



**Case No.: 14-0284-EL-EEC**

Mercantile Customer: University of Toledo

Electric Utility: The Toledo Edison Company

Program Title or  
Description: Main 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. [10-834-EL-POR](#)

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

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

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

## 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: 2801 W. Bancroft Toledo, OH 43606

Name and telephone number for responses to questions: Lucas Dixon 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:

- 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: 831,340 kWh

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

Annual savings: \_\_\_\_\_ kWh

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

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

Annual savings: \_\_\_\_\_ kWh

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

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

## Section 4: Demand Reduction/Demand Response Programs

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

- ☐ Coincident peak-demand savings from the customer's energy efficiency program.
- ☐ Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
- ☐ Potential peak-demand reduction (check the one that applies):
  - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
  - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.

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

\_\_\_\_\_

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

\_\_\_\_\_ kW

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

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

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

A) The customer is applying for:

☒ Option 1: A cash rebate reasonable arrangement.

OR

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

OR

☐ Commitment payment

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

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

☒ A cash rebate of \$<sup>35,757</sup>~~1,000~~. (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.





# Public Utilities Commission

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

Case No.: 14-0284-EL-EEC

State of Ohio :

Michael Green, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

The University of Toledo

[insert customer or EDU company name and any applicable name(s) doing business as]

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

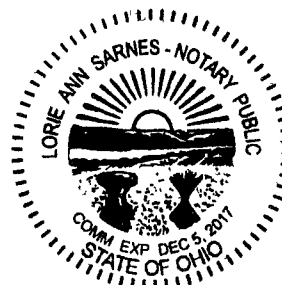
M. Green Director Energy  
Signature of Affiant & Title

Sworn and subscribed before me this 8th day of Jan, 2014 Month/Year

Lorie Ann Sarnes  
Signature of official administering oath

LORIE ANN SARNES  
Print Name and Title

My commission expires on 12/5/17



Docket Number	Site Name	Address	City	State	Zip	Utility	Customer Number	Total Project Cost	Saved Early kWh	Saved New kWh	Saved Early kW	Saved New kW	Eligible Rebate Amount
14-0284	Bowman Oddy	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$79,136.00	18,511				\$694
14-0284	Carlson Library	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$90,900.00	106,720				\$4,002
14-0284	Center for Performing Arts	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$90,737.00	226,047				\$8,477
14-0284	Law Center Auditorium	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$52,990.00	28,668				\$1,075
14-0284	Plant Operations	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$32,200.00	15,212				\$571
14-0284	Rocket Hall Classrooms	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$23,500.00	22,329				\$837
14-0284	Sirannah	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$26,367.00	16,385				\$614
14-0284	Print Shop Demo	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$214,676.00	272,546				\$16,353
14-0284	General Improvements	2801 W Bancroft St	Toledo	OH	43606	TE	8008072862740090000	\$6,453.00	124,922				\$3,134
Totals								\$607,579.00	831,340	0	0	0	\$35,757

Customer Legal Entity Name: University of Toledo  
Site Address: University of Toledo - Bowman Oddy  
Principal Address: 2801 W Bancroft

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	Bowman-Oddy Renovations	This project includes the replacement of existing lighting fixtures with new, more efficient fixtures.	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 replaced to improve energy efficiency.	N/A

Exhibit 2

**Customer Legal Entity Name:** University of Toledo  
**Site Address:** University of Toledo - Bowman Oddy  
**Principal Address:** 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2010	75,334,512	75,334,512	75,334,512
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>79,989,878</b>

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) \$ <i>Note 2</i>
1	Bowman-Oddy Renovations	06/18/2012	\$79,136	\$39,568	18,511	18,511	-	\$925	\$694
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		<b>Total</b>	<b>\$79,136</b>		<b>18,511</b>	<b>18,511</b>	<b>0</b>	<b>\$925</b>	<b>\$694</b>

**Docket No.** 14-0284  
**Site:** 2801 W Bancroft

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	19	\$ 308	\$ 5,707	\$ 4,050	\$694	\$185	\$ 4,929	1.2
<b>Total</b>	<b>19</b>	<b>\$ 308</b>	<b>5,707</b>	<b>4,050</b>	<b>\$694</b>	<b>\$185</b>	<b>4,929</b>	<b>1.2</b>

#### 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 - Bowman Oddy  
Docket No. 14-0284

Site: 2801 W Bancroft

## Lighting Inventory Form

Applicant Name:	University of Toledo
Facility Name:	Bowman-Oddy
Date:	

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

For existing or proposed control, choose OCC for Occupancy 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 R, will be used to calculate your incentive on the NonStandard Lighting form.

[illegible]

## Lighting Form

[illegible]

## Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	18,511
Total Change in Connected Load	3.30

Annual Estimated Cost Savings	\$1,851.10
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$925.55
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	\$925.55
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Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	81
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)

2.83

Customer Legal Entity Name: University of Toledo

Site Address: University of Toledo -Print Shop

Principal Address: 2801 W Bancroft

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	Print shop move and building demolition	This project includes moving a print shop to a new unoccupied swing space and demolishing the building it was previously housed in.	Data was gathered from electrical submeters, then entered into attachment A to determine the savings. The savings was then entered into the custom rebate calculator to determine the rebate.	No known date. The building was fully functional, and the printshop and offices were moved to an existing swing space in another building to save energy. The old building was demolished. Savings are the calculated energy use of the old building minus the print shop usage. There was no known obsolescence date on the old building.	N/A

## Exhibit 2

**Customer Legal Entity Name:** University of Toledo

**Site Address:** University of Toledo -Print Shop

**Principal Address:** 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2010	75,334,512	75,334,512	75,334,512
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>79,989,878</b>

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) \$ <i>Note 2</i>
1	Print shop move and building demolition	06/18/2012	\$429,352	\$214,676	272,546	272,546	-	\$21,804	\$16,353
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
	Total		\$429,352		272,546	272,546	0	\$21,804	\$16,353

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**Site:** 2801 W Bancroft

## 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	273	\$ 308	\$ 84,020	\$ 4,050	\$16,353	\$2,725	\$ 23,128	3.6
<b>Total</b>	<b>273</b>	<b>\$ 308</b>	<b>84,020</b>	<b>4,050</b>	<b>\$16,353</b>	<b>\$2,725</b>	<b>23,128</b>	<b>3.6</b>

#### 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 -Print Shop  
Docket No. 14-0284

Site: 2801 W Bancroft

Ohio Edison • The Illuminating Company • Toledo Edison

## Mercantile Customer Program - Custom Project Rebate Calculator

<b>Project Name and Number:</b>	University of Toledo Building Demo
<b>Site Name:</b>	<b>Main Campus</b>
<b>Completed by (Name):</b>	
<b>Date completed:</b>	

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Demolition of old print shop building.	272,546	21803.68
<b>Total Project Energy Savings kWh</b>	<b>272,546</b>	
<b>Total Custom Prescriptive Rebate Amount \$</b>		<b>\$ 21,803.68</b>

Notes about this rebate calculation:	

Month Starting	Days	Metered kWh WB	Metered kWh SU Bookstore	HDD	CDD	Adjusted Baseline kWh	Adjusted Baseline kWh	Attachment A
10/1/2013				376	33			
9/1/2013				132	118			
8/1/2013			36,391	31	224			
7/1/2013			36,665	19	273			
6/1/2013			37,041	38	189			
5/1/2013			5,668,142	173	139			Total Adjusted Use
4/1/2013				551	12			Post
3/1/2013			37,150	947	0	45,989		550,940
2/1/2013			35,804	1043	0	45,476		
1/1/2013			34,136	1096	0	45,192		
12/1/2012			35,380	870	0	46,400		
11/1/2012			36,470	766	0	46,956		
10/1/2012			35,790	400	18	48,259		
9/1/2012			37,560	156	99	46,620		
8/1/2012			27,570	28	234	42,400		
7/1/2012		46,100	35,690	2	432			
6/1/2012		41,320	37,001	39	277			
5/1/2012		39,080	44,755	111	153			Total Adjusted Use
4/1/2012		48,840	48,680	452	14			Pre
3/1/2012		45,520	48,960	472	34	36,599		376,079
2/1/2012		37,480	45,138	911	0	35,897		
1/1/2012		31,060	46,147	1041	0	35,155		
12/1/2011		28,100	44,909	897	0	35,977		
11/1/2011		37,300	49,067	489	3	38,149		
10/1/2011		33,740	48,691	330	36	37,304		
9/1/2011		34,940	47,511	87	132	33,594		
8/1/2011		35,540	34,965	8	331	23,477		Total Use Pre
7/1/2011		35,160	34,238	0	546	12,104		447,408
6/1/2011		34,500	38,002	14	299	25,142		272,546
5/1/2011		40,560	-41,750,300	172	108			
4/1/2011		42,100	41,847,341	485	17			
3/1/2011		43,640	50,349	869	1			
2/1/2011		39,760	47,382	1070	0			
1/1/2011		39,760	49,268	1324	0			
12/1/2010		34,400	47,324	1220	0			
11/1/2010		40,300	52,774	694	1			
10/1/2010		40,300	54,075	346	24			
9/1/2010		36,360	46,331	112	133			
8/1/2010		35,160	38,016	10	323			

SUMMARY OUTPUT	8/1/12-3/1/13	41101.25104
		-5.712166738
		-53.10840917
Regression Statistics		
Multiple R	0.88227	
R Square	0.77841	
Adjusted R Square	0.68977	
Standard Error	1770.13	
Observations	8	
ANOVA		
	df	SS
Regression	2	55034234.32
Residual	5	15666827.59
Total	7	70701061.92
	MS	F
Regression	27517117.16	8.782
Residual	3133365.518	0.02311
Total		
	Coefficient	Standard Error
Intercept	41101.3	2598.308816
X Variable 1	-5.7122	2.95989908
X Variable 2	-53.108	14.54866383
	t Stat	P-value
Intercept	15.81846268	2E-05
X Variable 1	-1.929851858	0.1115
X Variable 2	-3.650397712	0.0147
	ower 95%	Upper 95%
Intercept	34422.1	47780.41649
X Variable 1	-13.321	1.896496073
X Variable 2	-90.507	-15.70987819
	Lower 95.0%	Upper 95.0%
Intercept	34422.0856	47780.41649
X Variable 1	-13.32082955	1.896496073
X Variable 2	-90.50694016	-15.70987819

SUMMARY OUTPUT	6/1/11-3/1/12	51050.74999
		-5.345166635
		-36.32750682
Regression Statistics		
Multiple R	0.93204	
R Square	0.8687	
Adjusted R Square	0.83119	
Standard Error	2386.65	
Observations	10	
ANOVA		
	df	SS
Regression	2	263804771.7
Residual	7	39872701.21
Total	9	303677472.9
	MS	F
Regression	131902385.8	23.157
Residual	5696100.173	0.00082
Total		
	Coefficient	Standard Error
Intercept	51050.7	2224.196899
X Variable 1	-5.3452	3.07934022
X Variable 2	-36.328	6.583973654
	t Stat	P-value
Intercept	22.95244185	8E-08
X Variable 1	-1.735815549	0.1262
X Variable 2	-5.517565642	0.0009
	ower 95%	Upper 95%
Intercept	45791.4	56310.13992
X Variable 1	-12.627	1.936315928
X Variable 2	-51.896	-20.75888305
	Lower 95.0%	Upper 95.0%
Intercept	45791.36007	56310.13992
X Variable 1	-12.6266492	1.936315928
X Variable 2	-51.89613059	-20.75888305

Customer Legal Entity Name: University of Toledo  
Site Address: University of Toledo - Carlson Library  
Principal Address: 2801 W Bancroft

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	Carlson Library	This project includes the replacement of existing lighting fixtures with new, more efficient fixtures.	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 replaced to improve energy efficiency.	N/A

## Exhibit 2

Customer Legal Entity Name: University of Toledo

**Site Address:** University of Toledo - Carlson Library

**Principal Address:** 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C) <i>Note 1</i>
2010	75,334,512	75,334,512	75,334,512
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>79,989,878</b>

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) \$ <i>Note 2</i>
1	Carlson Library	07/31/2012	\$80,900	\$40,450	106,720	106,720	-	\$5,336	\$4,002
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	\$80,900		106,720	106,720	0	\$5,336	\$4,002

Docket No. 14-0284

**Site:** 2801 W Bancroft

## 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	107	\$ 308	\$ 32,900	\$ 4,050	\$4,002	\$1,067	\$ 9,119	3.6
<b>Total</b>	<b>107</b>	<b>\$ 308</b>	<b>32,900</b>	<b>4,050</b>	<b>\$4,002</b>	<b>\$1,067</b>	<b>9,119</b>	<b>3.6</b>

#### 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 - Carlson Library  
Docket No. 14-0284

Site: 2801 W Bancroft

## Lighting Inventory Form

Applicant Name: University of Toledo

Facility Name:

Date:

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

For existing or proposed control, choose OCC for Occupancy 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 R, will be used to calculate your incentive on the NonStandard Lighting form.

Line Item	Building Address	Floor	PROJECT BASIC INFORMATION				PRE-INSTALLATION					POST-INSTALLATION					Energy Calculations																	
			Area Description	Interior or Exterior Features	Predominant Space Type	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Sensor type min	Existing Sensor Quantity	Pre Fixture Qty	Post Fixture Code	Post Watts / Fixture (W)	Post kW / Space (kW)	Proposed Sensor type max	Proposed Sensor Quantity	Interior Change in Connected Load (kW) excluding CFLs or Exit Signs	Exterior Change in Connected Load (kW) excluding CFLs or Exit Signs	Change in Connected Load (kW) CFL or LED exit sign	Applicant Calculated Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Interior Demand Savings (kW) excluding CFLs or Exit Signs	Exterior Demand Savings (kW) excluding CFLs or Exit Signs	Demand Savings (kW) CFLs or LED Exit Signs	Appliances Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equipment Full Load Hours	Annual Interior Future kWh Saved (excluding CFLs or Exit Signs)	
1,2	400 North Street Example	2	Office	Interior	Office - Small	Cooled Space	3	F48LL	112	0.34	NONE		3	CF155/148V	56	0.17	OCC	3			0.17	85%	85%	35%	92%									
1,3		1	Restaurant	Exterior	Restaurant - Fast Food	Uncooled space	5		60	0.22	OCC	5		Example Cut Sheet 2	25	0.13	EATVE TO	5		-0.13	88%	88%		30%	30%	50%	0.11	0.19	2,408	6,767	3,438	4,156		
1	3001 W Bancroft	1	University	Interior	Education - University		Cooled Space	1	Cut Sheet 1	31.887	31.88	NONE		1	Cut Sheet 2	12.358	12.37	NONE		19.02														
2											NONE						NONE																	
3											NONE						NONE																	
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78											NONE						NONE																	

## Lighting Form

Line Item	Building Address	Floor	Area Description	PROJECT BASIC INFORMATION			PRE-INSTALLATION				POST-INSTALLATION				Interior Change in Connected Load (W) including CFLs or LED Signs	Exterior Change in Connected Load (W) including CFLs or LED Signs	Change in Connected Load (W) CFL or LED and sign	Applicant Conformance Factor (CF) Estimate	Conformance Factor	Interactive Factor (demand)	Interactive Factor (energy)	Energy Calculations				Demand Savings (kW) CFLs or LED Exst. Signs	Applicant Evaluation Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual Interior Power kWh Based (Including CFLs or Exst. Signs)
				Interior or Exterior Fixture	Predominant Space Type	Area Coding	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre MW / Space (MW)	Existing Sensor Quantity Where applicable	Post Fixture Qty	Post Fixture Code	Post Watts / Fixture (W)								Post MW / Space (MW)	Proposed Sensor Quantity Where applicable	Post Controls Factor	Post Conforms Factor				
139								NONE				NONE																	
140								NONE				NONE																	
141								NONE				NONE																	
142								NONE				NONE																	
143								NONE				NONE																	
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165								NONE				NONE																	
166								NONE				NONE																	
167								NONE																					

## Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	106,720
Total Change in Connected Load	19.02

Annual Estimated Cost Savings	\$10,672.00
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$5,336.00
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	\$5,336.00
----------------------------	------------

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 estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)

16.31

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	Lighting renovation	This project includes the replacement of existing lighting fixtures with new, more efficient fixtures.	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 replaced to improve energy efficiency.	N/A

## Exhibit 2

**Customer Legal Entity Name:** University of Toledo

**Site Address:** University of Toledo - Center for Performing Arts

**Principal Address:** 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C) <i>Note 1</i>
2010	75,334,512	75,334,512	619
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>53,326,792</b>

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) \$ <i>Note 2</i>
1	Lighting renovation	12/31/2011	\$90,737	\$45,369	226,047	226,047	-	\$11,302	\$8,477
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	\$90,737		226,047	226,047	0	\$11,302	\$8,477

Docket No. 14-0284

**Site:** 2801 W Bancroft

## 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	226	\$ 308	\$ 69,686	\$ 4,050	\$8,477	\$2,260	\$ 14,787	4.7
<b>Total</b>	<b>226</b>	<b>\$ 308</b>	<b>69,686</b>	<b>4,050</b>	<b>\$8,477</b>	<b>\$2,260</b>	<b>14,787</b>	<b>4.7</b>

#### 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 - Center for Performing Arts  
Docket No. 14-0284

Site: 2801 W Bancroft



## Lighting Inventory Form

Applicant Name: University of Toledo

Facility Name: Center For Performing Arts

Date:

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

For existing or proposed control, choose OCC for Occupancy 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 R, will be used to calculate your incentive on the NonStandard Lighting form.

[illegible]

# Lighting Form

Line Item	Building Address	Floor	PROJECT BASIC INFORMATION				Area Coding	PRE-INSTALLATION				POST-INSTALLATION				Energy Calculations																	
			Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Coding		Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Sensor Quantity (new equipment)	Post Fixture Qty	Post Fixture Code	Post Watts / Fixture (W)	Post kW / Space (kW)	Proposed Control Device (LUX, DALI, etc.)	Proposed Sensor Quantity (new equipment)	Interior Change in Connected Load (W) excluding CFLs or Exit Signs	Exterior Change in Connected Load (W) excluding CFLs or Exit Signs	Change in Connected Load (W) CFL or LED exit sign	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Interior Demand Savings (W) excluding CFLs or Exit Signs	Exterior Demand Savings (W) including CFLs or Exit Signs	Demand Savings (W) CFLs or LED Exit Signs	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual Interior Fixture kWh Saved (including CFLs or Exit Signs)
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## Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	226,047
Total Change in Connected Load	40.29

Annual Estimated Cost Savings	\$22,604.70
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$11,302.35
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 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	\$11,302.35
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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 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)

34.55

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	General Lighting Renovations	This project includes the replacement of existing lighting fixtures with new, more efficient fixtures.	Data was gathered from invoices in attachment A, and entered into the lighting rebate calculator to determine the savings and rebate.	No known date. Equipment was in working order and had no known obsolescence date. It was replaced to improve energy efficiency.	N/A

## Exhibit 2

Customer Legal Entity Name: University of Toledo

**Site Address:** University of Toledo - General Improvements

Principal Address: 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C) <i>Note 1</i>
2010	75,334,512	75,334,512	75,334,512
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>79,989,878</b>

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) \$ <i>Note 2</i>
1	General Lighting Renovations	11/22/2013	\$6,653	\$3,327	124,922	124,922	-	\$4,179	\$3,134
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
	Total		\$6,653		124,922	124,922	0	\$4,179	\$3,134

Docket No. 14-0284

**Site:** 2801 W Bancroft

## 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	125	\$ 308	\$ 38,511	\$ 4,050	\$3,134	\$1,249	\$ 8,433	4.6
<b>Total</b>	<b>125</b>	<b>\$ 308</b>	<b>38,511</b>	<b>4,050</b>	<b>\$3,134</b>	<b>\$1,249</b>	<b>8,433</b>	<b>4.6</b>

#### 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 Improvements  
Docket No. 14-0284

Site: 2801 W Bancroft

## Lighting Form

## Lighting Inventory Form

Applicant Name:	University of Toledo
Facility Name:	Bowman-Oddy
Date:	

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

For existing or proposed control, choose OCC for Occupancy 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 R, will be used to calculate your incentive on the NonStandard Lighting form.

Line Item	Building Address	Floor	PROJECT BASIC INFORMATION				PRE-INSTALLATION										POST-INSTALLATION										ENERGY CALCULATIONS									
			Area Description	Interior or Exterior Factors	Predominant Space Type	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Sensor Error (mm)	Existing Sensor Quantity (where applicable)	Post Fixture Qty	Post Fixture Code	Post Watts / Fixture (W)	Post kW / Space (kW)	Proposed Sensor Error (mm)	Proposed Sensor Quantity (where applicable)	Interior Change in Connected Load (kW) including CFLs or Exit Signs	Exterior Change in Connected Load (kW) including CFLs or Exit Signs	Change in Connected Load (kW) of CFLs or LED exit signs	Applicant's Conformance Factor (CF) Estimate	Conformance Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls Factor	Interior Demand Savings (W) excluding CFLs or Exit Signs	Exterior Demand Savings (W) excluding CFLs or Exit Signs	Demand Savings (kW) CFLs or LED Exit Signs	Applicant's Equivalent Full Load Hours (EFLH) Estimate	Prescribed Full Load Hours	Annual Interior Energy Saved (kWh) (excluding CFLs or Exit Signs)			
1.0	400 North Street	2	Office	Interior	Office - Small	Cooled Space	3	F48LL	172	0.34	NONE		3	CF1501-48V	56	0.12	0.00	3		0.17	85%	85%	34%	12%		30%	50%	0.71	0.19	2,408	3,438					
1.0	Example	1	Restaurant	Exterior	Restaurant - Fast Food	Uncooled Space	5	Example Cct Street 1	60	0.32	0.00	5		Example Cct Street 2	25	0.13	0.00	5		0.13	88%	88%	34%	12%	30%	50%		0.11	0.19	8,760	4,156					
1	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	38	F225S	56	2.00	NONE		38	F225L	33	1.19	NONE		0.83			84%	34%	12%				0.71		6,010	4,646					
2	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	20	F150T1	159	2.00	NONE		20	CF120T1	33	0.66	NONE			1.34			84%	34%	12%				1.51		1.15		5,010			
3	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	48	F205S	56	2.68	NONE		48	F225L	33	0.92	NONE		1.76				84%	34%	12%						1.78		5,010	9,888		
4	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	20	F150T1	159	3.00	NONE		20	CF140T1	48	0.92	NONE		2.08				84%	34%	12%				0.03		1.78		5,010			
5	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	1	F420S	96	0.16	NONE		1	F420L	59	0.08	NONE		0.94				84%	34%	12%						0.03		5,010	208		
6	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	40	F420S	148	5.80	NONE		40	F420L	117	4.68	NONE		1.12				84%	34%	12%				0.06		5.35		5,010	6,286		
7	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	40	880T1	80	2.40	NONE		40	CF120T1	127	0.88	NONE		1.12				84%	34%	12%						1.48		5,010			
8	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	40	880T1	80	2.40	NONE		40	CF151T1	15	0.60	NONE			1.80				84%	34%	12%						1.54		5,010		
9	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	5	F150T1	159	1.90	NONE		5	CF140T1	48	0.24	NONE			0.63				84%	34%	12%						0.72		5,010		
10	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	20	880T1	80	1.20	NONE		20	CF151T1	15	0.30	NONE			0.80				84%	34%	12%						0.77		5,010		
11	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	20	F150T1	159	2.00	NONE		20	CF120T1	33	0.66	NONE			1.34				84%	34%	12%				0.07		1.15		5,010		
12	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	3	F420S	148	0.44	NONE		3	F420L	117	0.35	NONE			0.38				84%	34%	12%						0.31		5	471	
13	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	60	F150T1	159	8.00	NONE		60	CF120T1	48	2.78	NONE		8.24				84%	34%	12%						5.35		5,010			
15	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	12	140T1	48	0.48	NONE		12	CF171T1	15	0.12	NONE			1.34				84%	34%	12%				0.02		1.15		5,010	167	
17	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	10	F150T1	159	1.00	NONE		10	CF120T1	33	0.33	NONE		0.67				84%	34%	12%						0.57		5,010			
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# Lighting Form

Line Item	Building Address	Floor	Area Description	PROJECT BASIC INFORMATION			Area Coding	PRE-INSTALLATION				POST-INSTALLATION				Interior Change in Connected Load (W) (not including CFLs or Exit Signs)	Exterior Change in Connected Load (W) (including CFLs or Exit Signs)	Change in Connected Load (W) CFL or LED exit sign	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Energy Calculations			Exterior Demand Savings (W) (including CFLs or Exit Signs)	Demand Savings (W) CFLs or LED Exit Signs	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual Interior Fixture kWh Saved (including CFLs or Exit Signs)
				Interior or Exterior Fixture	Predominant Space Type	Pre Fixture Qty		Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Sensor Technology (new equipment)	Existing Sensor Quantity	Post Fixture Qty	Post Fixture Code	Post Watts / Fixture (W)								Post kW / Space (kW)	Proposed Control Device (LUX, DALI, etc.)	Proposed Sensor Quantity (new equipment)					
139													NONE																	
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## Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	124,922
Total Change in Connected Load	22.26

Annual Estimated Cost Savings	\$12,492.20
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$1,083.25
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)	\$3,096.00
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	\$4,179.25
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Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	109
Total Lamp Quantity for retrofit Screw-In CFLs	66
Total Lamp Quantity for retrofit Hard-Wired CFLs	202
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)

19.09

Customer Legal Entity Name: University of Toledo  
Site Address: University of Toledo - Law Center  
Principal Address: 2801 W Bancroft

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	Law Center Auditorium Renovation	This project includes the replacement of existing lighting fixtures with new, more efficient fixtures.	Data was gathered from attachments A and entered into C to determine savings. This, and further data gathered from attachment D 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 replaced to improve energy efficiency.	N/A

## Exhibit 2

Customer Legal Entity Name: University of Toledo

**Site Address:** University of Toledo - Law Center

**Principal Address:** 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C) <i>Note 1</i>
2010	75,334,512	75,334,512	75,334,512
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>79,989,878</b>

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) \$ <small>Note 2</small>
1	Law Center Auditorium Renovation	06/04/2013	\$52,990	\$26,495	28,668	28,668	-	\$1,433	\$1,075
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
Total			\$52,990		28,668	28,668	0	\$1,433	\$1,075

Docket No. 14-0284

**Site:** 2801 W Bancroft

## 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	29	\$ 308	\$ 8,838	\$ 4,050	\$1,075	\$287	\$ 5,411	1.6
<b>Total</b>	<b>29</b>	<b>\$ 308</b>	<b>8,838</b>	<b>4,050</b>	<b>\$1,075</b>	<b>\$287</b>	<b>5,411</b>	<b>1.6</b>

#### 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 - Law Center  
Docket No. 14-0284

Site: 2801 W Bancroft

## Lighting Inventory Form

Applicant Name: University of Toledo

Facility Name:

Date:

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

For existing or proposed control, choose OCC for Occupancy 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 R, will be used to calculate your incentive on the NonStandard Lighting form.

[illegible]

## Lighting Form

[illegible]



## Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	28,668
Total Change in Connected Load	5.11

Annual Estimated Cost Savings	\$2,866.80
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$1,433.40
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	\$1,433.40
----------------------------	------------

Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	49
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)

4.38

Customer Legal Entity Name: University of Toledo  
Site Address: University of Toledo - Plant Operations  
Principal Address: 2801 W Bancroft

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	Plant Operations Renovations	This project includes the replacement of existing lighting fixtures with new, more efficient fixtures.	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 replaced to improve energy efficiency.	N/A

## Exhibit 2

**Customer Legal Entity Name:** University of Toledo

**Site Address:** University of Toledo - Plant Operations

**Principal Address:** 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C) <i>Note 1</i>
2010	75,334,512	75,334,512	75,334,512
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>79,989,878</b>

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) \$ <i>Note 2</i>
1	Plant Operations Renovations	05/21/2013	\$32,200	\$16,100	15,212	15,212	-	\$761	\$571
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
	Total		\$32,200		15,212	15,212	0	\$761	\$571

Docket No. 14-0284

**Site:** 2801 W Bancroft

## 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	15	\$ 308	\$ 4,690	\$ 4,050	\$571	\$152	\$ 4,773	1.0
<b>Total</b>	<b>15</b>	<b>\$ 308</b>	<b>4,690</b>	<b>4,050</b>	<b>\$571</b>	<b>\$152</b>	<b>4,773</b>	<b>1.0</b>

#### 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 - Plant Operations  
Docket No. 14-0284

Site: 2801 W Bancroft

## Lighting Inventory Form

Applicant Name: University of Toledo

Facility Name:

Date:

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

For existing or proposed control, choose OCC for Occupancy 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 R, will be used to calculate your incentive on the NonStandard Lighting form.

[illegible]

## Lighting Form

[illegible]

## Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	15,212
Total Change in Connected Load	2.71

Annual Estimated Cost Savings	\$1,521.20
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$760.60
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	\$760.60
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Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	21
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)

2.32

Customer Legal Entity Name: University of Toledo  
Site Address: University of Toledo - Rockethall Classrooms  
Principal Address: 2801 W Bancroft

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	Rockethall Classroom Upgrades	This project includes the replacement of existing lighting fixtures with new, more efficient fixtures.	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 replaced to improve energy efficiency.	N/A

**Exhibit 2**

**Customer Legal Entity Name:** University of Toledo  
**Site Address:** University of Toledo - Rockethall Classrooms  
**Principal Address:** 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2010	75,334,512	75,334,512	75,334,512
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>79,989,878</b>

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) \$ <i>Note 2</i>
1	Rockethall Classroom Upgrades	07/05/2012	\$23,500	\$11,750	22,329	22,329	-	\$1,116	\$837
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		<b>Total</b>	<b>\$23,500</b>		<b>22,329</b>	<b>22,329</b>	<b>0</b>	<b>\$1,116</b>	<b>\$837</b>

**Docket No.** 14-0284  
**Site:** 2801 W Bancroft

**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	22	\$ 308	\$ 6,884	\$ 4,050	\$837	\$223	\$ 5,110	1.3
<b>Total</b>	<b>22</b>	<b>\$ 308</b>	<b>6,884</b>	<b>4,050</b>	<b>\$837</b>	<b>\$223</b>	<b>5,110</b>	<b>1.3</b>

#### 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 - Rocket Hall Classrooms  
Docket No. 14-0284

Site: 2801 W Bancroft

## Lighting Inventory Form

Applicant Name: University of Toledo

Facility Name:

Date:

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

For existing or proposed control, choose OCC for Occupancy 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 R, will be used to calculate your incentive on the NonStandard Lighting form.

[illegible]

## Lighting Form

[illegible]

## Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	22,329
Total Change in Connected Load	3.98

Annual Estimated Cost Savings	\$2,232.90
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$1,116.45
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	\$1,116.45
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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 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)

3.41



Customer Legal Entity Name: University of Toledo  
Site Address: University of Toledo - Stranahan  
Principal Address: 2801 W Bancroft

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	Stranahan Maintenance Upgrade	This project includes the replacement of existing lighting fixtures with new, more efficient fixtures.	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 replaced to improve energy efficiency.	N/A

## Exhibit 2

**Customer Legal Entity Name:** University of Toledo

**Site Address:** University of Toledo - Stranahan

**Principal Address:** 2801 W Bancroft

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C) <i>Note 1</i>
2010	75,334,512	75,334,512	75,334,512
2009	84,645,244	84,645,244	84,645,244
<b>Average</b>	<b>79,989,878</b>	<b>79,989,878</b>	<b>79,989,878</b>

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) \$ <i>Note 2</i>
1	Stranahan Maintenance Upgrade	05/21/2013	\$26,987	\$13,494	16,385	16,385	-	\$819	\$614
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
					-	-	-		
		Total	\$26,987		16,385	16,385	0	\$819	\$614

Docket No. 14-0284

**Site:** 2801 W Bancroft

## 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	\$ 5,051	\$ 4,050	\$614	\$164	\$ 4,828	1.0
<b>Total</b>	<b>16</b>	<b>\$ 308</b>	<b>5,051</b>	<b>4,050</b>	<b>\$614</b>	<b>\$164</b>	<b>4,828</b>	<b>1.0</b>

#### 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 - Stranahan  
Docket No. 14-0284

Site: 2801 W Bancroft

# Lighting Form

## Lighting Inventory Form

Applicant Name: \_\_\_\_\_ University of Toledo  
 Facility Name: \_\_\_\_\_  
 Date: \_\_\_\_\_

Instructions: Please use one line for each fixture type in a room or area.  
 For existing or proposed control, choose OCC for Occupancy Sensor, DAYLIT 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 R, will be used to calculate your incentive on the NonStandard Lighting form.

PROJECT BASIC INFORMATION						PRE-INSTALLATION						POST-INSTALLATION						Energy Calculations																	
Line Item	Building Address	Floor	Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Sensor Type	Existing Sensor Quantity when applicable	Post Fixture Qty	Post Fixture Code	Post Watts / Fixture (W)	Post kW / Space (kW)	Proposed Sensor Type	Proposed Sensor Quantity when applicable	Interior Change in Connected Load (w/ existing CFLs or Exit Signs)	Exterior Change in Connected Load (w/ existing CFLs or Exit Signs)	Change in Connected Load (kW) CFL or LED exit sign	Applicant Coincidence Factor (CF) Estimate	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (emergency)	Pre Controls Factor	Post Controls Factor	Interior Demand Savings (kW) excluding CFLs or Exit Signs	Exterior Demand Savings (kW) excluding CFLs or Exit Signs	Demand Savings (kW) CFLs or LED Exit Signs	Applicant Equivalent Full Load Hours (EFLH) Estimate	Prescribed Equivalent Full Load Hours	Annual Interior Fixture kWh Saved (excluding CFLs or Exit Signs)		
e.g.	400 North Street	2	Office	Interior	Office - Small	Cooled Space	3	F48L1	112	0.34	NONE		3	CF1501-BX	36	0.12	OCC	3				44%	44%	34%	25%							0.19	2,808	3,456	
e.g.	Example	1	Restaurant	Exterior	Restaurant - Fast Food	Uncooled Space	6	Example Exit Sign 1	NONE	0.00	NONE		6	Example Exit Sign 2	25	0.19	DAYLIT	6			0.13	0.17	44%	44%	34%	25%	30%	30%			0.11	8,760	4,156		
1	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	40	Cut Sheet 1	75	3.00	NONE		40	Cut Sheet 2	38	1.54	NONE		1.56				44%	44%	34%	25%			1.68				6,070	10,500	
2	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	24	Cut Sheet 3	32	0.77	NONE		24	Cut Sheet 4	17	0.41	NONE		0.38				44%	44%	34%	25%			0.31				6,070	2,500	
3	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	20	Cut Sheet 5	50	1.00	NONE		20	Cut Sheet 6	20	0.40	NONE		0.60				44%	44%	34%	25%			0.51				6,070	3,987	
4	2801 W Bancroft	1	University	Interior	Education - University	Cooled Space	20	Cut Sheet 7			NONE		20	Cut Sheet 8			NONE						44%	44%	34%	25%							6,070		
5											NONE						NONE																		
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## Lighting Form

[illegible]

## Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	16,385
Total Change in Connected Load	2.92

Annual Estimated Cost Savings	\$1,638.50
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$819.25
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	\$819.25
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Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	104
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)

2.50

**Mercantile Customer Project Commitment Agreement**  
**Cash Rebate Option**

**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 for integration into the Company’s Energy Efficiency & Peak Demand Reduction Program Portfolio Plan (“Company Plan”) that the Company will implement in order to comply with the Statute; and

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

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

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

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

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



- a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and/or kW reductions resulting from said projects for purposes of complying with the Statute. By committing the Customer Energy Project(s), Customer further acknowledges and agrees that the Company shall take ownership of the energy efficiency capacity rights associated with said Project(s) and shall, at its sole discretion, aggregate said capacity into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements
  - b. The Company acknowledges that some of Customer's Energy Projects contemplated in this paragraph may have been performed under certain other federal and/or state programs in which certain parameters are required to be maintained in order to retain preferential financing or other government benefits (individually and collectively, as appropriate, "Benefits"). In the event that the use of any such project by the Company in any way affects such Benefits, and upon written request from the Customer, Company will release said Customer's Energy Project(s) to the extent necessary for Customer to meet the prerequisites for such Benefits. Customer acknowledges that such release (i) may affect Customer's cash rebate discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations.
  - c. Any future Customer Energy Project(s) committed by Customer shall be subject to a separate application and, upon approval by the Commission, said projects shall become part of this Agreement.
  - d. Customer will provide Company or Company's agent(s) with reasonable assistance in the preparation of the Commission's standard joint application for approval of this Agreement ("Joint Application") that will be filed with the Commission, with such Joint Application being consistent with then current Commission requirements.
  - e. Upon written request and reasonable advance notice, Customer will grant employees or authorized agents of either the Company or the Commission reasonable, pre-arranged access to the Customer Energy Project(s) for purposes of measuring and verifying energy savings and/or peak demand reductions resulting from the Customer Energy Project(s). It is expressly agreed that consultants of either the Company or the Commission are their respective authorized agents.
2. **Joint Application to the Commission.** The Parties will submit the Joint Application using the Commission's standard "Application to Commit Energy Efficiency/Peak Demand Reduction Programs" ("Joint Application") in which they will seek the Commission's approval of (i) this Agreement; (ii) the commitment of the Customer Energy Project(s) for inclusion in the Company Plan; and (iii) the Customer's Cash Rebate.

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

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

3. **Customer Cash Rebate.** Upon Commission approval of the Joint Application, Customer shall provide Company with a W-9 tax form, which shall at a minimum include Customer's tax identification number. Within the greater of 90 days of the Commission's approval of the Joint Application or the completion of the Customer Energy Project, the Company will issue to the Customer the Cash Rebate in the amount set forth in the Commission's Finding and Order approving the Joint Application.
- a. Customer acknowledges: i) that the Company will cap the Cash Rebate at the lesser of 50% of Customer Energy Project(s) costs or \$250,000; ii) the maximum rebate that the Customer may receive per year is \$500,000 per Taxpayer Identification Number per utility service territory; and iii) if the Customer Energy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to file such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discounted by 25%; and
  - b. Customer acknowledges that breaches of this Agreement, include, but are not limited to:
    - i. Customer's failure to comply with the terms and conditions set forth in the Agreement, or its equivalent, within a reasonable period of time after receipt of written notice of such non-compliance;
    - ii. Customer knowingly falsifying any documents provided to the Company or the Commission in connection with this Agreement or the Joint Application.
  - c. In the event of a breach of this Agreement by the Customer, Customer agrees and acknowledges that it will repay to the Company, within 90 days of receipt of written notice of said breach, the full amount of the Cash Rebate paid under this Agreement. This remedy is in addition to any and all other remedies available to the Company by law or equity.
4. **Termination of Agreement.** This Agreement shall automatically terminate:
- a. If the Commission fails to approve the Joint Agreement;
  - b. Upon order of the Commission; or
  - c. At the end of the life of the last Customer Energy Project subject to this Agreement.

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

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

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

- b. A Party receiving such Confidential Information shall protect it with the same standard of care as its own confidential or proprietary information.
  - c. A Party receiving notice or otherwise concluding that Confidential Information furnished by the other Party in connection with this Agreement is being sought under any provision of law, to the extent it is permitted to do so under any applicable law, shall endeavor to: (i) promptly notify the other Party; and (ii) use reasonable efforts in cooperation with the other Party to seek confidential treatment of such Confidential Information, including without limitation, the filing of such information under a valid protective order.
  - d. By executing this Agreement, Customer hereby acknowledges and agrees that Company may disclose to the Commission or its Staff any and all Customer information, including Confidential Information, related to a Customer Energy Project, provided that Company uses reasonable efforts to seek confidential treatment of the same.
6. **Taxes.** Customer shall be responsible for all tax consequences (if any) arising from the payment of the Cash Rebate.
7. **Notices.** Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or facsimile transmission addressed as follows:

**If to the Company:**

FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308  
Attn: Victoria Nofziger  
Telephone: 330-384-4684  
Fax: 330-761-4281  
Email: [vmnofziger@firstenergycorp.com](mailto: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](mailto:brooke.mason@utoledo.edu)

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

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

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

The Toledo Edison Company\_  
(Company)

By: John C. Large

Title: V.P. Of Energy Efficiency

Date: 3-3-14

University of Toledo\_  
(Customer)

By: McKen

Title: Direct Energy

Date: 12.14.13

Affidavit of DUniversity of Toledo – Exhibit A

STATE OF OHIO                                 )  
  )  
COUNTY OF Lucas             )             SS:

I, Michael Green \_\_\_\_\_, being first duly sworn in accordance with law, deposes and states as follows.

1. I am the \_\_\_\_\_ Director of 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.



Michael Green

Sworn to before me and subscribed in my presence this 16 day of 12, 2013

Lorie Ann Sarnes  
Notary

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**8/21/2014 2:24:27 PM**

**in**

**Case No(s). 14-0284-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