Ohio Public Utilities Commission

Case No.: 14-0364-EL-EEC

Mercantile Customer:	University of Toledo
Electric Utility:	The Toledo Edison Company
Program Title or Description:	Health Sciences Campus renovations

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: The University of Toledo

Principal address:2801 W. Bancroft Toledo, OH 43606

Address of facility for which this energy efficiency program applies:3000 Arlington Ave, Toledo OH 43614

Name and telephone number for responses to questions: Daniel Dumond 614-580-3352

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

The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.)

The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

Section 2: Application Information

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

Individually, without electric utility participation.

- Jointly with the electric utility.
- B) The electric utility is: The Toledo 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 reduction program. (Complete Sections 4, 5, 6, and 7.)
 - Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

- A) The customer's energy efficiency program involves (check those that apply):
 - Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)). **If Checked**, **Please see Exhibit 1 and Exhibit 2**
 - Installation of new equipment to replace equipment that needed to be replaced The customer installed new equipment on the following date(s):
 - Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):
 - Behavioral or operational improvement.
- B) Energy savings achieved/to be achieved by the energy efficiency program:
 - 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: 303,274 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**

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

Annual savings: _____ kWh

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

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

	Section 4: Demand Reduction/Demand Response Programs
A)	The customer's program involves (check the one that applies):
	Coincident peak-demand savings from the customer's energy efficiency program.
	Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
	Potential peak-demand reduction (check the one that applies):
	☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
	☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.
B)	On what date did the customer initiate its demand reduction program?
C)	What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

_____ kW

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

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

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

- A) The customer is applying for:
 - Option 1: A cash rebate reasonable arrangement.

OR

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

OR

Commitment payment

- B) The value of the option that the customer is seeking is:
 - Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
 - A cash rebate of \$<u>9,966</u>. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)
 - Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.
 - An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for _____ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

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

OR

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

Section 6: Cost Effectiveness

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

- Total Resource Cost (TRC) Test. The calculated TRC value is: ____(Continue to Subsection 1, then skip Subsection 2)
- Utility Cost Test (UCT) . The calculated UCT value is: **See Exhibit 3** (Skip to Subsection 2.)

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

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

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The incremental measure costs were _____.

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

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

Our avoided supply costs were See Exhibit 3

The utility's program costs were See Exhibit 3

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

Section 7: Additional Information

Please attach the following supporting documentation to this application:

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

Ohio Public Utilities Commission

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

Case No.: 14-0364-EL-EEC

State of Ohio :

MICHEAL GREEN Affiant, being duly sworn according to law, deposes and says that:

I am the duly authorized representative of: 1.

UNIVERSITY OF TOLE (C) Findert customer or EDU company name and any applicable name(s) doing business as]

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

X NK DIRECTOR. OF ENERAL MAAMT Signature of Affiant & Title

Sworn and subscribed before me this <u>24</u> day of <u>Feb</u>. , <u>2014</u> Month/Year

Signature of official administering oath <u>Lorie Am Sarnes</u> Print Name and Title

My commission expires on 12-5-77



No.

1

Customer Legal Entity Name: University of Toledo

Site Address: University of Toledo -Principal Address: 3000 Arlington Avenue

What date would you have replaced your

equipment if you had not replaced it early? Please describe the less efficient new Project Narrative description of your program including, but not limited to, Description of methodologies, protocols and practices Also, please explain briefly how you equipment that you rejected in favor of Project Name make, model, and year of any installed and replaced equipment: used in measuring and verifying project results determined this future replacement date. the more efficient new equipment. Data was gathered from attachment A and entered into attachment B to determine savings. This was entered into the lighting rebate calculator to No known date. Equipment was in working order and had no known obsolescence date. It was repalaced to improve N/A This project includes the replacement of exsiting lighting fixtures with new, more efficient HSC COB Classroom fixtures. determine the rebate. nergy efficiency.

Rev (2.1.2012)

Site Address: University of Toledo -

Principal Address: 3000 Arlington Avenue

		Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1					
	2011 2010	55,090,943 55,493,971	55,090,943 55,493,971	55,090,943 55,493,971					
	2009	52,686,173	52,686,173	52,686,173					
	Average	54,423,696	54,423,696	54,423,696	=				
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	HSC COB Classroom	10/30/2012	\$45,346	\$22,673	15,790	15,790	-	\$790	\$593
					-	-	-		
							-		
					-	-	-		
							-		
							-		
		Total	\$45,346		15,790	15,790	0	\$790	\$593

Docket No. 14-0364 Site: 3000 Arlington Avenue

Notes

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

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

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoid Cost \$/MWh (B)	ded (Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UСТ (Н)
1	16	\$ 3	308 \$	4,868	\$ 4,050	\$593	\$158	\$ 4,800	1.0
Total	16	\$ 3	08	4,868	4,050	\$593	\$158	4,800	1.0

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)

University of Toledo ~ University of Toledo -Docket No. 14-0364

Site: 3000 Arlington Avenue

Lighting Inventory Form

Applicant Name University of Toledo Instructions: Please use one line for each foture type in a room or area Facility Name For existing or proposed control, choose OCC for Occupany Sensor, DAYLTG for photosensor, or NONE for none. Controls must save energy to qualify. The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column P, will be used to calculate your incentive on the NonStandard Lighting form Date: Existing Sensor Quantity Post Fixtur Qtv Load (kW) FL or LE axit sign 0.34 NONE 0.25 000 e.g. 400 North Street 2 84% 84% 0.19 2,808 3,435 3 3 OCC DAYLTG Interior x 30% NONE 8 NONE NONE NONE 12 13 14 NONE NONE NONE NONE NONE NONE 1/ 18 19 20 NONE 23 24 25 NONE NONE NONE NONE NONE NONE 28 29 30 NONE 34 35 36 NONE NONE NONE 37 38 39 40 41 42 NONE NONE NONE NONE NONE NONE NONE NONE 44 45 46 47 48 49 50 NONE 51 52 53 NONE NONE NONE NONE NONE 55 56 57 58 59 NONE 62 63 64 65 66 67 NONE 68 69 NONE 72 NONE NONE NONE NONE NONE NONE 76 NONE NONE NONE 77 78 79 80 81 NONE NONE NONE NONE NONE NONE NONE NONE 82 83 84 NONE 85 86 87 88 89 90 NONE NONE NONE NONE NONE NONE NONE NONE NONE 91 92 93 94 95 96 97 NONE NONE NONE NONE NONE NONE NONE NONE NONE 97 98 99 100 NONE NONE NONE NONE NONE NONE NONE NONE NONE 102 103 104 105 NONE NONE NONE NONE NONE 106 107 NONE 125 126 127 128 NONE NONE NONE NONE NONE NONE 131 132 NONE NONE NONE NONE NONE NONE NONE NONE NONE 135 136 137 138 NONE

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Project Estimate Savings Sum	
Estimated Annual kWh Savings	15,790
Total Change in Connected Load	2.81
Annual Estimated Cost Savings	\$1,579.00
Annual Operating Hours	5,010
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$789.50
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard- wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$0.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00
Total Calculated Incentive	\$789.50
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	1
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 estimat equivalent full-load hours (EFLH) for facilit	•	· / · · ·
Demand Savings (For Internal Use Only)	2.41	

Site Address: University of Toledo - Dowling Hall Principal Address: 3000 Arlington Avenue

What date would you have replaced your

equipment if you had not replaced it early? Please describe the less efficient new Project Narrative description of your program including, but not limited to, Description of methodologies, protocols and practices Also, please explain briefly how you equipment that you rejected in favor of No. Project Name make, model, and year of any installed and replaced equipment: used in measuring and verifying project results determined this future replacement date. the more efficient new equipment. Data was gathered from attachments A and B and entered into C to determine savings. This data was entered into the lighting rebate calculator to determine the rebate. No known date. Equipment was in working order and had no known obsolescence date. It was repalaced to improve N/A This project includes the replacement of exsiting lighting fixtures with new, more efficient Dowling Hall Medical Mall 1 fixtures. energy efficiency.

Rev (2.1.2012)

Site Address: University of Toledo - Dowling Hall

Principal Address: 3000 Arlington Avenue

		Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1					
	2011 2010 2009	55,090,943 55,493,971 52,686,173	55,090,943 55,493,971 52,686,173	55,090,943 55,493,971 52,686,173					
	Average	54,423,696	54,423,696	54,423,696	<u>;</u>				
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	Dowling Hall Medical Mall	03/31/2013	\$315,790	\$157,895	73,540	73,540	•	\$3,677	\$2,758
					-	-	-		
						-	•		
					-	-	-		
							-		
					-	-	-		
					-	-	-		
		Total	\$315,790		73,540	73,540	0	\$3,677	\$2,758

Docket No. 14-0364 Site: 3000 Arlington Avenue

Notes

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

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

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost \$/MWh (B)	Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UCT (H)
1	74	\$ 308	\$ 22,671	\$ 4,050	\$2,758	\$735	\$ 7,543	3.0
Total	74	\$ 308	22,671	4,050	\$2,758	\$735	7,543	3.0

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)

University of Toledo ~ University of Toledo - Dowling Hall Docket No. 14-0364

Site: 3000 Arlington Avenue

Lighting Inventory Form

University of Toledo

Applicant Name: Facility Name: Instructions: Please use one line for each future type in a noom or area For existing or proposed control, choose OCC for Occupany Sensor, DAYLTG for photosensor, or NONE for none. Controls must save energy to qualify.

Facility Na Date:	ine.			The total of	of Column S, the quantities	ose OCC for Occupany Sensor, DAYLTG for photose of CFLs and exit signs in Column M, and the quantiti	es of sensors in Column R will be used to calcu	late your incentive on the NonStandard Lighting for	200						
Line	Building Address	Floor Area Description	Interior or Exterior Predominant Space Type	Area Cooling Pre Fixture Pre Fix Oty	ture Code Pre Watts	N Pre kW / Existing Existing Po	st Post Fixture Code Post Watts/	Post KW / Proposed Proposed Int	terior Change Exterior Change in	Applicant Coincidenc	e Interactive Interactive Pre	Controls Post	Interior Exterior	Demand Applicant Prescri	ibed Annual Interior
Item			Fixture	City	Fixture (W)	Pre kW / Existing Existing Po Space Control Sensor Fixt (kW) drop down Quantity Q	ure Fixture ty (W)	(kW) Control Please enter (kW) DAYLTG, OCC or When applicable (k	I connected Change in Connected	Coincidence Factor Factor	Factor Factor ((demand) (energy)	Factor Controls	Demand Demand Savings	Savings Equivalent Equival	lent Fixture kWh
						When applicable		DAYLTG, OCC or NONE. When applicable (k	h Connected Change in Connected Load Connected Load W) excluding Load (kW) (kW) CFLs or Exit excluding CFLs CFL or LED	Factor (CF)	(centrality) (centragy)	1 80101	(kW) (kW)	CFLs or Hours Hours	rs (excluding
								· · · · · · · · · · · · · · · · · · ·	CFLs or Exit excluding CFLs CFL or LED Signs or Exit Signs exit sign	Estimate			excluding excluding L CFLs or CFLs or	ED Exit (EFLH) Signs Estimate	CFLs or Exit Signs)
													Exit Signs Exit Signs		
e.g.	400 North Street Example	2 Office 1 Restaurant	Interior Office - Small Exterior Restaurant - Fast Food	Cooled Space 3 F4	44/LL 112 Cut Sheet 1 50	0.34 NONE 3 0.25 OCC 5 5	CFT55/1-BX 56	0.17 OCC 3	0.17	84% 84%	34% 12%	30%	0.11	0.19 2,808 3,435 8,760 4,156	5
1 3	000 Arlington Avenue	1 University	Interior Education - University	Cooled Space 1 Cut 5	Sheet 1 37,642	37.64 NONE 1	Cut Sheet 2 24,536	24.54 NONE NONE	13.11	64%	34% 12%		11.24	5,010	0 73,540
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Line Building Address Floor	Area Description	PROJECT BASIC INFORM	MATION		PRE-IN	NSTALLATION				POST-INSTAL	LATION							Energy Cale	ulations				
Line Building Address Floor Item	Area Description	Interior or Exterior F Fixture	Predominant Space Type	Area Cooling	Pre Fixture Code Oty	Pre Watts / Pre kW/ Fixture Space (W) (kW)	Control Sens drop down Quant	ng Post or Fixture ity Qty	Post Fixture Code	Post Watts/ Fixture (W)	Post KW / Pro Space Co (kW) Plea	posed Pro antrol S	roposed Interior Change Exterior Sensor in Connected Change in Quantity Load Connected	Change in Connected	Applicant Coincidence	Coincidence Interact Factor Factor (demai	ive Interactive r Factor id) (energy)	Pre Controls Post Factor Control Factor	s Demand De	terior Demand mand Savings	Equivalent	Prescribed Equivalent	Fixture kWh
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•	Project Estimated Annual Savings Summary										
Estimated Annual kWh Savings	73,540										
Total Change in Connected Load	13.11										
Annual Estimated Cost Savings	\$7,354.00										
Annual Operating Hours	5,010										
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$3,677.00										
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	¢2,677,00										
	\$3,677.00										
Total Fixture Quantity excluding retrofit	A										
CFLs and LED Exit Sign Total Lamp Quantity for retrofit Screw-In	1										
CFLs Total Lamp Quantity for retrofit Hard-Wired	0										
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 estimat equivalent full-load hours (EFLH) for facilit		· · · · ·
Demand Savings (For Internal Use Only)	11.24	

Site Address: University of Toledo - General Improvments Principal Address: 3000 Arlington Ave

What date would you have replaced your

equipment if you had not replaced it early? Please describe the less efficient new Project Narrative description of your program including, but not limited to, Description of methodologies, protocols and practices Also, please explain briefly how you equipment that you rejected in favor of No. Project Name make, model, and year of any installed and replaced equipment: used in measuring and verifying project results determined this future replacement date. the more efficient new equipment. No known date. Equipment was in working order and had no known obsolescence date. It was repalaced to improve N/A This project includes the replacement of exsiting lighting fixtures with new, more efficient Data was gathered from invoices in attachment A, and entered into the 1 General Improvements fixtures. lighting rebate calculator to determine the savings and rebate. energy efficiency.

Rev (2.1.2012)

Site Address: University of Toledo - General Improvments

Principal Address: 3000 Arlington Ave

		Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1					
	2011 2010 2009	55,090,943 55,493,971 52,686,173	55,090,943 55,493,971 52,686,173	55,090,943 55,493,971 52,686,173					
	Average	54,423,696	54,423,696	54,423,696	1				
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	General Improvements	11/25/2013	\$8,751	\$4,376	151,149	151,149	-	\$5,694	\$4,271
					-	-			
					-		-		
						-	-		
						-	-		
					-	-	-		
						-	-		
		Total	\$8,751		151,149	151,149	0	\$5,694	\$4,271

Docket No. 14-0364 Site: 3000 Arlington Ave

Notes

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

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

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost \$/MWh (B)	d Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UCT (H)
1	151	\$ 308			\$4,271		\$ 9,832	4.7
Total	151	\$ 308	46,596	4,050	\$4,271	\$1,511	9,832	4.7

Notes

- (A) From Exhibit 2, = kWh saved / 1000
- (B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).

(C) = (A) * (B)

- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.

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

(H) = (C) / (G)

University of Toledo ~ University of Toledo - General Improvments Docket No. 14-0364

Site: 3000 Arlington Ave

Lighting Inventory Form

Applicant Name University of Toledo Instructions: Please use one line for each fixture type in a room or area Facility Name General improvements For existing or proposed control, choose OCC for Occupany Sensor, DAYLTG for photosensor, or NONE for none. Controls must save energy to qualify. The total of Column S, the quantifies of CFLs and exit signs in Column M, and the quantifies of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form Date: Existing Sensor Quantity Pos Fixtu Qty Fixture Space (kW) Fixtun (W) Load (kW) L or LE vit sign 0.34 NONE 0.25 OCC 2,808 3,435 e.g. 400 North Street 2 84% 84% ppm 88% 0.19 Interior Nice - Smail 3 3 0.17 OCC 0.13 DAYLTG X 30% 340 50 75 48 40 110 20 3000 Arlington Avenue 1 3000 Arlington Avenue 1 3000 Arlington Avenue 1 NONE NONE NONE NONE NONE NONE coled Spi coled Spi 50 75 3.13 2.89 4.50 6.62 1.60 1.13 5.23 0.40 3000 Arlington Avenue 1 3000 Arlington Avenue 1 Education - Univer Cooled Space Cooled Space 48 40 NONE F82ILL CFT7/1 NONE 64% 64% Interior 1.03 5,010 1.20 6 3000 Arlington Avenue 1 7 3000 Arlington Avenue 1 8 3000 Arlington Avenue 1 9 3000 Arlington Avenue 1 University Interior Cooled Space NONE CFQ26/1 CFT40/1 NONE Education - Unive Cooled Space Cooled Space 20 18 94 1.88 NONE 1.69 NONE 20 18 0.96 NONE 0.92 64% 64% 34 0.79 0.54 5,010 5,162 5,010 3,535 University F42S5 F42SSILI F42ILL NONE 18 NONE 23 24 25 NONE NONE NONE NONE NONE NONE NONE 28 29 30 NONE NONE NONE NONE NONE NONE NONE NONE NONE 34 35 36 NONE NONE NONE 39 40 41 42 NONE NONE NONE NONE NONE NONE NONE 45 46 47 48 NONE 52 53 NONE NONE 56 57 58 59 NONE NONE NONE NONE NONE NONE NONE NONE NONE 62 63 64 65 66 67 NONE 68 69 NONE 78 79 80 NONE NONE NONE NONE NONE NONE NONE NONE 82 83 84 NONE NONE NONE NONE NONE NONE 85 87 88 89 90 NONE NONE NONE NONE NONE 92 93 94 95 96 97 NONE NONE NONE NONE NONE NONE 97 98 99 NONE NONE NONE NONE NONE NONE NONE 102 NONE NONE 106 107 NONE 125 126 127 128 NONE NONE NONE NONE NONE NONE 130 131 132 NONE NONE NONE NONE NONE NONE NONE NONE NONE 136 137 138

NONE

		PROJECT BASIC INFORMATION		PRE-IN	STALLATION			PO	OST-INSTALLATION								Energy Cal	ulations			1
Line Building Address Floor	Area Description	Interior or Exterior Predominant Space Type Fixture	Area Cooling	Pre Fixture Pre Fixture Code Oty	Pre Watts / Pre kW /	Existing Existing	Post	Post Fixture Code Pos	st Watts/ Post K	W/ Proposed	Proposed Interio	ior Change Exterior	Change in	Applicant	Coincidence Interac	tive Interactive	Pre Controls Post Factor Contro Facto	Interior Exteri	or Demand	Applicant Prescr	cribed Annual Inter
Item		Fixture		Qty	Fixture Space (W) (kW)	Control Sensor drop down Quantity	Fixture Qty		Fixture Spac (W) (kW)	e Control Please enter DAYLTG, OCC or NONE.	Sensor in Co Quantity L	connected Change in Load Connected excluding Load (kW) Ls or Exit Signs or Exit Signs	Connected Load (kW) CFL or LED	Coincidence Factor (CF) Estimate	Factor Fact (dema	or Factor nd) (energy)	Factor Contro	interior Extern bemand Deman Savings Savin (KW) (KW) excluding exclud CFLs or CFLs Exit Signs Exit Sig	d Savings (kW) CFLs or LED Exit or Signs	Equivalent Equiva Full Load Full L	valent Load purs (excluding CFLs or Exi Signs)
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250 Totals				711	52.84		721		25.90	0	1	10.76	16.18					9.23	13.87		60,388

Project Estimate Savings Sum	
Estimated Annual kWh Savings	151,149
Total Change in Connected Load	26.94
Annual Estimated Cost Savings	\$15,114.90
Annual Operating Hours	5,010
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$3,019.40
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)	\$2,675.00
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	\$5,694.40
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	426
Total Lamp Quantity for retrofit Screw-In CFLs	125
Total Lamp Quantity for retrofit Hard-Wired CFLs	170
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 estimat equivalent full-load hours (EFLH) for facilit		· / · · ·
		I
Demand Savings (For Internal Use Only)	23.10	

Site Address: University of Toledo - HEB Principal Address: 3000 Arlington Avenue

What date would you have replaced your

equipment if you had not replaced it early? Please describe the less efficient new Project Narrative description of your program including, but not limited to, Description of methodologies, protocols and practices Also, please explain briefly how you equipment that you rejected in favor of No. Project Name make, model, and year of any installed and replaced equipment: used in measuring and verifying project results determined this future replacement date. the more efficient new equipment. Data was gathered from attachments A and B and entered into C to determine savings. This data was entered into the lighting rebate calculator to determine the rebate. No known date. Equipment was in working order and had no known obsolescence date. It was repalaced to improve N/A Health Education Building Entrance This project includes the replacement of exsiting lighting fixtures with new, more efficient 1 Renovation fixtures. energy efficiency.

Rev (2.1.2012)

Site Address: University of Toledo - HEB

Principal Address: 3000 Arlington Avenue

		Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1					
	2011 2010 2009	55,090,943 55,493,971 52,686,173	55,090,943 55,493,971 52,686,173	55,090,943 55,493,971 52,686,173					
	Average	54,423,696	54,423,696	54,423,696	<u>;</u>				
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	Health Education Building Entrance Renovation	06/28/2012	\$38,100	\$19,050	46,943	46,943	•	\$2,347	\$1,760
					-	-	-		
					-	-	-		
					-	-	-		
						-			
		Total	\$38,100		46,943	46,943	0	\$2,347	\$1,760

Docket No. 14-0364 Site: 3000 Arlington Avenue

Notes

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

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

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost \$/MWh (B)	Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UCT (H)
1	47	\$ 308	\$ 14,472	\$ 4,050	\$1,760	\$469	\$ 6,280	2.3
Total	47	\$ 308	14,472	4,050	\$1,760	\$469	6,280	2.3

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)

University of Toledo ~ University of Toledo - HEB Docket No. 14-0364

Site: 3000 Arlington Avenue

Lighting Inventory Form

Applicant Name University of Toledo Instructions: Please use one line for each foture type in a room or area Facility Name For existing or proposed control, choose OCC for Occupany Sensor, DAYLTG for photosensor, or NONE for none. Controls must save energy to qualify. The total of Column S, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column P, will be used to calculate your incentive on the NonStandard Lighting form Date: Existing Sensor Quantity Post Fixtur Qtv Load (kW) FL or LE axit sign 0.34 NONE 0.25 000 e.g. 400 North Street 2 84% 84% 0.19 2,808 3,435 3 3 OCC DAYLTG Interior x NONE 8 NONE NONE NONE 12 13 14 NONE NONE NONE NONE NONE NONE 1/ 18 19 20 NONE 23 24 25 NONE NONE NONE NONE NONE NONE 28 29 30 NONE 34 35 36 NONE NONE NONE 37 38 39 40 41 42 NONE NONE NONE NONE NONE NONE NONE NONE 44 45 46 47 48 49 50 NONE 51 52 53 NONE NONE NONE NONE NONE 55 56 57 58 59 NONE 62 63 64 65 66 67 NONE 68 69 NONE 72 NONE NONE NONE NONE NONE NONE 76 NONE NONE NONE 77 78 79 80 81 NONE NONE NONE NONE NONE NONE NONE NONE 82 83 84 NONE 85 86 87 88 89 90 NONE NONE NONE NONE NONE NONE NONE NONE NONE 91 92 93 94 95 96 97 NONE NONE NONE NONE NONE NONE NONE NONE NONE 97 98 99 100 NONE NONE NONE NONE NONE NONE NONE NONE NONE 102 103 104 105 NONE NONE NONE NONE NONE NONE 106 107 NONE 125 126 127 128 NONE NONE NONE NONE NONE NONE 131 132 NONE NONE NONE NONE NONE NONE NONE NONE NONE 135 136 137 138 NONE

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Project Estimate Savings Sum	
Estimated Annual kWh Savings	46,943
Total Change in Connected Load	8.37
Annual Estimated Cost Savings	\$4,694.30
Annual Operating Hours	5,010
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$2,347.15
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	\$2,347.15
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	1
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 estimat equivalent full-load hours (EFLH) for facilit	•	· / / / /
Demand Savings (For Internal Use Only)	7.17	

Customer Legal Entity Name: University of Toledo

Site Address: University of Toledo - MLB iCare Principal Address: 3000 Arlington Avenue

What date would you have replaced your

equipment if you had not replaced it early? Please describe the less efficient new Project Narrative description of your program including, but not limited to, Description of methodologies, protocols and practices Also, please explain briefly how you equipment that you rejected in favor of No. Project Name make, model, and year of any installed and replaced equipment: used in measuring and verifying project results determined this future replacement date. the more efficient new equipment. Data was gathered from attachments A and B and entered into C to determine savings. This data was entered into the lighting rebate calculator to determine the rebate. No known date. Equipment was in working order and had no known obsolescence date. It was repalaced to improve N/A This project includes the replacement of exsiting lighting fixtures with new, more efficient MLB iCare 1 fixtures. energy efficiency.

Rev (2.1.2012)

Customer Legal Entity Name: University of Toledo

Site Address: University of Toledo - MLB iCare

Principal Address: 3000 Arlington Avenue

		· · · · · · · · · · · · · · · · · · ·							
		Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1					
	2011	55,090,943	55,090,943	55,090,943					
	2010	55,493,971 52,686,173	55,493,971 52,686,173	55,493,971 52,686,173					
	2009 Average	52,666,173	54,423,696	54,423,696					
		01,120,000	0 1, 120,000	0 1, 120,000					
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	MLB iCare	05/23/2013	\$99,397	\$49,699	15,852	15,852	-	\$779	\$584
					-	-	-		
							-		
					•	-	-		
						-			
						-	-		
		Total	\$99,397		15,852	15,852	0	\$779	\$584

Docket No. 14-0364 Site: 3000 Arlington Avenue

Notes

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

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

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost \$/MWh (B)	Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UCT (H)
1	16	\$ 308	\$ 4,887	\$ 4,050	\$584	\$159	\$ 4,793	1.0
Total	16	\$ 308	4,887	4,050	\$584	\$159	4,793	1.0

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)

University of Toledo ~ University of Toledo - MLB iCare Docket No. 14-0364

Site: 3000 Arlington Avenue

Lighting Form

Lighting Inventory Form

University of Toledo

Applicant Name: Facility Name: Instructions: Please use one line for each fixiture type in a more of area. For entiting or proposed control, choose OCC for Occupany Sensor, DNYLTG for photosensor, or NCHE for none. Controls must save energy to quality. The total of CHMLING. The quantities CHILL and exit sign is Chaum MI, and the quantities of sensors in Column R, will be used to calculate your incoming

Date:				-	,	The total of Column S,	the quantities o	f CFLs and exit	signs in Co	olumn M, and the quanti	ities of sensor	ors in Column R, will	be used to calcu	late your ince	ntive on the No	onStandard Lighting I	form.										
Line Building Address Floo	or Area Description	PROJECT E Interior or Exterior Fixture	BASIC INFORMATION Predominant Space Type	Area Cooling	Pre Fixture Qty	PRE-IN Pre Fixture Code	NSTALLATION Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Control drop down	Existing P Sensor Fib Quantity Q When applicable	ost Post dure 2ty	st Fixture Code	POST-INSTAL Post Watts/ Fixture (W)	LATION Post KW / Space (kW)	Proposed Control Please enter DAYLTG, OCC o	Proposed In Sensor i Quantity When applicable	nterior Change in Connected Load kW) excluding	Exterior Change in Connected Load (kW)	Change in Connected Load (kW) CFL or LED	Applicant Coincidence Factor (CF)	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Energy Calculations Pre Controls Post Interior Factor Controls Demans Factor Savings (KW)	Exterior Deman Demand Saving Savings (KW) (KW) CFLs o	Applicant Equivalent Full Load	Prescribed Annual Interior Equivalent Fixture kWh Full Load Saved Hours (excluding
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Lighting Form

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	Project Estimated Annual Savings Summary								
Estimated Annual kWh Savings	15,582								
Total Change in Connected Load	2.78								
Annual Estimated Cost Savings	\$1,558.20								
Annual Operating Hours	5,010								
Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$779.10								
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	\$779.10								
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	107								
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 estimat equivalent full-load hours (EFLH) for facilit		. ,
Demand Savings (For Internal Use Only)	2.38	

<u>Mercantile Customer Project Commitment Agreement</u> <u>Cash Rebate Option</u>

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between The Toledo Edison Company, its successors and assigns (hereinafter called the "Company") and University of Toledo, Taxpayer ID No. 34-6401483 its permitted successors and assigns (hereinafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Parties as indicated below.

WITNESSETH

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

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

WHEREAS, R.C. § 4928 66 (the "Statute") requires the Company to meet certain energy efficiency and peak demand reduction ("EE&PDR") benchmarks; and

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

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

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

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

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

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

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

- a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and kW reductions resulting from said projects for purposes of complying with the Statute By committing the Customer Energy Project(s), Customer has the ability to either.
 - Take ownership of the Energy Efficiency resource credits resulting from their Customer Energy Project(s) and may be able to bid - or sell - the Energy Efficiency resource credits into the market operated by the grid operator, PJM Interconnection, Inc. (PJM), provided several prerequisites are met; or
 - ii. Allow the Company to take ownership of the Energy Efficiency resource credits associated with their Customer Energy Project(s). The Company shall, at its sole discretion, aggregate said capacity into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements.

Please indicate your preference as to the treatment of your Energy Efficiency resource credits:

Customer would like to retain ownership of its Energy Efficiency resource credits.

Customer assigns ownership of its Energy Efficiency resource credits to Company for purposes of bidding these credits into PJM.

- 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 cosh 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 giant 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: (11) the commitment of the Customer Energy Project(s) for inclusion in the Company Plan; and (iii) the Customer's Cash Rebate.

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

- i. A narrative description of the Customer Energy Project(s), including but not limited to, make, model and year of any installed and/or replaced equipment;
- ii. A copy of this Agreement, and
- iii. A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.
- 3. **Customer Cash Rebate.** Upon Commission approval of the Joint Application, Customer shall provide Company with a W-9 tax form, which shall at a minimum include Customer's tax identification number Within the greater of 90 days of the Commission's approval of the Joint Application or the completion of the Customer Energy Project, the Company will issue to the Customer the Cash Rebate in the amount set forth in the Commission's Finding and Order approving the Joint Application.
 - a. Customer acknowledges: 1) that the Company will cap the Cash Rebate at the lesser of 50% of Customer Energy Project(s) costs or \$250,000; ii) the maximum rebate that the Customer may receive per year is \$500,000 per Taxpayer Identification Number per utility service territory; and iii) if the Customer Energy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to file such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discounted by 25%; and
 - b. Customer acknowledges that breaches of this Agreement, include, but are not limited to:
 - i. Customer's failure to comply with the terms and conditions set forth in the Agreement, or its equivalent, within a reasonable period of time after receipt of written notice of such non-compliance;
 - ii. Customer knowingly falsifying any documents provided to the Company of 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 (1) 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 (11) 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⁽¹⁾ (1) 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:

University of Toledo 2801 W Bancroft Toledo OH 43606 Attn:Brooke Mason Telephone:419-530-1042 Fax Email brooke.mason@utoledo edu

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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 struct performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any later time or on any future occasion.
- 10. Entire Agreement. This Agreement, along with related exhibits, and the Company's Rider DSE, or its equivalent, as amended from time to time by the Commission, contains the Parties' entire understanding with respect to the matters addressed herein and there are no verbal or collateral representations, undertakings, or agreements not expressly set forth herein. No change in, addition to, or waiver of the terms of this Agreement shall be binding upon any of the Parties unless the same is set forth in writing and signed by an authorized representative of each of the Parties In the event of any conflict between Rider DSE or its equivalent and this document, the latter shall prevail.
- 11 **Assignment**. Customer may not assign any of its rights or obligations under this Agreement without obtaining the prior written consent of the Company, which consent will not be unreasonably withheld. No assignment of this Agreement will relieve the assigning Party of any of its obligations under this Agreement until such obligations have been assumed by the assignee and all necessary consents have been obtained.
- 12. Severability. If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties further agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.
- 13. Governing Law. This Agreement shall be governed by the laws and regulations of the State of Ohio, without regard to its conflict of law provisions.
- 14 Execution and Counterparts. This Agreement may be executed in multiple counterparts, which taken together shall constitute an original without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures

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

The Toledo Edison Company_

(Company) 0. um L By:

Title: V.P. Of Energy Efficiency

Date: _____ 3 - 5 - 7 </

By: Title: DIRECTOR UMVERSITY OF TOLEDO · Date: 2/2-9/1-1

Affidavit of University of Toledo – Exhibit _A _

STATE OF OHIO

)) SS

COUNTY OF Lucas

I, ____Michael Green_____, being first duly sworn in accordance with law, deposes and states as follows.

 1 I am the _Director, Energy Management______ of University of

 Toledo ("Customer") As part of my duties, I oversee energy related matters for the Customer

2 The Customer has agreed to commit certain energy efficiency projects to

The Toledo Edison Company ("Company"), which are the subject of the agreement to which this affidavit is attached ("Project(s)")

- 3 In exchange for making such a commitment, the Company has agreed to provide Customer with Cash ("Incentive") This Incentive was a critical factor in the Customer's decision to go forward with the Project(s) and to commit the Project(s) to the Company.
- 4 All information related to said Project(s) that has been submitted to the Company is true and accurate to the best of my knowledge

FURTHER AFFIANT SAYETH NAUGHT

)



Hen

Sworn to before me and subscribed in my presence this <u>29</u> day of <u>May</u>, 20<u>14</u> <u>Source Amn Samuer</u> Notary



This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

6/17/2014 11:15:58 AM

in

Case No(s). 14-0364-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of The Toledo Edison Company and University of Toledo electronically filed by Ms. Jennifer M. Sybyl on behalf of The Toledo Edison Company and University of Toledo