - Large		Cooled Space	6	Cut Sheet 18	112	0.67	NONE						6	Cut Sheet 15	96	0.58	No	NONE		0.10		84%	34%	12%	0%	0%	0.11		3,435	369
20	Retrofit	5044 Mayfield Road	ALL	Office	Restrooms	Interior	Office - Large		Cooled Space	4	Cut Sheet 18	112	0.45	NONE						4	Cut Sheet 15	96	0.38	No	NONE		0.06		84%	34%	12%	0%	0%	0.07		3,435	246
21	Retrofit	5044 Mayfield Road	ALL	Storage	Other	Interior	Office - Large		Cooled Space	1	Cut Sheet 19	144	0.14	NONE						1	Cut Sheet 15	96	0.10	No	NONE		0.05		84%	34%	12%	0%	0%	0.05		3,435	185
22	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	3	Cut Sheet 20	23	0.07	NONE						3	Cut Sheet 21	27	0.08	No	NONE		-0.01		84%	34%	12%	0%	0%	-0.01		3,435	-46
23	Retrofit	5044 Mayfield Road	ALL	Closet	Other	Interior	Office - Large		Cooled Space	1	Cut Sheet 22	120	0.12	NONE						1	Cut Sheet 23	38	0.04	No	NONE		0.08		84%	34%	12%	0%	0%	0.09		3,435	315
24	Retrofit	5044 Mayfield Road	ALL	Gymnasium	Other	Interior	Office - Large		Cooled Space	5	MH400/1	458	2.29	NONE						5	Cut Sheet 24	192	0.96	No	NONE		1.33		84%	34%	12%	0%	0%	1.50		3,435	5,117
25	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	4	Cut Sheet 25	100	0.40	NONE						4	Cut Sheet 27	19	0.08	No	NONE		0.32		84%	34%	12%	0%	0%	0.36		3,435	1,246
26	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	8	Cut Sheet 26	60	0.48	NONE						8	Cut Sheet 21	27	0.22	No	NONE		0.26		84%	34%	12%	0%	0%	0.30		3,435	1,016
27	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	18	Cut Sheet 28	75	1.35	NONE						18	Cut Sheet 30	23	0.41	No	NONE		0.94		84%	34%	12%	0%	0%	1.05		3,435	3,601
28	Retrofit	5044 Mayfield Road	ALL	Office	Other	Interior	Office - Large		Cooled Space	10	Cut Sheet 29	95	0.95	NONE						10	Cut Sheet 30	23	0.23	No	NONE		0.72		84%	34%	12%	0%	0%	0.81		3,435	2,770
29													0.00	NONE									0.00		NONE		0.00										0
30													0.00	NONE									0.00		NONE		0.00										0
31													0.00	NONE									0.00		NONE		0.00										0
32													0.00	NONE									0.00		NONE		0.00										0
33													0.00	NONE									0.00		NONE		0.00										0
34													0.00	NONE									0.00		NONE		0.00										0
35													0.00	NONE									0.00		NONE		0.00										0
36													0.00	NONE									0.00		NONE		0.00										0
37													0.00	NONE									0.00		NONE		0.00										0
38													0.00	NONE									0.00		NONE		0.00										0
39													0.00	NONE									0.00		NONE		0.00										0
40													0.00	NONE									0.00		NONE		0.00										0
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43													0.00	NONE									0.00		NONE		0.00										0
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190													0.00	NONE									0.00		NONE		0.00										0

Lighting Form

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
191													0.00	NONE								0.00		NONE		0.00										0
192													0.00	NONE								0.00		NONE		0.00										0
193													0.00	NONE								0.00		NONE		0.00										0
194													0.00	NONE								0.00		NONE		0.00										0
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245													0.00	NONE								0.00		NONE		0.00										0
246													0.00	NONE								0.00		NONE		0.00										0
247													0.00	NONE								0.00		NONE		0.00										0
248													0.00	NONE								0.00		NONE		0.00										0
249													0.00	NONE								0.00		NONE		0.00										0
250													0.00	NONE								0.00		NONE		0.00										0
Totals										308			25.50						308			14.76				10.75							12.09		3,435	41,338

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	41,338
Total Change in Connected Load	10.75

Annual Estimated Cost Savings	$4,133.80
Annual Operating Hours	3,435

Interior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$2,066.90
Exterior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$0.00
Total retrofit CFL Incentive @ $1/screw-in CFL lamp; $15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	$0.00
Total retrofit LED Exit Incentive @ $10/exit sign	$0.00
Total Lighting Controls Incentive @ $25/occupancy sensor and $25/daylight sensor (includes all Lighting Controls, both interior and exterior)	$0.00

Total Calculated Incentive	$2,066.90

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	308
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type “Other” indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	12.09

Exhibit 1

Customer Legal Entity Name: South Euclid-Lyndhurst City School District

Site Address: Adrian Elementary
Principal Address: 1071 Homestead Road

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Adrian Elementary Lighting Retrofit	Adrian Elementary was completed August 2012 as an OFSC funded project. The change in lighting significally increased energy efficiency rates by replacing all T12 and Metal Halide fixture with T8 and incandescent fixtures.	See lighting calculator	June 2012 replacement of existing fixtures ceased when it was deteremined retrofit project was approved.	N/A

Exhibit 2

Customer Legal Entity Name: South Euclid-Lyndhurst City School District
Site Address: Adrian Elementary
Principal Address: 1071 Homestead Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) *Note 1*
2011	8,436	8,436	8,436
2010	8,436	8,436	8,436
2009	8,717	8,717	8,717
Average	**8,530**	**8,530**	**8,530**

Project Number	Project Name	In-Service Date	Project Cost $	50% of Project Cost $	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) $	Eligible Rebate Amount (H) $ *Note 2*
1	Adrian Elementary Lighting Retrofit	08/01/2012	$48,720	$24,360	41,353	41,353	-	$2,067	$1,550
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	**$48,720**		**41,353**	**41,353**	**0**	**$2,067**	**$1,550**

Docket No. 13-0168
Site: 1071 Homestead Road

Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of $0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or $250,000 per project. The rebate also cannot exceed $500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost $/MWh (B)	Utility Avoided Cost $ (C)	Utility Cost $ (D)	Cash Rebate $ (E)	Administrator Variable Fee $ (F)	Total Utility Cost $ (G)	UCT (H)
1	41	$ 308	$ 12,748	$ 4,050	$1,550	$414	$ 6,014	**2.1**
Total	**41**	**$ 308**	**12,748**	**4,050**	**$1,550**	**$414**	**6,014**	**2.1**

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

South Euclid-Lyndhurst City School District ~ Adrian Elementary
Docket No. 13-0168

Site: 1071 Homestead Road

Lighting Inventory Form

Applicant Name: South Euclid

Facility Name: Adrian Elementary

Date: 4/8/2013

Lighting Zone (exterior only): Lighting Zone 3

Instructions: Please use one line for each fixture type in a room or area

For existing or proposed control, choose OCC for Occupany Sensor, DAY for photosensor, Hi-Lo for bi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)				POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.		Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
e.g.	*Retrofit*	*400 North Street*	*2*	*Office*	*Other*	*Interior*	*Office - Small*		*Cooled Space*	*3*	*F44ILL*	*112*	*0.34*	*NONE*						*3*	*CFT55/1-BX*	*56*	*0.17*	*No*	*OCC*	*3*	*0.17*	*84%*	*84%*	*34%*	*12%*	*0%*	*30%*	*0.19*	*2,808*	*3,435*	*646*
e.g.	*New Construction*	*Example*	*1*	*Restaurant*	*Conference, Meeting or Training Room*	*Exterior*	*Retail - Small*	*Builing facades (liner ft based)*	*Cooled Space*							*500*	*linear ft*	*3.8*	*1.88*	*5*	*Example Cut Sheet 2*	*25*	*0.13*	*Yes*	*DAY*	*5*	*1.75*	*88%*	*89%*	*34%*	*12%*	*0%*	*0%*	*2.09*	*8,760*	*3,068*	*6,013*
1	Retrofit	1071 Homestead Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	4	Cut Sheet 1	62	0.25	NONE						4	Cut Sheet 3	48	0.19	No	NONE		0.06		57%	34%	12%	0%	0%	0.04		2,080	130
2	Retrofit	1071 Homestead Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	8	Cut Sheet 2	72	0.58	NONE						8	Cut Sheet 3	48	0.38	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
3	Retrofit	1071 Homestead Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	24	Cut Sheet 2	72	1.73	NONE						24	Cut Sheet 3	48	1.15	No	NONE		0.58		57%	34%	12%	0%	0%	0.44		2,080	1,342
4	Retrofit	1071 Homestead Rd	All	School	Conference, Meeting or Training Room	Interior	Education - Primary School		Cooled Space	4	Cut Sheet 4	62	0.25	NONE						4	Cut Sheet 5	41	0.16	No	NONE		0.08		57%	34%	12%	0%	0%	0.06		2,080	196
5	Retrofit	1071 Homestead Rd	All	Clinic	Other	Interior	Education - Primary School		Cooled Space	8	Cut Sheet 4	62	0.50	NONE						4	Cut Sheet 5	41	0.16	No	NONE		0.33		57%	34%	12%	0%	0%	0.25		2,080	773
6	Retrofit	1071 Homestead Rd	All	Office	Other	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 6	48	0.58	NONE						12	Cut Sheet 7	45	0.54	No	NONE		0.04		57%	34%	12%	0%	0%	0.03		2,080	84
7	Retrofit	1071 Homestead Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	15	Cut Sheet 8	98	1.47	NONE						15	Cut Sheet 9	71	1.07	No	NONE		0.41		57%	34%	12%	0%	0%	0.31		2,080	943
8	Retrofit	1071 Homestead Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	11	Cut Sheet 10	98	1.08	NONE						11	Cut Sheet 11	48	0.53	No	NONE		0.55		57%	34%	12%	0%	0%	0.42		2,080	1,281
9	Retrofit	1071 Homestead Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	34	Cut Sheet 12	112	3.81	NONE						34	Cut Sheet 11	48	1.63	No	NONE		2.18		57%	34%	12%	0%	0%	1.66		2,080	5,069
10	Retrofit	1071 Homestead Rd	All	Library	Other	Interior	Education - Primary School		Cooled Space	3	Cut Sheet 13	62	0.19	NONE						3	Cut Sheet 3	48	0.14	No	NONE		0.04		57%	34%	12%	0%	0%	0.03		2,080	98
11	Retrofit	1071 Homestead Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	32	Cut Sheet 14	72	2.30	NONE						32	Cut Sheet 3	48	1.54	No	NONE		0.77		57%	34%	12%	0%	0%	0.59		2,080	1,789
12	Retrofit	1071 Homestead Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	4	Cut Sheet 15	72	0.29	NONE						4	Cut Sheet 3	48	0.19	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	224
13	Retrofit	1071 Homestead Rd	All	Office	Other	Interior	Education - Primary School		Cooled Space	3	Cut Sheet 15	72	0.22	NONE						3	Cut Sheet 16	65	0.20	No	NONE		0.02		57%	34%	12%	0%	0%	0.02		2,080	49
14	Retrofit	1071 Homestead Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	58	Cut Sheet 17	112	6.50	NONE						58	Cut Sheet 18	96	5.57	No	NONE		0.93		57%	34%	12%	0%	0%	0.71		2,080	2,162
15	Retrofit	1071 Homestead Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	177	Cut Sheet 19	144	25.49	NONE						177	Cut Sheet 18	96	16.99	No	NONE		8.50		57%	34%	12%	0%	0%	6.49		2,080	19,792
16	Retrofit	1071 Homestead Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	1	Cut Sheet 20	180	0.18	NONE						1	Cut Sheet 21	57	0.06	No	NONE		0.12		57%	34%	12%	0%	0%	0.09		2,080	287
17	Retrofit	1071 Homestead Rd	All	Gymnasium	Other	Interior	Education - Primary School		Cooled Space	8	MH400/1	458	3.66	NONE						8	Cut Sheet 22	192	1.54	No	NONE		2.13		57%	34%	12%	0%	0%	1.63		2,080	4,957
18	Retrofit	1071 Homestead Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	6	Cut Sheet 23	100	0.60	NONE						6	Cut Sheet 24	26	0.16	No	NONE		0.44		57%	34%	12%	0%	0%	0.34		2,080	1,034
19	Retrofit	1071 Homestead Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 25	150	0.30	NONE						2	Cut Sheet 26	42	0.08	No	NONE		0.22		57%	34%	12%	0%	0%	0.16		2,080	503
20	Retrofit	1071 Homestead Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 27	60	0.12	NONE						2	Cut Sheet 28	19	0.04	No	NONE		0.08		57%	34%	12%	0%	0%	0.06		2,080	191
21													0.00	NONE									0.00		NONE		0.00										0
22													0.00	NONE									0.00		NONE		0.00										0
23													0.00	NONE									0.00		NONE		0.00										0
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187													0.00	NONE									0.00		NONE		0.00										0
188													0.00	NONE									0.00		NONE		0.00										0
189													0.00	NONE									0.00		NONE		0.00										0
190													0.00	NONE									0.00		NONE		0.00										0

Lighting Form

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
191													0.00	NONE								0.00		NONE		0.00										0
192													0.00	NONE								0.00		NONE		0.00										0
193													0.00	NONE								0.00		NONE		0.00										0
194													0.00	NONE								0.00		NONE		0.00										0
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198													0.00	NONE								0.00		NONE		0.00										0
199													0.00	NONE								0.00		NONE		0.00										0
200													0.00	NONE								0.00		NONE		0.00										0
201													0.00	NONE								0.00		NONE		0.00										0
202													0.00	NONE								0.00		NONE		0.00										0
203													0.00	NONE								0.00		NONE		0.00										0
204													0.00	NONE								0.00		NONE		0.00										0
205													0.00	NONE								0.00		NONE		0.00										0
206													0.00	NONE								0.00		NONE		0.00										0
207													0.00	NONE								0.00		NONE		0.00										0
208													0.00	NONE								0.00		NONE		0.00										0
209													0.00	NONE								0.00		NONE		0.00										0
210													0.00	NONE								0.00		NONE		0.00										0
211													0.00	NONE								0.00		NONE		0.00										0
212													0.00	NONE								0.00		NONE		0.00										0
213													0.00	NONE								0.00		NONE		0.00										0
214													0.00	NONE								0.00		NONE		0.00										0
215													0.00	NONE								0.00		NONE		0.00										0
216													0.00	NONE								0.00		NONE		0.00										0
217													0.00	NONE								0.00		NONE		0.00										0
218													0.00	NONE								0.00		NONE		0.00										0
219													0.00	NONE								0.00		NONE		0.00										0
220													0.00	NONE								0.00		NONE		0.00										0
221													0.00	NONE								0.00		NONE		0.00										0
222													0.00	NONE								0.00		NONE		0.00										0
223													0.00	NONE								0.00		NONE		0.00										0
224													0.00	NONE								0.00		NONE		0.00										0
225													0.00	NONE								0.00		NONE		0.00										0
226													0.00	NONE								0.00		NONE		0.00										0
227													0.00	NONE								0.00		NONE		0.00										0
228													0.00	NONE								0.00		NONE		0.00										0
229													0.00	NONE								0.00		NONE		0.00										0
230													0.00	NONE								0.00		NONE		0.00										0
231													0.00	NONE								0.00		NONE		0.00										0
232													0.00	NONE								0.00		NONE		0.00										0
233													0.00	NONE								0.00		NONE		0.00										0
234													0.00	NONE								0.00		NONE		0.00										0
235													0.00	NONE								0.00		NONE		0.00										0
236													0.00	NONE								0.00		NONE		0.00										0
237													0.00	NONE								0.00		NONE		0.00										0
238													0.00	NONE								0.00		NONE		0.00										0
239													0.00	NONE								0.00		NONE		0.00										0
240													0.00	NONE								0.00		NONE		0.00										0
241													0.00	NONE								0.00		NONE		0.00										0
242													0.00	NONE								0.00		NONE		0.00										0
243													0.00	NONE								0.00		NONE		0.00										0
244													0.00	NONE								0.00		NONE		0.00										0
245													0.00	NONE								0.00		NONE		0.00										0
246													0.00	NONE								0.00		NONE		0.00										0
247													0.00	NONE								0.00		NONE		0.00										0
248													0.00	NONE								0.00		NONE		0.00										0
249													0.00	NONE								0.00		NONE		0.00										0
250													0.00	NONE								0.00		NONE		0.00										0
Totals										416			50.07						412			32.32				17.75							13.56		2,080	41,353

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	41,353
Total Change in Connected Load	17.75

Annual Estimated Cost Savings	$4,135.30
Annual Operating Hours	2,080

Interior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$2,067.65
Exterior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$0.00
Total retrofit CFL Incentive @ $1/screw-in CFL lamp; $15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	$0.00
Total retrofit LED Exit Incentive @ $10/exit sign	$0.00
Total Lighting Controls Incentive @ $25/occupancy sensor and $25/daylight sensor (includes all Lighting Controls, both interior and exterior)	$0.00

Total Calculated Incentive	$2,067.65

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	412
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type “Other” indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	13.56

Exhibit 1

Customer Legal Entity Name: South Euclid - Lyndhurst City School District

Site Address: Charles F Brush High School
Principal Address: 4875 Glenlyn Road

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Charles F Brush High School	Charles F Brush High School was completed August 2012 as an OFSC funded project. The change in lighting significally increased energy efficiency rates by replacing all T12 and Metal Halide fixture with T8 and incandescent fixtures.	0	June 2012 replacement of existing fixtures ceased when it was deteremined retrofit project was approved.	N/A

Exhibit 2

Customer Legal Entity Name: South Euclid - Lyndhurst City School District
Site Address: Charles F Brush High School
Principal Address: 4875 Glenlyn Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) *Note 1*
2011	23,904	23,904	23,904
2010	23,904	23,904	23,904
2009	24,690	24,690	24,690
Average	**24,166**	**24,166**	**24,166**

Project Number	Project Name	In-Service Date	Project Cost $	50% of Project Cost $	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) $	Eligible Rebate Amount (H) $ *Note 2*
1	**Charles F Brush High School**	**08/01/2012**	**$295,991**	**$147,996**	**290,841**	**290,841**	**-**	**$14,541**	**$10,906**
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	**$295,991**		**290,841**	**290,841**	**0**	**$14,541**	**$10,906**

Docket No. 13-0168
Site: 4875 Glenlyn Road

Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of $0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or $250,000 per project. The rebate also cannot exceed $500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost $/MWh (B)	Utility Avoided Cost $ (C)	Utility Cost $ (D)	Cash Rebate $ (E)	Administrator Variable Fee $ (F)	Total Utility Cost $ (G)	UCT (H)
1	291	$ 308	$ 89,660	$ 4,050	$10,906	$2,908	$ 17,864	**5.0**
Total	**291**	**$ 308**	**89,660**	**4,050**	**$10,906**	**$2,908**	**17,864**	**5.0**

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

South Euclid - Lyndhurst City School District ~ Charles F Brush High School
Docket No. 13-0168

Site: 4875 Glenlyn Road

Lighting Inventory Form

Applicant Name: South Euclid Lyndhurst

Facility Name: Charles F Brush High School

Date: 4/9/2013

Lighting Zone (exterior only): Lighting Zone 3

Instructions: Please use one line for each fixture type in a room or area

For existing or proposed control, choose OCC for Occupany Sensor, DAY for photosensor, Hi-Lo for bi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)				POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.		Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
e.g.	*Retrofit*	*400 North Street*	*2*	*Office*	*Other*	*Interior*	*Office - Small*		*Cooled Space*	*3*	*F44ILL*	*112*	*0.34*	*NONE*						*3*	*CFT55/1-BX*	*56*	*0.17*	*No*	*OCC*	*3*	*0.17*	*84%*	*84%*	*34%*	*12%*	*0%*	*30%*	*0.19*	*2,808*	*3,435*	*646*
e.g.	*New Construction*	*Example*	*1*	*Restaurant*	*Conference, Meeting or Training Room*	*Exterior*	*Retail - Small*	*Builing facades (liner ft based)*	*Cooled Space*							*500*	*linear ft*	*3.8*	*1.88*	*5*	*Example Cut Sheet 2*	*25*	*0.13*	*Yes*	*DAY*	*5*	*1.75*	*88%*	*89%*	*34%*	*12%*	*0%*	*0%*	*2.09*	*8,760*	*3,068*	*6,013*
1	Retrofit	4875 Glenly Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	1	Cut Sheet 1	62	0.06	NONE						1	Cut Sheet 5	48	0.05	No	NONE		0.01		57%	34%	12%	0%	0%	0.01		2,080	33
2	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	17	Cut Sheet 2	72	1.22	NONE						17	Cut Sheet 5	48	0.82	No	NONE		0.41		57%	34%	12%	0%	0%	0.31		2,080	950
3	Retrofit	4875 Glenly Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	51	Cut Sheet 3	62	3.16	NONE						51	Cut Sheet 5	48	2.45	No	NONE		0.71		57%	34%	12%	0%	0%	0.55		2,080	1,663
4	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	46	Cut Sheet 4	72	3.31	NONE						46	Cut Sheet 5	48	2.21	No	NONE		1.10		57%	34%	12%	0%	0%	0.84		2,080	2,572
5	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	99	Cut Sheet 6	108	10.69	NONE						99	Cut Sheet 7	71	7.03	No	NONE		3.66		57%	34%	12%	0%	0%	2.80		2,080	8,533
6	Retrofit	4875 Glenly Road	All	Office	Other	Interior	Education - Secondary School		Cooled Space	2	Cut Sheet 8	112	0.22	NONE						2	Cut Sheet 9	96	0.19	No	NONE		0.03		57%	34%	12%	0%	0%	0.02		2,080	75
7	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	56	Cut Sheet 10	62	3.47	NONE						56	Cut Sheet 12	41	2.30	No	NONE		1.18		57%	34%	12%	0%	0%	0.90		2,080	2,740
8	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	7	Cut Sheet 11	72	0.50	NONE						7	Cut Sheet 12	41	0.29	No	NONE		0.22		57%	34%	12%	0%	0%	0.17		2,080	506
9	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	122	Cut Sheet 13	98	11.96	NONE						122	Cut Sheet 7	71	8.66	No	NONE		3.29		57%	34%	12%	0%	0%	2.52		2,080	7,674
10	Retrofit	4875 Glenly Road	All	School	Dressing, Locker or Fitting Room	Interior	Education - Secondary School		Cooled Space	33	Cut Sheet 15	62	2.05	NONE						33	Cut Sheet 5	48	1.58	No	NONE		0.46		57%	34%	12%	0%	0%	0.35		2,080	1,076
11	Retrofit	4875 Glenly Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	79	Cut Sheet 16	72	5.69	NONE						79	Cut Sheet 5	48	3.79	No	NONE		1.90		57%	34%	12%	0%	0%	1.45		2,080	4,417
12	Retrofit	4875 Glenly Road	All	Office	Other	Interior	Education - Secondary School		Cooled Space	111	Cut Sheet 16	72	7.99	NONE						111	Cut Sheet 5	48	5.33	No	NONE		2.66		57%	34%	12%	0%	0%	2.03		2,080	6,206
13	Retrofit	4875 Glenly Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	8	Cut Sheet 16	72	0.58	NONE						8	Cut Sheet 5	48	0.38	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
14	Retrofit	4875 Glenly Road	All	Library	Other	Interior	Education - Secondary School		Cooled Space	12	Cut Sheet 16	72	0.86	NONE						12	Cut Sheet 5	48	0.58	No	NONE		0.29		57%	34%	12%	0%	0%	0.22		2,080	671
15	Retrofit	4875 Glenly Road	All	Storage	Other	Interior	Education - Secondary School		Cooled Space	12	Cut Sheet 16	72	0.86	NONE						12	Cut Sheet 5	48	0.58	No	NONE		0.29		57%	34%	12%	0%	0%	0.22		2,080	671
16	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	177	Cut Sheet 16	72	12.74	NONE						177	Cut Sheet 5	48	8.50	No	NONE		4.25		57%	34%	12%	0%	0%	3.24		2,080	9,896
17	Retrofit	4875 Glenly Road	All	Offices	Other	Interior	Education - Secondary School		Cooled Space	52	Cut Sheet 17	98	5.10	NONE						52	Cut Sheet 20	48	2.50	No	NONE		2.60		57%	34%	12%	0%	0%	1.99		2,080	6,057
18	Retrofit	4875 Glenly Road	All	Storage	Other	Interior	Education - Secondary School		Cooled Space	16	Cut Sheet 17	98	1.57	NONE						16	Cut Sheet 20	48	0.77	No	NONE		0.80		57%	34%	12%	0%	0%	0.61		2,080	1,864
19	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	127	Cut Sheet 17	98	12.45	NONE						127	Cut Sheet 20	48	6.10	No	NONE		6.35		57%	34%	12%	0%	0%	4.85		2,080	14,793
20	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	188	Cut Sheet 18	112	21.06	NONE						188	Cut Sheet 20	48	9.02	No	NONE		12.03		57%	34%	12%	0%	0%	9.19		2,080	28,030
21	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	22	Cut Sheet 19	144	3.17	NONE						22	Cut Sheet 20	48	1.06	No	NONE		2.11		57%	34%	12%	0%	0%	1.61		2,080	4,920
22	Retrofit	4875 Glenly Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	3	Cut Sheet 21	43	0.13	NONE						3	Cut Sheet 23	27	0.08	No	NONE		0.05		57%	34%	12%	0%	0%	0.04		2,080	112
23	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	61	Cut Sheet 22	72	4.39	NONE						61	Cut Sheet 23	27	1.65	No	NONE		2.75		57%	34%	12%	0%	0%	2.10		2,080	6,395
24	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	15	Cut Sheet 24	72	1.08	NONE						15	Cut Sheet 25	27	0.41	No	NONE		0.68		57%	34%	12%	0%	0%	0.52		2,080	1,572
25	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	10	Cut Sheet 28	31	0.31	NONE						10	Cut Sheet 30	27	0.27	No	NONE		0.04		57%	34%	12%	0%	0%	0.03		2,080	93
26	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	23	Cut Sheet 29	43	0.99	NONE						23	Cut Sheet 30	27	0.62	No	NONE		0.37		57%	34%	12%	0%	0%	0.28		2,080	857
27	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	6	Cut Sheet 31	72	0.43	NONE						6	Cut Sheet 5	48	0.29	No	NONE		0.14		57%	34%	12%	0%	0%	0.11		2,080	335
28	Retrofit	4875 Glenly Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	23	Cut Sheet 32	58	1.33	NONE						23	Cut Sheet 5	48	1.10	No	NONE		0.23		57%	34%	12%	0%	0%	0.18		2,080	536
29	Retrofit	4875 Glenly Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	7	Cut Sheet 33	72	0.50	NONE						7	Cut Sheet 5	48	0.34	No	NONE		0.17		57%	34%	12%	0%	0%	0.13		2,080	391
30	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	12	Cut Sheet 34	32	0.38	NONE						12	Cut Sheet 25	27	0.32	No	NONE		0.06		57%	34%	12%	0%	0%	0.05		2,080	140
31	Retrofit	4875 Glenly Road	All	School	Conference, Meeting or Training Room	Interior	Education - Secondary School		Cooled Space	98	Cut Sheet 35	112	10.98	NONE						98	Cut Sheet 9	96	9.41	No	NONE		1.57		57%	34%	12%	0%	0%	1.20		2,080	3,653
32	Retrofit	4875 Glenly Road	All	Kitchen	Other	Interior	Education - Secondary School		Cooled Space	14	Cut Sheet 36	62	0.87	NONE						14	Cut Sheet 5	48	0.67	No	NONE		0.20		57%	34%	12%	0%	0%	0.15		2,080	457
33	Retrofit	4875 Glenly Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	70	Cut Sheet 36	62	4.34	NONE						70	Cut Sheet 5	48	3.36	No	NONE		0.98		57%	34%	12%	0%	0%	0.75		2,080	2,283
34	Retrofit	4875 Glenly Road	All	Offices	Other	Interior	Education - Secondary School		Cooled Space	30	Cut Sheet 36	62	1.86	NONE						30	Cut Sheet 5	48	1.44	No	NONE		0.42		57%	34%	12%	0%	0%	0.32		2,080	978
35	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	100	Cut Sheet 36	62	6.20	NONE						100	Cut Sheet 5	48	4.80	No	NONE		1.40		57%	34%	12%	0%	0%	1.07		2,080	3,261
36	Retrofit	4875 Glenly Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	10	Cut Sheet 36	62	0.62	NONE						10	Cut Sheet 5	48	0.48	No	NONE		0.14		57%	34%	12%	0%	0%	0.11		2,080	326
37	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	2	Cut Sheet 37	72	0.14	NONE						2	Cut Sheet 23	27	0.05	No	NONE		0.09		57%	34%	12%	0%	0%	0.07		2,080	210
38	Retrofit	4875 Glenly Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	6	Cut Sheet 37	72	0.43	NONE						6	Cut Sheet 9	96	0.58	No	NONE		-0.14		57%	34%	12%	0%	0%	-0.11		2,080	-335
39	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	81	Cut Sheet 37	72	5.83	NONE						81	Cut Sheet 5	48	3.89	No	NONE		1.94		57%	34%	12%	0%	0%	1.48		2,080	4,529
40	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	112	Cut Sheet 38	85	9.52	NONE						112	Cut Sheet 7	71	7.95	No	NONE		1.57		57%	34%	12%	0%	0%	1.20		2,080	3,653
41	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	12	Cut Sheet 39	144	1.73	NONE						12	Cut Sheet 9	96	1.15	No	NONE		0.58		57%	34%	12%	0%	0%	0.44		2,080	1,342
42	Retrofit	4875 Glenly Road	All	Storage	Other	Interior	Education - Secondary School		Cooled Space	19	Cut Sheet 40	72	1.37	NONE						19	Cut Sheet 41	48	0.91	No	NONE		0.46		57%	34%	12%	0%	0%	0.35		2,080	1,062
43	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	3	Cut Sheet 42	123	0.37	NONE						3	Cut Sheet 41	48	0.14	No	NONE		0.23		57%	34%	12%	0%	0%	0.17		2,080	524
44	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	192	Cut Sheet 43	144	27.65	NONE						192	Cut Sheet 41	48	9.22	No	NONE		18.43		57%	34%	12%	0%	0%	14.08		2,080	42,939
45	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	45	Cut Sheet 44	123	5.54	NONE						12	Cut Sheet 41	48	0.58	No	NONE		4.96		57%	34%	12%	0%	0%	3.79		2,080	11,552
46	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	54	Cut Sheet 46	144	7.78	NONE						54	Cut Sheet 47	96	5.18	No	NONE		2.59		57%	34%	12%	0%	0%	1.98		2,080	6,038
47	Retrofit	4875 Glenly Road	All	Storage	Other	Interior	Education - Secondary School		Cooled Space	3	Cut Sheet 48	72	0.22	NONE						3	Cut Sheet 5	48	0.14	No	NONE		0.07		57%	34%	12%	0%	0%	0.05		2,080	168
48	Retrofit	4875 Glenly Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	13	Cut Sheet 49	112	1.46	NONE						13	Cut Sheet 9	96	1.25	No	NONE		0.21		57%	34%	12%	0%	0%	0.16		2,080	485
49	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	95	Cut Sheet 49	112	10.64	NONE						95	Cut Sheet 9	96	9.12	No	NONE		1.52		57%	34%	12%	0%	0%	1.16		2,080	3,541
50	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	100	Cut Sheet 49	112	11.20	NONE						100	Cut Sheet 9	96	9.60	No	NONE		1.60		57%	34%	12%	0%	0%	1.22		2,080	3,727
51	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	280	Cut Sheet 50	144	40.32	NONE						280	Cut Sheet 9	96	26.88	No	NONE		13.44		57%	34%	12%	0%	0%	10.27		2,080	31,310
52													0.00	NONE									0.00		NONE		0.00										0
53													0.00	NONE									0.00		NONE		0.00										0
54													0.00	NONE									0.00		NONE		0.00										0
55													0.00	NONE									0.00		NONE		0.00										0
56													0.00	NONE									0.00		NONE		0.00										0
57													0.00	NONE									0.00		NONE		0.00										0
58													0.00	NONE									0.00		NONE		0.00										0
59													0.00	NONE									0.00		NONE		0.00										0
60													0.00	NONE									0.00		NONE		0.00										0
61													0.00	NONE									0.00		NONE		0.00										0
62													0.00	NONE									0.00		NONE		0.00										0
63													0.00	NONE									0.00		NONE		0.00										0
64													0.00	NONE									0.00		NONE		0.00										0
65													0.00	NONE									0.00		NONE		0.00										0
66													0.00	NONE									0.00		NONE		0.00										0
67													0.00	NONE									0.00		NONE		0.00										0
68													0.00	NONE									0.00		NONE		0.00										0
69													0.00	NONE									0.00		NONE		0.00										0
70													0.00	NONE									0.00		NONE		0.00										0
71													0.00	NONE									0.00		NONE		0.00										0
72													0.00	NONE									0.00		NONE		0.00										0
73													0.00	NONE									0.00		NONE		0.00										0
74													0.00	NONE									0.00		NONE		0.00										0
75													0.00	NONE									0.00		NONE		0.00										0
76													0.00	NONE									0.00		NONE		0.00										0
77													0.00	NONE									0.00		NONE		0.00										0
78													0.00	NONE									0.00		NONE		0.00										0
79													0.00	NONE									0.00		NONE		0.00										0
80													0.00	NONE									0.00		NONE		0.00										0
81													0.00	NONE									0.00		NONE		0.00										0
82													0.00	NONE									0.00		NONE		0.00										0
83													0.00	NONE									0.00		NONE		0.00										0
84													0.00	NONE									0.00		NONE		0.00										0
85													0.00	NONE									0.00		NONE		0.00										0
86													0.00	NONE									0.00		NONE		0.00										0
87													0.00	NONE									0.00		NONE		0.00										0
88													0.00	NONE									0.00		NONE		0.00										0
89													0.00	NONE									0.00		NONE		0.00										0
90													0.00	NONE									0.00		NONE		0.00										0
91													0.00	NONE									0.00		NONE		0.00										0
92													0.00	NONE									0.00		NONE		0.00										0
93													0.00	NONE									0.00		NONE		0.00										0
94													0.00	NONE									0.00		NONE		0.00										0
95													0.00	NONE									0.00		NONE		0.00										0
96													0.00	NONE									0.00		NONE		0.00										0
97													0.00	NONE									0.00		NONE		0.00										0
98													0.00	NONE									0.00		NONE		0.00										0
99													0.00	NONE									0.00		NONE		0.00										0
100													0.00	NONE									0.00		NONE		0.00										0
101													0.00	NONE									0.00		NONE		0.00										0
102													0.00	NONE									0.00		NONE		0.00										0
103													0.00	NONE									0.00		NONE		0.00										0
104													0.00	NONE									0.00		NONE		0.00										0
105													0.00	NONE									0.00		NONE		0.00										0
106													0.00	NONE									0.00		NONE		0.00										0
107													0.00	NONE									0.00		NONE		0.00										0
108													0.00	NONE									0.00		NONE		0.00										0
109													0.00	NONE									0.00		NONE		0.00										0
110													0.00	NONE									0.00		NONE		0.00										0
111													0.00	NONE									0.00		NONE		0.00										0
112													0.00	NONE									0.00		NONE		0.00										0
113													0.00	NONE									0.00		NONE		0.00										0
114													0.00	NONE									0.00		NONE		0.00										0
115													0.00	NONE									0.00		NONE		0.00										0
116													0.00	NONE									0.00		NONE		0.00										0
117													0.00	NONE									0.00		NONE		0.00										0
118													0.00	NONE									0.00		NONE		0.00										0
119													0.00	NONE									0.00		NONE		0.00										0
120													0.00	NONE									0.00		NONE		0.00										0
121													0.00	NONE									0.00		NONE		0.00										0
122													0.00	NONE									0.00		NONE		0.00										0
123													0.00	NONE									0.00		NONE		0.00										0
124													0.00	NONE									0.00		NONE		0.00										0
125													0.00	NONE									0.00		NONE		0.00										0
126													0.00	NONE									0.00		NONE		0.00										0
127													0.00	NONE									0.00		NONE		0.00										0
128													0.00	NONE									0.00		NONE		0.00										0
129													0.00	NONE									0.00		NONE		0.00										0
130													0.00	NONE									0.00		NONE		0.00										0
131													0.00	NONE									0.00		NONE		0.00										0
132													0.00	NONE									0.00		NONE		0.00										0
133													0.00	NONE									0.00		NONE		0.00										0
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135													0.00	NONE									0.00		NONE		0.00										0
136													0.00	NONE									0.00		NONE		0.00										0
137													0.00	NONE									0.00		NONE		0.00										0
138													0.00	NONE									0.00		NONE		0.00										0
139													0.00	NONE									0.00		NONE		0.00										0
140													0.00	NONE									0.00		NONE		0.00										0
141													0.00	NONE									0.00		NONE		0.00										0
142													0.00	NONE									0.00		NONE		0.00										0
143													0.00	NONE									0.00		NONE		0.00										0
144													0.00	NONE									0.00		NONE		0.00										0
145													0.00	NONE									0.00		NONE		0.00										0
146													0.00	NONE									0.00		NONE		0.00										0
147													0.00	NONE									0.00		NONE		0.00										0
148													0.00	NONE									0.00		NONE		0.00										0
149													0.00	NONE									0.00		NONE		0.00										0
150													0.00	NONE									0.00		NONE		0.00										0
151													0.00	NONE									0.00		NONE		0.00										0
152													0.00	NONE									0.00		NONE		0.00										0
153													0.00	NONE									0.00		NONE		0.00										0
154													0.00	NONE									0.00		NONE		0.00										0
155													0.00	NONE									0.00		NONE		0.00										0
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157													0.00	NONE									0.00		NONE		0.00										0
158													0.00	NONE									0.00		NONE		0.00										0
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162													0.00	NONE									0.00		NONE		0.00										0
163													0.00	NONE									0.00		NONE		0.00										0
164													0.00	NONE									0.00		NONE		0.00										0
165													0.00	NONE									0.00		NONE		0.00										0
166													0.00	NONE									0.00		NONE		0.00										0
167													0.00	NONE									0.00		NONE		0.00										0
168													0.00	NONE									0.00		NONE		0.00										0
169													0.00	NONE									0.00		NONE		0.00										0
170													0.00	NONE									0.00		NONE		0.00										0
171													0.00	NONE									0.00		NONE		0.00										0
172													0.00	NONE									0.00		NONE		0.00										0
173													0.00	NONE									0.00		NONE		0.00										0
174													0.00	NONE									0.00		NONE		0.00										0
175													0.00	NONE									0.00		NONE		0.00										0
176													0.00	NONE									0.00		NONE		0.00										0
177													0.00	NONE									0.00		NONE		0.00										0
178													0.00	NONE									0.00		NONE		0.00										0
179													0.00	NONE									0.00		NONE		0.00										0
180													0.00	NONE									0.00		NONE		0.00										0
181													0.00	NONE									0.00		NONE		0.00										0
182													0.00	NONE									0.00		NONE		0.00										0
183													0.00	NONE									0.00		NONE		0.00										0
184													0.00	NONE									0.00		NONE		0.00										0
185													0.00	NONE									0.00		NONE		0.00										0
186													0.00	NONE									0.00		NONE		0.00										0
187													0.00	NONE									0.00		NONE		0.00										0
188													0.00	NONE									0.00		NONE		0.00										0
189													0.00	NONE									0.00		NONE		0.00										0
190													0.00	NONE									0.00		NONE		0.00										0

PROJECT BASIC INFORMATION									
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling
191									
192									
193									
194									
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197									
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199									
200									
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249									
250									
Totals									

	PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION						
Line Item	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable
191				0.00	NONE								0.00		NONE	
192				0.00	NONE								0.00		NONE	
193				0.00	NONE								0.00		NONE	
194				0.00	NONE								0.00		NONE	
195				0.00	NONE								0.00		NONE	
196				0.00	NONE								0.00		NONE	
197				0.00	NONE								0.00		NONE	
198				0.00	NONE								0.00		NONE	
199				0.00	NONE								0.00		NONE	
200				0.00	NONE								0.00		NONE	
201				0.00	NONE								0.00		NONE	
202				0.00	NONE								0.00		NONE	
203				0.00	NONE								0.00		NONE	
204				0.00	NONE								0.00		NONE	
205				0.00	NONE								0.00		NONE	
206				0.00	NONE								0.00		NONE	
207				0.00	NONE								0.00		NONE	
208				0.00	NONE								0.00		NONE	
209				0.00	NONE								0.00		NONE	
210				0.00	NONE								0.00		NONE	
211				0.00	NONE								0.00		NONE	
212				0.00	NONE								0.00		NONE	
213				0.00	NONE								0.00		NONE	
214				0.00	NONE								0.00		NONE	
215				0.00	NONE								0.00		NONE	
216				0.00	NONE								0.00		NONE	
217				0.00	NONE								0.00		NONE	
218				0.00	NONE								0.00		NONE	
219				0.00	NONE								0.00		NONE	
220				0.00	NONE								0.00		NONE	
221				0.00	NONE								0.00		NONE	
222				0.00	NONE								0.00		NONE	
223				0.00	NONE								0.00		NONE	
224				0.00	NONE								0.00		NONE	
225				0.00	NONE								0.00		NONE	
226				0.00	NONE								0.00		NONE	
227				0.00	NONE								0.00		NONE	
228				0.00	NONE								0.00		NONE	
229				0.00	NONE								0.00		NONE	
230				0.00	NONE								0.00		NONE	
231				0.00	NONE								0.00		NONE	
232				0.00	NONE								0.00		NONE	
233				0.00	NONE								0.00		NONE	
234				0.00	NONE								0.00		NONE	
235				0.00	NONE								0.00		NONE	
236				0.00	NONE								0.00		NONE	
237				0.00	NONE								0.00		NONE	
238				0.00	NONE								0.00		NONE	
239				0.00	NONE								0.00		NONE	
240				0.00	NONE								0.00		NONE	
241				0.00	NONE								0.00		NONE	
242				0.00	NONE								0.00		NONE	
243				0.00	NONE								0.00		NONE	
244				0.00	NONE								0.00		NONE	
245				0.00	NONE								0.00		NONE	
246				0.00	NONE								0.00		NONE	
247				0.00	NONE								0.00		NONE	
248				0.00	NONE								0.00		NONE	
249				0.00	NONE								0.00		NONE	
250				0.00	NONE								0.00		NONE	
Totals	2,737			267.32						2,704			166.04			

	Energy Calculations										
Line Item	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
191	0.00										0
192	0.00										0
193	0.00										0
194	0.00										0
195	0.00										0
196	0.00										0
197	0.00										0
198	0.00										0
199	0.00										0
200	0.00										0
201	0.00										0
202	0.00										0
203	0.00										0
204	0.00										0
205	0.00										0
206	0.00										0
207	0.00										0
208	0.00										0
209	0.00										0
210	0.00										0
211	0.00										0
212	0.00										0
213	0.00										0
214	0.00										0
215	0.00										0
216	0.00										0
217	0.00										0
218	0.00										0
219	0.00										0
220	0.00										0
221	0.00										0
222	0.00										0
223	0.00										0
224	0.00										0
225	0.00										0
226	0.00										0
227	0.00										0
228	0.00										0
229	0.00										0
230	0.00										0
231	0.00										0
232	0.00										0
233	0.00										0
234	0.00										0
235	0.00										0
236	0.00										0
237	0.00										0
238	0.00										0
239	0.00										0
240	0.00										0
241	0.00										0
242	0.00										0
243	0.00										0
244	0.00										0
245	0.00										0
246	0.00										0
247	0.00										0
248	0.00										0
249	0.00										0
250	0.00										0
Totals	101.27							77.35		2,080	235,928

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	235,928
Total Change in Connected Load	101.27

Annual Estimated Cost Savings	$23,592.80
Annual Operating Hours	2,080

Interior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$11,796.40
Exterior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$0.00
Total retrofit CFL Incentive @ $1/screw-in CFL lamp; $15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	$0.00
Total retrofit LED Exit Incentive @ $10/exit sign	$0.00
Total Lighting Controls Incentive @ $25/occupancy sensor and $25/daylight sensor (includes all Lighting Controls, both interior and exterior)	$0.00

Total Calculated Incentive	$11,796.40

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	2704
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type “Other” indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	77.35

Lighting Inventory Form

Applicant Name: South Euclid Lyndhurst
Facility Name: Charles F Brush High School
Date: 4/9/2013
Lighting Zone (exterior only): Lighting Zone 3

Instructions: Please use one line for each fixture type in a room or area
For existing or proposed control, choose OCC for Occupany Sensor, DAY for photosensor, Hi-Lo for bi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.
The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)					
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable
e.g.	Retrofit	400 North Street	2	Office	Other	Interior	Office - Small		Cooled Space	3	F44ILL	112	0.34	NONE	
e.g.	New Construction	Example	1	Restaurant	Conference, Meeting or Training Room	Exterior	Retail - Small	Builing facades (liner ft based)	Cooled Space						
1	Retrofit	4875 Glenly Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	2	Cut Sheet 1	120	0.24	NONE	
2	Retrofit	4875 Glenly Road	All	Gymnasium	Other	Interior	Education - Secondary School		Cooled Space	25	MH250/1	295	7.38	NONE	
3	Retrofit	4875 Glenly Road	All	Gymnasium	Other	Interior	Education - Secondary School		Cooled Space	64	MH400/1	458	29.31	NONE	
4	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	20	Cut Sheet 5	100	2.00	NONE	
5	Retrofit	4875 Glenly Road	All	Stage	Other	Interior	Education - Secondary School		Cooled Space	4	Cut Sheet 7	150	0.60	NONE	
6	Retrofit	4875 Glenly Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	7	Cut Sheet 9	75	0.53	NONE	
7													0.00	NONE	
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	BASELINE (NEW CONSTRUCTION)				POST-INSTALLATION							Energy Calculations										
Line Item	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.		Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
e.g.					3	CFT55/1-BX	56	0.17	No	OCC	3	0.17	84%	84%	34%	12%	0%	30%	0.19	2,808	3,435	646
e.g.	500	linear ft	3.8	1.88	5	Example Cut Sheet 2	25	0.13	Yes	DAY	5	1.75	88%	89%	34%	12%	0%	0%	2.09	8,760	3,068	6,013
1					2	Cut Sheet 2	38	0.08	No	NONE		0.16		57%	34%	12%	0%	0%	0.13		2,080	382
2					25	Cut Sheet 3	131	3.28	No	NONE		4.10		57%	34%	12%	0%	0%	3.13		2,080	9,551
3					64	Cut Sheet 4	192	12.29	No	NONE		17.02		57%	34%	12%	0%	0%	13.00		2,080	39,659
4					20	Cut Sheet 6	27	0.54	No	NONE		1.46		57%	34%	12%	0%	0%	1.12		2,080	3,401
5					4	Cut Sheet 8	42	0.17	No	NONE		0.43		57%	34%	12%	0%	0%	0.33		2,080	1,006
6					7	Cut Sheet 10	19	0.13	No	NONE		0.39		57%	34%	12%	0%	0%	0.30		2,080	913
7								0.00		NONE		0.00										0
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9								0.00		NONE		0.00										0
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190								0.00		NONE		0.00										0

	PROJECT BASIC INFORMATION									PRE-INSTALLATION (RETROFIT)					BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION							Energy Calculations								
Table Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity (where applicable)	Units e.g. Square Feet (pf) If multiple fixture types are used, please only enter the total area/dimension/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts / Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity (where applicable)	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full-Load Hours (EFLH) Estimate	Prescribed Equivalent Full-Load Hours	Annual kWh Saved
181												0.00	0.00	NONE							0.00		NONE		0.00								0
182												0.00	0.00	NONE							0.00		NONE		0.00								0
183												0.00	0.00	NONE							0.00		NONE		0.00								0
184												0.00	0.00	NONE							0.00		NONE		0.00								0
185												0.00	0.00	NONE							0.00		NONE		0.00								0
186												0.00	0.00	NONE							0.00		NONE		0.00								0
187												0.00	0.00	NONE							0.00		NONE		0.00								0
188												0.00	0.00	NONE							0.00		NONE		0.00								0
189												0.00	0.00	NONE							0.00		NONE		0.00								0
190												0.00	0.00	NONE							0.00		NONE		0.00								0
191												0.00	0.00	NONE							0.00		NONE		0.00								0
192												0.00	0.00	NONE							0.00		NONE		0.00								0
193												0.00	0.00	NONE							0.00		NONE		0.00								0
194												0.00	0.00	NONE							0.00		NONE		0.00								0
195												0.00	0.00	NONE							0.00		NONE		0.00								0
196												0.00	0.00	NONE							0.00		NONE		0.00								0
197												0.00	0.00	NONE							0.00		NONE		0.00								0
198												0.00	0.00	NONE							0.00		NONE		0.00								0
199												0.00	0.00	NONE							0.00		NONE		0.00								0
200												0.00	0.00	NONE							0.00		NONE		0.00								0
201												0.00	0.00	NONE							0.00		NONE		0.00								0
202												0.00	0.00	NONE							0.00		NONE		0.00								0
203												0.00	0.00	NONE							0.00		NONE		0.00								0
204												0.00	0.00	NONE							0.00		NONE		0.00								0
205												0.00	0.00	NONE							0.00		NONE		0.00								0
206												0.00	0.00	NONE							0.00		NONE		0.00								0
207												0.00	0.00	NONE							0.00		NONE		0.00								0
208												0.00	0.00	NONE							0.00		NONE		0.00								0
209												0.00	0.00	NONE							0.00		NONE		0.00								0
210												0.00	0.00	NONE							0.00		NONE		0.00								0
211												0.00	0.00	NONE							0.00		NONE		0.00								0
212												0.00	0.00	NONE							0.00		NONE		0.00								0
213												0.00	0.00	NONE							0.00		NONE		0.00								0
214												0.00	0.00	NONE							0.00		NONE		0.00								0
215												0.00	0.00	NONE							0.00		NONE		0.00								0
216												0.00	0.00	NONE							0.00		NONE		0.00								0
217												0.00	0.00	NONE							0.00		NONE		0.00								0
218												0.00	0.00	NONE							0.00		NONE		0.00								0
219												0.00	0.00	NONE							0.00		NONE		0.00								0
220												0.00	0.00	NONE							0.00		NONE		0.00								0
221												0.00	0.00	NONE							0.00		NONE		0.00								0
222												0.00	0.00	NONE							0.00		NONE		0.00								0
223												0.00	0.00	NONE							0.00		NONE		0.00								0
224												0.00	0.00	NONE							0.00		NONE		0.00								0
225												0.00	0.00	NONE							0.00		NONE		0.00								0
226												0.00	0.00	NONE							0.00		NONE		0.00								0
227												0.00	0.00	NONE							0.00		NONE		0.00								0
228												0.00	0.00	NONE							0.00		NONE		0.00								0
229												0.00	0.00	NONE							0.00		NONE		0.00								0
230												0.00	0.00	NONE							0.00		NONE		0.00								0
231												0.00	0.00	NONE							0.00		NONE		0.00								0
232												0.00	0.00	NONE							0.00		NONE		0.00								0
233												0.00	0.00	NONE							0.00		NONE		0.00								0
234												0.00	0.00	NONE							0.00		NONE		0.00								0
235												0.00	0.00	NONE							0.00		NONE		0.00								0
236												0.00	0.00	NONE							0.00		NONE		0.00								0
237												0.00	0.00	NONE							0.00		NONE		0.00								0
238												0.00	0.00	NONE							0.00		NONE		0.00								0
239												0.00	0.00	NONE							0.00		NONE		0.00								0
240												0.00	0.00	NONE							0.00		NONE		0.00								0
241												0.00	0.00	NONE							0.00		NONE		0.00								0
242												0.00	0.00	NONE							0.00		NONE		0.00								0
243												0.00	0.00	NONE							0.00		NONE		0.00								0
244												0.00	0.00	NONE							0.00		NONE		0.00								0
245												0.00	0.00	NONE							0.00		NONE		0.00								0
246												0.00	0.00	NONE							0.00		NONE		0.00								0
247												0.00	0.00	NONE							0.00		NONE		0.00								0
248												0.00	0.00	NONE							0.00		NONE		0.00								0
249												0.00	0.00	NONE							0.00		NONE		0.00								0
250												0.00	0.00	NONE							0.00		NONE		0.00								0
Totals										122			69.06						122			16.48			21.57					10.00		2,885	54,913

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	54,913
Total Change in Connected Load	23.57

Annual Estimated Cost Savings	$5,491.30
Annual Operating Hours	2,080

Interior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$2,745.65
Exterior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$0.00
Total retrofit CFL Incentive @ $1/screw-in CFL lamp; $15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	$0.00
Total retrofit LED Exit Incentive @ $10/exit sign	$0.00
Total Lighting Controls Incentive @ $25/occupancy sensor and $25/daylight sensor (includes all Lighting Controls, both interior and exterior)	$0.00

Total Calculated Incentive	$2,745.65

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	122
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type “Other” indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	18.00

Exhibit 1

Customer Legal Entity Name: South Euclid-Lyndhurst City School District

Site Address: Greenview Upper Elementary
Principal Address: 1825 South Green Road

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Greenview Elementary Lighting Retrofit	Greenview Elementary was completed August 2012 as an OFSC funded project. The change in lighting significally increased energy efficiency rates by replacing all T12 and Metal Halide fixture with T8 and incandescent fixtures.	See lighting calculator	June 2012 replacement of existing fixtures ceased when it was deteremined retrofit project was approved.	N/A

Exhibit 2

Customer Legal Entity Name: South Euclid-Lyndhurst City School District
Site Address: Greenview Upper Elementary
Principal Address: 1825 South Green Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) *Note 1*
2011	1,069,537	1,069,537	1,069,537
2010	1,125,889	1,125,889	1,125,889
2009	1,417,571	1,417,571	1,417,571
Average	**1,204,332**	**1,204,332**	**1,204,332**

Project Number	Project Name	In-Service Date	Project Cost $	50% of Project Cost $	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) $	Eligible Rebate Amount (H) $ *Note 2*
1	Greenview Elementary Lighting Retrofit	08/01/2012	$282,804	$141,402	219,858	219,858	-	$10,992	$8,244
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	**$282,804**		**219,858**	**219,858**	**0**	**$10,992**	**$8,244**

Docket No. 13-0168
Site: 1825 South Green Road

Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of $0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or $250,000 per project. The rebate also cannot exceed $500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost $/MWh (B)	Utility Avoided Cost $ (C)	Utility Cost $ (D)	Cash Rebate $ (E)	Administrator Variable Fee $ (F)	Total Utility Cost $ (G)	UCT (H)
1	220	$ 308	$ 67,778	$ 4,050	$8,244	$2,199	$ 14,493	**4.7**
Total	**220**	**$ 308**	**67,778**	**4,050**	**$8,244**	**$2,199**	**14,493**	**4.7**

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

South Euclid-Lyndhurst City School District ~ Greenview Upper Elementary
Docket No. 13-0168

Site: 1825 South Green Road

Lighting Inventory Form

Applicant Name: South Euclid Lyndhurst

Facility Name: Greenview Elementary

Date: 4/8/2013

Lighting Zone (exterior only): Lighting Zone 3

Instructions: Please use one line for each fixture type in a room or area

For existing or proposed control, choose OCC for Occupany Sensor, DAY for photosensor, Hi-Lo for bi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)				POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.		Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
e.g.	*Retrofit*	*400 North Street*	*2*	*Office*	*Other*	*Interior*	*Office - Small*		*Cooled Space*	*3*	*F44ILL*	*112*	*0.34*	*NONE*						*3*	*CFT55/1-BX*	*56*	*0.17*	*No*	*OCC*	*3*	*0.17*	*84%*	*84%*	*34%*	*12%*	*0%*	*30%*	*0.19*	*2,808*	*3,435*	*646*
e.g.	*New Construction*	*Example*	*1*	*Restaurant*	*Conference, Meeting or Training Room*	*Exterior*	*Retail - Small*	*Builing facades (liner ft based)*	*Cooled Space*							*500*	*linear ft*	*3.8*	*1.88*	*5*	*Example Cut Sheet 2*	*25*	*0.13*	*Yes*	*DAY*	*5*	*1.75*	*88%*	*89%*	*34%*	*12%*	*0%*	*0%*	*2.09*	*8,760*	*3,068*	*6,013*
1	Retrofit	1825 South Green Rd	All	Hallways	Other	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 1	72	0.86	NONE						12	Cut Sheet 2	48	0.58	No	NONE		0.29		57%	34%	12%	0%	0%	0.22		2,080	671
2	Retrofit	1825 South Green Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	6	Cut Sheet 3	62	0.37	NONE						6	Cut Sheet 2	48	0.29	No	NONE		0.08		57%	34%	12%	0%	0%	0.06		2,080	196
3	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	33	Cut Sheet 4	72	2.38	NONE						33	Cut Sheet 2	48	1.58	No	NONE		0.79		57%	34%	12%	0%	0%	0.60		2,080	1,845
4	Retrofit	1825 South Green Rd	All	Hallways	Other	Interior	Education - Primary School		Cooled Space	28	Cut Sheet 4	72	2.02	NONE						28	Cut Sheet 5	65	1.82	No	NONE		0.20		57%	34%	12%	0%	0%	0.15		2,080	457
5	Retrofit	1825 South Green Rd	All	Hallways	Other	Interior	Education - Primary School		Cooled Space	42	Cut Sheet 4	72	3.02	NONE						42	Cut Sheet 2	48	2.02	No	NONE		1.01		57%	34%	12%	0%	0%	0.77		2,080	2,348
6	Retrofit	1825 South Green Rd	All	Offices	Other	Interior	Education - Primary School		Cooled Space	4	Cut Sheet 4	72	0.29	NONE						4	Cut Sheet 2	48	0.19	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	224
7	Retrofit	1825 South Green Rd	All	Kitchen	Other	Interior	Education - Primary School		Cooled Space	9	Cut Sheet 4	72	0.65	NONE						9	Cut Sheet 2	48	0.43	No	NONE		0.22		57%	34%	12%	0%	0%	0.16		2,080	503
8	Retrofit	1825 South Green Rd	All	Library	Other	Interior	Education - Primary School		Cooled Space	53	Cut Sheet 4	72	3.82	NONE						53	Cut Sheet 2	48	2.54	No	NONE		1.27		57%	34%	12%	0%	0%	0.97		2,080	2,963
9	Retrofit	1825 South Green Rd	All	Hallways	Other	Interior	Education - Primary School		Cooled Space	35	Cut Sheet 4	72	2.52	NONE						35	Cut Sheet 5	65	2.28	No	NONE		0.25		57%	34%	12%	0%	0%	0.19		2,080	571
10	Retrofit	1825 South Green Rd	All	Lobby	Other	Interior	Education - Primary School		Cooled Space	10	Cut Sheet 4	72	0.72	NONE						10	Cut Sheet 2	48	0.48	No	NONE		0.24		57%	34%	12%	0%	0%	0.18		2,080	559
11	Retrofit	1825 South Green Rd	All	Serving	Other	Interior	Education - Primary School		Cooled Space	87	Cut Sheet 4	72	6.26	NONE						87	Cut Sheet 2	48	4.18	No	NONE		2.09		57%	34%	12%	0%	0%	1.59		2,080	4,864
12	Retrofit	1825 South Green Rd	All	Office	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 4	72	0.14	NONE						2	Cut Sheet 2	48	0.10	No	NONE		0.05		57%	34%	12%	0%	0%	0.04		2,080	112
13	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 4	72	0.14	NONE						2	Cut Sheet 2	48	0.10	No	NONE		0.05		57%	34%	12%	0%	0%	0.04		2,080	112
14	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	1	Cut Sheet 6	62	0.06	NONE						1	Cut Sheet 7	41	0.04	No	NONE		0.02		57%	34%	12%	0%	0%	0.02		2,080	49
15	Retrofit	1825 South Green Rd	All	Lobby	Other	Interior	Education - Primary School		Cooled Space	16	Cut Sheet 8	144	2.30	NONE						16	Cut Sheet 9	48	0.77	No	NONE		1.54		57%	34%	12%	0%	0%	1.17		2,080	3,578
16	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 10	98	1.18	NONE						12	Cut Sheet 9	48	0.58	No	NONE		0.60		57%	34%	12%	0%	0%	0.46		2,080	1,398
17	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	95	Cut Sheet 10	98	9.31	NONE						95	Cut Sheet 11	71	6.75	No	NONE		2.57		57%	34%	12%	0%	0%	1.96		2,080	5,975
18	Retrofit	1825 South Green Rd	All	Storage	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 12	62	0.12	NONE						2	Cut Sheet 2	48	0.10	No	NONE		0.03		57%	34%	12%	0%	0%	0.02		2,080	65
19	Retrofit	1825 South Green Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	3	Cut Sheet 12	62	0.19	NONE						3	Cut Sheet 2	48	0.14	No	NONE		0.04		57%	34%	12%	0%	0%	0.03		2,080	98
20	Retrofit	1825 South Green Rd	All	Hallways	Other	Interior	Education - Primary School		Cooled Space	96	Cut Sheet 12	62	5.95	NONE						96	Cut Sheet 2	48	4.61	No	NONE		1.34		57%	34%	12%	0%	0%	1.03		2,080	3,131
21	Retrofit	1825 South Green Rd	All	Office	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 12	62	0.12	NONE						2	Cut Sheet 2	48	0.10	No	NONE		0.03		57%	34%	12%	0%	0%	0.02		2,080	65
22	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	270	Cut Sheet 13	98	26.46	NONE						270	Cut Sheet 9	48	12.96	No	NONE		13.50		57%	34%	12%	0%	0%	10.31		2,080	31,450
23	Retrofit	1825 South Green Rd	All	Offices	Other	Interior	Education - Primary School		Cooled Space	50	Cut Sheet 13	98	4.90	NONE						50	Cut Sheet 9	48	2.40	No	NONE		2.50		57%	34%	12%	0%	0%	1.91		2,080	5,824
24	Retrofit	1825 South Green Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	6	Cut Sheet 13	98	0.59	NONE						6	Cut Sheet 9	48	0.29	No	NONE		0.30		57%	34%	12%	0%	0%	0.23		2,080	699
25	Retrofit	1825 South Green Rd	All	Cafeteria	Other	Interior	Education - Primary School		Cooled Space	34	Cut Sheet 14	112	3.81	NONE						34	Cut Sheet 9	48	1.63	No	NONE		2.18		57%	34%	12%	0%	0%	1.66		2,080	5,069
26	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	38	Cut Sheet 14	112	4.26	NONE						38	Cut Sheet 9	48	1.82	No	NONE		2.43		57%	34%	12%	0%	0%	1.86		2,080	5,666
27	Retrofit	1825 South Green Rd	All	Library	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 15	144	0.29	NONE						2	Cut Sheet 9	48	0.10	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
28	Retrofit	1825 South Green Rd	All	Office	Other	Interior	Education - Primary School		Cooled Space	8	Cut Sheet 16	36	0.29	NONE						8	Cut Sheet 17	27	0.22	No	NONE		0.07		57%	34%	12%	0%	0%	0.05		2,080	168
29	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 16	36	0.07	NONE						2	Cut Sheet 17	27	0.05	No	NONE		0.02		57%	34%	12%	0%	0%	0.01		2,080	42
30	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	53	Cut Sheet 18	72	3.82	NONE						53	Cut Sheet 17	27	1.43	No	NONE		2.39		57%	34%	12%	0%	0%	1.82		2,080	5,556
31	Retrofit	1825 South Green Rd	All	Storage	Other	Interior	Education - Primary School		Cooled Space	33	Cut Sheet 18	72	2.38	NONE						33	Cut Sheet 17	27	0.89	No	NONE		1.49		57%	34%	12%	0%	0%	1.13		2,080	3,459
32	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	14	Cut Sheet 18	72	1.01	NONE						14	Cut Sheet 2	48	0.67	No	NONE		0.34		57%	34%	12%	0%	0%	0.26		2,080	783
33	Retrofit	1825 South Green Rd	All	Storage	Other	Interior	Education - Primary School		Cooled Space	41	Cut Sheet 20	43	1.76	NONE						41	Cut Sheet 21	27	1.11	No	NONE		0.66		57%	34%	12%	0%	0%	0.50		2,080	1,528
34	Retrofit	1825 South Green Rd	All	Display Case	Other	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 20	43	0.52	NONE						12	Cut Sheet 21	27	0.32	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
35	Retrofit	1825 South Green Rd	All	Library	Other	Interior	Education - Primary School		Cooled Space	29	Cut Sheet 20	43	1.25	NONE						29	Cut Sheet 21	27	0.78	No	NONE		0.46		57%	34%	12%	0%	0%	0.35		2,080	1,081
36	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	32	Cut Sheet 20	43	1.38	NONE						32	Cut Sheet 21	27	0.86	No	NONE		0.51		57%	34%	12%	0%	0%	0.39		2,080	1,193
37	Retrofit	1825 South Green Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 20	43	0.52	NONE						12	Cut Sheet 21	27	0.32	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
38	Retrofit	1825 South Green Rd	All	School	torage or Supply Room Between 50 ft^2 and 1,000 f	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 22	62	0.12	NONE						2	Cut Sheet 2	48	0.10	No	NONE		0.03		57%	34%	12%	0%	0%	0.02		2,080	65
39	Retrofit	1825 South Green Rd	All	Display Case	Other	Interior	Education - Primary School		Cooled Space	8	Cut Sheet 23	72	0.58	NONE						8	Cut Sheet 2	48	0.38	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
40	Retrofit	1825 South Green Rd	All	School	torage or Supply Room Between 50 ft^2 and 1,000 f	Interior	Education - Primary School		Cooled Space	3	Cut Sheet 23	72	0.22	NONE						3	Cut Sheet 2	48	0.14	No	NONE		0.07		57%	34%	12%	0%	0%	0.05		2,080	168
41	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	5	Cut Sheet 47	72	0.36	NONE						5	Cut Sheet 2	48	0.24	No	NONE		0.12		57%	34%	12%	0%	0%	0.09		2,080	280
42	Retrofit	1825 South Green Rd	All	Lobby	Other	Interior	Education - Primary School		Cooled Space	25	Cut Sheet 24	112	2.80	NONE						25	Cut Sheet 25	96	2.40	No	NONE		0.40		57%	34%	12%	0%	0%	0.31		2,080	932
43	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	7	Cut Sheet 26	62	0.43	NONE						7	Cut Sheet 2	48	0.34	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	228
44	Retrofit	1825 South Green Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	15	Cut Sheet 27	72	1.08	NONE						15	Cut Sheet 2	48	0.72	No	NONE		0.36		57%	34%	12%	0%	0%	0.27		2,080	839
45	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	37	Cut Sheet 27	72	2.66	NONE						37	Cut Sheet 2	48	1.78	No	NONE		0.89		57%	34%	12%	0%	0%	0.68		2,080	2,069
46	Retrofit	1825 South Green Rd	All	Stairway	Other	Interior	Education - Primary School		Cooled Space	1	Cut Sheet 28	144	0.14	NONE						1	Cut Sheet 25	96	0.10	No	NONE		0.05		57%	34%	12%	0%	0%	0.04		2,080	112
47	Retrofit	1825 South Green Rd	All	Library	Other	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 29	230	2.76	NONE						12	Cut Sheet 30	192	2.30	No	NONE		0.46		57%	34%	12%	0%	0%	0.35		2,080	1,062
48	Retrofit	1825 South Green Rd	All	Offices	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 31	83	0.17	NONE						2	Cut Sheet 32	48	0.10	No	NONE		0.07		57%	34%	12%	0%	0%	0.05		2,080	163
49	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	6	Cut Sheet 33	72	0.43	NONE						6	Cut Sheet 32	48	0.29	No	NONE		0.14		57%	34%	12%	0%	0%	0.11		2,080	335
50	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	3	Cut Sheet 34	123	0.37	NONE						3	Cut Sheet 32	48	0.14	No	NONE		0.23		57%	34%	12%	0%	0%	0.17		2,080	524
51	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	320	Cut Sheet 35	144	46.08	NONE						320	Cut Sheet 32	48	15.36	No	NONE		30.72		57%	34%	12%	0%	0%	23.46		2,080	71,565
52	Retrofit	1825 South Green Rd	All	Storage	Other	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 36	112	1.34	NONE						12	Cut Sheet 37	48	0.58	No	NONE		0.77		57%	34%	12%	0%	0%	0.59		2,080	1,789
53	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	1	Cut Sheet 38	144	0.14	NONE						1	Cut Sheet 37	48	0.05	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	224
54	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	10	Cut Sheet 39	83	0.83	NONE						10	Cut Sheet 37	48	0.48	No	NONE		0.35		57%	34%	12%	0%	0%	0.27		2,080	815
55	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	33	Cut Sheet 40	72	2.38	NONE						33	Cut Sheet 37	48	1.58	No	NONE		0.79		57%	34%	12%	0%	0%	0.60		2,080	1,845
56	Retrofit	1825 South Green Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	17	Cut Sheet 42	112	1.90	NONE						17	Cut Sheet 25	96	1.63	No	NONE		0.27		57%	34%	12%	0%	0%	0.21		2,080	634
57	Retrofit	1825 South Green Rd	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	11	Cut Sheet 43	144	1.58	NONE						11	Cut Sheet 25	96	1.06	No	NONE		0.53		57%	34%	12%	0%	0%	0.40		2,080	1,230
58	Retrofit	1825 South Green Rd	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	123	Cut Sheet 43	144	17.71	NONE						123	Cut Sheet 25	96	11.81	No	NONE		5.90		57%	34%	12%	0%	0%	4.51		2,080	13,754
59	Retrofit	1825 South Green Rd	All	Gymnasium	Other	Interior	Education - Primary School		Cooled Space	40	MH400/1	458	18.32	NONE						40	Cut Sheet 44	192	7.68	No	NONE		10.64		57%	34%	12%	0%	0%	8.13		2,080	24,787
60	Retrofit	1825 South Green Rd	All	School	Other	Interior	Education - Primary School		Cooled Space	21	Cut Sheet 45	75	1.58	NONE						21	Cut Sheet 46	27	0.57	No	NONE		1.01		57%	34%	12%	0%	0%	0.77		2,080	2,348
61													0.00	NONE									0.00		NONE		0.00										0
62													0.00	NONE									0.00		NONE		0.00										0
63													0.00	NONE									0.00		NONE		0.00										0
64													0.00	NONE									0.00		NONE		0.00										0
65													0.00	NONE									0.00		NONE		0.00										0
66													0.00	NONE									0.00		NONE		0.00										0
67													0.00	NONE									0.00		NONE		0.00										0
68													0.00	NONE									0.00		NONE		0.00										0
69													0.00	NONE									0.00		NONE		0.00										0
70													0.00	NONE									0.00		NONE		0.00										0
71													0.00	NONE									0.00		NONE		0.00										0
72													0.00	NONE									0.00		NONE		0.00										0
73													0.00	NONE									0.00		NONE		0.00										0
74													0.00	NONE									0.00		NONE		0.00										0
75													0.00	NONE									0.00		NONE		0.00										0
76													0.00	NONE									0.00		NONE		0.00										0
77													0.00	NONE									0.00		NONE		0.00										0
78													0.00	NONE									0.00		NONE		0.00										0
79													0.00	NONE									0.00		NONE		0.00										0
80													0.00	NONE									0.00		NONE		0.00										0
81													0.00	NONE									0.00		NONE		0.00										0
82													0.00	NONE									0.00		NONE		0.00										0
83													0.00	NONE									0.00		NONE		0.00										0
84													0.00	NONE									0.00		NONE		0.00										0
85													0.00	NONE									0.00		NONE		0.00										0
86													0.00	NONE									0.00		NONE		0.00										0
87													0.00	NONE									0.00		NONE		0.00										0
88													0.00	NONE									0.00		NONE		0.00										0
89													0.00	NONE									0.00		NONE		0.00										0
90													0.00	NONE									0.00		NONE		0.00										0
91													0.00	NONE									0.00		NONE		0.00										0
92													0.00	NONE									0.00		NONE		0.00										0
93													0.00	NONE									0.00		NONE		0.00										0
94													0.00	NONE									0.00		NONE		0.00										0
95													0.00	NONE									0.00		NONE		0.00										0
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97													0.00	NONE									0.00		NONE		0.00										0
98													0.00	NONE									0.00		NONE		0.00										0
99													0.00	NONE									0.00		NONE		0.00										0
100													0.00	NONE									0.00		NONE		0.00										0
101													0.00	NONE									0.00		NONE		0.00										0
102													0.00	NONE									0.00		NONE		0.00										0
103													0.00	NONE									0.00		NONE		0.00										0
104													0.00	NONE									0.00		NONE		0.00										0
105													0.00	NONE									0.00		NONE		0.00										0
106													0.00	NONE									0.00		NONE		0.00										0
107													0.00	NONE									0.00		NONE		0.00										0
108													0.00	NONE									0.00		NONE		0.00										0
109													0.00	NONE									0.00		NONE		0.00										0
110													0.00	NONE									0.00		NONE		0.00										0
111													0.00	NONE									0.00		NONE		0.00										0
112													0.00	NONE									0.00		NONE		0.00										0
113													0.00	NONE									0.00		NONE		0.00										0
114													0.00	NONE									0.00		NONE		0.00										0
115													0.00	NONE									0.00		NONE		0.00										0
116													0.00	NONE									0.00		NONE		0.00										0
117													0.00	NONE									0.00		NONE		0.00										0
118													0.00	NONE									0.00		NONE		0.00										0
119													0.00	NONE									0.00		NONE		0.00										0
120													0.00	NONE									0.00		NONE		0.00										0
121													0.00	NONE									0.00		NONE		0.00										0
122													0.00	NONE									0.00		NONE		0.00										0
123													0.00	NONE									0.00		NONE		0.00										0
124													0.00	NONE									0.00		NONE		0.00										0
125													0.00	NONE									0.00		NONE		0.00										0
126													0.00	NONE									0.00		NONE		0.00										0
127													0.00	NONE									0.00		NONE		0.00										0
128													0.00	NONE									0.00		NONE		0.00										0
129													0.00	NONE									0.00		NONE		0.00										0
130													0.00	NONE									0.00		NONE		0.00										0
131													0.00	NONE									0.00		NONE		0.00										0
132													0.00	NONE									0.00		NONE		0.00										0
133													0.00	NONE									0.00		NONE		0.00										0
134													0.00	NONE									0.00		NONE		0.00										0
135													0.00	NONE									0.00		NONE		0.00										0
136													0.00	NONE									0.00		NONE		0.00										0
137													0.00	NONE									0.00		NONE		0.00										0
138													0.00	NONE									0.00		NONE		0.00										0
139													0.00	NONE									0.00		NONE		0.00										0
140													0.00	NONE									0.00		NONE		0.00										0
141													0.00	NONE									0.00		NONE		0.00										0
142													0.00	NONE									0.00		NONE		0.00										0
143													0.00	NONE									0.00		NONE		0.00										0
144													0.00	NONE									0.00		NONE		0.00										0
145													0.00	NONE									0.00		NONE		0.00										0
146													0.00	NONE									0.00		NONE		0.00										0
147													0.00	NONE									0.00		NONE		0.00										0
148													0.00	NONE									0.00		NONE		0.00										0
149													0.00	NONE									0.00		NONE		0.00										0
150													0.00	NONE									0.00		NONE		0.00										0
151													0.00	NONE									0.00		NONE		0.00										0
152													0.00	NONE									0.00		NONE		0.00										0
153													0.00	NONE									0.00		NONE		0.00										0
154													0.00	NONE									0.00		NONE		0.00										0
155													0.00	NONE									0.00		NONE		0.00										0
156													0.00	NONE									0.00		NONE		0.00										0
157													0.00	NONE									0.00		NONE		0.00										0
158													0.00	NONE									0.00		NONE		0.00										0
159													0.00	NONE									0.00		NONE		0.00										0
160													0.00	NONE									0.00		NONE		0.00										0
161													0.00	NONE									0.00		NONE		0.00										0
162													0.00	NONE									0.00		NONE		0.00										0
163													0.00	NONE									0.00		NONE		0.00										0
164													0.00	NONE									0.00		NONE		0.00										0
165													0.00	NONE									0.00		NONE		0.00										0
166													0.00	NONE									0.00		NONE		0.00										0
167													0.00	NONE									0.00		NONE		0.00										0
168													0.00	NONE									0.00		NONE		0.00										0
169													0.00	NONE									0.00		NONE		0.00										0
170													0.00	NONE									0.00		NONE		0.00										0
171													0.00	NONE									0.00		NONE		0.00										0
172													0.00	NONE									0.00		NONE		0.00										0
173													0.00	NONE									0.00		NONE		0.00										0
174													0.00	NONE									0.00		NONE		0.00										0
175													0.00	NONE									0.00		NONE		0.00										0
176													0.00	NONE									0.00		NONE		0.00										0
177													0.00	NONE									0.00		NONE		0.00										0
178													0.00	NONE									0.00		NONE		0.00										0
179													0.00	NONE									0.00		NONE		0.00										0
180													0.00	NONE									0.00		NONE		0.00										0
181													0.00	NONE									0.00		NONE		0.00										0
182													0.00	NONE									0.00		NONE		0.00										0
183													0.00	NONE									0.00		NONE		0.00										0
184													0.00	NONE									0.00		NONE		0.00										0
185													0.00	NONE									0.00		NONE		0.00										0
186													0.00	NONE									0.00		NONE		0.00										0
187													0.00	NONE									0.00		NONE		0.00										0
188													0.00	NONE									0.00		NONE		0.00										0
189													0.00	NONE									0.00		NONE		0.00										0
190													0.00	NONE									0.00		NONE		0.00										0

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
191													0.00	NONE								0.00		NONE		0.00										0
192													0.00	NONE								0.00		NONE		0.00										0
193													0.00	NONE								0.00		NONE		0.00										0
194													0.00	NONE								0.00		NONE		0.00										0
195													0.00	NONE								0.00		NONE		0.00										0
196													0.00	NONE								0.00		NONE		0.00										0
197													0.00	NONE								0.00		NONE		0.00										0
198													0.00	NONE								0.00		NONE		0.00										0
199													0.00	NONE								0.00		NONE		0.00										0
200													0.00	NONE								0.00		NONE		0.00										0
201													0.00	NONE								0.00		NONE		0.00										0
202													0.00	NONE								0.00		NONE		0.00										0
203													0.00	NONE								0.00		NONE		0.00										0
204													0.00	NONE								0.00		NONE		0.00										0
205													0.00	NONE								0.00		NONE		0.00										0
206													0.00	NONE								0.00		NONE		0.00										0
207													0.00	NONE								0.00		NONE		0.00										0
208													0.00	NONE								0.00		NONE		0.00										0
209													0.00	NONE								0.00		NONE		0.00										0
210													0.00	NONE								0.00		NONE		0.00										0
211													0.00	NONE								0.00		NONE		0.00										0
212													0.00	NONE								0.00		NONE		0.00										0
213													0.00	NONE								0.00		NONE		0.00										0
214													0.00	NONE								0.00		NONE		0.00										0
215													0.00	NONE								0.00		NONE		0.00										0
216													0.00	NONE								0.00		NONE		0.00										0
217													0.00	NONE								0.00		NONE		0.00										0
218													0.00	NONE								0.00		NONE		0.00										0
219													0.00	NONE								0.00		NONE		0.00										0
220													0.00	NONE								0.00		NONE		0.00										0
221													0.00	NONE								0.00		NONE		0.00										0
222													0.00	NONE								0.00		NONE		0.00										0
223													0.00	NONE								0.00		NONE		0.00										0
224													0.00	NONE								0.00		NONE		0.00										0
225													0.00	NONE								0.00		NONE		0.00										0
226													0.00	NONE								0.00		NONE		0.00										0
227													0.00	NONE								0.00		NONE		0.00										0
228													0.00	NONE								0.00		NONE		0.00										0
229													0.00	NONE								0.00		NONE		0.00										0
230													0.00	NONE								0.00		NONE		0.00										0
231													0.00	NONE								0.00		NONE		0.00										0
232													0.00	NONE								0.00		NONE		0.00										0
233													0.00	NONE								0.00		NONE		0.00										0
234													0.00	NONE								0.00		NONE		0.00										0
235													0.00	NONE								0.00		NONE		0.00										0
236													0.00	NONE								0.00		NONE		0.00										0
237													0.00	NONE								0.00		NONE		0.00										0
238													0.00	NONE								0.00		NONE		0.00										0
239													0.00	NONE								0.00		NONE		0.00										0
240													0.00	NONE								0.00		NONE		0.00										0
241													0.00	NONE								0.00		NONE		0.00										0
242													0.00	NONE								0.00		NONE		0.00										0
243													0.00	NONE								0.00		NONE		0.00										0
244													0.00	NONE								0.00		NONE		0.00										0
245													0.00	NONE								0.00		NONE		0.00										0
246													0.00	NONE								0.00		NONE		0.00										0
247													0.00	NONE								0.00		NONE		0.00										0
248													0.00	NONE								0.00		NONE		0.00										0
249													0.00	NONE								0.00		NONE		0.00										0
250													0.00	NONE								0.00		NONE		0.00										0
Totals										1,900			199.71						1,900			105.33				94.38							72.08		2,080	219,858

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	219,858
Total Change in Connected Load	94.38

Annual Estimated Cost Savings	$21,985.80
Annual Operating Hours	2,080

Interior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$10,992.90
Exterior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$0.00
Total retrofit CFL Incentive @ $1/screw-in CFL lamp; $15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	$0.00
Total retrofit LED Exit Incentive @ $10/exit sign	$0.00
Total Lighting Controls Incentive @ $25/occupancy sensor and $25/daylight sensor (includes all Lighting Controls, both interior and exterior)	$0.00

Total Calculated Incentive	$10,992.90

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	1900
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type “Other” indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	72.08

Exhibit 1

Customer Legal Entity Name: South Euclid-Lyndhurst City School District

Site Address: Memorial Junior High
Principal Address: 1250 Professor Road

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Memorial Junior High Lighting Retrofit	Memorial Junior High was completed August 2012 as an OFSC funded project. The change in lighting significally increased energy efficiency rates by replacing all T12 and Metal Halide fixture with T8 and incandescent fixtures.	See lighting calculator	June 2012 replacement of existing fixtures ceased when it was deteremined retrofit project was approved.	N/A

Exhibit 2

Customer Legal Entity Name: South Euclid-Lyndhurst City School District
Site Address: Memorial Junior High
Principal Address: 1250 Professor Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) *Note 1*
2011	15,648	15,648	15,648
2010	15,648	15,648	15,648
2009	16,127	16,127	16,127
Average	**15,808**	**15,808**	**15,808**

Project Number	Project Name	In-Service Date	Project Cost $	50% of Project Cost $	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) $	Eligible Rebate Amount (H) $ *Note 2*
1	Memorial Junior High Lighting Retrofit	08/01/2012	$77,839	$38,920	113,320	113,320	-	$5,561	$4,171
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	**$77,839**		**113,320**	**113,320**	**0**	**$5,561**	**$4,171**

Docket No. 13-0168
Site: 1250 Professor Road

Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of $0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or $250,000 per project. The rebate also cannot exceed $500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost $/MWh (B)	Utility Avoided Cost $ (C)	Utility Cost $ (D)	Cash Rebate $ (E)	Administrator Variable Fee $ (F)	Total Utility Cost $ (G)	UCT (H)
1	113	$ 308	$ 34,934	$ 4,050	$4,171	$1,133	$ 9,354	**3.7**
Total	**113**	**$ 308**	**34,934**	**4,050**	**$4,171**	**$1,133**	**9,354**	**3.7**

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

South Euclid-Lyndhurst City School District ~ Memorial Junior High
Docket No. 13-0168

Site: 1250 Professor Road

Lighting Inventory Form

Applicant Name: South Euclid

Facility Name: Memorial Jr High School

Date: 4/8/2013

Lighting Zone (exterior only): Lighting Zone 3

Instructions: Please use one line for each fixture type in a room or area

For existing or proposed control, choose OCC for Occupany Sensor, DAY for photosensor, Hi-Lo for bi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
e.g.	*Retrofit*	*400 North Street*	*2*	*Office*	*Other*	*Interior*	*Office - Small*		*Cooled Space*	*3*	*F44ILL*	*112*	*0.34*	*NONE*		[redacted]			*3*	*CFT55/1-BX*	*56*	*0.17*	*No*	*OCC*	*3*	*0.17*	*84%*	*84%*	*34%*	*12%*	*0%*	*30%*	*0.19*	*2,808*	*3,435*	*646*
e.g.	*New Construction*	*Example*	*1*	*Restaurant*	*Conference, Meeting or Training Room*	*Exterior*	*Retail - Small*	*Builing facades (liner ft based)*	*Cooled Space*	[redacted]						*500 linear ft*	*3.8*	*1.88*	*5*	*Example Cut Sheet 2*	*25*	*0.13*	*Yes*	*DAY*	*5*	*1.75*	*88%*	*89%*	*34%*	*12%*	*0%*	*0%*	*2.09*	*8,760*	*3,068*	*6,013*
1	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	7	Cut Sheet 1	62	0.43	NONE		[redacted]			7	Cut Sheet 2	48	0.34	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	228
2	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	4	Cut Sheet 3	72	0.29	NONE		[redacted]			4	Cut Sheet 2	48	0.19	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	224
3	Retrofit	1250 Professor Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	2	Cut Sheet 4	62	0.12	NONE		[redacted]			2	Cut Sheet 5	41	0.08	No	NONE		0.04		57%	34%	12%	0%	0%	0.03		2,080	98
4	Retrofit	1250 Professor Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	13	Cut Sheet 6	115	1.50	NONE		[redacted]			13	Cut Sheet 7	71	0.92	No	NONE		0.57		57%	34%	12%	0%	0%	0.44		2,080	1,333
5	Retrofit	1250 Professor Road	All	Offices	Other	Interior	Education - Secondary School		Cooled Space	55	Cut Sheet 8	98	5.39	NONE		[redacted]			55	Cut Sheet 7	71	3.91	No	NONE		1.49		57%	34%	12%	0%	0%	1.13		2,080	3,459
6	Retrofit	1250 Professor Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	3	Cut Sheet 9	62	0.19	NONE		[redacted]			8	Cut Sheet 2	48	0.38	No	NONE		-0.20		57%	34%	12%	0%	0%	-0.15		2,080	-461
7	Retrofit	1250 Professor Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	36	Cut Sheet 9	62	2.23	NONE		[redacted]			36	Cut Sheet 2	48	1.73	No	NONE		0.50		57%	34%	12%	0%	0%	0.38		2,080	1,174
8	Retrofit	1250 Professor Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	24	Cut Sheet 10	98	2.35	NONE		[redacted]			24	Cut Sheet 11	48	1.15	No	NONE		1.20		57%	34%	12%	0%	0%	0.92		2,080	2,796
9	Retrofit	1250 Professor Road	All	Library	Other	Interior	Education - Secondary School		Cooled Space	42	Cut Sheet 12	112	4.70	NONE		[redacted]			42	Cut Sheet 11	48	2.02	No	NONE		2.69		57%	34%	12%	0%	0%	2.05		2,080	6,262
10	Retrofit	1250 Professor Road	All	School	Restrooms	Interior	Education - Secondary School		Cooled Space	9	Cut Sheet 12	112	1.01	NONE		[redacted]			9	Cut Sheet 11	48	0.43	No	NONE		0.58		57%	34%	12%	0%	0%	0.44		2,080	1,342
11	Retrofit	1250 Professor Road	All	Offices	Other	Interior	Education - Secondary School		Cooled Space	30	Cut Sheet 12	112	3.36	NONE		[redacted]			30	Cut Sheet 11	48	1.44	No	NONE		1.92		57%	34%	12%	0%	0%	1.47		2,080	4,473
12	Retrofit	1250 Professor Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	60	Cut Sheet 12	112	6.72	NONE		[redacted]			60	Cut Sheet 11	48	2.88	No	NONE		3.84		57%	34%	12%	0%	0%	2.93		2,080	8,946
13	Retrofit	1250 Professor Road	All	School	Dressing, Locker or Fitting Room	Interior	Education - Secondary School		Cooled Space	4	Cut Sheet 13	72	0.29	NONE		[redacted]			4	Cut Sheet 14	27	0.11	No	NONE		0.18		57%	34%	12%	0%	0%	0.14		2,080	419
14	Retrofit	1250 Professor Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	56	Cut Sheet 13	72	4.03	NONE		[redacted]			56	Cut Sheet 14	27	1.51	No	NONE		2.52		57%	34%	12%	0%	0%	1.92		2,080	5,871
15	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	18	Cut Sheet 15	62	1.12	NONE		[redacted]			15	Cut Sheet 2	48	0.72	No	NONE		0.40		57%	34%	12%	0%	0%	0.30		2,080	923
16	Retrofit	1250 Professor Road	All	Gymnasium	Other	Interior	Education - Secondary School		Cooled Space	15	Cut Sheet 16	72	1.08	NONE		[redacted]			15	Cut Sheet 2	48	0.72	No	NONE		0.36		57%	34%	12%	0%	0%	0.27		2,080	839
17	Retrofit	1250 Professor Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	1	Cut Sheet 17	31	0.03	NONE		[redacted]			1	Cut Sheet 18	27	0.03	No	NONE		0.00		57%	34%	12%	0%	0%	0.00		2,080	9
18	Retrofit	1250 Professor Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	6	Cut Sheet 19	43	0.26	NONE		[redacted]			6	Cut Sheet 18	27	0.16	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	224
19	Retrofit	1250 Professor Road	All	School	Dressing, Locker or Fitting Room	Interior	Education - Secondary School		Cooled Space	10	Cut Sheet 20	72	0.72	NONE		[redacted]			10	Cut Sheet 2	48	0.48	No	NONE		0.24		57%	34%	12%	0%	0%	0.18		2,080	559
20	Retrofit	1250 Professor Road	All	Stairway	Other	Interior	Education - Secondary School		Cooled Space	2	Cut Sheet 21	112	0.22	NONE		[redacted]			2	Cut Sheet 30	96	0.19	No	NONE		0.03		57%	34%	12%	0%	0%	0.02		2,080	75
21	Retrofit	1250 Professor Road	All	School	Dressing, Locker or Fitting Room	Interior	Education - Secondary School		Cooled Space	29	Cut Sheet 23	62	1.80	NONE		[redacted]			29	Cut Sheet 2	48	1.39	No	NONE		0.41		57%	34%	12%	0%	0%	0.31		2,080	946
22	Retrofit	1250 Professor Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	16	Cut Sheet 24	72	1.15	NONE		[redacted]			16	Cut Sheet 25	65	1.04	No	NONE		0.11		57%	34%	12%	0%	0%	0.09		2,080	261
23	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	103	Cut Sheet 23	62	6.39	NONE		[redacted]			103	Cut Sheet 2	48	4.94	No	NONE		1.44		57%	34%	12%	0%	0%	1.10		2,080	3,359
24	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	65	Cut Sheet 24	72	4.68	NONE		[redacted]			67	Cut Sheet 2	48	3.22	No	NONE		1.46		57%	34%	12%	0%	0%	1.12		2,080	3,411
25	Retrofit	1250 Professor Road	All	Hallways	Other	Interior	Education - Secondary School		Cooled Space	2	Cut Sheet 26	144	0.29	NONE		[redacted]			2	Cut Sheet 30	96	0.19	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	224
26	Retrofit	1250 Professor Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	4	Cut Sheet 27	72	0.29	NONE		[redacted]			4	Cut Sheet 28	48	0.19	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	224
27	Retrofit	1250 Professor Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	105	Cut Sheet 29	144	15.12	NONE		[redacted]			105	Cut Sheet 2	48	5.04	No	NONE		10.08		57%	34%	12%	0%	0%	7.70		2,080	23,482
28	Retrofit	1250 Professor Road	All	Boiler Room	Other	Interior	Education - Secondary School		Cooled Space	1	Cut Sheet 29	144	0.14	NONE		[redacted]			1	Cut Sheet 30	96	0.10	No	NONE		0.05		57%	34%	12%	0%	0%	0.04		2,080	112
29	Retrofit	1250 Professor Road	All	Gyminasium	Other	Interior	Education - Secondary School		Cooled Space	12	Cut Sheet 31	112	1.34	NONE		[redacted]			12	Cut Sheet 30	96	1.15	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
30	Retrofit	1250 Professor Road	All	Stairway	Other	Interior	Education - Secondary School		Cooled Space	1	Cut Sheet 32	58	0.06	NONE		[redacted]			1	Cut Sheet 2	48	0.05	No	NONE		0.01		57%	34%	12%	0%	0%	0.01		2,080	23
31	Retrofit	1250 Professor Road	All	School	Dressing, Locker or Fitting Room	Interior	Education - Secondary School		Cooled Space	6	Cut Sheet 33	72	0.43	NONE		[redacted]			6	Cut Sheet 2	48	0.29	No	NONE		0.14		57%	34%	12%	0%	0%	0.11		2,080	335
32	Retrofit	1250 Professor Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Secondary School		Cooled Space	179	Cut Sheet 34	112	20.05	NONE		[redacted]			179	Cut Sheet 30	96	17.18	No	NONE		2.86		57%	34%	12%	0%	0%	2.19		2,080	6,672
33	Retrofit	1250 Professor Road	All	Cafeteria	Other	Interior	Education - Secondary School		Cooled Space	38	Cut Sheet 34	112	4.26	NONE		[redacted]			38	Cut Sheet 30	96	3.65	No	NONE		0.61		57%	34%	12%	0%	0%	0.46		2,080	1,416
34	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	71	Cut Sheet 35	144	10.22	NONE		[redacted]			71	Cut Sheet 30	96	6.82	No	NONE		3.41		57%	34%	12%	0%	0%	2.60		2,080	7,939
35	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	7	Cut Sheet 36	120	0.84	NONE		[redacted]			7	Cut Sheet 37	38	0.27	No	NONE		0.57		57%	34%	12%	0%	0%	0.44		2,080	1,337
36	Retrofit	1250 Professor Road	All	School	Dressing, Locker or Fitting Room	Interior	Education - Secondary School		Cooled Space	6	Cut Sheet 38	180	1.08	NONE		[redacted]			6	Cut Sheet 39	57	0.34	No	NONE		0.74		57%	34%	12%	0%	0%	0.56		2,080	1,719
37	Retrofit	1250 Professor Road	All	Gymnasium	Other	Interior	Education - Secondary School		Cooled Space	32	MH400/1	458	14.66	NONE		[redacted]			32	Cut Sheet 40	192	6.14	No	NONE		8.51		57%	34%	12%	0%	0%	6.50		2,080	19,830
38	Retrofit	1250 Professor Road	All	School	Dressing, Locker or Fitting Room	Interior	Education - Secondary School		Cooled Space	1	Cut Sheet 41	100	0.10	NONE		[redacted]			1	Cut Sheet 42	27	0.03	No	NONE		0.07		57%	34%	12%	0%	0%	0.06		2,080	170
39	Retrofit	1250 Professor Road	All	Boiler Room	Other	Interior	Education - Secondary School		Cooled Space	3	Cut Sheet 43	60	0.18	NONE		[redacted]			3	Cut Sheet 44	19	0.06	No	NONE		0.12		57%	34%	12%	0%	0%	0.09		2,080	287
40	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	20	Cut Sheet 43	60	1.20	NONE		[redacted]			20	Cut Sheet 44	19	0.38	No	NONE		0.82		57%	34%	12%	0%	0%	0.63		2,080	1,910
41	Retrofit	1250 Professor Road	All	School	Other	Interior	Education - Secondary School		Cooled Space	3	Cut Sheet 45	75	0.23	NONE		[redacted]			3	Cut Sheet 46	27	0.08	No	NONE		0.14		57%	34%	12%	0%	0%	0.11		2,080	335
42													0.00	NONE								0.00		NONE		0.00										0
43													0.00	NONE								0.00		NONE		0.00										0
44													0.00	NONE								0.00		NONE		0.00										0
45													0.00	NONE								0.00		NONE		0.00										0
46													0.00	NONE								0.00		NONE		0.00										0
47													0.00	NONE								0.00		NONE		0.00										0
48													0.00	NONE								0.00		NONE		0.00										0
49													0.00	NONE								0.00		NONE		0.00										0
50													0.00	NONE								0.00		NONE		0.00										0
51													0.00	NONE								0.00		NONE		0.00										0
52													0.00	NONE								0.00		NONE		0.00										0
53													0.00	NONE								0.00		NONE		0.00										0
54													0.00	NONE								0.00		NONE		0.00										0
55													0.00	NONE								0.00		NONE		0.00										0
56													0.00	NONE								0.00		NONE		0.00										0
57													0.00	NONE								0.00		NONE		0.00										0
58													0.00	NONE								0.00		NONE		0.00										0
59													0.00	NONE								0.00		NONE		0.00										0
60													0.00	NONE								0.00		NONE		0.00										0
61													0.00	NONE								0.00		NONE		0.00										0
62													0.00	NONE								0.00		NONE		0.00										0
63													0.00	NONE								0.00		NONE		0.00										0
64													0.00	NONE								0.00		NONE		0.00										0
65													0.00	NONE								0.00		NONE		0.00										0
66													0.00	NONE								0.00		NONE		0.00										0
67													0.00	NONE								0.00		NONE		0.00										0
68													0.00	NONE								0.00		NONE		0.00										0
69													0.00	NONE								0.00		NONE		0.00										0
70													0.00	NONE								0.00		NONE		0.00										0
71													0.00	NONE								0.00		NONE		0.00										0
72													0.00	NONE								0.00		NONE		0.00										0
73													0.00	NONE								0.00		NONE		0.00										0
74													0.00	NONE								0.00		NONE		0.00										0
75													0.00	NONE								0.00		NONE		0.00										0
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78													0.00	NONE								0.00		NONE		0.00										0
79													0.00	NONE								0.00		NONE		0.00										0
80													0.00	NONE								0.00		NONE		0.00										0
81													0.00	NONE								0.00		NONE		0.00										0
82													0.00	NONE								0.00		NONE		0.00										0
83													0.00	NONE								0.00		NONE		0.00										0
84													0.00	NONE								0.00		NONE		0.00										0
85													0.00	NONE								0.00		NONE		0.00										0
86													0.00	NONE								0.00		NONE		0.00										0
87													0.00	NONE								0.00		NONE		0.00										0
88													0.00	NONE								0.00		NONE		0.00										0
89													0.00	NONE								0.00		NONE		0.00										0
90													0.00	NONE								0.00		NONE		0.00										0
91													0.00	NONE								0.00		NONE		0.00										0
92													0.00	NONE								0.00		NONE		0.00										0
93													0.00	NONE								0.00		NONE		0.00										0
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144													0.00	NONE								0.00		NONE		0.00										0
145													0.00	NONE								0.00		NONE		0.00										0
146													0.00	NONE								0.00		NONE		0.00										0
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156													0.00	NONE								0.00		NONE		0.00										0
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159													0.00	NONE								0.00		NONE		0.00										0
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161													0.00	NONE								0.00		NONE		0.00										0
162													0.00	NONE								0.00		NONE		0.00										0
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164													0.00	NONE								0.00		NONE		0.00										0
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166													0.00	NONE								0.00		NONE		0.00										0
167													0.00	NONE								0.00		NONE		0.00										0
168													0.00	NONE								0.00		NONE		0.00										0
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170													0.00	NONE								0.00		NONE		0.00										0
171													0.00	NONE								0.00		NONE		0.00										0
172													0.00	NONE								0.00		NONE		0.00										0
173													0.00	NONE								0.00		NONE		0.00										0
174													0.00	NONE								0.00		NONE		0.00										0
175													0.00	NONE								0.00		NONE		0.00										0
176													0.00	NONE								0.00		NONE		0.00										0
177													0.00	NONE								0.00		NONE		0.00										0
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179													0.00	NONE								0.00		NONE		0.00										0
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182													0.00	NONE								0.00		NONE		0.00										0
183													0.00	NONE								0.00		NONE		0.00										0
184													0.00	NONE								0.00		NONE		0.00										0
185													0.00	NONE								0.00		NONE		0.00										0
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189													0.00	NONE								0.00		NONE		0.00										0
190													0.00	NONE								0.00		NONE		0.00										0

Lighting Form

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
191													0.00	NONE								0.00		NONE		0.00										0
192													0.00	NONE								0.00		NONE		0.00										0
193													0.00	NONE								0.00		NONE		0.00										0
194													0.00	NONE								0.00		NONE		0.00										0
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198													0.00	NONE								0.00		NONE		0.00										0
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245													0.00	NONE								0.00		NONE		0.00										0
246													0.00	NONE								0.00		NONE		0.00										0
247													0.00	NONE								0.00		NONE		0.00										0
248													0.00	NONE								0.00		NONE		0.00										0
249													0.00	NONE								0.00		NONE		0.00										0
250													0.00	NONE								0.00		NONE		0.00										0
Totals										1,101			120.54						1,105			71.94				48.61							37.12		2,080	113,230

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	113,230
Total Change in Connected Load	48.61

Annual Estimated Cost Savings	$11,323.00
Annual Operating Hours	2,080

Interior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$5,661.50
Exterior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$0.00
Total retrofit CFL Incentive @ $1/screw-in CFL lamp; $15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	$0.00
Total retrofit LED Exit Incentive @ $10/exit sign	$0.00
Total Lighting Controls Incentive @ $25/occupancy sensor and $25/daylight sensor (includes all Lighting Controls, both interior and exterior)	$0.00

Total Calculated Incentive	$5,661.50

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	1105
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type “Other” indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	37.12

Exhibit 1

Customer Legal Entity Name: South Euclid-Lyndhurst City School District

Site Address: Rowland Elementary
Principal Address: 4300 Bayard Road

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Rowland Elementary Lighting Retrofit	Rowland Elementary was completed August 2012 as an OFSC funded project. The change in lighting significally increased energy efficiency rates by replacing all T12 and Metal Halide fixture with T8 and incandescent fixtures.	0	June 2012 replacement of existing fixtures ceased when it was deteremined retrofit project was approved.	N/A

Exhibit 2

Customer Legal Entity Name: South Euclid-Lyndhurst City School District
Site Address: Rowland Elementary
Principal Address: 4300 Bayard Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) *Note 1*
2011	2,004	2,004	2,004
2010	2,004	2,004	2,004
2009	2,067	2,067	2,067
Average	**2,025**	**2,025**	**2,025**

Project Number	Project Name	In-Service Date	Project Cost $	50% of Project Cost $	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) $	Eligible Rebate Amount (H) $ *Note 2*
1	**Rowland Elementary Lighting Retrofit**	**08/01/2012**	**$53,513**	**$26,757**	**70,209**	**70,209**	**-**	**$3,510**	**$2,633**
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	**$53,513**		**70,209**	**70,209**	**0**	**$3,510**	**$2,633**

Docket No. 13-0168
Site: 4300 Bayard Road

Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of $0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or $250,000 per project. The rebate also cannot exceed $500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost $/MWh (B)	Utility Avoided Cost $ (C)	Utility Cost $ (D)	Cash Rebate $ (E)	Administrator Variable Fee $ (F)	Total Utility Cost $ (G)	UCT (H)
1	70	$ 308	$ 21,644	$ 4,050	$2,633	$702	$ 7,385	**2.9**
Total	**70**	**$ 308**	**21,644**	**4,050**	**$2,633**	**$702**	**7,385**	**2.9**

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

South Euclid-Lyndhurst City School District ~ Rowland Elementary
Docket No. 13-0168

Site: 4300 Bayard Road

Lighting Inventory Form

Applicant Name: South Euclid Lyndhurst

Facility Name: Rowland Elementary

Date: 4/8/2013

Lighting Zone (exterior only): Lighting Zone 3

Instructions: Please use one line for each fixture type in a room or area

For existing or proposed control, choose OCC for Occupany Sensor, DAY for photosensor, Hi-Lo for bi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION

Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling
e.g.	*Retrofit*	*400 North Street*	*2*	*Office*	*Other*	*Interior*	*Office - Small*		*Cooled Space*
e.g.	*New Construction*	*Example*	*1*	*Restaurant*	*Conference, Meeting or Training Room*	*Exterior*	*Retail - Small*	*Builing facades (liner ft based)*	*Cooled Space*
1	Retrofit	4300 Bayard Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space
2	Retrofit	4300 Bayard Road	All	Offices	Other	Interior	Education - Primary School		Cooled Space
3	Retrofit	4300 Bayard Road	All	Hallways	Other	Interior	Education - Primary School		Cooled Space
4	Retrofit	4300 Bayard Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space
5	Retrofit	4300 Bayard Road	All	School	Other	Interior	Education - Primary School		Cooled Space
6	Retrofit	4300 Bayard Road	All	Hallways	Other	Interior	Education - Primary School		Cooled Space
7	Retrofit	4300 Bayard Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space
8	Retrofit	4300 Bayard Road	All	Library	Other	Interior	Education - Primary School		Cooled Space
9	Retrofit	4300 Bayard Road	All	School	Employee Lunch or Break Room	Interior	Education - Primary School		Cooled Space
10	Retrofit	4300 Bayard Road	All	School	Other	Interior	Education - Primary School		Cooled Space
11	Retrofit	4300 Bayard Road	All	Boiler Room	Other	Interior	Education - Primary School		Cooled Space
12	Retrofit	4300 Bayard Road	All	School	Other	Interior	Education - Primary School		Cooled Space
13	Retrofit	4300 Bayard Road	All	Hallways	Other	Interior	Education - Primary School		Cooled Space
14	Retrofit	4300 Bayard Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space
15	Retrofit	4300 Bayard Road	All	Library	Other	Interior	Education - Primary School		Cooled Space
16	Retrofit	4300 Bayard Road	All	School	Other	Interior	Education - Primary School		Cooled Space
17	Retrofit	4300 Bayard Road	All	School	Restrooms	Interior	Education - Primary School		Cooled Space
18	Retrofit	4300 Bayard Road	All	School	Other	Interior	Education - Primary School		Cooled Space
19	Retrofit	4300 Bayard Road	All	School	Other	Interior	Education - Primary School		Cooled Space
20	Retrofit	4300 Bayard Road	All	School	Other	Interior	Education - Primary School		Cooled Space
21	Retrofit	4300 Bayard Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space
22	Retrofit	4300 Bayard Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space
23	Retrofit	4300 Bayard Road	All	Gymnasium	Other	Interior	Education - Primary School		Cooled Space
24	Retrofit	4300 Bayard Road	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space
25	Retrofit	4300 Bayard Road	All	School	Restrooms	Interior	Education - Primary School		Cooled Space
26	Retrofit	4300 Bayard Road	All	School	Other	Interior	Education - Primary School		Cooled Space

PRE-INSTALLATION (RETROFIT) / BASELINE (NEW CONSTRUCTION) / POST-INSTALLATION / Energy Calculations

Line Item	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.		Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
e.g.	*3*	*F44ILL*	*112*	*0.34*	*NONE*						*3*	*CFT55/1-BX*	*56*	*0.17*	*No*	*OCC*	*3*	*0.17*	*84%*	*84%*	*34%*	*12%*	*0%*	*30%*	*0.19*	*2,808*	*3,435*	*646*
e.g.							*500*	*linear ft*	*3.8*	*1.88*	*5*	*Example Cut Sheet 2*	*25*	*0.13*	*Yes*	*DAY*	*5*	*1.75*	*88%*	*89%*	*34%*	*12%*	*0%*	*0%*	*2.09*	*8,760*	*3,068*	*6,013*
1	162	Cut Sheet 1	72	11.66	NONE						162	Cut Sheet 2	48	7.78	No	NONE		3.89		57%	34%	12%	0%	0%	2.97		2,080	9,057
2	12	Cut Sheet 3	98	1.18	NONE						12	Cut Sheet 4	71	0.85	No	NONE		0.32		57%	34%	12%	0%	0%	0.25		2,080	755
3	4	Cut Sheet 5	62	0.25	NONE						4	Cut Sheet 6	48	0.19	No	NONE		0.06		57%	34%	12%	0%	0%	0.04		2,080	130
4	49	Cut Sheet 7	98	4.80	NONE						49	Cut Sheet 6	48	2.35	No	NONE		2.45		57%	34%	12%	0%	0%	1.87		2,080	5,708
5	23	Cut Sheet 7	98	2.25	NONE						23	Cut Sheet 6	48	1.10	No	NONE		1.15		57%	34%	12%	0%	0%	0.88		2,080	2,679
6	34	Cut Sheet 8	112	3.81	NONE						34	Cut Sheet 6	48	1.63	No	NONE		2.18		57%	34%	12%	0%	0%	1.66		2,080	5,069
7	79	Cut Sheet 8	112	8.85	NONE						79	Cut Sheet 6	48	3.79	No	NONE		5.06		57%	34%	12%	0%	0%	3.86		2,080	11,778
8	12	Cut Sheet 8	112	1.34	NONE						12	Cut Sheet 6	48	0.58	No	NONE		0.77		57%	34%	12%	0%	0%	0.59		2,080	1,789
9	15	Cut Sheet 8	112	1.68	NONE						15	Cut Sheet 6	48	0.72	No	NONE		0.96		57%	34%	12%	0%	0%	0.73		2,080	2,236
10	9	Cut Sheet 8	112	1.01	NONE						9	Cut Sheet 6	48	0.43	No	NONE		0.58		57%	34%	12%	0%	0%	0.44		2,080	1,342
11	12	Cut Sheet 9	62	0.74	NONE						12	Cut Sheet 2	48	0.58	No	NONE		0.17		57%	34%	12%	0%	0%	0.13		2,080	391
12	1	Cut Sheet 10	43	0.04	NONE						1	Cut Sheet 11	27	0.03	No	NONE		0.02		57%	34%	12%	0%	0%	0.01		2,080	37
13	43	Cut Sheet 12	112	4.82	NONE						43	Cut Sheet 13	96	4.13	No	NONE		0.69		57%	34%	12%	0%	0%	0.53		2,080	1,603
14	36	Cut Sheet 12	112	4.03	NONE						36	Cut Sheet 13	96	3.46	No	NONE		0.58		57%	34%	12%	0%	0%	0.44		2,080	1,342
15	18	Cut Sheet 12	112	2.02	NONE						18	Cut Sheet 13	96	1.73	No	NONE		0.29		57%	34%	12%	0%	0%	0.22		2,080	671
16	14	Cut Sheet 12	112	1.57	NONE						14	Cut Sheet 13	96	1.34	No	NONE		0.22		57%	34%	12%	0%	0%	0.17		2,080	522
17	11	Cut Sheet 14	62	0.68	NONE						11	Cut Sheet 2	48	0.53	No	NONE		0.15		57%	34%	12%	0%	0%	0.12		2,080	359
18	16	Cut Sheet 15	72	1.15	NONE						16	Cut Sheet 2	48	0.77	No	NONE		0.38		57%	34%	12%	0%	0%	0.29		2,080	895
19	7	Cut Sheet 16	144	1.01	NONE						7	Cut Sheet 13	96	0.67	No	NONE		0.34		57%	34%	12%	0%	0%	0.26		2,080	783
20	3	Cut Sheet 17	112	0.34	NONE						3	Cut Sheet 13	96	0.29	No	NONE		0.05		57%	34%	12%	0%	0%	0.04		2,080	112
21	100	Cut Sheet 18	144	14.40	NONE						100	Cut Sheet 13	96	9.60	No	NONE		4.80		57%	34%	12%	0%	0%	3.67		2,080	11,182
22	6	Cut Sheet 18	144	0.86	NONE						6	Cut Sheet 19	131	0.79	No	NONE		0.08		57%	34%	12%	0%	0%	0.06		2,080	182
23	10	MH400/1	458	4.58	NONE						10	Cut Sheet 20	192	1.92	No	NONE		2.66		57%	34%	12%	0%	0%	2.03		2,080	6,197
24	27	Cut Sheet 21	100	2.70	NONE						27	Cut Sheet 22	27	0.73	No	NONE		1.97		57%	34%	12%	0%	0%	1.51		2,080	4,592
25	2	Cut Sheet 23	25	0.05	NONE						2	Cut Sheet 22	27	0.05	No	NONE		0.00		57%	34%	12%	0%	0%	0.00		2,080	-9
26	8	Cut Sheet 24	60	0.48	NONE						7	Cut Sheet 25	19	0.13	No	NONE		0.35		57%	34%	12%	0%	0%	0.27		2,080	808
27				0.00	NONE									0.00		NONE		0.00										0
28				0.00	NONE									0.00		NONE		0.00										0
29				0.00	NONE									0.00		NONE		0.00										0
30				0.00	NONE									0.00		NONE		0.00										0
31				0.00	NONE									0.00		NONE		0.00										0
32				0.00	NONE									0.00		NONE		0.00										0
33				0.00	NONE									0.00		NONE		0.00										0
34				0.00	NONE									0.00		NONE		0.00										0
35				0.00	NONE									0.00		NONE		0.00										0
36				0.00	NONE									0.00		NONE		0.00										0
37				0.00	NONE									0.00		NONE		0.00										0
38				0.00	NONE									0.00		NONE		0.00										0
39				0.00	NONE									0.00		NONE		0.00										0
40				0.00	NONE									0.00		NONE		0.00										0
41				0.00	NONE									0.00		NONE		0.00										0
42				0.00	NONE									0.00		NONE		0.00										0
43				0.00	NONE									0.00		NONE		0.00										0
44				0.00	NONE									0.00		NONE		0.00										0
45				0.00	NONE									0.00		NONE		0.00										0
46				0.00	NONE									0.00		NONE		0.00										0
47				0.00	NONE									0.00		NONE		0.00										0
48				0.00	NONE									0.00		NONE		0.00										0
49				0.00	NONE									0.00		NONE		0.00										0
50				0.00	NONE									0.00		NONE		0.00										0
51				0.00	NONE									0.00		NONE		0.00										0
52				0.00	NONE									0.00		NONE		0.00										0
53				0.00	NONE									0.00		NONE		0.00										0
54				0.00	NONE									0.00		NONE		0.00										0
55				0.00	NONE									0.00		NONE		0.00										0
56				0.00	NONE									0.00		NONE		0.00										0
57				0.00	NONE									0.00		NONE		0.00										0
58				0.00	NONE									0.00		NONE		0.00										0
59				0.00	NONE									0.00		NONE		0.00										0
60				0.00	NONE									0.00		NONE		0.00										0
61				0.00	NONE									0.00		NONE		0.00										0
62				0.00	NONE									0.00		NONE		0.00										0
63				0.00	NONE									0.00		NONE		0.00										0
64				0.00	NONE									0.00		NONE		0.00										0
65				0.00	NONE									0.00		NONE		0.00										0
66				0.00	NONE									0.00		NONE		0.00										0
67				0.00	NONE									0.00		NONE		0.00										0
68				0.00	NONE									0.00		NONE		0.00										0
69				0.00	NONE									0.00		NONE		0.00										0
70				0.00	NONE									0.00		NONE		0.00										0
71				0.00	NONE									0.00		NONE		0.00										0
72				0.00	NONE									0.00		NONE		0.00										0
73				0.00	NONE									0.00		NONE		0.00										0
74				0.00	NONE									0.00		NONE		0.00										0
75				0.00	NONE									0.00		NONE		0.00										0
76				0.00	NONE									0.00		NONE		0.00										0
77				0.00	NONE									0.00		NONE		0.00										0
78				0.00	NONE									0.00		NONE		0.00										0
79				0.00	NONE									0.00		NONE		0.00										0
80				0.00	NONE									0.00		NONE		0.00										0
81				0.00	NONE									0.00		NONE		0.00										0
82				0.00	NONE									0.00		NONE		0.00										0
83				0.00	NONE									0.00		NONE		0.00										0
84				0.00	NONE									0.00		NONE		0.00										0
85				0.00	NONE									0.00		NONE		0.00										0
86				0.00	NONE									0.00		NONE		0.00										0
87				0.00	NONE									0.00		NONE		0.00										0
88				0.00	NONE									0.00		NONE		0.00										0
89				0.00	NONE									0.00		NONE		0.00										0
90				0.00	NONE									0.00		NONE		0.00										0
91				0.00	NONE									0.00		NONE		0.00										0
92				0.00	NONE									0.00		NONE		0.00										0
93				0.00	NONE									0.00		NONE		0.00										0
94				0.00	NONE									0.00		NONE		0.00										0
95				0.00	NONE									0.00		NONE		0.00										0
96				0.00	NONE									0.00		NONE		0.00										0
97				0.00	NONE									0.00		NONE		0.00										0
98				0.00	NONE									0.00		NONE		0.00										0
99				0.00	NONE									0.00		NONE		0.00										0
100				0.00	NONE									0.00		NONE		0.00										0
101				0.00	NONE									0.00		NONE		0.00										0
102				0.00	NONE									0.00		NONE		0.00										0
103				0.00	NONE									0.00		NONE		0.00										0
104				0.00	NONE									0.00		NONE		0.00										0
105				0.00	NONE									0.00		NONE		0.00										0
106				0.00	NONE									0.00		NONE		0.00										0
107				0.00	NONE									0.00		NONE		0.00										0
108				0.00	NONE									0.00		NONE		0.00										0
109				0.00	NONE									0.00		NONE		0.00										0
110				0.00	NONE									0.00		NONE		0.00										0
111				0.00	NONE									0.00		NONE		0.00										0
112				0.00	NONE									0.00		NONE		0.00										0
113				0.00	NONE									0.00		NONE		0.00										0
114				0.00	NONE									0.00		NONE		0.00										0
115				0.00	NONE									0.00		NONE		0.00										0
116				0.00	NONE									0.00		NONE		0.00										0
117				0.00	NONE									0.00		NONE		0.00										0
118				0.00	NONE									0.00		NONE		0.00										0
119				0.00	NONE									0.00		NONE		0.00										0
120				0.00	NONE									0.00		NONE		0.00										0
121				0.00	NONE									0.00		NONE		0.00										0
122				0.00	NONE									0.00		NONE		0.00										0
123				0.00	NONE									0.00		NONE		0.00										0
124				0.00	NONE									0.00		NONE		0.00										0
125				0.00	NONE									0.00		NONE		0.00										0
126				0.00	NONE									0.00		NONE		0.00										0
127				0.00	NONE									0.00		NONE		0.00										0
128				0.00	NONE									0.00		NONE		0.00										0
129				0.00	NONE									0.00		NONE		0.00										0
130				0.00	NONE									0.00		NONE		0.00										0
131				0.00	NONE									0.00		NONE		0.00										0
132				0.00	NONE									0.00		NONE		0.00										0
133				0.00	NONE									0.00		NONE		0.00										0
134				0.00	NONE									0.00		NONE		0.00										0
135				0.00	NONE									0.00		NONE		0.00										0
136				0.00	NONE									0.00		NONE		0.00										0
137				0.00	NONE									0.00		NONE		0.00										0
138				0.00	NONE									0.00		NONE		0.00										0
139				0.00	NONE									0.00		NONE		0.00										0
140				0.00	NONE									0.00		NONE		0.00										0
141				0.00	NONE									0.00		NONE		0.00										0
142				0.00	NONE									0.00		NONE		0.00										0
143				0.00	NONE									0.00		NONE		0.00										0
144				0.00	NONE									0.00		NONE		0.00										0
145				0.00	NONE									0.00		NONE		0.00										0
146				0.00	NONE									0.00		NONE		0.00										0
147				0.00	NONE									0.00		NONE		0.00										0
148				0.00	NONE									0.00		NONE		0.00										0
149				0.00	NONE									0.00		NONE		0.00										0
150				0.00	NONE									0.00		NONE		0.00										0
151				0.00	NONE									0.00		NONE		0.00										0
152				0.00	NONE									0.00		NONE		0.00										0
153				0.00	NONE									0.00		NONE		0.00										0
154				0.00	NONE									0.00		NONE		0.00										0
155				0.00	NONE									0.00		NONE		0.00										0
156				0.00	NONE									0.00		NONE		0.00										0
157				0.00	NONE									0.00		NONE		0.00										0
158				0.00	NONE									0.00		NONE		0.00										0
159				0.00	NONE									0.00		NONE		0.00										0
160				0.00	NONE									0.00		NONE		0.00										0
161				0.00	NONE									0.00		NONE		0.00										0
162				0.00	NONE									0.00		NONE		0.00										0
163				0.00	NONE									0.00		NONE		0.00										0
164				0.00	NONE									0.00		NONE		0.00										0
165				0.00	NONE									0.00		NONE		0.00										0
166				0.00	NONE									0.00		NONE		0.00										0
167				0.00	NONE									0.00		NONE		0.00										0
168				0.00	NONE									0.00		NONE		0.00										0
169				0.00	NONE									0.00		NONE		0.00										0
170				0.00	NONE									0.00		NONE		0.00										0
171				0.00	NONE									0.00		NONE		0.00										0
172				0.00	NONE									0.00		NONE		0.00										0
173				0.00	NONE									0.00		NONE		0.00										0
174				0.00	NONE									0.00		NONE		0.00										0
175				0.00	NONE									0.00		NONE		0.00										0
176				0.00	NONE									0.00		NONE		0.00										0
177				0.00	NONE									0.00		NONE		0.00										0
178				0.00	NONE									0.00		NONE		0.00										0
179				0.00	NONE									0.00		NONE		0.00										0
180				0.00	NONE									0.00		NONE		0.00										0
181				0.00	NONE									0.00		NONE		0.00										0
182				0.00	NONE									0.00		NONE		0.00										0
183				0.00	NONE									0.00		NONE		0.00										0
184				0.00	NONE									0.00		NONE		0.00										0
185				0.00	NONE									0.00		NONE		0.00										0
186				0.00	NONE									0.00		NONE		0.00										0
187				0.00	NONE									0.00		NONE		0.00										0
188				0.00	NONE									0.00		NONE		0.00										0
189				0.00	NONE									0.00		NONE		0.00										0
190				0.00	NONE									0.00		NONE		0.00										0

	PROJECT BASIC INFORMATION									PRE-INSTALLATION (RETROFIT)					BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION						Energy Calculations								
Table Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity (where applicable)	Units e.g. Square Feet (pf) If multiple fixture types are used, please only enter the total area/distance/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts / Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity (where applicable)	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full-Load Hours (EFLH) Estimate	Prescribed Equivalent Full-Load Hours	Annual kWh Saved
181												0.00	0.00	NONE							0.00		NONE		0.00								0
182												0.00	0.00	NONE							0.00		NONE		0.00								0
183												0.00	0.00	NONE							0.00		NONE		0.00								0
184												0.00	0.00	NONE							0.00		NONE		0.00								0
185												0.00	0.00	NONE							0.00		NONE		0.00								0
186												0.00	0.00	NONE							0.00		NONE		0.00								0
187												0.00	0.00	NONE							0.00		NONE		0.00								0
188												0.00	0.00	NONE							0.00		NONE		0.00								0
189												0.00	0.00	NONE							0.00		NONE		0.00								0
190												0.00	0.00	NONE							0.00		NONE		0.00								0
191												0.00	0.00	NONE							0.00		NONE		0.00								0
192												0.00	0.00	NONE							0.00		NONE		0.00								0
193												0.00	0.00	NONE							0.00		NONE		0.00								0
194												0.00	0.00	NONE							0.00		NONE		0.00								0
195												0.00	0.00	NONE							0.00		NONE		0.00								0
196												0.00	0.00	NONE							0.00		NONE		0.00								0
197												0.00	0.00	NONE							0.00		NONE		0.00								0
198												0.00	0.00	NONE							0.00		NONE		0.00								0
199												0.00	0.00	NONE							0.00		NONE		0.00								0
200												0.00	0.00	NONE							0.00		NONE		0.00								0
201												0.00	0.00	NONE							0.00		NONE		0.00								0
202												0.00	0.00	NONE							0.00		NONE		0.00								0
203												0.00	0.00	NONE							0.00		NONE		0.00								0
204												0.00	0.00	NONE							0.00		NONE		0.00								0
205												0.00	0.00	NONE							0.00		NONE		0.00								0
206												0.00	0.00	NONE							0.00		NONE		0.00								0
207												0.00	0.00	NONE							0.00		NONE		0.00								0
208												0.00	0.00	NONE							0.00		NONE		0.00								0
209												0.00	0.00	NONE							0.00		NONE		0.00								0
210												0.00	0.00	NONE							0.00		NONE		0.00								0
211												0.00	0.00	NONE							0.00		NONE		0.00								0
212												0.00	0.00	NONE							0.00		NONE		0.00								0
213												0.00	0.00	NONE							0.00		NONE		0.00								0
214												0.00	0.00	NONE							0.00		NONE		0.00								0
215												0.00	0.00	NONE							0.00		NONE		0.00								0
216												0.00	0.00	NONE							0.00		NONE		0.00								0
217												0.00	0.00	NONE							0.00		NONE		0.00								0
218												0.00	0.00	NONE							0.00		NONE		0.00								0
219												0.00	0.00	NONE							0.00		NONE		0.00								0
220												0.00	0.00	NONE							0.00		NONE		0.00								0
221												0.00	0.00	NONE							0.00		NONE		0.00								0
222												0.00	0.00	NONE							0.00		NONE		0.00								0
223												0.00	0.00	NONE							0.00		NONE		0.00								0
224												0.00	0.00	NONE							0.00		NONE		0.00								0
225												0.00	0.00	NONE							0.00		NONE		0.00								0
226												0.00	0.00	NONE							0.00		NONE		0.00								0
227												0.00	0.00	NONE							0.00		NONE		0.00								0
228												0.00	0.00	NONE							0.00		NONE		0.00								0
229												0.00	0.00	NONE							0.00		NONE		0.00								0
230												0.00	0.00	NONE							0.00		NONE		0.00								0
231												0.00	0.00	NONE							0.00		NONE		0.00								0
232												0.00	0.00	NONE							0.00		NONE		0.00								0
233												0.00	0.00	NONE							0.00		NONE		0.00								0
234												0.00	0.00	NONE							0.00		NONE		0.00								0
235												0.00	0.00	NONE							0.00		NONE		0.00								0
236												0.00	0.00	NONE							0.00		NONE		0.00								0
237												0.00	0.00	NONE							0.00		NONE		0.00								0
238												0.00	0.00	NONE							0.00		NONE		0.00								0
239												0.00	0.00	NONE							0.00		NONE		0.00								0
240												0.00	0.00	NONE							0.00		NONE		0.00								0
241												0.00	0.00	NONE							0.00		NONE		0.00								0
242												0.00	0.00	NONE							0.00		NONE		0.00								0
243												0.00	0.00	NONE							0.00		NONE		0.00								0
244												0.00	0.00	NONE							0.00		NONE		0.00								0
245												0.00	0.00	NONE							0.00		NONE		0.00								0
246												0.00	0.00	NONE							0.00		NONE		0.00								0
247												0.00	0.00	NONE							0.00		NONE		0.00								0
248												0.00	0.00	NONE							0.00		NONE		0.00								0
249												0.00	0.00	NONE							0.00		NONE		0.00								0
250												0.00	0.00	NONE							0.00		NONE		0.00								0
Totals										713			79.39						713			46.17			33.18							23.02		2,085	70,209

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	70,209
Total Change in Connected Load	30.14

Annual Estimated Cost Savings	$7,020.90
Annual Operating Hours	2,080

Interior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$3,510.45
Exterior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$0.00
Total retrofit CFL Incentive @ $1/screw-in CFL lamp; $15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	$0.00
Total retrofit LED Exit Incentive @ $10/exit sign	$0.00
Total Lighting Controls Incentive @ $25/occupancy sensor and $25/daylight sensor (includes all Lighting Controls, both interior and exterior)	$0.00

Total Calculated Incentive	$3,510.45

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	712
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type “Other” indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	23.02

Exhibit 1

Customer Legal Entity Name: South Euclid-Lyndhurst City School District

Site Address: Sunview Elementary
Principal Address: 5520 Meadow Wood Boulevard

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Sunview Elementary Lighting Retrofit	Sunview Elementary was completed August 2012 as an OFSC funded project. The change in lighting significally increased energy efficiency rates by replacing all T12 and Metal Halide fixture with T8 and incandescent fixtures.	See lighting calculator	June 2012 replacement of existing fixtures ceased when it was deteremined retrofit project was approved.	N/A

Exhibit 2

Customer Legal Entity Name: South Euclid-Lyndhurst City School District
Site Address: Sunview Elementary
Principal Address: 5520 Meadow Wood Boulevard

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) *Note 1*
2011	4,476	4,476	4,476
2010	4,476	4,476	4,476
2009	4,633	4,633	4,633
Average	**4,528**	**4,528**	**4,528**

Project Number	Project Name	In-Service Date	Project Cost $	50% of Project Cost $	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) $	Eligible Rebate Amount (H) $ *Note 2*
1	Sunview Elementary Lighting Retrofit	08/01/2012	$33,503	$16,752	51,526	51,526	-	$2,576	$1,932
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	**$33,503**		**51,526**	**51,526**	**0**	**$2,576**	**$1,932**

Docket No. 13-0168
Site: 5520 Meadow Wood Boulevard

Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of $0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or $250,000 per project. The rebate also cannot exceed $500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost $/MWh (B)	Utility Avoided Cost $ (C)	Utility Cost $ (D)	Cash Rebate $ (E)	Administrator Variable Fee $ (F)	Total Utility Cost $ (G)	UCT (H)
1	52	$ 308	$ 15,884	$ 4,050	$1,932	$515	$ 6,497	**2.4**
Total	**52**	**$ 308**	**15,884**	**4,050**	**$1,932**	**$515**	**6,497**	**2.4**

Notes

(A) From Exhibit 2, = kWh saved / 1000

(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.

(E) This is the amount of the cash rebate paid to the customer for this project.

(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

(G) = (D) + (E) + (F)

(H) =(C) / (G)

South Euclid-Lyndhurst City School District ~ Sunview Elementary
Docket No. 13-0168

Site: 5520 Meadow Wood Boulevard

Lighting Inventory Form

Applicant Name: South Euclid Lyndhurst

Facility Name: Sunview Elementary

Date: 4/8/2013

Lighting Zone (exterior only): Lighting Zone 3

Instructions: Please use one line for each fixture type in a room or area

For existing or proposed control, choose OCC for Occupany Sensor, DAY for photosensor, Hi-Lo for bi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)				POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.		Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
e.g.	*Retrofit*	*400 North Street*	*2*	*Office*	*Other*	*Interior*	*Office - Small*		*Cooled Space*	*3*	*F44ILL*	*112*	*0.34*	*NONE*						*3*	*CFT55/1-BX*	*56*	*0.17*	*No*	*OCC*	*3*	*0.17*	*84%*	*84%*	*34%*	*12%*	*0%*	*30%*	*0.19*	*2,808*	*3,435*	*646*
e.g.	*New Construction*	*Example*	*1*	*Restaurant*	*Conference, Meeting or Training Room*	*Exterior*	*Retail - Small*	*Builing facades (liner ft based)*	*Cooled Space*							*500*	*linear ft*	*3.8*	*1.88*	*5*	*Example Cut Sheet 2*	*25*	*0.13*	*Yes*	*DAY*	*5*	*1.75*	*88%*	*89%*	*34%*	*12%*	*0%*	*0%*	*2.09*	*8,760*	*3,068*	*6,013*
1	Retrofit	520 Meadow Wood Blv	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	24	Cut Sheet 1	72	1.73	NONE						24	Cut Sheet 2	48	1.15	No	NONE		0.58		57%	34%	12%	0%	0%	0.44		2,080	1,342
2	Retrofit	520 Meadow Wood Blv	All	Book Room	Other	Interior	Education - Primary School		Cooled Space	6	Cut Sheet 3	62	0.37	NONE						6	Cut Sheet 4	41	0.25	No	NONE		0.13		57%	34%	12%	0%	0%	0.10		2,080	294
3	Retrofit	520 Meadow Wood Blv	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	18	Cut Sheet 5	98	1.76	NONE						18	Cut Sheet 6	48	0.86	No	NONE		0.90		57%	34%	12%	0%	0%	0.69		2,080	2,097
4	Retrofit	520 Meadow Wood Blv	All	Hallway	Other	Interior	Education - Primary School		Cooled Space	41	Cut Sheet 7	112	4.59	NONE						41	Cut Sheet 6	48	1.97	No	NONE		2.62		57%	34%	12%	0%	0%	2.00		2,080	6,113
5	Retrofit	520 Meadow Wood Blv	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	6	Cut Sheet 8	72	0.43	NONE						6	Cut Sheet 9	27	0.16	No	NONE		0.27		57%	34%	12%	0%	0%	0.21		2,080	629
6	Retrofit	520 Meadow Wood Blv	All	Boiler Room	Other	Interior	Education - Primary School		Cooled Space	8	Cut Sheet 10	62	0.50	NONE						8	Cut Sheet 2	48	0.38	No	NONE		0.11		57%	34%	12%	0%	0%	0.09		2,080	261
7	Retrofit	520 Meadow Wood Blv	All	Storage	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 11	112	0.22	NONE						2	Cut Sheet 12	96	0.19	No	NONE		0.03		57%	34%	12%	0%	0%	0.02		2,080	75
8	Retrofit	520 Meadow Wood Blv	All	Coat Room	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	10	Cut Sheet 13	62	0.62	NONE						10	Cut Sheet 2	48	0.48	No	NONE		0.14		57%	34%	12%	0%	0%	0.11		2,080	326
9	Retrofit	520 Meadow Wood Blv	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	13	Cut Sheet 14	72	0.94	NONE						13	Cut Sheet 2	48	0.62	No	NONE		0.31		57%	34%	12%	0%	0%	0.24		2,080	727
10	Retrofit	520 Meadow Wood Blv	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	8	Cut Sheet 14	72	0.58	NONE						8	Cut Sheet 2	48	0.38	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
11	Retrofit	520 Meadow Wood Blv	All	Hallway	Other	Interior	Education - Primary School		Cooled Space	21	Cut Sheet 14	72	1.51	NONE						21	Cut Sheet 2	48	1.01	No	NONE		0.50		57%	34%	12%	0%	0%	0.38		2,080	1,174
12	Retrofit	520 Meadow Wood Blv	All	Library	Other	Interior	Education - Primary School		Cooled Space	7	Cut Sheet 14	72	0.50	NONE						7	Cut Sheet 2	48	0.34	No	NONE		0.17		57%	34%	12%	0%	0%	0.13		2,080	391
13	Retrofit	520 Meadow Wood Blv	All	Office	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 15	144	0.29	NONE						2	Cut Sheet 12	96	0.19	No	NONE		0.10		57%	34%	12%	0%	0%	0.07		2,080	224
14	Retrofit	520 Meadow Wood Blv	All	Office	Other	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 16	144	0.29	NONE						2	Cut Sheet 17	48	0.10	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
15	Retrofit	520 Meadow Wood Blv	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	21	Cut Sheet 16	144	3.02	NONE						21	Cut Sheet 17	48	1.01	No	NONE		2.02		57%	34%	12%	0%	0%	1.54		2,080	4,696
16	Retrofit	520 Meadow Wood Blv	All	Library	Other	Interior	Education - Primary School		Cooled Space	8	Cut Sheet 18	72	0.58	NONE						8	Cut Sheet 2	48	0.38	No	NONE		0.19		57%	34%	12%	0%	0%	0.15		2,080	447
17	Retrofit	520 Meadow Wood Blv	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 19	112	1.34	NONE						20	Cut Sheet 12	96	1.92	No	NONE		-0.58		57%	34%	12%	0%	0%	-0.44		2,080	-1,342
18	Retrofit	520 Meadow Wood Blv	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	171	Cut Sheet 20	144	24.62	NONE						171	Cut Sheet 12	96	16.42	No	NONE		8.21		57%	34%	12%	0%	0%	6.27		2,080	19,121
19	Retrofit	520 Meadow Wood Blv	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	6	Cut Sheet 20	144	0.86	NONE						6	Cut Sheet 12	96	0.58	No	NONE		0.29		57%	34%	12%	0%	0%	0.22		2,080	671
20	Retrofit	520 Meadow Wood Blv	All	School	Employee Lunch or Break Room	Interior	Education - Primary School		Cooled Space	10	Cut Sheet 20	144	1.44	NONE						10	Cut Sheet 12	96	0.96	No	NONE		0.48		57%	34%	12%	0%	0%	0.37		2,080	1,118
21	Retrofit	520 Meadow Wood Blv	All	Library	Other	Interior	Education - Primary School		Cooled Space	17	Cut Sheet 20	144	2.45	NONE						17	Cut Sheet 12	96	1.63	No	NONE		0.82		57%	34%	12%	0%	0%	0.62		2,080	1,901
22	Retrofit	520 Meadow Wood Blv	All	School	Restrooms	Interior	Education - Primary School		Cooled Space	2	Cut Sheet 21	120	0.24	NONE						2	Cut Sheet 22	92	0.18	No	NONE		0.06		57%	34%	12%	0%	0%	0.04		2,080	130
23	Retrofit	520 Meadow Wood Blv	All	Storage	Other	Interior	Education - Primary School		Cooled Space	12	Cut Sheet 21	120	1.44	NONE						12	Cut Sheet 22	92	1.10	No	NONE		0.34		57%	34%	12%	0%	0%	0.26		2,080	783
24	Retrofit	520 Meadow Wood Blv	All	Multi Purpose	Other	Interior	Education - Primary School		Cooled Space	20	MH175/1	215	4.30	NONE						20	Cut Sheet 23	96	1.92	No	NONE		2.38		57%	34%	12%	0%	0%	1.82		2,080	5,544
25	Retrofit	520 Meadow Wood Blv	All	School	Other	Interior	Education - Primary School		Cooled Space	14	Cut Sheet 24	100	1.40	NONE						14	Cut Sheet 25	27	0.38	No	NONE		1.02		57%	34%	12%	0%	0%	0.78		2,080	2,381
26	Retrofit	520 Meadow Wood Blv	All	School	University Classroom (excluding Shop or Labs)	Interior	Education - Primary School		Cooled Space	16	Cut Sheet 26	60	0.96	NONE						16	Cut Sheet 27	19	0.30	No	NONE		0.66		57%	34%	12%	0%	0%	0.50		2,080	1,528
27													0.00	NONE									0.00		NONE		0.00										0
28													0.00	NONE									0.00		NONE		0.00										0
29													0.00	NONE									0.00		NONE		0.00										0
30													0.00	NONE									0.00		NONE		0.00										0
31													0.00	NONE									0.00		NONE		0.00										0
32													0.00	NONE									0.00		NONE		0.00										0
33													0.00	NONE									0.00		NONE		0.00										0
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41													0.00	NONE									0.00		NONE		0.00										0
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45													0.00	NONE									0.00		NONE		0.00										0
46													0.00	NONE									0.00		NONE		0.00										0
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48													0.00	NONE									0.00		NONE		0.00										0
49													0.00	NONE									0.00		NONE		0.00										0
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51													0.00	NONE									0.00		NONE		0.00										0
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65													0.00	NONE									0.00		NONE		0.00										0
66													0.00	NONE									0.00		NONE		0.00										0
67													0.00	NONE									0.00		NONE		0.00										0
68													0.00	NONE									0.00		NONE		0.00										0
69													0.00	NONE									0.00		NONE		0.00										0
70													0.00	NONE									0.00		NONE		0.00										0
71													0.00	NONE									0.00		NONE		0.00										0
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Lighting Form

PROJECT BASIC INFORMATION										PRE-INSTALLATION (RETROFIT)						BASELINE (NEW CONSTRUCTION)			POST-INSTALLATION							Energy Calculations										
Line Item	New Construction or Retrofit	Building Address	Floor	Area Description	Space Description	Interior or Exterior Fixture	Predominant Space Type	Exterior Lighting Description (Exterior Lighting Only)	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing Sensor Quantity When applicable	Units e.g. Square Feet (ft^2) If multiple fixture types are used, please only enter the total area/distance/qty once per space.	Lighting Power Density (W/unit)	Baseline kW / Space (kW)	Post Fixture Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post kW / Space (kW)	Are Occupancy Sensors Required by Code?	Proposed Control drop down	Proposed Sensor Quantity When applicable	Change in Connected Load (kW)	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Demand Savings (kW)	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual kWh Saved
191													0.00	NONE								0.00		NONE		0.00										0
192													0.00	NONE								0.00		NONE		0.00										0
193													0.00	NONE								0.00		NONE		0.00										0
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249													0.00	NONE								0.00		NONE		0.00										0
250													0.00	NONE								0.00		NONE		0.00										0
Totals										477			56.99						485			34.87				22.12							16.89		2,080	51,526

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	51,526
Total Change in Connected Load	22.12

Annual Estimated Cost Savings	$5,152.60
Annual Operating Hours	2,080

Interior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$2,576.30
Exterior Lighting Incentive @ $0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	$0.00
Total retrofit CFL Incentive @ $1/screw-in CFL lamp; $15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	$0.00
Total retrofit LED Exit Incentive @ $10/exit sign	$0.00
Total Lighting Controls Incentive @ $25/occupancy sensor and $25/daylight sensor (includes all Lighting Controls, both interior and exterior)	$0.00

Total Calculated Incentive	$2,576.30

Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	485
Total Lamp Quantity for retrofit Screw-In CFLs	0

Total Lamp Quantity for retrofit Hard-Wired CFLs	0
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type “Other” indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	16.89

Mercantile Customer Project Commitment Agreement
Cash Rebate Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between The Cleveland Electric Illuminating Company, its successors and assigns (hereinafter called the "Company") and South Euclid Lyndhurst City Schools, Taxpayer ID No. 34-6002696 its permitted successors and assigns (hereinafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Parties as indicated below.

WITNESSETH

WHEREAS, the Company is an electric distribution utility and electric light company, as both of these terms are defined in R.C. § 4928.01(A); and

WHEREAS, Customer is a mercantile customer, as that term is defined in R.C. § 4928.01(A)(19), doing business within the Company's certified service territory; and

WHEREAS, R.C. § 4928.66 (the "Statute") requires the Company to meet certain energy efficiency and peak demand reduction ("EE&PDR") benchmarks; and

WHEREAS, when complying with certain EE&PDR benchmarks the Company may include the effects of mercantile customer-sited EE&PDR projects; and

WHEREAS, Customer has certain customer-sited demand reduction, demand response, or energy efficiency project(s) as set forth in attached Exhibit 1 (the "Customer Energy Project(s)") that it desires to commit to the Company for integration into the Company's Energy Efficiency & Peak Demand Reduction Program Portfolio Plan ("Company Plan") that the Company will implement in order to comply with the Statute; and

WHEREAS, the Customer, pursuant to the Public Utilities Commission of Ohio's ("Commission") September 15, 2010 Order in Case No. 10-834-EL-EEC, desires to pursue a cash rebate of some of the costs pertaining to its Customer Energy Project(s) ("Cash Rebate") and is committing the Customer Energy Project(s) as a result of such incentive.

WHEREAS, Customer's decision to commit its Customer Energy Project(s) to the Company for inclusion in the Company Plan has been reasonably encouraged by the possibility of a Cash Rebate.

WHEREAS, in consideration of, and upon receipt of, said cash rebate, Customer will commit the Customer Energy Project(s) to the Company and will comply with all other terms and conditions set forth herein.

NOW THEREFORE, in consideration of the mutual promises set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties, intending to be legally bound, do hereby agree as follows:

1. **Customer Energy Projects.** Customer hereby commits to the Company and Company accepts for integration into the Company Plan the Customer Energy Project(s) set forth on attached Exhibit 1. Said commitment shall be for the life of the Customer Energy Project(s). Company will incorporate said project(s) into the Company Plan to the extent that such projects qualify. In so committing, and as evidenced by the affidavit attached hereto as Exhibit A, Customer acknowledges that the information provided to the Company about the Customer Energy Project(s) is true and accurate to the best of its knowledge.

a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and/or kW reductions resulting from said projects for purposes of complying with the Statute. By committing the Customer Energy Project(s), Customer further acknowledges and agrees that the Company shall take ownership of the energy efficiency capacity rights associated with said Project(s) and shall, at its sole discretion, aggregate said capacity into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements

b. The Company acknowledges that some of Customer's Energy Projects contemplated in this paragraph may have been performed under certain other federal and/or state programs in which certain parameters are required to be maintained in order to retain preferential financing or other government benefits (individually and collectively, as appropriate, "Benefits"). In the event that the use of any such project by the Company in any way affects such Benefits, and upon written request from the Customer, Company will release said Customer's Energy Project(s) to the extent necessary for Customer to meet the prerequisites for such Benefits. Customer acknowledges that such release (i) may affect Customer's cash rebate discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations.

c. Any future Customer Energy Project(s) committed by Customer shall be subject to a separate application and, upon approval by the Commission, said projects shall become part of this Agreement.

d. Customer will provide Company or Company's agent(s) with reasonable assistance in the preparation of the Commission's standard joint application for approval of this Agreement ("Joint Application") that will be filed with the Commission, with such Joint Application being consistent with then current Commission requirements.

e. Upon written request and reasonable advance notice, Customer will grant employees or authorized agents of either the Company or the Commission reasonable, pre-arranged access to the Customer Energy Project(s) for purposes of measuring and verifying energy savings and/or peak demand reductions resulting from the Customer Energy Project(s). It is expressly agreed that consultants of either the Company or the Commission are their respective authorized agents.

2. **Joint Application to the Commission.** The Parties will submit the Joint Application using the Commission's standard "Application to Commit Energy Efficiency/Peak Demand Reduction Programs" ("Joint Application") in which they will seek the Commission's approval of (i) this Agreement: (ii) the commitment of the Customer Energy Project(s) for inclusion in the Company Plan; and (iii) the Customer's Cash Rebate.

The Joint Application shall include all information as set forth in the Commission's standard form which, includes without limitation:

i. A narrative description of the Customer Energy Project(s), including but not limited to, make, model and year of any installed and/or replaced equipment;
ii. A copy of this Agreement; and
iii. A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.

3. **Customer Cash Rebate.** Upon Commission approval of the Joint Application, Customer shall provide Company with a W-9 tax form, which shall at a minimum include Customer's tax identification number. Within the greater of 90 days of the Commission's approval of the Joint Application or the completion of the Customer Energy Project, the Company will issue to the Customer the Cash Rebate in the amount set forth in the Commission's Finding and Order approving the Joint Application.

    a. Customer acknowledges: i) that the Company will cap the Cash Rebate at the lesser of 50% of Customer Energy Project(s) costs or $250,000; ii) the maximum rebate that the Customer may receive per year is $500,000 per Taxpayer Identification Number per utility service territory; and iii) if the Customer Energy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to file such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discounted by 25%; and

    b. Customer acknowledges that breaches of this Agreement, include, but are not limited to:

        i. Customer's failure to comply with the terms and conditions set forth in the Agreement, or its equivalent, within a reasonable period of time after receipt of written notice of such non-compliance;

        ii. Customer knowingly falsifying any documents provided to the Company or the Commission in connection with this Agreement or the Joint Application.

    c. In the event of a breach of this Agreement by the Customer, Customer agrees and acknowledges that it will repay to the Company, within 90 days of receipt of written notice of said breach, the full amount of the Cash Rebate paid under this Agreement. This remedy is in addition to any and all other remedies available to the Company by law or equity.

4. **Termination of Agreement.** This Agreement shall automatically terminate:

    a. If the Commission fails to approve the Joint Agreement;

    b. Upon order of the Commission; or

    c. At the end of the life of the last Customer Energy Project subject to this Agreement.

    Customer shall also have an option to terminate this Agreement should the Commission not approve the Customer's Cash Rebate, provided that Customer provides the Company with written notice of such termination within ten days of either the Commission issuing a final appealable order or the Ohio Supreme Court issuing its opinion should the matter be appealed.

5. **Confidentiality.** Each Party shall hold in confidence and not release or disclose to any person any document or information furnished by the other Party in connection with this Agreement that is designated as confidential and proprietary ("Confidential Information"), unless: (i) compelled to disclose such document or information by judicial, regulatory or administrative process or other provisions of law; (ii) such document or information is generally available to the public; or (iii) such document or information was available to the receiving Party on a non-confidential basis at the time of disclosure.

    a. Notwithstanding the above, a Party may disclose to its employees, directors, attorneys, consultants and agents all documents and information furnished by the other Party in connection with this Agreement, provided that such employees, directors, attorneys,

consultants and agents have been advised of the confidential nature of this information and through such disclosure are deemed to be bound by the terms set forth herein.

b. A Party receiving such Confidential Information shall protect it with the same standard of care as its own confidential or proprietary information.

c. A Party receiving notice or otherwise concluding that Confidential Information furnished by the other Party in connection with this Agreement is being sought under any provision of law, to the extent it is permitted to do so under any applicable law, shall endeavor to: (i) promptly notify the other Party; and (ii) use reasonable efforts in cooperation with the other Party to seek confidential treatment of such Confidential Information, including without limitation, the filing of such information under a valid protective order.

d. By executing this Agreement, Customer hereby acknowledges and agrees that Company may disclose to the Commission or its Staff any and all Customer information, including Confidential Information, related to a Customer Energy Project, provided that Company uses reasonable efforts to seek confidential treatment of the same.

6. **Taxes.** Customer shall be responsible for all tax consequences (if any) arising from the payment of the Cash Rebate.

7. **Notices.** Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or facsimile transmission addressed as follows:

If to the Company:

FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
Attn: Victoria Nofziger
Telephone: 330-384-4684
Fax: 330-761-4281
Email: vmnofziger@firstenergycorp.com

If to the Customer:

South Euclid Lyndhurst City Schools
5044 Mayfield Road
Attn:Chris Coad
Telephone:216-691-2039
Fax:
Email:ccoad@sel.k12.oh.us

or to such other person at such other address as a Party may designate by like notice to the other Party. Notice received after the close of the business day will be deemed received on the next business day; provided that notice by facsimile transmission will be deemed to have been received by the recipient if the recipient confirms receipt telephonically or in writing.

8. **Authority to Act.** The Parties represent and warrant that they are represented by counsel in connection with this Agreement, have been fully advised in connection with the execution thereof, have taken all legal and corporate steps necessary to enter into this Agreement, and that the undersigned has the authority to enter into this Agreement, to bind the Parties to all provisions herein and to take the actions required to be performed in fulfillment of the undertakings contained herein.

9. **Non-Waiver.** The delay or failure of either party to assert or enforce in any instance strict performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any later time or on any future occasion.

10. **Entire Agreement.** This Agreement, along with related exhibits, and the Company's Rider DSE, or its equivalent, as amended from time to time by the Commission, contains the Parties' entire understanding with respect to the matters addressed herein and there are no verbal or collateral representations, undertakings, or agreements not expressly set forth herein. No change in, addition to, or waiver of the terms of this Agreement shall be binding upon any of the Parties unless the same is set forth in writing and signed by an authorized representative of each of the Parties. In the event of any conflict between Rider DSE or its equivalent and this document, the latter shall prevail.

11. **Assignment.** Customer may not assign any of its rights or obligations under this Agreement without obtaining the prior written consent of the Company, which consent will not be unreasonably withheld. No assignment of this Agreement will relieve the assigning Party of any of its obligations under this Agreement until such obligations have been assumed by the assignee and all necessary consents have been obtained.

12. **Severability.** If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties further agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.

13. **Governing Law.** This Agreement shall be governed by the laws and regulations of the State of Ohio, without regard to its conflict of law provisions.

14. **Execution and Counterparts.** This Agreement may be executed in multiple counterparts, which taken together shall constitute an original without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized officers or representatives as of the day and year set forth below.

The Cleveland Electric Illuminating Company_
(Company)

By: John C. Lingg

Title: V.P. Of Energy Efficiency

Date: 5-7-13

South Euclid Lyndhurst City Schools_
(Customer)

By: [signature]

Title: Director of Business Operations

Date: 4-17-13

Affidavit of South Euclid Lyndhurst City Schools – Exhibit _A _

STATE OF OHIO)
) SS:
COUNTY OF Cuyahoga)

I, Chris Coad ,being first duly sworn in accordance with law, deposes and states as follows:

1. I am the Director of Operations of South Euclid Lyndhurst City Schools ("Customer") As part of my duties, I oversee energy related matters for the Customer.
2. The Customer has agreed to commit certain energy efficiency projects to The Cleveland Electric Illuminating Company ("Company"), which are the subject of the agreement to which this affidavit is attached ("Project(s)").
3. In exchange for making such a commitment, the Company has agreed to provide Customer with Cash ("Incentive"). This Incentive was a critical factor in the Customer's decision to go forward with the Project(s) and to commit the Project(s) to the Company.
4. All information related to said Project(s) that has been submitted to the Company is true and accurate to the best of my knowledge.

FURTHER AFFIANT SAYETH NAUGHT.

Sworn to before me and subscribed in my presence this 17 day of April, 2013

Notary 5/20/14

DENISE J. GUNN
Notary Public, State of Ohio
Recorded in Cuyahoga Cty.
My Commission Expires 8/22/2014

Summary: Application electronically filed by Ms. Lindsey E Sacher on behalf of The Cleveland Electric Illuminating Company and South Euclid Lyndhurst City Schools