

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

Case No.: 12-0566-EL-EEC

Mercantile Customer:

Medina City School Distirct

Electric Utility:

Ohio Edison Company

Program Title or

Lighting Retrofits

Description:

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. <u>10-834-EL-POR</u>

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 <u>ee-pdr@puc.state.oh.us</u>.

Section 1: Mercantile Customer Information

Name: Medina City School District Principal address:140 W. Washington Street, Medina 44256 Address of facility for which this energy efficiency program applies: See Exhibit One Name and telephone number for responses to questions: Meg Bair 440-243-3535 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** The customer is filing this application (choose which applies): A) Individually, without electric utility participation. Jointly with the electric utility. B) The electric utility is: Ohio Edison 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

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

reduction program. (Complete Sections 4, 5, 6, and 7.)

Revised June 24, 2011

Section 3: Energy Efficiency Programs

A)	The	e 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.
В) ,	Ene	rgy 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: <u>573,557</u> 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

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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 v	what date did the customer initiate its demand reduction program?
C)		t is the peak demand reduction achieved or capable of being achieved w calculations through which this was determined):
		<u>0</u> 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 custo	omer is applying for:
	○ Opt	ion 1: A cash rebate reasonable arrangement.
	OR	
	Opti	ion 2: An exemption from the energy efficiency cost recovery hanism implemented by the electric utility.
	OR	
	Com	nmitment payment
B)	The value	e 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 \$21,508 (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

Section 6: Cost Effectiveness

program.)

The program (choose whic	n is cost effective because it has a benefit/cost ratio greater than 1 using the chapplies):
	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.)
Subsectio	n 1: TRC Test Used (please fill in all blanks).
ave dis any	e TRC value of the program is calculated by dividing the value of our pided supply costs (generation capacity, energy, and any transmission or tribution) by the sum of our program overhead and installation costs and incremental measure costs paid by either the customer or the electric lity.
	The electric utility's avoided supply costs were

Our program costs were _____.

The incremental measure costs were _____.

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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.

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Ohio Public Utilities Commission

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

Case No.: 13 -0566-EL-EEC State of Ohio: Jon Burkhart, Affiant, being duly sworn according to law, deposes and says that: 1. I am the duly authorized representative of: Medina City School District [insert customer or EDU company name and any applicable name(s) doing business as] I have personally examined all the information contained in the foregoing application, 2. 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. Cotor of Business Affairs Sworn and subscribed before me this 31 day of December , , 2011. Month/Year Signature of official administering oath

Susan WRIGHT

Print Name and Title My commission expires on 3/11/12SUSAN WRIGHT

Notary Public, State of Ohio My Commission Expires Customer Legal Entity Name: Medina City School District

Site Address: H.G. Blake Elementary
Principal Address: 4704 Lexington Ridge

What date would you have replaced your

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	H.G. BLAKE ELEMENTARY	THE LINEAR FLUORESCENT LIGHITNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W T8 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGITNG SYSTEMS CONSISTING OF 28 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST. See attached invoice, engineering study and lighting specifications.	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.	LICHTING IN A COHOOL FACILITY THE ONLY FILL	N/A

Customer Legal Entity Name: Medina City School District

Site Address: H.G. Blake Elementary

Principal Address: 4704 Lexington Ridge

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	598,006	598,006	639,019 41,013
Average	598,006	598,006	340,016

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 H.	.G. BLAKE ELEMENTARY	01/03/2008	\$63,145	\$31,573	41,013	41,013		\$2,051	\$1,538
					-	-	-		
							-		
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					-	-	-		
		Total	\$63,145		41,013	41,013	0	\$2,051	\$1,538

Docket No. 12-0566

Site: 4704 Lexington Ridge

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	41	\$ 308	\$ 12,643	\$ 3,546	\$1,538	\$410	\$ 5,494	2.3

Total	41	\$	308	12,643	3.546	\$1.538	\$410	5.494	2.3
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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)

Medina City School District ~ H.G. Blake Elementary Docket No. 12-0566

Site: 4704 Lexington Ridge

Lighting Inventory Form

Applicant Name: Facility Name: Medina City Schools H. G. Blake Elementary

Inductions: Please use one time for each findure type in a more or area.

For eating or prepased control, choose OCC In Cooppany Sensor, DAYLTG for photosensor, or NONE for none, Custools must save energy to quality.

The board occurrent, the preparation of CCC Intervent of the preparation of the custools in Column R, they are does no included your incomfree on the Northlandard Lighting form. Date:

		PROJECT	BASIC INFORMATION Predominant Space Type			PRE-II	NSTALLATION					POST-INSTALLAT	ION							Energy	Calculations			
Line Building Address item	Floor Area Description	PROJECT Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Oty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Existing Control Sensor drop down Quantity	Post Fixture Oty	Post Fixture Code	Post Watts/ Po Fixture 1 (W)	st kW / Proposed Space Control (kW) Please erfer	Proposed Interior Change Sensor in Connected Quantity Load	Exterior Change in	Change in Connected Co	Applicant Coincidence Fa	dence Interactive tor Factor (demand)	Factor (energy)	Pre Controls I Factor Co	Post Interior introls Demand	Exterior Demand Demand Savings	d Applicant Presc s Equivalent Equiv	ribed Annual Interior raient Fixture kWh
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Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	41,013
Total Change in Connected Load	17.61

Annual Estimated Cost Savings	\$4,101.30
Annual Operating Hours	2,080

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$2,050.65
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/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$2,050.65
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	835
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)

13.45

Site Address: Ella Canavan Elementary
Principal Address: 825 Lawrence Street

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	ELLA CANAVAN LIGHTING RETROFIT	THE LINEAR FLUORESCENT LIGHITING SYSTEMS CONSISTING OF A COMBINATION OF 32 W T8 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGITING SYSTEMS CONSISTING OF 28 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST. SEE ATTACHED INVOICE, ENGINEERING STUDY AND LIGHTING SPECIFICATIONS.	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Mmps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.	WE WOULD HAVE REPLACED THE LAMPS AND BALLASTS IN EACH FIXTURE AS THEY FAILED. THIS IS COMMON PRACTICE FOR THE MAINTENANCE OF LIGHTING IN A SCHOOL FACILITY. THE ONLY FULL RETROFIT WE WOULD HAVE PERFORMED WOULD HAVE BEEN AREAS UNDERGOING OTHER UPGRADES NO SUCH UPGRADES WERE OR ARE PLANNED FOR THIS FACILITY.	N/A

Rev (4.27.2011)

Customer Legal Entity Name: Medina City School District

Site Address: Ella Canavan Elementary

Principal Address: 825 Lawrence Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	131,120	131,120	165,388
			34,268
Average	131,120	131,120	99,828

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	ELLA CANAVAN LIGHTING RETROFIT	02/03/2008	\$42,715	\$21,358	34,268	34,268		\$1,713	\$1,285
					-	-	-		
					-	-	-		
					-	-	-		
					-		-		
					-	-	-		
					-		-		
		Total	\$42,715		34,268	34,268	0	\$1,713	\$1,285

Docket No. 12-0566

Site: 825 Lawrence Street

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	34	\$ 308	\$ 10,564	\$ 3,546	\$1,285	\$343	\$ 5,174	2.0

Total	34	\$	308	10,564	3,546	\$1,285	\$343	5,174	2.0
		Τ		/	-,	T-/	T	-/	

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)

Medina City School District ~ Ella Canavan Elementary Docket No. 12-0566

Site: 825 Lawrence Street

Lighting Inventory Form

Applicant Name: Facility Name: Date: Medina City Schools Ella Canavan Elementary

Institutions: Please use one time for each findum type in a more or area

For eating or proposed control, choose OCC in Coopany Service, CNYLTG for photoservice, or NOME for none, C-octroit must save energy to qualify.

The total of counting, Regulation (CHI and ent steps in Columni, M, and the quarties of service in Columni R, will be used to collulate your incomine on the Nordlandard Lighting form.

Line Building Address	Floor Area Description	PROJECT Interior or Exterior	BASIC INFORMATION Predominant Space Type	Area Cooling	Pre Fixture	PRE-B	NSTALLATION Pre Watts /	Pre kW / Exis	tina Existina I	Post Post Fixture Co	POST-INST AL	LATION Propose	1 Proposed Interior Change	e Exterior	Change in	Applicant Coincid	ence Interactive	Interactive	Energy C	alculations st Interior	Exterior Deman	d Applicant Presci	fibed Annual Interior
tem		Interior or Exterior Fixture			Pre Fixture Oty		Pre Watts / Fixture (W)	Pre kW / Exist Space Con (kW) drop of	ting Existing I trol Sensor F Sown Quantity	Post Post Fixture Co Fixture Qty	ode Post Watts/ Fixture (W)	Post kW / Propose Space Control (kW) Please only DAYLTG, OCI NONE.	Sensor In Connected Load (kW) excluding CFLs or Exit Signs	Change in Connected Load (kW) excluding CFLs or Exit Signs	Connected Connected Connected (kW) CFL or LED exit sign	oincidence Fact Factor (CF) Estimate	or Factor (demand)	Factor (energy)	Factor Con Fai	rols Demand tor Savings (kW)	Demand Saving Savings (kW) (kW) CFLs of	s Equivalent Equiv	alent Fixture kWh oad Saved (excluding CFLs or Exit Signs)
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e.g. 400 North Street e.g. Example	2 Office	Interior	Office - Small Restaurant - Fast Food	Cooled Space	3	F44ILL	112	0.34 NO	NE SO	3 CFT55/1-BX 5 Example Cut She	56	0.17 OCC	3	0.13	0.17	84% 84% 88% 88%	34%	12%	30	%	0.19	2,808 3,41 8,760 4,11	35
e.g. Example						F41ILL	31	0.40 NO	NE S										30% 30		0.11		
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nem .		Pixture			uly		Fixture (W)	Space (kW)	drop down	Sensor Quantity When applicable	Fixture Oty		Fixture (W)	Space (kW)	Control Please enter AYLTG, OCC or NONE.	Sensor Quantity When spoilcable	in Connected Load (kW) excluding CFLs or Exit Signs Exterior Change in Connected Load (kW) excluding CFLs or Exit Signs	Connected Load (kW) CFL or LED exit sign	Coincidence Factor (CF) Estimate	Coincidence Factor	(demand)	Factor (energy)	Factor	Factor Saving (kW) excludi CFLs of Exit Sig	s Savings (kW) ig excluding r CFLs or s Exit Signs	(kW) CFLs or	Full Load	Equivalent Fixture kW Saved Hours (excluding CFLs or English)
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Project Estimated Annua	al
Savings Summary	

Estimated Annual kWh Savings	34,268
Total Change in Connected Load	14.71

Annual Estimated Cost Savings	\$3,426.80
Annual Operating Hours	2,080

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$1,713.40
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/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$1,713.40
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	691
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)

11.24

Site Address: Claggett Middle School Principal Address: 420 East Union Street

Projec No.	t 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	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	CLAGGETT LIGHTING RETROFIT	THE LINEAR FLUORESCENT LIGHITNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W T3 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGHTNG SYSTEMS CONSISTING OF 28 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST. SEE ATTACHED INVOICE, ENGINEERING STUDY AND LIGHTING SPECIFICATIONS.	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.		N/A

What date would you have replaced your

Customer Legal Entity Name: Meidna City School District

Site Address: Claggett Middle School

Principal Address: 420 East Union Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	409,389	409,389	443,385
			33,996
Average	409,389	409,389	238,691

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	CLAGGETT LIGHTING RETROFIT	04/03/2008	\$48,242	\$24,121	33,996	33,996	-	\$1,700	\$1,275
					-	-	-		
					-		-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	\$48,242		33,996	33,996	0	\$1,700	\$1,275

Docket No. 12-0566

Site: 420 East Union Street

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	34	\$ 308	\$ 10,480	\$ 3,546	\$1,275	\$340	\$ 5,161	2.0

Total	34	\$	308	10,480	3,546	\$1,275	\$340	5,161	2.0
	• •	Τ		,	-,	T -/	T	-,	

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)

Meidna City School District ~ Claggett Middle School Docket No. 12-0566

Site: 420 East Union Street

Lighting Inventory Form

Againet Hance Madra Citr Stroke

| Instructions: Please use one line for each finitizer type in a room or area.
| Facility Hance: Consent Mode School | Facility Hance: Consent Consen

Date:	The total of Column	S, the quantities of CFLs a	and exit signs in Co	lumn M, and the qua	antities of sensors in Column R, will	be used to calcula	te your incentive on the Non	Standard Lighting fo	rm.											
PROJECT BASIC INFORMATION	PR	-INSTALLATION				POST-INST/	ALLATION								Energy	y Calculation	ns			
Line Building Address Floor Area Description Interior or Exterior Predominant Space Type Rem Fixture	Area Cooling Pre Fixture Pre Fixture Cod Oty	Pre Watts / Pre I Fixture Spa (W) (ki	kW / Existing sace Contro kW) drop dow	Existing Sensor Quantity	Post Post Fixture Code Fixture Oty	Post Watts/ Fixture (W)	Post kW / Propose Space Control (kW) Please enter	d Proposed Sensor	Interior Change in Connected	Exterior Change in	Change in Applica Connected Coincide	ant Coincider	nce Interactive r Factor	Interactive	Pre Controls F Factor Co	Post In	Interior Exterio	Demand Savings	Applicant E Equivalent I	rescribed Annual Interior Equivalent Fixture kWh
		(W) (K)	(W) drop dow	n Quantity	Qty	(W)	(kW) Please ente	Quantity	Load	Connected	Load Facto (kW) (CF)	ır	(demand)	(energy)	F	actor S	Savings Saving	(kW)	Full Load	Full Load Saved
							NONE.		CFLs or Exit	excluding CFLs	CFL or LED Estima	ite				ex	(KW) (KW) soluding excludir	g LED Exit	(EFLH)	CFLs or Exit
									Signs	or Exit Signs	exit sign					C	CFLs or CFLs of kit Signs Exit Sign	r Signs	Estimate	Signs)
e.g. 400 North Street 2 Office Interior Office - Small e.g. Example 1 Restaurant Exterior Restaurant - Fast Food	Cooled Space 3 F44ILL Uncooled space 5 Example Cut She	112 0.1 1 50 0.1	34 NONE		3 CFT55/1-BX 5 Example Cut Sheet 2	56	0.17 OCC 0.13 DAYLTG	3		242	0.17 84% 88%	84%	34%	12%	30% 5	30%	0.44	0.19	2,808	3,435
										0.75	66%					3076	0.77		0,700	4,130
1 Classroom Interior Education - Primary School 2 Classroom Interior Education - Primary School	Cooled Space 181 F41ILL Cooled Space 632 F42ILL	31 5.6 59 37.	.61 NONE 7.29 NONE	_	181 CUT SHEET 1 632 CUT SHEET 2 16 CUT SHEET 3 124 CUT SHEET 4	22 44	3.98 NONE 27.81 NOME 10.41 NOME 10.79 NOME 10.79 NOME NOME NOME NOME NOME NOME NOME NOME		1.63 9.48			57% 57%	34% 34%	12%		_	7.24			2,080 3,795 2,080 22,085
3 Classroom Interior Education - Primary School 4 Classroom Interior Education - Primary School	Cooled Space 632 F42ILL Cooled Space 16 F43ILL Cooled Space 124 F44ILL	89 1.4	229 NOME		16 CUT SHEET 3	65	1.04 NONE		0.38			57% 57%	34%	12%			0.29 2.37			2,080 895
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	Line Building	Address Floor Area Description	PROJECT Interior or Exterior	BASIC INFORMATION Predominant Space Type	Area Cooling	Pre Fixture	PRE-IN: Pre Fixture Code	Pre Watts /	Pre kW /	Existing	Existing	Post Po	ost Fixture Code	POST-INSTALL Post Watts/	Post kW /	Proposed	Proposed	Interior Change Exterior	Change in	Applicant	Coincidence	Interactive	Interactive	Pre Controls	Post Interio	Exterior	Demand	Applicant	Prescribed Annual Inte
	nem		Pixture			uly		(W)	(kW)	rop down	Quantity (hen applicable	Qty		(W)	(kW)	Please enter NAYLTG, OCC or	Quantity When applicable	Load Connected	Load	Factor	Pactor	(demand)	(energy)	Pactor	Factor Saving	s Savings	(kW)	Full Load	Equivalent Fixture kV Saved Hours (excludin CFLs or E Signs)
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								L	JU.E.1		<u> </u>			L															53,936

Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	33,996
Total Change in Connected Load	14.59

Annual Estimated Cost Savings	\$3,399.60
Annual Operating Hours	2,080

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$1,699.80
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/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$1,699.80
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	953
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

equivalent full-load hours (EFLH) for facili	ty type. Other indicated on t	the Lighting F
		7
Demand Savings (For Internal Use	11.15	

Site Address: Medina High School Principal Address: 777 East Union Street

Projec No.	t 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	MEDINA HIGH SCHOOL LIGHTING RETROFIT	THE LINEAR FLUORESCENT LIGHITNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W T8 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGHTNG SYSTEMS CONSISTING OF 28 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST.SEE ATTACHED INVOICE, ENGINEERING STUDY AND LIGHTING SPECIFICATIONS.	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.	LIGHTING IN A SCHOOL EACH ITY THE ONLY ELLI	N/A

Site Address: Medina High School

Principal Address: 777 East Union Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	6,873,600	6,873,600	7,203,674 330,074
Average	6,873,600	6,873,600	3,766,874

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)	Rescriptive Rebate Amount (G) \$	Rebate Amount (H) \$ Note 2
1	MEDINA HIGH SCHOOL LIGHTING RETROFIT	06/03/2008	\$228,622	\$114,311	330,074	330,074	-	\$16,504	\$12,378
					-	-	-		
							-		
					-	-	-		
							-		
					-	-	-		
					-		-		
		Total	\$228,622		330,074	330,074	0	\$16,504	\$12,378

Eligible

Drocerintive

Docket No. 12-0566

Site: 777 East Union Street

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	330	\$ 308	\$ 101,755	\$ 3,546	\$12,378	\$3,301	\$ 19,225	5.3

Total	330	\$	308	101,755	3.546	\$12,378	\$3,301	19.225	5.3
		Τ		,,,,,,	-,	T/	T-/	/	

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)

Medina City School District ~ Medina High School Docket No. 12-0566

Site: 777 East Union Street

Site Address: Sidney Fenn Elementary
Principal Address: 320 North Spring Grove

What date would you have replaced your

Projec No.	t 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	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	SIDNEY FENN LIGHTING RETROFIT	THE LINEAR FLUORESCENT LIGHITNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W T8 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGHTNG SYSTEMS CONSISTING OF 28 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST. SEE ATTACHED INVOICE, ENGINEERING STUDY AND LIGHTING SPECIFICATIONS.	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.		N/A

Mercantile Customer Program

Site Address: Sidney Fenn Elementary

Principal Address: 320 North Spring Grove

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	231,280	231,280	250,907 19.627
Average	231,280	231,280	135.267

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	SIDNEY FENN LIGHTING RETROFIT	01/03/2008	\$27,821	\$13,911	19,627	19,627	-	\$981	\$736
					-	-	-		
					-		-		
					-	-	-		
					-		-		
					-	-	-		
					-	-	-		
		Total	\$27,821		19,627	19,627	0	\$981	\$736

Docket No. 12-0566

Site: 320 North Spring Grove

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	20	\$ 308	\$ 6,051	\$ 3,546	\$736	\$196	\$ 4,478	1.4

Total	20	\$	308	6.051	3,546	\$736	\$196	4,478	1.4
		Τ		-,	-,	7.00	T-2-	.,	

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)

Medina City School District \sim Sidney Fenn Elementary Docket No. 12-0566

Site: 320 North Spring Grove

Lighting Inventory Form

Applicant Name: Facility Name: Medina City Schools Sidney Fenn Elementary

Inductions: Please use one time for each findure type in a more or area.

For eating or prepased control, choose OCC In Cooppany Sensor, DAYLTG for photosensor, or NONE for none, Custools must save energy to quality.

The board occurrent, the preparation of CCC Intervent of the preparation of the custools in Column R, they are does no included your incomfree on the Northlandard Lighting form. Date:

		PROJECT	BASIC INFORMATION Predominant Space Type			PRE-II	NSTALLATION					POST-INSTALLAT	TION							Energ	gy Calculations				
Line Building Address Item	Floor Area Description	PROJECT Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Existing Control Sensor drop down Quantity	Post Fixture Oty	Post Fixture Code	Post Watts/ Po Fixture 1 (W)	ost kW / Proposed Space Control Please enter DAYLTG, OCC o	Proposed Interior Chang Sensor in Connected Quantity Load	e Exterior Change in	Change in Connected C	Applicant Coin coincidence Fa	dence Interacth ctor Factor (demand	e Interactive Factor (energy)	Pre Controls Factor C	Post Interi Controls Dema	nior Exterior and Demand	Demand App Savings Equ	plicant Prescribed ivalent Equivalent	Annual Interior t Fixture kWh
							()	(8.07)	When applica	bis City		(**)	DAYLTG, OCC o NONE.	When applicable (kW) excluding	Load (kW)	Connected C Load (kW) CFL or LED exit sign	coincidence Fi Factor (CF) Estimate	(demand	(energy)		(kW	V) (kW)	CFLs or H	ours Hours	(excluding
														Signs	or Exit Signs	exit sign	Lionate				CFLs Evit Si	s or CFLs or	Signs Est	timate	Signs)
																					Z.ii. Si	LAN SIGNS			
e.g. 400 North Street e.g. Example	2 Office 1 Restaurant	Interior Exterior	Office - Small Restaurant - Fast Food	Cooled Space Uncooled space	3 5	F44ILL Example Cut Sheet 1	112 50	0.34	NONE OCC 5	3 5	CFT55/1-BX Example Cut Sheet 2	56 25	0.17 OCC 0.13 DAYLTG	5	0.13	0.17	84% 8 88% 8	¢% 34% 8%	12%	30%	30% 50%	0.11	0.19 2	808 3,435 760 4,156	
1 2	Classroom	Interior	Education - Primary School Education - Primary School	Cooled Space	20 533 10	F41ILL F42ILL F44ILL	31	0.62	NONE	20	CUT SHEET 1 CUT SHEET 2 CUT SHEET 4	22	0.44 NONE 23.45 NONE 0.87 NONE NONE NONE NONE NONE NONE NONE NONE	0.18 8.00 0.25				7% 34% 7% 34% 7% 34%	12%		0.14 6.1 0.19	4		2,080	419 18,625 582
3	Classroom	Interior Interior	Education - Primary School Education - Primary School	Cooled Space Cooled Space	10	F44ILL	112	1.12	NONE NONE	10	CUT SHEET 4	87	0.87 NONE NONE	0.25				7% 34%	12%		0.19	19		2,080	582
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Line Building Add	dress Floor Area Description	PROJECT I Interior or Exterior Fixture	BASIC INFORMATION Predominant Space Type	Area Cooling	Pre Fixture Qty	PRE-IN: Pre Fixture Code	Pre Watts /	Pre kW /	Existing Control rop down	Existing F	Post Po	ost Fixture Code	POST-INSTALL Post Watts/	Post kW /	Proposed	Proposed	Interior Change Exterior	Change in	Applicant	Coincidence	Interactive	Interactive	Pre Controls	Post Interi	or Exterior	Demand	Applicant	Prescribed Annual Inte
nem .		Pixture			Giy		Fixture (W)	Space (kW)	rop down	Sensor Fi Quantity	Exture City		Fixture (W)	Space (kW)	Control Please enter MYLTG, OCC or NONE.	Sensor Quantity When applicable	in Connected Change in Load Connected (kW) excluding Load (kW) CFLs or Exit Signs CEXIT Signs	Connected Load (kW) CFL or LED exit sign	Coincidence Factor (CF) Estimate	Coincidence Factor	(demand)	Factor (energy)	Factor	Controls Dema Factor Savin (kW exclusion CFLs Exit Si	gs Savings (kW) ing excluding or CFLs or gns Exit Signs	(kW) CFLs or LED Exit Signs	Full Load	Full Load Saved Hours (excludin CFLs or E Signs)
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Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	19,627
Total Change in Connected Load	8.43

Annual Estimated Cost Savings	\$1,962.70
Annual Operating Hours	2,080
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$981.35
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 Lighting Controls Incentive @ \$25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

\$0.00

Total retrofit LED Exit Incentive @

\$10/exit sign

Total Calculated Incentive	\$981.35
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	563
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

	oe "Other" indicated on th	ne Lighting
Demand Savings (For Internal Use Only)	6.44	
	-	

Site Address: Garfield Elementary
Principal Address: 234 Broadway Street

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	GARFIELD LIGHTING RETROFIT	THE LINEAR FLUORESCENT LIGHITNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W T8 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGHTNG SYSTEMS CONSISTING OF 28 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST.SEE ATTACHED INVOICE, ENGINEERING STUDY AND LIGHTING SPECIFICATIONS.	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.	LIGHTING IN A COLLOCK FACILITY THE ONLY FILL	N/A

Docket No. 12-0566

Rev (4.27.2011)

Site: 234 Broadway Street

Site Address: Garfield Elementary

Principal Address: 234 Broadway Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	289,795	289,795	322,200
			32,405
Average	289.795	289.795	177.303

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	GARFIELD LIGHTING RETROFIT	04/01/2008	\$38,766	\$19,383	32,405	32,405		\$1,620	\$1,215
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					-	-	-		
		Total	\$38,766		32,405	32,405	0	\$1,620	\$1,215

Docket No. 12-0566

Site: 234 Broadway Street

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
-	(A)	(B)	(Ċ)	(D)	(E)	(F)	(Ġ)	(H)
1	32	\$ 308	\$ 9,990	\$ 3,546	\$1,215	\$324	\$ 5,085	2.0

Total	32	\$ 308	9,990	3,546	\$1,215	\$324	5,085	2.0

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)

Medina City School District ~ Garfield Elementary Docket No. 12-0566

Site: 234 Broadway Street

Lighting Inventory Form

Medina City Schools Garfield Elementary

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

For earling or proposed control, choose OCC for Occupany Sensor, DANITO for photosensor, or NOME for room, Controls must save energy to qualify.

The leaf of Counter S, the quarties of CHS and set steps in Column M, wed the quarties of sensors in Column M, will be used to colubate your incomine on the Nordlanded Lighting form. Applicant Name: Facility Name: Date:

Date:			The loss of Column 5,	the quantities of CPLs a	ind exit signs in Cold	innim, and the quantities or:	sergors in Column N, will	be used to calculate your incenti	re on the reonsu	andard Eigneng for	mic.									
The Building Address Days Aven Burnstelling	PROJECT BASIC INFORMATION Interior or Exterior Predominant Space Type Fixture	Area Cooling Pr	PRE-II	NSTALLATION Design	ow I France	Estation Dead	Deat Flat on Code	POST-INSTALLATION			between Channel Control	Observe to		Colonidar and I between	I between the	En	ergy Calculations	Fotograph F		I Down and I town all towns
item Building Address Proof Area Description	Fixture Precommunit Space Type	Area Cooling Pr	Qty	Pre Watts / Pre I Fixture Spe (W) (ki	kW / Existing ace Control W) drop down	Existing Post Sensor Fixture Quantity Qty	Post Pitture Code	Post Watts/ Post kW / Fixture Space (W) (kW)	Proposed Control Please enter DAYLTG, OCC or NONE.	Proposed Sensor Quantity	in Connected Change in Load Connected (kW) excluding Load (kW)	Connected Load (kW) CFL or LED	Coincidence	Factor Factor	Factor	Factor	Controls Demand	Demand S	Savings Equivale	it Equivalent Fixture kWh
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4 Classroom	Interior Education - Primary School	Cooled Space	98 F43ILL 359 F44ILL	112 40.	21 NONE	359	CUT SHEET 3 CUT SHEET 4	65 6.37 87 31.23	NONE		2.35 8.98			57% 34% 57% 34%	12%		1.80 6.86			2,080 5,479 2,080 20,908
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					634		<u>L</u>	59.04			034		L	45.13			10.91							10.62				32,405

Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	32,405
Total Change in Connected Load	13.91

Annual Estimated Cost Savings	\$3,240.50
Annual Operating Hours	2,080

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$1,620.25
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/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$1,620.25
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	634
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)

10.62

Site Address: Heritage Elementary
Principal Address: 833 Guilford Blvd

Pro N	ject lo.	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	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	HERITAGE LIGHTING RETROFIT	THE LINEAR FLUORESCENT LIGHITNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W TB LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGITNG SYSTEMS CONSISTING OF 28 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST. SEE ATTACHED INVOICE, ENGINEERING STUDY AND LIGHTING SPECIFICATIONS.	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.		N/A
	-					
	-					
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	-					
	-					

What date would you have replaced your

Site Address: Heritage Elementary

Principal Address: 833 Guilford Blvd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	408,080	408,080	428,329
			20,249
Average	408,080	408,080	224,289

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	HERITAGE LIGHTING RETROFIT	04/03/2008	\$23,336	\$11,668	20,249	20,249		\$1,012	\$759
					-	-	-		
					-		-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	\$23,336		20,249	20,249	0	\$1,012	\$759

Docket No. 12-0566

Site: 833 Guilford Blvd

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
-	(A)	(B)	(C)	(D)	(E)	(F)	(Ġ)	(H)
1	20	\$ 308	\$ 6,242	\$ 3,546	\$759	\$202	\$ 4,508	1.4

Total	20	\$	308	6.242	3.546	\$759 \$202	4.508	1.4
		Τ		~,	-,	7.00 7-0-	.,	

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)

Medina City School District ~ Heritage Elementary Docket No. 12-0566

Site: 833 Guilford Blvd

Lighting Inventory Form

Applicant Name: Facility Name: Date: Medina City Schools Heritage Elementary

Institutions: Please use one time for each findum type in a more or area

For eating or proposed control, choose OCC in Cooppany Service, CNYLTG for photoservice, or NOME for none, C-octrois must save energy to qualify.

The total of counties, the quarties of CCC in and entiry air in Columnit, and the quarties of service in Columnit, will be used to collulate your incomine on the Nordillandard Lighting form.

		PROJECT	BASIC INFORMATION			PRE-II	NSTALLATION				POST-INSTALI	ATION							Energy Ca	(culations			
tine Building Address tem	Floor Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Oty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Exis Space Cor (kW) drop	sting Existing I ntrol Sensor F down Quantity	Post Post Fixture Cod ixture Oty	de Post Watts/ Fixture (W)	Post kW / Proposed Space Control Please enter Please enter Please enter	Proposed Interior Change Sensor in Connected Quantity Load	Change in C	hange in Applica onnected Coincides	nt Coincidence nce Factor	Factor (demand)	Factor (energy)	re Controls Pos Factor Contr	t Interior E ols Demand D	xterior Demand emand Savings	Applicant Prescribe Equivalent Equivale	ent Fixture kWh
							(W)	(kW)	When applicable	Qty	(W)	Space Control Please erier DAYLTG, OCC. NONE.	Sensor In Connected Quantity Load (kW) excluding CFLs or Exit Signs	Change in C Connected Load (kW) excluding CFLs CI or Exit Signs	connected Coincider Load Factor (kW) (CF) FL or LED Estimat		(demand)	(energy)	Fact	or Savings S (kW)	emand Savings avings (kW) (kW) CFLs or cluding LED Exit	Full Load Full Loa Hours Hours (EFLH)	ent Fixture kWh ad Saved (excluding CFLs or Exit Signs)
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																				Exit Signs Ex	it Signs		
e.g. 400 North Street e.g. Example	2 Office	Interior	Office - Small Restaurant - Fast Food	Cooled Space	3	F44ILL	112	0.34 NO	INE	3 CFT55/1-BX	56	0.17 OCC	3		0.17 84% 88%	84%	34%	12%	309	2	0.19	2,808 3,435 8,760 4,156	
e.g. Example	1 Restaurant	Exterior	Restaurant - Fast Food	Uncooled space	5	Example Cut Sheet 1	50	0.25 O	CC 5	3 CFT55/1-BX 5 Example Cut Shee		0.13 DAYLTG	5	0.13	88%				30% 509		0.11	8,760 4,156	
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Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	20,249
Total Change in Connected Load	8.69

Annual Estimated Cost Savings	\$2,024.90
Annual Operating Hours	2,080

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$1,012.45
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/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$1,012.45
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	390
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

equivalent full-load hours (EFLH) for facilit	y type Other Indicated of	Title Lighting Form t
		٦
Demand Savings (For Internal Use Only)	6.64	

Lighting Inventory Form

Applicant Name: Facility Name: Medina City Schools Medina High School

Inductions: Please use one time for each findure type in a more or area.

For eating or prepased control, choose OCC In Cooppany Sensor, DAYLTG for photosensor, or NONE for none, Custools must save energy to quality.

The board occurrent, the preparation of CCC Intervent of the preparation of the custools in Column R, they are does no included your incomfree on the Northlandard Lighting form. Date:

		PROJECT	BASIC INFORMATION Predominant Space Type			PRE-II	NSTALLATION					POST-INSTALLA	TION							Energy C	alculations				
Line Building Address Item	Floor Area Description	PROJECT Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Existing Control Sensor drop down Quantity	Post Fixture Qty	Post Fixture Code	Post Watts/ Pi Fixture : (W)	ost kW / Proposed Space Control Please enter DAYLTG, OCC o	Proposed Interior Chang Sensor in Connected Quantity Load	e Exterior Change in	Change in Connected C	Applicant Coincidence Fa Factor	dence Interactive for Factor	Factor (energy)	Pre Controls Pre Factor Con	st Interior rols Demand	Exterior Deman Demand Saving	nd Applicant gs Equivalent	Prescribed Ar Equivalent F	hual Interior octure kWh
							(W)	(KW)	When applical	Me City		(w)	DAYLTG, OCC o NONE.	When applicable (kW) excluding	Load (kW)	Connected C Load (kW) CFL or LED exit sign	Sincidence Fa Factor (CF) Fstimate	(demand)	(energy)	Fai	(kW)	(kW) CFLs (or Hours	Hours	excluding
														Signs	or Exit Signs	exit sign					CFLs or	CFLs or Signs	s Estimate	ľ	Signs)
																					Lui Signa C	An Organi			
e.g. 400 North Street e.g. Example	2 Office 1 Restaurant	Interior Exterior	Office - Small Restaurant - Fast Food	Cooled Space Uncooled space	3 5	F44ILL Example Cut Sheet 1	112 50	0.34	NONE OCC 5		CFT55/1-BX Example Cut Sheet 2				0.13	0.17	84% 84 88% 88	% 34%	12%	30% 50	%	0.19	2,808 8,760		
1 2	Classroom	Interior	Other - Please estimate CF and EFLH	Cooled Space	46	F41ILL F42ILL F43ILL	31	1.43	NONE	46 1 00E	CUT SHEET 1 CUT SHEET 2 CUT SHEET 3 CUT SHEET 4	22	1.01 NONE 79.42 NONE 139.13 NOME 8.61 NOME NOME NOME NOME NOME NOME NOME NOME	0.41 27.08 51.00				34%	12% 12% 12%				3,640	3,640 3,640 3,640 3,640	1,688
3	Classroom Classroom	Interior Interior Interior	Other - Please estimate CF and EFLH	Cooled Space Cooled Space Cooled Space	46 1,805 2,125 99	F43ILL F44II I	89 112	189.13	NONE NONE	2,125	CUT SHEET 3	65	138.13 NONE 8.61 NONE	51.00 2.48				34%	12%				3,640	3,640	207,917
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139 140 141 141 142 143 144 145	uliding Address Floor Area Description	PROJECT B Interior or Exterior Fixture	BASIC INFORMATION Predominant Space Type	Area Cooling	Pre Fixture	Pre Fixture Code	Pre Watts /	Pre kW / E	otation For			POST-INSTALI										Energ	y Calculations				
141 142 143 144 145 146		rixture							Seator Co.	sting Pos	t Post Fixture Code	Post Watts/	Post kW /	Proposed	Proposed	Interior Change Exterior	Change in	Applicant	Coincidence	Interactive	Interactive	Pre Controls	Post Interior	Exterior	Demand	Applicant F	rescribed Annual Interio
141 142 143 144 145 146					Oty		Fixture (W)	Space ((kW) d	ixisting Exit Control Ser rop down Que	nsor Fixtu antity Ot	/	Fixture (W)	Space (kW)	Control Please enter AYLTG, OCC or NONE.	Sensor Quantity When applicable	in Connected Connected (kW) excluding CFLs or Exit Signs Exterior Change in Connected Load (kW)	Connected Load (kW) CFL or LED exit sign	Coincidence Factor (CF) Estimate	Factor	Factor (demand)	Factor (energy)	Factor C	ontrols Demand Savings (kW) excludin CFLs or Exit Sign	Savings (kW) excluding CFLs or Exit Signs	(kW) CFLs or LED Exit Signs	Full Load Hours (EFLH) Estimate	Equivalent Fixture kWh Saved Hours (excluding CFLs or Ext Signs)
141 142 143 144 145 146														NONE.		CFLs or Exit excluding CFLs	CFL or LED	Estimate					excludin	excluding	LED Exit	(EFLH)	CFLs or Ex
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Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	330,074
Total Change in Connected Load	80.96

Annual Estimated Cost Savings	\$33,007.40
Annual Operating Hours	3,640

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$16,503.70
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/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

· Landau de la companya de la compa	
Total Calculated Incentive	\$16,503.70
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	4075
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

equivalent full load flours (Ef Eff) for facili	ty type "Other" indicated on th	the Lighting
Demand Savings (For Internal Use Only)	0.00	

Customer Legal Entity Name: Medina City School District

Site Address: A.I. Root Elementary
Principal Address: 333 Sturbridge Drive

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	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	A.I. ROOT LIGHTING RETROFIT	THE LINEAR FLUORESCENT LIGHITNG SYSTEMS CONSISTING OF A COMBINATION OF 32 W T8 LAMPS AND BALLASTS WERE REPLACED WITH THE NEW LIGITNG SYSTEMS CONSISTING OF 28 WATT LAMPS AND LOW BALLAST FACTOR (.77) ELECTRONIC BALLAST. SEE ATTACHE INVOICE, ENGINEERING STUDY AND LIGHTING SPECIFICATIONS.	A Fluke 335 True RMS Plant Meter was used by a licensed electrician to take voltage and amperage readings of a sampling of fixtures to determine the energy use of the lighting systems, both on the old existing system and the newly installed system. Volts X Amps = Watts. The results are then multiplied by the number of hours which the system is run to get Kwh savings.	WE WOULD HAVE REPLACED THE LAMPS AND BALLASTS IN EACH FIXTURE AS THEY FAILED. THIS IS COMMON PRACTICE FOR THE MAINTENANCE OF LIGHTING IN A SCHOOL FACILITY. THE ONLY FULL RETROFIT WE WOULD HAVE PERFORMED WOULD HAVE BEEN AREAS UNDERGOING OTHER UPGRADES NO SUCH UPGRADES WERE OR ARE PLANNED FOR THIS FACILITY.	N/A

What date would you have replaced your

Customer Legal Entity Name: Medina City School District

Site Address: A.I. Root Elementary

Principal Address: 333 Sturbridge Drive

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	877,360	877,360	939,285
			61,925
Average	877,360	877,360	500,605

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 A.I.	ROOT LIGHTING RETROFIT	03/03/2008	\$88,407	\$44,204	61,925	61,925		\$3,096	\$2,322
					-	-	-		
							-		
					-	-	-		
							-		
					-	-	-		
							-		
		Total	\$88,407		61,925	61,925	0	\$3,096	\$2,322

Docket No. 12-0566

Site: 333 Sturbridge Drive

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	62	\$ 308	\$ 19,090	\$ 3,546	\$2,322	\$619	\$ 6,487	2.9

Total	62	\$	308	19,090	3.546	\$2,322	\$619	6.487	2.9
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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)

Medina City School District ~ A.I. Root Elementary Docket No. 12-0566

Site: 333 Sturbridge Drive

Lighting Inventory Form

Applicant Name: Facility Name: Medina City Schools

A.I. Root Middle School

Inductions: Please use one time for each findure type in a more or area.

For eating or prepased control, choose OCC In Cooppany Sensor, DAYLTG for photosensor, or NONE for none, Custools must save energy to quality.

The board occurrent, the preparation of CCC Intervent of the preparation of the custools in Column R, they are does no included your incomfree on the Northlandard Lighting form. Date:

		PROJECT	BASIC INFORMATION Predominant Space Type			PRE-II	NSTALLATION					POST-INSTALLATION	ON							Energy	Calculations			
Line Building Address Item	Floor Area Description	PROJECT Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Existing Control Sensor drop down Quantity	Post Fixture Qty	Post Fixture Code	Post Watts/ Pos Fixture Si (W) (I	pace Control (kW) Please enter DAYLTG, OCC of	Proposed Interior Change Sensor in Connected Quantity Load	Exterior Change in	Change in Connected Co	Applicant Coinc pincidence Fa	dence Interactive tor Factor (demand)	Factor (energy)	Pre Controls I Factor Co	Post Interior ontrols Demand	Exterior Demand Demand Savings	Applicant Prescri Equivalent Equiva	bed Annual Interior alent Fixture kWh
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														Signs	or Exit Signs	exit sign					CFLs or	CFLs or Signs	Estimate	Signs)
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e.g. 400 North Street e.g. Example	2 Office 1 Restaurant	Interior Exterior	Office - Small Restaurant - Fast Food	Cooled Space Uncooled space	3 5	F44ILL Example Cut Sheet 1	112 50	0.34	NONE OCC 5		CFT55/1-BX Example Cut Sheet 2	56 0 25 0	0.17 OCC 0.13 DAYLTG	5	0.13	0.17	84% 8	% 34%	12%	30%	30% 50%	0.19	2,808 3,43 8,760 4,15	
1 2	Classroom	Interior	Education - Primary School Education - Primary School	Cooled Space	50	F41ILL F42ILL F43ILL	31	1.55	NONE	50	CUT SHEET 1 CUT SHEET 2 CUT SHEET 3 CUT SHEET 4	22 1	1.10 NONE 1.47 NONE 1.000 NONE 1.18 NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	0.45			5	% 34% % 34% % 34%	12%		0.34		2,08	80 1,048 80 5,137 80 51,605 80 4,135
3	Classroom	Interior Interior	Education - Primary School Education - Primary School Education - Primary School	Cooled Space Cooled Space Cooled Space	50 147 923	F43ILL E44III	89	82.15	NONE NONE	923	CUT SHEET 3	65 6 07 6	0.00 NONE	2.21 22.15			5	% 34% % 34%	12%		0.34 1.68 16.92 1.36		2,08	0 51,605 0 4135
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Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	61,925
Total Change in Connected Load	26.58

Annual Estimated Cost Savings	\$6,192.50
Annual Operating Hours	2,080

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$3,096.25
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/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$3,096.25
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	1191
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

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Mercantile Customer Project Commitment Agreement Cash Rebate Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between The Ohio Edison Company, its successors and assigns (hereinafter called the "Company") and The Medina City School District, Taxpayer ID No.34-6001854its 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 believes that it 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 A (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").

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, 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. It is expressly agreed that Customer may use any and all energy related and other attributes created from the Customer Energy Project(s) to the extent permitted by state or federal laws or regulations, provided, and to the extent, that such uses by Customer do not conflict with said compliance by the Company.

- 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 and Annual Report. 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 Case 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:

Medina City School District_ 140 W. Washington Street Medina, Ohio 44256 Attn: John Burkhart 330-636-3110

burkharti@mcsoh.org

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.

Medina City School District	Ohlo Edison
(Customer)	(Company)
By: h	By: Al. Cargn
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Date: (2-3/-//	Date: 3 - 5 - 12

This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 12-0566-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of Ohio Edison Company and Medina City School District electronically filed by Ms. Jennifer M. Sybyl on behalf of Ohio Edison Company and Medina City School District