

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

Case No.: 13-0701-EL-EEC

Mercantile Customer: University of Toledo

Electric Utility: The Toledo Edison Company

Program Title or

Maintenance VFD, Motor and Lighting Upgrades

Description:

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

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

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

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

Section 1: Mercantile Customer Information

Name: University of Toledo Principal address: 2801 W. Bancroft Toledo, OH 43606 Address of facility for which this energy efficiency program applies: See Exhibit 1 Name and telephone number for responses to questions: Dan Dumond 614-949-5203 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

Revised June 24, 2011 -2-

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):
	\boxtimes	Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):
		See Exhibit 1.
		Behavioral or operational improvement.
3)	Ener	gy 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: 276,696 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

Revised June 24, 2011 -3-

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: 98,718 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.

Revised June 24, 2011 -4-

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 efficience 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 tarif- 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 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

Revised June 24, 2011 -5-

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

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

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

A)	The custo	mer is applying for:
	Optio	on 1: A cash rebate reasonable arrangement.
	OR	
		on 2: An exemption from the energy efficiency cost recover- nanism implemented by the electric utility.
	OR	
	Com	mitment 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 \$17,619. (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.)

Revised June 24, 2011 -6-

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 The electric utility's avoided supply costs were _____

-7-Revised June 24, 2011

Our program costs were _____.

The incremental measure costs were

utility.

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;
 - 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.

Revised June 24, 2011 -8-

Public Utilities Commission

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

Case No.: 13-0701-EL-EEC

State of Ohio:

Mich	nael Green, Affiant, being duly sworn according	ng 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 an	y applicable name(s) domg business as]	
2.	including any exhibits and attachments. Base	ation contained in the foregoing application, ed upon my examination and inquiry of those taining the information contained in the true, accurate and complete.	
NE Signat	ture of Afflant & Title		
Sworn	and subscribed before me this May of	Month/Year	
/ Signat	ure of official administering oath	Print Name and Title	ge ^e j ³ is
Му со	mmission expires on	DIANA SUE RAIDER Notary Public, State of Ohio Wood County My Commission Explies Dec. 16, 2013	

Site Address: University of Toledo Maintenance Department

What date would you have replaced your

Principal Address: 2801 W. Bancroft St.

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Lighting Retrofit	This project includes the replacement of existing lighting fixtures with more efficient (RW T8 and LED) fixtures.	Using the lighting invoices seen in Attachment A, data was gathered and entered into the FE Lighting Project Cash Rebate Form to determine the savings shown in this project tab. Attachment B is an organized summary of the type, quantity, and pricing data from the lighting invoices. Attachment C includes the manufacturer cut sheets and specifications of the installed lights.	Within the next year. This has been determined becasue these systems have an average lifespan of 40,000 hours. They have been in place for ten years.	N/A
2	Motor Upgrades	This project includes replacment of several motors with new motors that are more efficient.	Using the motor invoices seen in Attachment D, data was gathered and entered into the FE Motor and Drives Cash Rebate Form to determine the rebate. Attachment F is an organized summary of the type, quantity, and pricing data from the motor invoices. Attachment E includes the manufacturer cut sheets and specifications of the installed motors. Savings were calculated in Attachment G.	No specific time frame. Motor were replaced for energy efficiency improvements, and wer efully functional and had no known obsolescence date at time of replacement.	N/A
3	VFD Installation	This project includes the installation of new VFDs on esxisting motors to control them.	Data was gathered from attachment H, proof of purchase for the VFDs and attachment I, a spec sheet for the VFDs. It was entered into the Motors and drives form to calculate rebate, and entered into attachment J to calculate the savings.	N/A	The alternative was to not install controls and allow the motors to run at full speed.

Docket No. 13-0701

Site: 2801 W. Bancroft St.

Customer Legal Entity Name: University of Toledo

2010

Average

Site Address: University of Toledo Maintenance Department

79,989,878

Principal Address: 2801 W. Bancroft St.

Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
75,334,512	75,334,512	75,334,512
84,645,244	84,645,244	84,645,244

79,989,878

Projec Numbe		Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2	Commitment Payment \$
1	Lighting Retrofit		02/14/2013	\$24,621	\$12,311	263,571	263,571	-	\$13,179	\$9,884	
2	Motor Upgrades		06/12/2012	\$21,968	\$10,984	13,125	13,125	-	\$998	\$749	
3	VFD Installation		02/26/2013	\$30,810	\$15,405	98,718	98,718	-	\$9,315	\$6,986	
						-	-	-			
						-	-	-			
						-	-	-			
						-	-	-			
			Total	\$77,399		375,414	375,414	0	\$23,492	\$17,619	\$0

79,989,878

FILE-11-1-

Docket No. 13-0701

Site: 2801 W. Bancroft St.

Notes

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

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

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	264	\$ 308	\$ 81,254	\$ 1,350	\$9,884	\$2,636	\$ 13,870	5.9
2	13	\$ 308	\$ 4,046	\$ 1,350	\$749	\$131	\$ 2,230	1.81
3	99	\$ 308	\$ 30,433	\$ 1,350	\$6,986	\$987	\$ 9,323	3.26

Total	375	\$ 308	115,733	4,050	\$17,619	\$3,754	25,423	4.6

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 Maintenance Department Docket No. 13-0701

Site: 2801 W. Bancroft St.

Lighting Inventory Form

Applicant Name: Facility Name: Date: University of Toledo Maintenance Dept

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

For existing or proposed control, choices OCC for Occupany Serious, DAYLTO for photosensor, or NONE for none. Control must save energy to quality.

The basid occurred, proceedings are control of CFL and not in signs in Column M, and the quantities of serious in Column M, will be used to calculate your incentive on the NonGlanderd Lighting form.

Line Building Address	Floor Area Description	PROJECT I Interior or Exterior Fixture	BASIC INFORMATION Predominant Space Type	Area Cooling	Pre Fixture Qty	PRE-III	STALLATION Pre Watts /	Pre kW /	Existing Existing	Post	Post Fixture Code	POST-INSTALL Post Watts/	ATION Post kW / Propo	sed Proposed Inter	erior Change E	exterior Change	in Applicant	Coincidence	Interactive	Interactive F	Energy C	alculations st Interior	r Exterior	Demand App	olicant Prescribe	ed Annual Interior
Item		Fixture			City		Fixture (W)	Pre kW / Space (kW)	Existing Existing Control Sensor Quantity When applical	Post Fixture Qty		Fixture (W)	Post kW / Propo: Space (kW) Pisses of DAYLTG, 6 NOME	rol Sensor in C enter Quantity DCC or When applicable (kW	Connected Ci Load Co V) excluding Lo	nange in Connected Load (kW) (kW) cling CFLs CFL or I	ted Coincidence Factor (CF)	Factor	Factor (demand)	Factor (energy)	Factor Conti Fact	rols Demani or Saving: (kW)	d Demand Savings (kW)	(kW) Full CFLs or He	I Load Full Loa ours Hours	d Saved (excluding
														C.	Signs or E	exit Signs exit si	p Estimate					CFLs o Exit Sign	r CFLs or	Signs Est	imate	Signs)
e.g. 400 North Street e.g. Example		Interior Exterior	Office - Small Restaurant - Fast Food	Cooled Space Uncooled space	3 5	F44ILL Example Cut Sheet 1	112 50	0.34	NONE OCC 5	3	CFT55/1-BX Example Cut Sheet 2					0.17	84% 88%	84% 88%	34%	12%	30% 509	6	0.11	0.19 2, 8,	808 3,435 760 4,156	
1 2801 W. Bancroft St. 2 2801 W. Bancroft St. 3 2801 W. Bancroft St. 4 2801 W. Bancroft St. 5 2801 W. Bancroft St. 6 7 8 9 10	1 University 1 University	Interior Exterior Exterior	Education - University Education - University	Cooled Space Uncooled space	1,000	F42SS MH50/1 MH70/1	94 72	94.00 94.00 92.20 9.21 9.41 1.13	NONE NONE	1,000	F42SSILL Cut Sheet 3	48 26	48.00 NGN 0.08 NGN 0.29 NGN 0.21 NGN 0.66 NGN	E E	46.00	0.14 0.28	100%	64% 64% 64%	34%	12%		39.45	0.09	5,	,010 5,010 ,010 5,010	258,115
3 2801 W. Bancroft St. 4 2801 W. Bancroft St. 5 2801 W. Bancroft St.	1 University 1 University 1 University	Exterior Exterior	Education - University Education - University Education - University	Uncooled space Uncooled space Uncooled space	1,000 3 6 3 6	MH70/1 hps100/1 hps150/1	95 138 188	0.57 0.41 1.13	NONE NONE NONE	6 3 6	F42SSILL Cut Sheet 3 Cut Sheet 5 Cut Sheet 7 Cut Sheet 10	48 71 110	0.29 NON 0.21 NON 0.66 NON	E E		0.28 0.20 0.47	100% 100% 100%	64% 64%					0.09 0.18 0.13 0.30	5, 5,	010 5,010 010 5,010 010 5,010	
6 7 8									NONE NONE NONE				NON NON NON	E E												
44									NONE NONE NONE				NON NON NON	E E												
12 13 14 15 16									NONE NONE NONE				NON NON NON	E E												
15 16 17									NONE NONE NONE				NON NON NON NON	IE IE												
18 19									NONE NONE				NON NON NON	E E												
21 22									NONE NONE				NON NON NON	E												
25 24 25 26 27									NONE NONE				NON NON NON NON NON	E E												
									NONE NONE				NON NON	E E												
29 30 31									NONE NONE				NON NON NON	E E												
32 33 34 35									NONE NONE				NON NON NON	E E												
36 37									NONE NONE				NON NON NON	E E												
38 39 40									NONE NONE				NON NON NON	E E												
41 42 43 44 45 46 47									NONE NONE NONE NONE NONE NONE NONE NONE	E			NON	E E												
44 45 46									NONE NONE NONE				NON NON NON	E E												
47 48 49									NONE NONE NONE				NON NON NON	E E												
50 51 52									NONE NONE				NON NON	E E												
53 54									NONE NONE				NON NON	E												
56 57									NONE NONE NONE				NON NON	E E												
58 59 60									NOME NOME NOME NOME NOME NOME NOME NOME				NOS	E E												
61 62 63 64 65									NONE NONE				NON NON	E E												
64 65 66									NONE NONE NONE				NON NON NON	E E												
67 68 69									NONE NONE NONE				NON NON NON	E E												
70 71 72									NONE NONE NONE				NON NON NON	E E												
72 73 74 75 76									NONE NONE NONE				NON NON NON	E E												
									NONE NONE NONE				NON NON NON	E E												
79 80 81									NONE NONE NONE				NON NON NON	E E												
78 79 80 81 82 83 84									NONE NONE NONE				NON NON NON	E E												
85 86 87									NONE NONE NONE				NON NON NON	E E												
88 89									NONE NONE				NON NON	E E												
91 92									NONE NONE NONE				NON NON NON	E E												
99 90 91 92 93 94 95 96 97									NOME NOME NOME NOME NOME NOME NOME NOME				NO.	E E												
96 97 98									NONE NONE NONE NONE NONE NONE NONE NONE				NICON	E E												
99 100 101									NONE NONE				NON NON	E E												
100 101 102 103 103 104 105 106 107 108 109 110 111 111 112 113									NONE NONE				NON NON NON	E E												
105 106 107									NONE NONE NONE				NON NON NON	E E												
108 109 110									NONE NONE NONE				NON NON	E E												
111 112 113									NONE NONE				NON	E												
113 114 115 116										LΞ			NON NON NON	E E												
117 118 119									NONE NONE NONE				NON NON NON	E E												
120 121 122									NONE NONE NONE				NON NON NON	E E												
121 122 123 124 125 126 127									NONE NONE NONE				NON NON	E E												
126 127 128									NONE NONE NONE NONE NONE NONE NONE NONE				NION NION NION NION NION NION NION NION	E E												
129									NONE NONE NONE				NON NON NON NON	E												
132 133									NONE				NON NON	E E												
130 131 132 133 134 135 136 137 138									NONE NONE NONE NONE NONE				NON NON NON	E E												
137 138					\vdash				NONE NONE	+			NON NON NON	E												

		PPO IECT D	ASIC INFORMATION			DDE.III	NOTALI ATION					POST-INSTALL	ATION									Enc	con Calculatio	one				
Line I	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)	control Ser	sting Post isor Fixtur ntity Qty	Post Fixture Code	Post Watts/ Fixture	Post kW / Space	Proposed Control	Proposed Sensor Quantity	Interior Change Exterior in Connected Change in	Change in Connected	Applicant Coincidence	Coincidence Factor	Interactive Factor (demand)	Interactive Factor (energy)	Pre Controls Factor	Post Controls I	Interior Exterior Demand Deman	r Demand 1 Savings	Applicant Equivalent	Prescribed A	Annual Interio
								(kW)	rep down Qua When a	ntity Oty		Fixture (W)	Space (kW)	Control Please enter DAYLTG, OCC or NONE.	Quantity When applicable	in Connected Load (kW) excluding CFLs or Exit Signs Change in Connected Load (kW) excluding CFLs or Exit Signs	Connected Load (kW) CFL or LED	Coincidence Factor (CF) Estimate		(demand)	(energy)		Factor 1	Savings Saving (kW) (kW) xcluding excluding CFLs or CFLs cxit Signs Exit Sig	Savings (kW) CFLs or g LED Exit r Signs	Full Load Hours	Full Load Hours	Fixture kWh Saved (excluding CFLs or Exit Signs)
														NO.		CFLs or Exit excluding CFLs	CFL or LED exit sign	Estimate						xcluding excludi	g LED Exit	Hours (EFLH)		CFLs or Exit
																							E	xit Signs Exit Sig	15			
139									NONE					NONE														
139 140									NONE NONE					NONE NONE														
141 142									NONE NONE					NONE NONE														
143									NONE NONE					NONE NONE														
145 146 147									NONE NONE NONE NONE NONE					NONE NONE														
148									NONE					NONE														
148 149 150									NONE					NONE NONE NONE														
151 152														NONE														
152 153 154									NONE NONE NONE					NONE NONE NONE														
155 156									NONE					NONE														
157 158									NONE	-				NONE									-				\rightarrow	_
									NONE NONE NONE NONE NONE NONE	_				NONE														
161									NONE					NONE NONE														
160 161 162 163 164									NONE					NONE NONE NONE NONE NONE NONE NONE NONE														
165									NONE					NONE														
165 166 167 168 169									NONE NONE NONE					NONE NONE NONE														
168									NONE					NONE														
170									NONE NONE NONE NONE					NONE NONE NONE NONE NONE														
172 173									NONE					NONE NONE														
174 175									NONE NONE NONE					NONE														
176 177 178									NONE NONE NONE					NONE NONE NONE													_	
178									NONE					NONE NONE														
179 180 181									NONE NONE NONE					NONE NONE NONE														
182									NONE NONE NONE NONE NONE NONE					NONE NONE														
184									NONE					NONE														
184 185 186 187									NONE					NONE NONE NONE														
187 188 189									NONE NONE NONE					NONE NONE														
189 190 191									NONE NONE					NONE														
									NONE NONE NONE NONE NONE NONE NONE NONE					NONE NONE NONE NONE NONE NONE NONE NONE													_	
193 194									NONE NONE	_				NONE														
194 195 196 197									NONE NONE	_				NONE														
197									NONE					NONE														
199									NONE NONE NONE					NONE NONE NONE														
201									NONE NONE NONE					NONE NONE NONE													=	
203									NONE					NONE														
205									NONE NONE					NONE														
206									NONE					NONE														
198 199 200 201 202 203 204 205 206 207 208 209 210 211									NONE NONE NONE NONE NONE NONE					NONE NONE NONE NONE NONE NONE NONE NONE														
210 211									NONE NONE					NONE NONE														
212 213 214									NONE NONE NONE					NONE NONE NONE														
214 215 216					T				NONE NONE NONE					NONE NONE NONE														
216 217				·	-				NONE		+			NONE														
217 218 219									NONE NONE NONE NONE					NONE NONE NONE NONE NONE NONE														
219 220 221									NONE					NONE														
221 222									NONE NONE					NONE														
223 224 225									NONE NONE NONE					NONE NONE NONE														
225 226 227									NONE					NONE NONE														
227									NONE NONE NONE																			
228 229 230									NONE					NONE NONE														
231 232 233 234 235 236									NONE NONE NONE NONE					NONE NONE NONE														
233 234					T				NONE					NONE														
235 236		-		-		-			NONE NONE		-			NONE				-										
237									NONE NONE					NONE NONE NONE														
239 240 241											1			NONE														
241									NONE					NONE														
242 243 244									NONE NONE NONE NONE NONE					NONE NONE NONE NONE NONE														
244									NONE					NONE														
245 246 247 248 249 250 Totals									NONE NONE NONE					NONE NONE NONE														
248 249					T				NONE NONE NONE					NONE NONE NONE														
250 Totals				1	1,018			96.33	NONE	1,018	3		49.24	NONE	l	46.00 1.09								39.45 0.70			-	258,115
							L				_	Ŀ											£			•	L	

Project Estimated Annual Savings Summary

Estimated Annual kWh Savings	263,571
Total Change in Connected Load	47.09

Annual Estimated Cost Savings	\$26,357.10
Annual Operating Hours	5,010

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$12,905.75
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$272.80
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	\$13,178.55
Total Fixture Quantity excluding retrofit CFLs and LED Exit Sign	1018
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)

40.15



Ohlo Edison - The illuminating Company - Tolede Edison

Motors and Drives Incentives for Business Program

The Motors and Drives Incentives for Business Program from Ohio Edison, The illuminating Company, and Toledo Edison (FirstEnergy's utilities) offers incentives and information to encourage participants to install NEMA Premium* motors and Variable Frequency Drives. The program is funded by FirstEnergy nonresidential utility outtomers in Ohio in accordance with Senata Bill 221.

Effective Date:

To qualify for incentive levels on this application form, equipment must have been purchased on or after April 11, 2011 and after receipt of a formal pre-approval letter from the program.

Eligible Participants

The Motors and Drives incentives Program is available to existing facilities of commercial and industrial retail service customers of FirstEnergy's utilities in Ohio. Residential customers may take advantage of separate programs.

Eligible Measures

To qualify for an incentive, the motor(s) must operate a minimum of 2,000 hours annually. Only AC induction motors are eligible for incentives.

To be eligible for the motor incentives:

- 1. Projects must be a "one-for-one" replacement of a motor with a new, NEMA Premium" motor. The sizes (hp) of the existing and new motors may vary, but the project must involve replacing a quantity of motors for the same quantity of new motors. For new construction, the "existing" motor should be a code-compliant option that is less efficient than the NEMA Premium" motor that is being installed.
- 2. Project does not involve a change in annual run hours.
- Project includes the installation of a new NEMA Premium® motor of up to 200hp.

Variable Frequency Drives (VFDs) incentives are available only for the installation of a new VFD on applications where no existing speed control exists on applications controlling a maximum of 500 hp. This form can be used for most Motors & VFD projects by following the additional requirements relative to measurement of the "load factor" and "annual operating hours". See pages 3 and 4 for details. For other projects involving motors and drives, please apply to the Custom Incentives for Business program.

Existing Facilities vs. New Construction

Existing facilities and new construction projects, as defined above, are eligible for these incentives. Existing facilities should consider the currently installed equipment when calculating the baseline energy usage. New construction projects should follow applicable building energy construction code when calculating baseline energy use.

Pre-Approval Requirements

Effective January 1, 2012 all applications received by the program will require pre-approval before the purchase and Installation of equipment.

I ineltations

All incentives evailable from FirstEnergy's Motors and Drives program are limited to the total project cost (including labor).

Questionsi

If you have questions, please review the FAQ section of the program website at www.energysaveOhio.com. This information is being updated regularly.

Specific questions can also be sent to program representatives via email at energysaveOhio@saic.com.

Confirmation of Materials Received

If you do not get a confirmation that we have received your materials within five business days, please contact us at energysaveOhio@saic.com.

How Do I Apply for Incentives?

Please review the Business Program Terms and Conditions and application requirements

- Step 1: Review program materials to confirm the energy efficiency measures meet program requirements. Visit www.energysaveOhlo.com or contact us at energysaveOhlo@saic.com or 1-866-578-5220 with questions.
- Step 2: Complete the program application and attach a copy of supporting technical documentation required to verify that installed equipment meets program efficiency levels, such as manufacturers' cut sheets.

Sign the application form and submit a complete application package to the program for consideration, review and approval. Incomplete applications will not be considered and will be returned to the applicant for completion.

A complete application package includes:

- A signed application form, with all information requested on pages three and four.
- · A copy of IRS form W-9 for the incentive payee.
- Manufacturers' specification (cut) sheets for each installed motor and drive type to verify that the equipment meets the program efficiency requirements.

Complete application packages must be returned via email, fax or hardcopy:

Mell: FirstEnergy Motors and Drives Incentives

for Business Program 8870 Derrow Road Suite F106-243 Twinsburg, OH 44087

Fax: 440-201-6936

Email: energysaveOhio@saic.com

- Step 3: The program will notify the applicant via email when the review is complete and funds have been reserved. Participants may purchase and install their energy efficient equipment upon notification of pre-approval.
- Step 4: Once the project is complete, you should review your approved application for any changes to the project that occurred during installation and make the needed corrections. Resubmit the application, along with a dated proof of purchase, to the program for incentive payment.

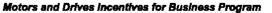
Applications and supporting technical documentation will be reviewed by program staff, and an onsite inspection to verify the installation may be conducted. Upon receipt and verification of all required documentation, the incentive check will be processed and mailed to the applicant or to an authorized representative, if requested on the application.

To confirm tax status, all applicants (including tax exempt entities) must submit a W-9 with Tax Identification associated with the incentive recipient to enable processing, incentives will not be paid until W-9s have been received.

Motors and Drives Incentives for Business Program



11.7	CUSTOMER	AND PROJECT IN	IFORMATIC	ON		
	Cu	stomer Informat	ion			
Company Name (must match name on utility bill) University of Toledo			Utility Comp		nating Compar	ny Toledo Edison
Tax ID (SSN/FEIN): 34-6401483			Account Nur	nber (Required)	ш	
Mailing Address (check mailed to): 2801 W Bancroft St		City: Toledo			State: OH	Zlp: 43606
Contact Name: Brooke Mason		Title: Sustainability Sp	ecialist			
Email Address: brooke.mason@utoledo.edu		Telephone: 419-530-1042			Fax:	
Physical Installation Address (If different from abo	ove):	City:	64 A		State:	Zip:
How did you hear about the program?	ram Contact U	tility Contact Pro	gram Ally	Direct Mail	/lass Media	☐ Seminar
FE Account Manger:		Program Adm	inistrator:			
Other:						
	Contractor / Prog	ram Ally Informa	tion – If app	licable		
Company Name: Plug Smart		Contact Name: Lucas Dixon			Title: Operations	Manager
Malling Address: 1275 Kinneer Road Suite 229		City:			State:	Zip:
Email Address:		Columbus Telephone:			OH Fax:	43212
lucas.dixon@plugsmart.com	Anatom to the second	(614) 580-3352	And the state of t	20	800-518-5	576
Please note that incentive p			ove unless a Tr	vird Party payment is	authorized.	
If less than 100 percent of incentive amount i	is to be assigned to the		<u> </u>	centive Form locate	d at www.energ	yeaveOhio.com
Payable To:		Representative Con	tact:			
Malling Address:		City:			State:	Zlp:
Phone:	Email Address:			Tax ID (SSN/FEIN):		
Customer Contact Signature:	_					
Print Name:	Date	3.4		•		
Fill Isalie.		ty / Project Inform	nation			
Facility Type (check one):	T	est description of the		Customer Class	(Check all that	t apply):
Education - Primary School		type included for thi		☐ Not-for-Pro		
☐ Education — Secondary School	(check one):			☐ Multifemily	1	
☐ Education — Community College	Air Conditioned	Space		☐ Commercia	ıl	
☑ Education — University	No Air Condition	ning		☐ industrial		
Grocery	☐ Freezer Space					ty or Municipal)
Medical – Hospital	☐ Refrigerated Spi	ace		☐ institution	al	
Medical – Clinic				Low Incom	•	
Lodging Hotel (Guest Rooms)	■ New Construction	30		☐ Federal Go		Section and the Control
Lodging Motel	Existing Facility	211		Note: Residenti a different prog		ay take advantage of
■ Manufacturing – Light Industrial ■ Multifamily – Common Areas		hia at ware facility				
Office – Large		ble at your facility? No		Fecility Size (ap	prox. sq. rc.):	
Office – Small						
Restaurant - Sit-Down Restaurant - Fast-Food	Start Date (MM/DD	/ / ///:		Completion (MM/I	DD/YYYY):	
Retail – 3-Story Large	Estimated Equipme	nt Cost:	Es	timated Total Proje	ct Cost:	
Retail – Single-Story Large Retail – Small	Relat Description of	Editing Equipment				
Storage - Conditioned		93% ACME motor with 5	O HP, 94.5% ACM	E motor.")		
Storage – Unconditioned						
Warehouse						
☐ Other:						





Motor Form

Project Name:	U Toledo Maintenance
5ite Name:	University of Toledo
Completed by (name):	
Date(s) completed:	

Motor E	, Location,	and Operat	don Data			Existing	Motor	Nameplate	Data					Propos	ed Motor	Nameplat	e Data			
Motor Motor	Number of identical Units	Mixtor Location	Annual Hours of Op ^a	Londing (Constant, or if variable, indicate control type)	Load Factor (LF) ⁰	Enclosure Typex TEPC or ODF	Migr	Model Number	Mater HP	Nominal Efficiency	Speed (RPM)	Louding (Constant, or If veriable, indicate control type)	Land Pactor (LF) ²	Enclosure Typex TEPC or CEP	Migr	Model Number	Motor MP	Hominal Efficiency	Speed (RPM)	Total Meter Incentive ¹ \$
CWP 1&2	2	Mech Rm 1	3,800	Constant	0.75	ODP	Acme	12345	50	93.0%	1,800	Constant	0.75	on#	Acme	12345	5 77	94.5W	1,800	
HŲ SF	1		2790									constant	.8	TEFC	Baldor	:M4104	10	93.6	1800	\$70.0
HU EF	1		2790									constant	.8	TEFC	Baldor	:M3615	5	89.5	1800	\$54.0
HU SF:	1		2790									constant	.8	TEFC	Baldor	:TM377	7.5	91.7	1800	\$70.0
EF3	1		2790									constant	.8	TEFC	Baldor	:M3558	2	86.5	1800	\$54.0
									. = 31			U								
																		Total in	centive	\$248.0

Motor ID's may be specified by HVAC application type and number. Application types eligible for this incentive include

- Chilled Water Pump (CHWP), Heating Hot Water Pump (HHWP),
- HVAC Fans (HVACF),
- Cooling Towar Fan (CTF), and Condensing Water Pump (CWP).

If the HVAC application is not listed above, please describe the application on a separate sheet and include with your application package.

- Motor incentives are listed in Table 2 incentive Levels per Motor on page 5 of this form.
- For VAV fan motors, enter 2790 Annual Hours of Operation. For HVAC pump motors, enter 5520 Annual Hours of Operation. For all other motor usage, please estimate your Annual Hours of Operation and attach an explanation of how you determined this value.

 For all motor applications, use the Load Factor (LF) default value of 0.75, unless data is available to support the use of a motor-specific LF other than 0.75. Please attach an explanation, including your analysis (2)
- (3) and/or data used, to support motor-specific LF value.





Motor Form

Project Name:	U Toledo Maintenance	
Stor Name:	University of Toledo	
Completed by (name):		
Data(s) completed:		

Motor IC	, Location,	and Operat	ion Data			Existing	Mater I	Nemoplate	Date					Propos	ed Motor	Namapiat	e Deta			
Unique Motor LEADI	Humber of identical Units	Motor Lacation	Assemble House of Op ²	Landing (Constant, or F worksis, Indicate control type)	Land Fector (L ^e)	Englosure Types TETC or COP	ğ	period Reministr	Meter HP	Nominal Efficiency	Ħ	Louding (Constant, or if variable, indicate control type)	Land Rector (LP)	Endosure Types TESC or ODP		Marchal Marchar	Motor is:	Nominal Ellicionay		Total Motor Insundin ^a (
CWP 14Z	2	Mech Rm 1	160	Countent	8.75	CECP	Acree	22345	50	33.0%	1,900	Constant	9.73	COP	Acres	12545	50	M38	1,900	
HU SF	1		2790									constant	.8	TEFC	Dayton	2MXV1	7.5	91.7	1800	\$70.0
HU SF	1		2790									constant	.8	TEFC	ık Com	24N200	200	96.2	1800	\$400.0
HU EF	1		2790									constant	.8	TEFC	Dayton	2MXW4	25	93.6	1800	\$140.0
HU EF	1		2790									constant	.8	TEFC	Dayton	4GYZ8	10	91.7	1800	\$70.0
HU EF	1		2790									constant	.8	TEFC	Dayton	4ETR7	10	91.7	1800	\$70.0
		7								61										
																		Total in	centive	\$750.0

Mostor ID's may be specified by HVAC application type and number. Application types eligible for this incentive include

- Chilled Water Pump (C-NMP), Heating Hot Water Pump (HH-NMP), HVAC Fans (HVACF),

- nvac. Fats (nvac.).
- Cooling Tower Pan (CTF), and
- Condensing Water Pump (CWP).
If the HVAC application is not listed above, please describe the application on a separate sheet and include with your application package.

- (1) (2) Motor incentives are listed in Table 2 – Incentive Levels per Motor – on page 5 of this form.
 For VAV fan motors, enter 2790 Annual Hours of Operation. For HVAC pump motors, enter 5520 Annual Hours of Operation. For all other motor usage, please aritmate your Annual Hours of Operation and attach an explanation of how you determined this value.
- For all motor applications, use the Load Factor (IP) default value of 0.75, unless data is available to support the use of a motor-specific LF other than 0.75. Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value. (8)

Motors and Drives Incentives for Business Program



Variable Frequency Drive Form

Please use one row per VFD

				VFD at	nd Controlled M	otor Namepk	ite Data					Total Moto
Mater Application	Quantity Of VFDs	VFD Manufacturer	VFD Model Number	Unique Motor I.D.(s)	Motor Location	Enclosure Type: TEFC or ODP	Annual Hours of Operation ²	Load Factor (LF) ²	Motor Model Number	Motor HP	Motor Nominal Efficiency	Incentive 1
Fan	1	Toshiba	Q94035IERD	AHU 8F1	H8C Hospital	TEFC	2790	.75	EM3611T	3	69.5	\$90.
Fan	1	Toshiba	Q94055 ERD	AHU SF1	Larimer	TEFC	2790	.75	EM3615T	5	89.5	\$150 .
Fen	1	Toshiba	Q94080IERD	AHU EF 1	Scott Park	TEFC	2790	.75	EM3710T	7.5	91.7	\$225
Fan	1	Toshiba	Q94110IERD	AHU SF2	Student Union	TEFC	2790	.75	EM3714T	10	91.7	\$300
Fen	1	Toshiba	Q94110IERD	AHU SF3	Student Union	TEFC	2790	.75	EM3714T	10	91.7	\$300
Fan	1	Toshiba	Q94110IERD	AHU SF 1	Misc	TEFC	2790	.75	EM3714⊤	10	91.7	\$300
Fan	1	Toshiba	Q94160IERD	AHU EF	Ottawa East	TEFC	2790	.75	EM2333⊤	15	92.4	\$450
Fan	1	Toshiba	Q94160IERD	AHU SF	Ottawa West	TEFC	2790	.75	EM2333T	15	92.4	\$450
			*						То	tal VFD Incent	lve @\$30/hp	\$2265

⁽¹⁾ VFD incentives are calculated at a flat rate of \$30 per horsepower controlled, up to a maximum of 500 hp controlled per VFD.

When a single VFD is used to control two motors in a lead/lag (standby, redundant) configuration, the controlled horsepower is considered to be that of one motor. For instance, if a single VFD controls two 30hp motors with one operating at a time, the incentive calculation is \$900 (30hp x \$30/hp).

⁽²⁾ For VAV fan motors, enter 2790 Annual Hours of Operation. For HVAC pump motors, enter 5520 Annual Hours of Operation. For all other motor usage, please estimate your Annual Hours of Operation and attach an explanation of how you determined this value.

⁽³⁾ For all motor and VFD applications, use the Load Factor (LF) default value of 0.75, unless data is available to support the use of a motor-specific LF other than 0.75. Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value.

Motors and Drives incentives for Business Program



Variable Frequency Drive Form

Please use one row per VFD

				VFD a	nd Controlled M	otor Namepk	rte Data					Total Motor
Motor Application	Quantity Of VFDs	VFD Manufecturer	VFD Miccial Rumber	Unique Motor I.D.(1)	Motor Location	Enclosure Type: TERC or OOP	Annual Hours of Operation ²	Load Paster (LF) ⁹	Mictor Model Number	Mater HP	Motor Hominal Efficiency	Incentive ³
Fan	1	Toshiba	Q94160IERD	AHU SF2	Itranahan Souti	TEFC	2790	.76	EM2333T	16	92.4	\$450.00
Fan	1	Toshibe	Q94270IERD	AHU SF1	th end Human :	TEFC	2790	.75	EM4103T	25	93.6	\$750.00
Fen	1	Toehiba	Q942701ERD	AHU EF1	Scott Park	TEFC	2790	.76	EM4103T	25	93.6	\$750.00
Fan	1	Toshiba	Q842701ERD	AHU EF2	Misc	TEFC	2790	.75	EM4103T	25	93.6	\$750.00
Fan	1	Toehibe	Q942701ERD	AHU EF	Strenehen Souti	TEFC	2790	.75	EM4103T	2 5	93.6	\$750.00
Fan	1	Toshiba	Q94330/ERD	AHU SF	Hospital	TEFC	2790	.76	EM4104T	30	98.6	\$900.00
Fen	1	Toehiba	Q94400IE	AHU SF	HSC Hospitel	TEFC	2790	.75	EM4110T	40	94.1	\$1200.00
Fan	1	Toshiba	Q94500EE	AHU EF	Misc	TEFC	2790	.75	EM4115T	50	94.5	\$1500.00
									To	tal VFD Incom	tive @\$30/hp	\$7050.00

⁽¹⁾ VFD incentives are calculated at a flat rate of \$30 per horsepower controlled, up to a maximum of 500 hp controlled per VFD.

When a single VFD is used to control two motors in a lend/leg (standby, redundant) configuration, the controlled horsepower is considered to be that of one motor. For instance, if a single VFD controls two 30hp motors with one operating at a time, the incentive calculation is \$900 (30hp x \$30/hp).

⁽²⁾ For VAV fan motors, enter 2790 Annual Hours of Operation. For HVAC pump motors, enter 5520 Annual Hours of Operation. For all other motor usage, please estimate your Annual Hours of Operation and extent an explanation of how you determined this value.

⁽³⁾ For all motor and VFD applications, use the Load Factor (LF) default value of 0.75, unless data is available to support the use of a motor-specific LF other than 0.75. Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value.



	Open Drip	Proof (ODP)			Totally Enclosed	Fan-Cooled (TEFC)			
Size HP 1 1.5 2 3 5 7.5 10 15 20 25 30 40 50 60 75	1	# of Poles		-	# of Pales				
Size	6		2	Size	6	4	2		
HP		Speed (RPM)		HP		Speed (RPM)			
-	1200	1800	3600	-	1200	1800	3600		
1	82.50%	85.50%	77.00%	1	82,50%	85,50%	77.00%		
1.5	95.50%	86.50%	84.00%	1.5	87.50%	86.50%	84.00%		
2	87.50%	86.50%	85.50%	2	88.50%	86.50%	85.50%		
3	88.50%	89.50%	85.50%	3	89.50%	89.50%	86.50%		
5	89.50%	89.50%	86.50%	5	89.50%	89.50%	88.50%		
7.5	90.20%	91.00%	88.50%	7.5	91,00%	91,70%	89.50%		
10	91.70%	91,70%	89,50%	10	91,00%	91.70%	90,20%		
15	91.70%	93.00%	90.20%	15	91.70%	92.40%	91.00%		
20	92.40%	93.00%	91,00%	20	91.70%	93.00%	91.00%		
25	93.00%	93.60%	91.70%	25	93.00%	93.60%	91.70%		
30	93.50%	94.10%	91,70%	30	93.00%	93.60%	91.70%		
40	94.10%	94.10%	92.40%	40	94.10%	94.10%	92.40%		
50	94.10%	94.50%	93,00%	50	94.10%	94.50%	93.00%		
60	94.50%	95.00%	93.60%	60	94.50%	95.00%	93.60%		
75	94.50%	95.00%	93.60%	75	94.50%	95.40%	93.60%		
100	95.00%	95.40%	93.60%	100	95.00%	95.40%	94.10%		
125	95.00%	95.40%	94.10%	125	95.00%	95.40%	95.00%		
150	95.40%	95.80%	94.10%	150	95.80%	95.80%	95.00%		
200	95.40%	95,80%	95.00%	200	95.80%	96.20%	95.40%		

			Table 2 - Incentive	Levels Per Motor						
	Open Drip	Proof (ODP)			Totally Enclosed I	Fan-Cooled (TEFC)				
		# of Poles		No. of the last	# of Poles					
Size	6	4	2	Size	6	4	2			
HP		Speed (RPM)		HP		Speed (RPM)				
***	1200	1800	3600	-	1200	1800	3600			
1	\$20	\$20	\$20	1	\$20	\$20	\$20			
1.5	\$25	\$25	\$25	1.5	\$25	\$25	\$25			
2	\$54	\$54	\$54	2	\$54	\$54	\$54			
3	\$54	\$54	\$54	3	\$54	\$54	\$54			
5	\$54	\$54	\$54	5	\$54	\$54	\$54			
7.5	\$70	\$70	\$70	7.5	\$70	\$70	\$70			
10	\$70	\$70	\$70	10	\$70	\$70	\$70			
15	\$113	\$113	\$113	15	\$113	\$113	\$113			
20	\$113	\$113	\$113	20	\$113	\$113	\$113			
25	\$140	\$140	\$140	25	\$140	\$140	\$140			
30	\$170	\$170	\$170	30	\$170	\$170	\$170			
40	\$200	\$200	\$200	40	\$200	\$200	\$200			
50	\$230	\$230	\$230	50	\$230	\$230	\$230			
60	\$260	\$260	\$260	60	\$260	\$260	\$260			
75	\$290	\$290	\$290	75	\$290	\$290	\$290			
100	\$320	\$320	\$320	100	\$320	\$320	\$320			
125	\$350	\$350	\$350	125	\$350	\$350	\$350			
150	\$380	\$380	\$380	150	\$380	\$380	\$380			
200	\$400	\$400	\$400	200	\$400	\$400	\$400			

	BUSINESS PROGRAM TERMS & CONDITIONS
Definitions	FIRSTENERGY COMPANIES ("THE COMPANY" OR "COMPANIES") – Toledo Edison, The Illuminating Company, and Ohio Edison.
	PROGRAM or Programs – Companies' programs approved by the Public Utilities Commission of Ohio ("PUCO") for implementation under Ohio Senate Bill 221. This application relates to the Business programs supporting energy efficiency in the Companies' Commercial and Industrial customer facilities including, municipal, government and institutional facilities.
	PROGRAM MANAGER – The party contracted by the Companies for management of the Programs.
	ENERGY-EFFICIENCY MEASURES – Any equipment or action eligible to receive a Program Incentive payment under the Program.
	PARTICIPANT (or PARTICIPATING CUSTOMERS) – Those non-residential electric retail service eligible customers of the Companies who participate in this Program.
	PROGRAM INCENTIVES – Refers to the monetary incentive, rebate or service that the Program provides to participating customers pursuant to the Program.
	CREDITS – Refers to the energy, capacity or environmental attributes from Alternative Energy Portfolio Standards (including Energy Efficiency and Demand Response) associated with measure for which incentives were provided, or PJM Capacity Credits.
Eligibility	"Participant" or "Participants" are Program customers identified above served by Toledo Edison, The Illuminating Company, and Ohio Edison as defined above. Residential customers are not eligible for incentives through the Commercial and Industrial Programs. Incentives are awarded only to Participants, or their assigned agents, for qualifying equipment ("Energy Efficiency Measures") that is installed in the State of Ohio at the location identified in this Application, and such Participants are responsible for compliance with the Terms and Conditions set forth herein.
Compliance	The Participant is responsible to comply with all applicable laws, rules and regulations, and to comply with all federal, state, and local codes.
Publicity	With Participant's written permission, the Companies may publicly recognize participation in the Programs and disclose information relating to the Participant's participation in the program, including such data as: projected project energy savings, the incentive amount, and other similar information.
Application and Eligibility Process	The Programs provide for payment of incentives after the installation of qualified energy efficiency measures and review of final documentation for compliance with program requirements by the Program Manager. In order to be eligible for incentives, a Participant, or an agent (contractor/vendor) authorized by the Participant, must submit a properly completed pre-installation application package, including an application and technology worksheets, to the Program Manager before the equipment is purchased. If eligible, the Participant will receive an approval letter with the estimated incentive amount and the date by which the equipment must be purchased and installed for the approval to remain in effect.
	After installation is completed, the Participant must finalize and resubmit the completed equipment application reflecting the "as built" project, along with the invoice, the manufacturer's equipment performance sheet, and any other required documentation as may be specified on the application or in the program's initial approval letter. Applications must be filled out completely, truthfully and accurately, and include signatures of the Participant and its authorized agents (as appropriate). Final payment will be based on the "as-built" documentation provided with the final project application.
Dates of Program	Incentives are available for eligible Energy Efficiency Measures for which equipment is purchased and installed on or after April 11, 2011 . Dated Proof of Purchase and complete documentation will be required with final applications for the participant to be eligible for incentive payment. The program is subject to revision or termination at any time by the Companies.
Installation Schedule Requirements	Pre-approved projects will receive approval letters defining terms for payment and a commitment expiration date. If the Participant: (1) has not engaged in installation of the pre-approved project; and (2) has not applied to the Program Manager for a project extension within 90 days for all from the date the Program Manager pre-approves the project, the Program Manager may cancel Participant's application without liability.
Acceptable Proof of Purchase	Acceptable forms of Proof of Purchase include paid invoices or receipts. The documentation must show item numbers, quantities and descriptions that are of sufficient detail to verify that the installed equipment meets efficiency requirements. Additionally, the post-installation documentation must include manufacturers' specifications ("cut sheets") that list the efficiency ratings of the equipment. The Program Manager may, at its sole discretion, accept other forms of proof of purchase.
Evaluation, Measurement and Verification	The Program Manager may, but is not obligated to, conduct an inspection of the facility to verify pre- and post-installation conditions or verify documentation prior to incentive payment, at any time after receipt of applications and up to 5 years after payment of incentives. In addition, the Ohio Public Utility Commission and the Companies will engage Evaluation Measurement and Verification ("EM&V") contractors to evaluate program performance which may involve additional visits. The applicant must provide reasonable access to the facility, the equipment, and related documentation and data. The Companies or their agents may install simple/standard metering devices on equipment for program data collection, measurement and verification purposes. The Companies and their agents are not obligated to pay any incentive awards until it has performed a satisfactory post-installation verification, unless it has waived this requirement. If the Program Manager determines that the equipment was not installed in a manner consistent with the approved application, or if non-qualifying equipment was installed, it may require changes before making payment.
	If qualifying equipment cannot be located at the Participant's facility or is not installed in a manner consistent with the provisions of these Terms and Conditions, the Companies may seek recovery of the incentives paid.
Assignment	The Participant may assign Program Incentives to a specified third party.
Participating Customer's Certification	Participant certifies that he/she purchased and installed the equipment listed in its application at its defined Ohio location listed therein. Participant agrees that all information is true and that he/she has conformed to all of the program's eligibility requirements, terms and conditions.

Motors and Drives Incentives for Business Program



Incentive Amounts	Program incentives will equal either: a) the approved Program incentive amount reflecting incentives in effect at the time of approved, or b) the actual project cost of the Energy-Efficiency Measure, whichever is less, as determined by the Program Manager. Please allow ninety (90) business days for delivery of the Program Incentive. Applications requiring post-installation inspections and unanticipated high volume of activities may require additional time. If information is missing or incorrect on the application, processing and delivery of the Program Incentive may also require additional time.
Taxes	Incentives received by the Participant under this Application may be taxable by the federal, state, and local government. The Participant is responsible for declaring and paying all such taxes. Companies shall have no liability or obligation for any taxes.
Indemnification and Limits of Liability	The Participant shall protect, indemnify, and hold harmless the Companies' and their parents, subsidiaries, affiliates, agents, contractors, employees, officers and directors from and against all liabilities, losses, claims of death or injury or other damages, judgments, penalties, causes of action, costs and expenses (including, without limitation, attorney's fees and expenses) incurred by or assessed against the Companies and their parents, subsidiaries, affiliates, agents, contractors, employees, officers and directors arising out of or relating to the performance of this Application or arising out of or relating to the installation, use and maintenance of the equipment, designs, practices or methods involved in this Perticipant's project. In no event shall any Indemnified party be liable for any punitive, exemplary, special, indirect, incidental or consequential damages (including, but not limited to, lost profits, lost business opportunities, loss of use or equipment down time, and loss of or corruption to data) arising out of or relating to this Agreement or Program, regardless of the legal theory under which such damages are sought.
Warranties	The Companies and their parents, subsidiaries, affiliates, agents, contractors, employees, officers and directors make no express or implied warranties regarding the performance of installed equipment, the quality of any contractor's work, or that the equipment will result in any energy or cost savings. THE COMPANIES AND THEIR PARENTS, SUBSIDIARIES, AFFILIATES, AGENTS, CONTRACTORS, EMPLOYEES, OFFICERS AND DIRECTORS DO NOT ENDORSE, GUARANTEE, OR WARRANT ANY PARTICULAR MANUFACTURER OR PRODUCT, AND THEY PROVIDE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR ANY PRODUCT OR SERVICES. THE COMPANIES AND THEIR PARENTS, SUBSIDIARIES, AFFILIATES, AGENTS, CONTRACTORS, EMPLOYEES, OFFICERS AND DIRECTORS ARE NOT LIABLE OR RESPONSIBLE FOR ANY ACT OR OMISSION OF ANY CONTRACTOR (IF ANY). THE CUSTOMER'S WARRANTIES ARE LIMITED TO ANY WARRANTIES THAT MAY BE PROVIDED BY CONTRACTORS, VENDORS OR EQUIPMENT MANUFACTURER. NEITHER THE COMPANIES NOR THEIR PARENTS, SUBSIDIARIES, AFFILIATES, AGENTS, CONTRACTORS, EMPLOYEES, OFFICERS AND DIRECTORS ARE RESPONSIBLE FOR ASSURING THAT THE DESIGN, ENGINEERING AND CONSTRUCTION OF THE FACILITY OR INSTALLATION OF THE EQUIPMENT IS PROPER OR COMPANIES. ANY PARTICULAR LAWS, CODES, OR INDUSTRY STANDARDS. THE COMPANIES ANY KIND REGARDING THE RESULTS TO BE ACHIEVED BY THE ENERGY EFFICIENCY MEASURES OR THE ADEQUACY OR SAFETY OF SUCH MEASURES.
Recycling (Proper Disposal of Waste)	The Companies and their parents, subsidiaries, affiliates, agents, contractors, employees, officers and directors are not responsible for the proper disposal or recycling of any waste generated as a result of this project.
Endorsement (Product/Vendor Neutrality)	The Companies and their parents, subsidiaries, affiliates, agents, contractors, employees, officers and directors do not endorse any particular market provider, manufacturer, product, labor or system design by offering this Program.
Termination	Incentives are available for energy efficiency measures on a first-come, first-served basis subject to the availability of funds. Program availability, program terms and equipment eligibility may change without notice at the discretion of the Companies. Submission of any application does not give rise to any obligation to make any incentive payment by the Companies and their parents, subsidiaries, agents, contractors, employees, officers and directors.

Motors and Drives Incentives for Business Program



	or laster application processing, please be sure to include the following items with your application form:	
	Complete application (Customer and project information page, equipment page, and signed acknowledgement	page)
	Utility account number (Customer and project information page)	
	Manufacturer specifications/technical cut sheets for all proposed equipment. PLEASE BE SURE TO CIRCLE OR HI RELEVANT INFORMATION (i.e. – equipment efficiency ratings)	GHLIGHT THE
	W-9 with Tax Identification associated with the incentive recipient (please submit with final application to facility incentive payment)	ate faster
	[Optional] Copy of utility bill to confirm account number and service address. If desired, participant may obscure related information.	e all cost and rate
or T	ly participating in this program, customer agrees to allow their utility (The Cleveland Electric Illuminating Company, In The Tolerio Edison Company) to take ownership of the energy efficiency resource credits associated with the mean	
thro the	or The Toledo Edison Company) to take ownership of the energy efficiency resource credits associated with the mean through this program. Your utility may, at its sole discretion, then aggregate your credits with other similarly situated the credits into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used theread to the utility's customers for compilance with state mandated energy efficiency and/or peak demand require	sures generated I customers and bid to offset the costs
thre the cha l rea corr or it	r The Toledo Edison Company) to take ownership of the energy efficiency resource credits associated with the mea hrough this program. Your utility may, at its sole discretion, then aggregate your credits with other similarly situated he credits into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used	sures generated I customers and bid to offset the costs, ements. mation provided is Commission of Ohio,
thre the cha l rea corr or it inst	if The Toledo Edison Company) to take ownership of the energy efficiency resource credits associated with the mean incompany. The Toledo Edison Company) to take ownership of the energy efficiency resource credits with other similarly situated he credits into the PIM market through an auction. Any proceeds from any such bids accepted by PIM will be used harged to the utility's customers for compliance with state mandated energy efficiency and/or peak demand requinered, understand and am in compliance with all rules and regulations concerning this program. I certify that all inforce or to the best of my knowledge, and I give the Companies permission to share my records with the Public Utility or its contractors, who plan to evaluate my energy usage. Additionally, I will allow reasonable access to my property the companies of the public Utility or its contractors.	sures generated I customers and bid to offset the costs, ements. mation provided is Commission of Ohio,
thre the cha l rea corr or it inst	The Toledo Edison Company) to take ownership of the energy efficiency resource credits associated with the mean through this program. Your utility may, at its sole discretion, then aggregate your credits with other similarly situated he credits into the PIM market through an auction. Any proceeds from any such bids accepted by PIM will be used harged to the utility's customers for compliance with state mandated energy efficiency and/or peak demand require read, understand and am in compliance with all rules and regulations concerning this program. I certify that all informance to the best of my knowledge, and I give the Companies permission to share my records with the Public Utility in its contractors, who plan to evaluate my energy usage. Additionally, I will allow reasonable access to my property the stallation and performance of the Energy Efficiency Measures that are eligible for incentives under the programs.	sures generated I customers and bid to offset the costs, ements. mation provided is Commission of Ohio,

INSTRUCTIONS: After clicking Submit above, if a new email message appears with this completed form attached, attach your supporting documentation (cut sheets, W-9 form, signature page, etc) to the email and click send. You can then save a copy of the completed form to your hard drive if you wish.

If a new email message does not appear, you'll need to save this completed form to your desktop. Then, create a new email message addressed to energysaveOhio@saic.com, attach the file you just saved as well as your supporting documentation (cut sheets, W-9 form, signature page, etc) to the email and click send.

Individual attachments may not exceed 3MB in size. The sum of all attachments may not exceed 10MB.

PDF documents can generally be reduced sufficiently by selecting "Reduce File Size" under the "Document" menu in Adobe Acrobat

Applications submitted electronically, using the "submit" button above, may be reviewed sooner.

Attachment C



72262 - GE232MAX-L/ULTRA

GE LFL UltraMax™ Electronic High Efficiency Multivoit Instant Start Ballast

- Energy saving high efficiency instant start electronic bullest (> 90%)
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Active Current Regulation regulates the output to each lamp with individual lamp inverter modules.
- Anti-Striction Control for better light quality, with no strictions.
- Cold temperature -20F Minimum Starting Temperature

GENERAL CHARACTERISTICS

2 or 1- F32T8 120 to 277 "L".77 Application

Linear Fluorescent Category

Ballant Type Electronic - High Efficiency Multivolt Instant Start

Starting Method instant start Lamp Wiring Parallel

Line Voltage Regulation (+/-) Case Temperature (MAX) 10.0 % 70.0 °C Ballast Factor Low (.77) Power Factor Correction Active

Sound Rating A (20-24 decibels) Additional Info Anti-striation control / Autorestart / Thermally protected

PRODUCT INFORMATION

72262 **Product Gode** Description GE232MAX-L/ULTRA Standard Package Care 10043168722626

Standard Package GTIN Standard Package Quantity 10

Sales Unit Standard Pack

No Of Items Per Sales Unit No Of Items Per Standard 10

Package UPC 043168722629

DIMENSIONS

Case dimensions

Length (L) 9.5 in(241.30 mm) 1.3 In(33.02 mm) Width (W) Height (H) 1.2 In(30.48 mm)

Mounting dimensions

Bracket Length (BL) NaN in(NaN mm) Mount Length (M) 9.0 in(228.60 mm) 0.9 in(22.10 mm) Mount Width (X or F) Mount Slots (MS) 0.3 In(8.20 mm)

Weight 1.4 lb Exit Type Side Remote Mounting Distance 16.0 R Remote Mounting Wire Gauge 16.0 AWG

Lead lengths Oty Exit Length (± 1 in.) 25 (635 mm) 37 (940 mm) Black Left Red Left White 25 (635 mm) Left. Right 31 (787 mm)

ELECTRICAL CHARACTERISTICS

50.0 Hz / 60.0 Hz Supply Current Frequency

SAFETY & PERFORMANCE

- cull Listed FCC CLASS A Non-Consumer
- NRCE
- UL Clear P
 UL Listed
 UL Type 1 Dutdeer
 UL Type CG

- UL Type HL. RoHs Compliant NEMA Premiume

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watte	Nom. Line Current	System Bellast Factor	Bellast Efficacy Factor	Power Factor% (>=)	Creat Factor (<=)	THD% (<=)	Min. Starting Temp ("F/ "C)
FE15TB	1	120	14	0.12 A	0.78	5.57	99	1.5	12.0	0.0 °F / NaN
FE15TB	1	277	15	0.07 A	0.78	5.20	73	1.5	40.0	0.0 °F / NaN
FE15T8	2	120	21	0.18 A	0.78	3.71	89	1.5	9.0	0.0 °F / NaN
FE15TB	2	277	22	0.09 A	0.78	3.55	93	1.5	13.0	0.0 °F / NaN
F32T8/WM	1	120	27	0.23 A	0.78	2.69	99	1.5	8.0	60.0 °F / NaN
F32TB/WM	1	277	27	0.1 A	0.78	2.89	95	1.5	12.0	60.0 °F / NaN
F32T8/WM	2	120	47	0.39 A	0.78	1.66	99	1.5	5.0	60.0 °F / NaN

F32T8/WM	2	277	46	0.17 A	0.78	1.70	98	1.5	9.0	60.0 °F / NaN
F32T8/25W	1	120	22	0.0 A	0.77	3.50	99	1.5	10.0	60.0 °F
					[/ NaN
F32T8/25W	1	277	22	0.0 A	0.77	3.50	97	1.5	10.0	60.0 °F
										/ NaN
F32T8/25W	2	120	38	0.0 A	0.77	2.03	99	1.5	10.0	60.0 °F
FOOTO/OCM/		077	20	00.4	0.77	0.00		4.5	100	/ NaN
F32T8/25W	2	277	38	0.0 A	0.77	2.03	98	1.5	10.0	60.0 °F / NaN
F32T8	1	120	28	0.23 A	0.77	2.75	99	1.5	8.0	-22.0 °F
10210		120	20	J.20 /	5.77	1.70		1.0	0.0	/ NaN
F32T8	1	277	28	0.11 A	0.77	2.75	95	1.5	12.0	-22.0 °F
										/ NaN
F32T8	2	120	49	0.42 A	0.77	1.57	99	1.5	5.0	-22.0 °F
										/ NaN
F32T8	2	277	48	0.18 A	0.77	1.60	98	1.5	8.0	-22.0 °F
FOOTO	4	400	0.5	0.04.4	0.77	2.00	00	4.5	0.0	/ NaN
F28T8	1	120	25	0.21 A	0.77	3.08	99	1.5	8.0	60.0 °F / NaN
F28T8	1	277	25	0.1 A	0.77	3.08	94	1.5	13.0	60.0 °F
12010			20	P.1 A	0.77	0.00	37	1.0	10.0	/ NaN
F28T8	2	120	43	0.36 A	0.77	1.79	99	1.5	6.0	60.0 °F
										/ NaN
F28T8	2	277	43	0.16 A	0.77	1.79	98	1.5	9.0	60.0 °F
										/ NaN
F25T8	1	120	23	0.19 A	0.80	3.48	99	1.5	9.0	-22.0 °F
FOETO		077	- 00	0.00.4	0.00	0.40		4.5	40.0	/ NaN
F25T8	1	277	23	0.09 A	0.80	3.48	93	1.5	13.0	-22.0 °F / NaN
F25T8	2	120	39	0.33 A	0.80	2.05	99	1.5	6.0	-22.0 °F
12516	2	120	39	0.33 A	0.60	2.05	33	1.5	0.0	/ NaN
F25T8	2	277	39	0.14 A	0.80	2.05	97	1.5	10.0	-22.0 °F
				ľ						/ NaN
F25T12	1	120	24	0.2 A	0.80	3.33	99	1.5	9.0	0.0 °F / NaN
F25T12	1	277	24	0.09 A	0.80	3.33	94	1.5	13.0	0.0 °F / NaN
F25T12	2	120	41	0.35 A	0.80	1.95	99	1.5	6.0	0.0 °F / NaN
F25T12	2	277	41	0.15 A	0.80	1.95	98	1.5	9.0	0.0 °F / NaN
F17T8	1	120	17	0.14 A	0.79	4.65	99	1.5	11.0	-22.0 °F
								ļ		/ NaN
F17T8	1	277	17	0.08 A	0.79	4.65	80	1.5	36.0	-22.0 °F
F17T8	2	120	27	0.23 A	0.79	2.93	99	1.5	8.0	/ NaN -22.0 °F
F1/10	2	120	21	U.23 A	0.79	2.83	98	1.5	0.0	-22.0 F
F17T8	2	277	27	0.1 A	0.79	2.93	95	1.5	12.0	-22.0 °F
	_		~'	J	5., 5	1.00			12.5	/ NaN

CAUTIONS & WARNINGS

Warning

- · Risk of Electric Shock
- Properly ground ballast and fixture.
- Turn power off before servicing--see instructions.

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.



72866 - F28T8/XLSPX41ECO

GE Ecolux® UltraMax™ Starcoat® T8

a TCLP, which can lower disposal costs

High Color Rendering

Reduced Wattege

Photo Not Available

Circle E





GENERAL CHARACTERISTICS

Unear Fluorescent - Straight Lamp Type

Unear TB

Bulb Medium Bi-Pin (G13) Basa Rated Life 45000.0 hrs

24000 h @ 3 h 30000 h @ 12 h Rated Life (Instant start) @

45000.0 @ 3.0/50000.0 @ Rated Life (rapid start) @ Time 12.0 h

Soda lime **Bulb Meterial** Starting Temperature (MIN) 15.0 K

LEED-EB MR Credit 26 picograms Hg per mean

lumen hour Additional info TCLP compliant Primary Application **Energy Saving**

PHOTOMETRIC CHARACTERISTICS

Initial Lumens 2875.0 Mean Lumens 2515.0 Nominal Initial Lumens per Watt 95 4100.0 K Color Temperature Color Rendering Index (CRI) 82.0 S/P Ratio (Scotopic/Photopic 1.8 Ratio)

ELECTRICAL CHARACTERISTICS

Wattage 28.0 Voltage 115.0

Open Circuit Voltage (Instant 550 V @ 15 nV

start) Min @ Temperature

Cathode Resistance Ratio - Rh/ 4.25 Rc (MIN)

Cathode Resistance Ratio - Rh/

Rc (MAX)

Lamp Current 0.275 A Current Creat Factor (MAXI) 1.7

DIMENSIONS

Maximum Overall Length 48.0000 in(1219.2 mm)

(MOL)

47.7800 in(1213.6 mm) Minimum Overall Length Nominal Length 46.000 in(1219.2 mm) Bulb Diameter (DIA) (MIN) Bulb Diameter (DIA) (MAX) 0.940 in(23.9 mm) 1.100 in(27.9 mm) 1.000 ln(25.4 mm)

Bulb Diameter (DIA) Max Base Face to Base Face

47.220 In(1199.4 mm)

Face to End of Opposing Pin 47.400 in(1204.0 mm)

(B) (MIN)

Face to End of Opposing Pin 47.500 in(1206.5 mm)

(B) (MAX) End of Base Pin to End of Opposite Pin End (C)

47.670 In(1210.6 mm)

PRODUCT INFORMATION

Product Code 72866

Description F28T8/XLSPX41ECQ

36

043168728669

Standard Package

Standard Package GTIN 10043168728666

Standard Package Quantity Sales Unit

Unit No Of Items Per Sales Unit

No Of Items Per Standard

Package UPC

36



CAUTIONS & WARNINGS

Caution

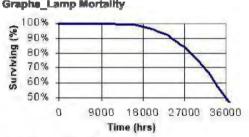
- Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp.
- Do not use exceedes force when installing lamp.

Warning

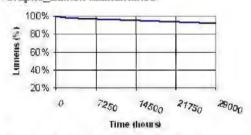
- · Risk of Electric Shock
- Turn power off before impaction, installation or removal.

GRAPHS & CHARTS

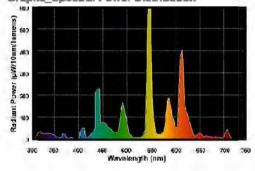
Graphe_Lamp Mortality



Graphs_Lumen Maintenance



Graphs_Spectral Power Distribution





FEATURES & SPECIFICATIONS

INTENDED DES

Provides maintenance-free general Blomination for outdoor use in commercial applications such as retail, education, multi-unit housing and storage, bleat for lighting building facades, parking areas, walloways, garages, loading areas and any other outdoor space requiring reliable safety and security.

CONSTRUCTION

Sturdy weather resistant aluminum housing with a bronze finish, standard unless otherwise noted. A dear polycarbonate lens protects the optics from moisture, dirt and other contaminants.

Forture is maintenance free.

8 high performance \$470K LEbs are powered by a multi-volt (120V-277V) LED driver that uses 26.45 input watts and provides 1,436 delivered lumens. 50,000 hour average LED life means no lamp replacement.

See Lighting Facts label on page 2 for performance details.

ELECTRICAL

Rated for outsion installations, -40°C minimum ambient.

Adjustable Dusk-to-dawn, multi-volt photocall standard automatically turns light on at dusk and off at dawn for convenience and energy savings,

Photocell can be disabled by rotating the photocell cover.

GITY surge protection standard.

INSTALLATION

Surface or recessed mount, A universal junction box is included standard.

All mounting hardware included.

LISTINGS

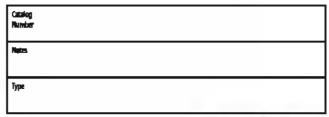
UL Certified to US safety standards. Optional (120V) C-UL Certified to Canadian safety standards. Wet location listed.

Tested in accordance with IESNA LM-79 and LM-80 standards.

WARRANTY

5-year limited warranty. Complete warranty terms located at www.AcultyBrands.com/CustomerResources/Terms_and_Conditions.aspx.

NOTE: Specifications are subject to change without notice.



Outdoor General Purpose





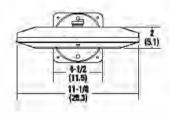


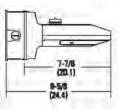




Dimensions

All dimensions are inches (centimeters)





ORDERUNG INFOLMATION For shartest lead times, configure products using builded appliant.

Example: OLW14

DIWI4				
Series	Color Temperature (CCT)	Yoltage	Feetures	Finish
OLW14 1400 lumen LED wall pack	(mlanis) 5700K1	(binnk2 MVOLT (120V-227V) 120 120 Volt (available in white only)	(blant) MYOLT photocell included CULPE Canadian-approved 120V photocell	(Meek) Bronze WH White

Accessories: Order as separate catalog number.

PCOS M24 full cutoff shield FCDS WH M24 Full cutoff shield, white

1 Completed Color Temperature (CCT) shown is reminal per ANSI C7 8,377-2008.

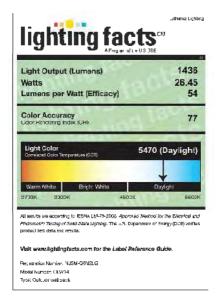
DECURATIVE INDOOR & OUTDOOM

013914

LED Wall Pack

PHOTOMETRICS

Full photometric data report available within 2 weeks from request, Consult factory. Tested in accordance with IESNA LM-79 and LM-80 standards.







FEATURES & SPECIFICATIONS

INTENDED USE

Provides maintenance-free general filumination for outdoor use in residential and commercial applications, such as retail, education, multi-unit housing and storage, ideal for lighting building facades, parking areas, walloways, garages, loading areas and any other outdoor space requiring reliable safety and security.

CONSTRUCTION

Sturdy weather-resistant aluminum housing with a bronze finish.

High performance LEDs are powered by an MYOLT driver that provides 2,300/3,100 delivered lumens at 5000 K. 50,000 hour average LED life means no lamp replacement. Parture is maintenance-free.

Operating temperature -30°C to 40°C.

Adjustable Dusk-to-Dawn, photocell standard automatically turns light on at dusk and off at dawn for convenience and energy savings.

Photocell can be disabled by rotating the photocell cover.

OPTICS

Precision-molded acrylic lenses provide optimal luminaire spacing with Type 3 distribution.

Nighttime Friendly* full cutoff above 90° angle, standard.

INSTALLATION

Wall or arm mount (mounting arm sold separately).

All mounting hardware induded.

LISTINGS

UL Certified to US safety standards. C-UL Certified to Canacian safety standards. Wet location listed. Tested in accordance with IESNA LM-79 and LM-80 standards. DLC qualified product.

WADDANTY

Five-year limited warranty.

Rull warranty terms located at www.Acultyfirands.com/CustomerResources/Terms and Conditions.aspx.

NOTE: Specifications are subject to change without notice.

Catalog Number	
Nates	
Туре	

Outdoor General Purpose

OLW







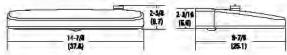




Specifications

All dimensions are inches (centimeters)





ONDERING INFORMATION

For shortest lead times, configure products using beliefed epitions.

Example: OLW 23

DIW	23			
Series	Lumens/Color Temperature (CCT)	Yoltage	Features	Finish
OLW LED Wall Light	23 2300 delivered lumens / 5000K1	(blank) MV0LT (120V-277V)	(hlank) Photocell Included	(blank) DOB Dark Bronze
	31 3100 delivered lumens / 5000K ¹			

Accessaries: Order as separate catalog number.

OMA M6 14" Aluminum Mounting Arm

Meson

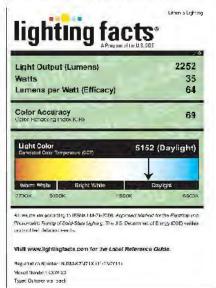
1 Control atted Color Temperature (CCT) shawn is morninal per AVS C78,377-2008.

DECORATIVE INDUOR & DUTOBOR

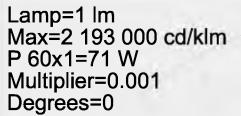
DUN

PHOTOMETRICS

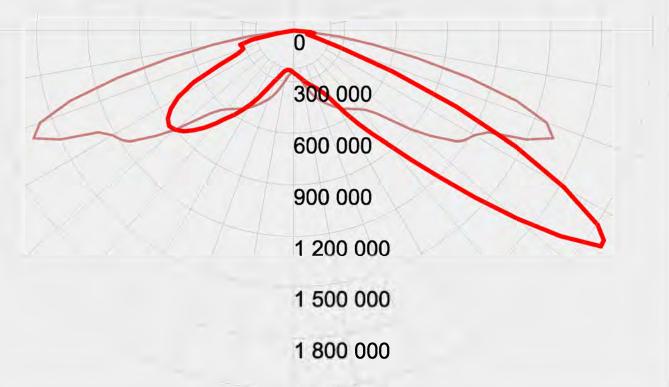
Full photometric data report available within 2 weeks from request, Consult factory, Tested in accordance with IESNA LM-79 and LM-80 standards.







Type C

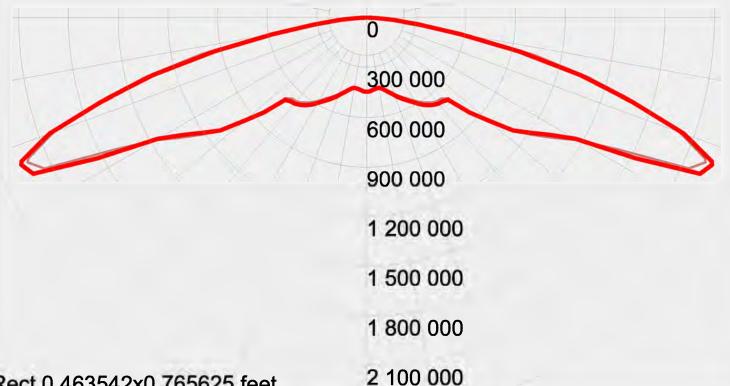


Rect 0.765625x0.296875 feet

2 100 000

Manufacturer: BetaLED, A Division of Ruud Lighting.
Luminaire catalog: SEC-EDG-3M-**-06-C-UL-43K (350mA) CONFIGURED
Luminaire: CONFIGURED FROM 40 LED TYPE III MEDIUM EDGE SECURI Lamp: CONFIGURED FROM FORTY WHITE LIGHT EMITTING DIODES (LE





2 100 000 Rect 0.463542x0.765625 feet

Degrees=0

Manufacturer: BETALED, A DIVISION OF RUUD LIGHTING Luminaire catalog: ARE-EDR-5M-**-06-C-UL-525-43K (525mA) CONFIGUI Luminaire: CONFIGURED FROM 60 LED TYPE V MEDIUM EDGE PARKING Lamp: CONFIGURED FROM SIXTY WHITE LIGHT EMITTING DIODES (LE

Attachment E

2MXV1

Hem	General Purpose Motor	
Motor Type	3-Phase	
Enclosure	Totally Enclosed Fan-Conted	
HP	7-1/2	
Namoplate RPM	1770	
NEMA/IEC Frame	2-37	
Framo	2137	
Voltage	206-730/460	
Hz	60	
Phase	3	
Full Lond Amps	19.5-17.7/8 9	
Number of Speeds	1	
Mounting	Bass	
Mounting Position	Horizontal Only	
Thermal Protection	None	
hisulation Class	F	
Service Factor	1.15	
Bearings.	But!	
Frame Material	Dast Inpa	
Max. Ambient Temp.	40 Dogreos C	
Solution .	CW/CEW	
Shaft Dia.	1-3/8"	
Shaft Longth	3-3/8"	
Length Less Shaft	14-5/8"	
Cycrall Length	16"	
RPM Range	1403-1800	
Standards	UL Recognized, CSA Certified, CE	
Duty	Continuous	
Efficiency Group	Prom E#, MG1 Table 12-12	
Nominal Efficiency	91.7%	
Invertor Rated	Yes	
Warronty (Years)	3 yr.	
Footnotes	2.16.16	
Green-Certification or Other Recognition	NEMA Promium Rated	
Green Environmental Attribute	Product Contributes To Reducing Energy Consumption	

2MXW4

General Purpose Motor	3-Phase	Totally Enclosed Fan-Coored	25	9226	2847	Z8:\$Z	208-236/450	99	n	64.3.58.2/29.4	F	Buse	Horizontal Only	None	u.	1,15	\$1¢\$	Gast Iron	40 Dagrees G	MOOMO	1-7/8"	4-5/B"	22-116"	26-13/16"	1400-7400	Of Rocognized, OSA Cartilled, CE	Confineds	Prem Eff. MGT Table 12-12	50.6%	ACY.	3 yr.	2,15.16	MEMA Promium Rated	Product Contributes To Reflacing Energy Consumption
nen	Motor Type	Epclosuro	ů.	Namoplata RPM	SERIE DEPARTS	Forns	Voltage	H	Phase	Full Land Amps	Number of Spends	Maudting	Moundag Position	Thems! Protection	Insujation Class	Service Factor	Bearings	Franto Matorial	Mak, Andalent Temp.	Rotation	Shaft Dia.	Shaft Langth	Length Less Shaft	Overall Longth	RPM Range	Standards	Sano	Efficiency Group	Nominal Efficiency	Invortor Rated	Warranty (Years)	Footpotes	Green Gertification or Other Recognition	Green Environmental Attribute

46YZ8

General Purpose Motor	3-Phase	Totally Enclosed Fan-Gooled	10	1755	215T	T815	208-230/460	09	*	26,6-24,0/12.0	-	Base	Horizontal	None	la.	1.15	Ual)	Strel	40 Degrees C	WIGOW	"B(C-)	- X-19-0	17-1/8"	20-1/2"	1400-1800	Ut Recognized, CSA Certified, CE	Continuous	Prom Eff, MG-Table 12-12	21.7%	Yes	3 77.	3,16	
Tour	Motor Type	Enclosure	H	Nameplate RPM	NEWA/ISC Frame	France	Voltago	HZ	Phase	Fuli Load Amps	Number of Speeds	Metinting	Mounting Position	Thermal Protection	Insulation Class	Service Factor	Bearings	Frame Material	Mak, Ambient Temp.	Rotation	Shaft Dia.	Shaft Length	Longth Loss Shaft	Overall Length	RPW Range	Standards	Darky	Efficiency Group	Namitual Efficiency	Inverter Rated	Warranty (Yours)	Footnobes	The same of the sa

Product Contributes To Reducing Energy Consumption NEMA Promium Rated

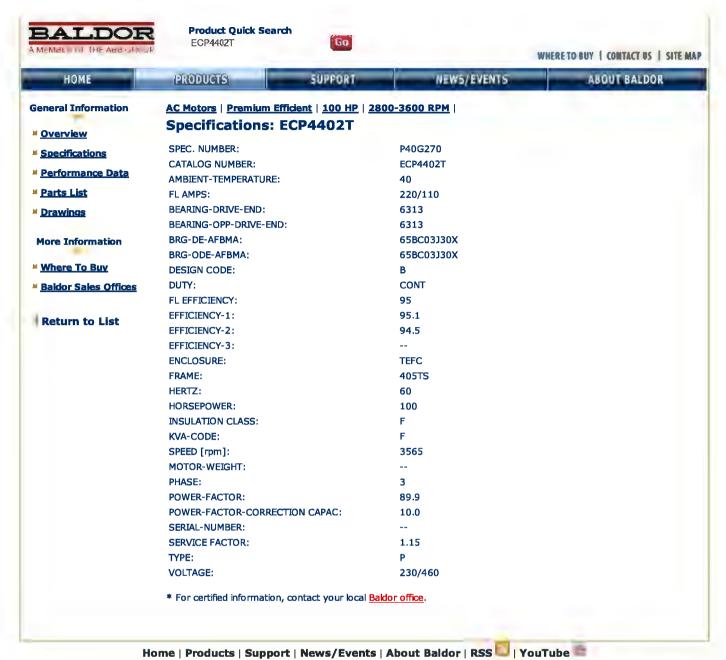
Green Cortification or Other Recognition Green Environmental Attribute

1TRX8

ilem Washtlown Motor Motor Type 3 Phase Enclosure Totally Enclosed Fan Cooled HP 2 Namoplate RPM 1740 NEMA/JEC Prame 145T Frame 145T **NEMA Design** В Rotation **CW/CCW** Voltage 208-220/460 Full Load Amps 6.0-5.6/2.6 Phase 3 H2 ÉĢ Mounting B360 Bearings Ball Frame Managial Epoxy Coated Stoel Thermal Protection Natio Service Factor 1.15 Max. Ambient Temp. 40 Degrees C Shall Dia, 7/8" Shaft Longit: 3" Longth Less Shaft 11-3/8" Overall Langth 13-3/0" Insulation Class F RPM Range 1400-1600 Duty Continuous Shaft Materiel 203 Stainless Sheet Conduit Box Cast Oversized Gasketed, Top Mounted Drain Pluga (10) Total - (4) Each End and (2) in Conduit Box Nominal Efficiency 04.0% Application Washdown Foother Picker Motor UL Recognized (E47479), CSA Confiden (LR63596), USDA Approved, EPAct Efficient Standards

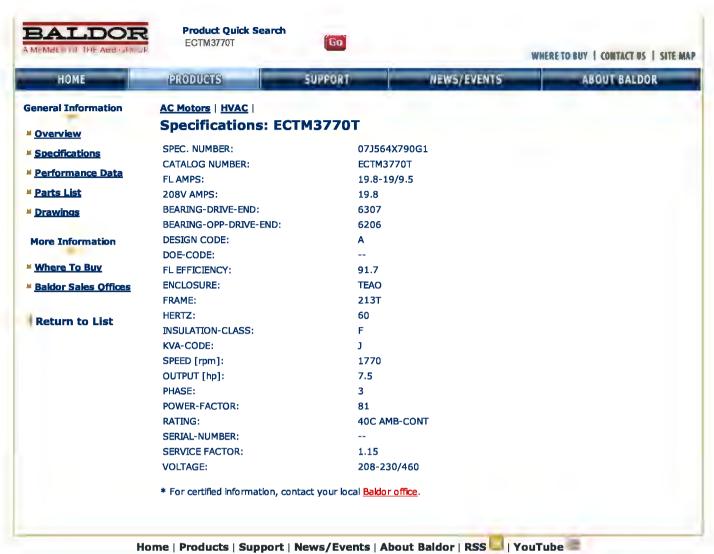
4ETR7

General Purpose Motor	S-STATE	Totally Enclosed Fan-Cooled	10	1765	215T	215T	460	60/50	65	7.2.6		Faot	Horizonts/Wertical	None	u.	1.25	Sall	Reinforced Gast Iron	40 Degrees C	CWICCW	1-3/8"	3.8.6.	16-1/8"	19-172	1400-1800	UL Rocognizmi(£104590), CSA Certified (LR50.962-9/13/14), CE	Continuous	Prom Efficient, MG1 Table 12-12	27.7%	Vess	2 yr.	NEMA Prendum Rated	Product Contributes To Reducing Energy Consumption
Item	Motor Type	Enclosuro	e T	Nomeplate P.P.M.	NEMAZIEC France	onverd	Voltage	ZH	Phase	Full Load Amps	Number of Speeds	Mounting	Mounting Position	Thormal Protection	Insulation Class	Service Factor	Scarings	Frame Material	Max. Amb ent Temp.	Retation	Shaft Dia.	Shaft Longith	Longth Loss Shaft	Overall Length	RPM Range	Standards	Ama	Efficiency Group	Nominal Efficiency	Invertor Rated	Warranty (Years)	Groen Certification or Other Recognition	Green Environmental Attribute



Copyright © 2001-2013 Baldor Electric Company. All rights reserved.

1 of 1 3/6/2013 9:00 AM



Copyright © 2001-2013 Baldor Electric Company. All rights reserved.

1 of 1 3/6/2013 8:35 AM



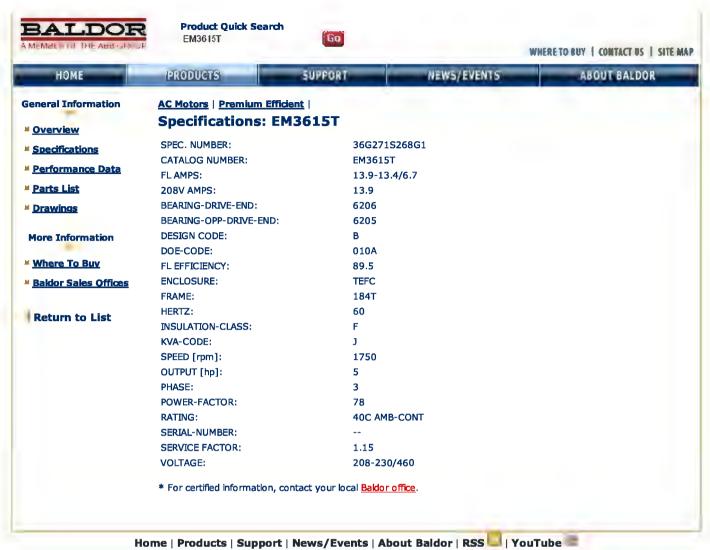
Copyright © 2001-2013 Baldor Electric Company. All rights reserved.

1 of 1 3/6/2013 8:46 AM



Copyright © 2001-2013 Baldor Electric Company. All rights reserved.

1 of 1 3/6/2013 8:35 AM



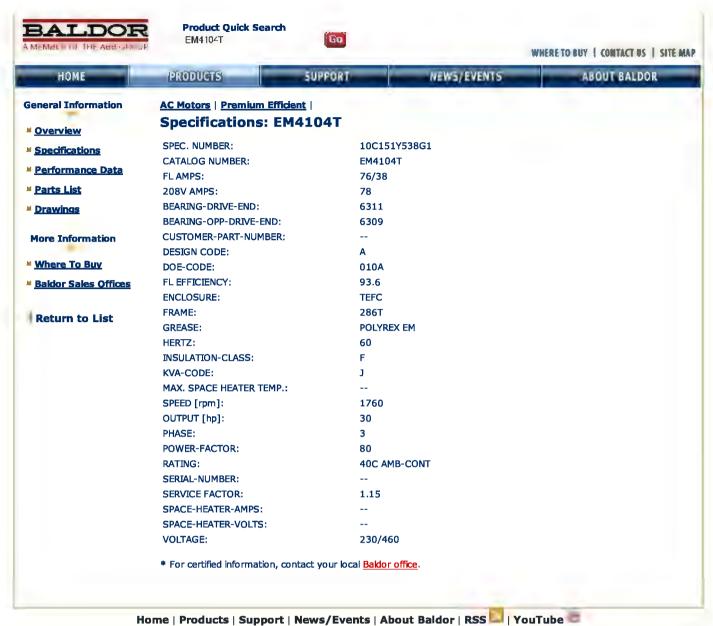
Copyright © 2001-2013 Baldor Electric Company. All rights reserved.

1 of 1 3/6/2013 8:35 AM



Copyright © 2001-2013 Baldor Electric Company. All rights reserved.

1 of 1 3/6/2013 8:57 AM



Copyright © 2001-2013 Baldor Electric Company. All rights reserved.

1 of 1 3/6/2013 8:34 AM



1 of 3 3/6/2013 12:24 PM

Customers Also Viewed



AGYZO 46728 46728

Brend: Grainger Nam R. Pribos:

Mar, 4 Ph. 7.8mp, 1783, 200-200-400, ET 01.7

Other Popular Terms for this Product	oduct		
· Beatto Motors (6161)	· Fun Motore (2978)	· Industrial Motors (2946)	· Pump Motors (2028)
· Bower Motors (2422)	· Totally Enclosed Farr Cooled	· Three-Phase Pump Motion (1775) · TEFC Trise Phase Motions (1982)	· TEFC Three Press Motors (1582)
· Centrifugal Pump Noturn (1660)	Motors (2076)	· Inverter-Duly Notion (1400)	· Brangy Efficient Motors (1210)
· Three-Place General Purpose	· Conseyor Motors (1602)	· NEMA Motors (971)	
Makers (1152)	· Premium Efficiency Motore (1111)		

toduct Reviews Disclaimer:		
	Product Reviews Dischimer:	

WEG WEG EDTS

Brend: Grainger Hensel: Préce:

Reform To Top

Vew Printable Page

Vew Catalog Page

PAYTON SCOOL

Greinger Menn ff. Greinger Menn ff.

Customer Service	Order Buppert	Company Information	Online Resources	Services
Catalog Request	Bulk Order Peed	About Us	Clearance Canter	Auto-Recorde
Configurati Use	Order Hetary	Carmen	Explosive Brands	Etraspatosy Sarviore
Foortrack	Order Status	Community Relations	Had Buya	Grainger Lighting Services
Find a Branch	Return	Dherety	Retories	Granger Ordino Safety Manager
Contraction of the last	Stile Factures	Investor Relations	Today's Feetures	Grainger ThipleGuard®
CLIGHTONEY CALL US	MICH	Press Room	Wedinars	Inventory Management
- Action Control of the Control of t		Buppiler Oversion		Caline Purchasha Solutors
		Sustainately		Papertens Involving
		Technical Education		Products Bayond the Catalogic
		Worldwide		

Emeil Bign Up Get hatery nove, new product information, helpful tipe and more.

Connect With Us

Mar, 4 Ph. 7. Brp. 1740, 200-200480, ET 61.0

> mber, 2011) | About cur Ade | Sitemap Hans | Terms of Access | Terms of Sele | Return Policy | Princey Policy (New December | Terms of Access | Terms of 1884 - 2013 W.W. Grabger, Inc. An rights reserved.

3/6/2013 12:24 PM

3 of 3

Attachment G

10 HP Motor Replacement		
Quantity	1	
Motor HP Baseline	10.0	
Motor HP Actual	10.0	
Motor Efficiency Baseline	85.0	
Motor Efficiency Actual	93.6	
Load Factor	0.75	
Total Run Hours	2790.0	
		Before After
Annual Energy Savings	1687.4	18364.8 16677.4
5 HP Motor Replacement		
Motor HP Baseline	5.0	
Motor HP Actual	5.0	
Motor Efficiency Baseline	85.0	
Motor Efficiency Actual	89.5	
Load Factor	0.75	
Total Run Hours		
Total Run Hours	2790.0	Before After
Annual Energy Sovings	461.7	9182.4 8720.7
Annual Energy Savings	461.7	9182.4 8720.7
7.5 HP Motor Replacement		
Motor HP Baseline	7.5	
Motor HP Actual	7.5	
Motor Efficiency Baseline	90.0	
Motor Efficiency Actual	91.7	
Load Factor	0.75	
Total Run Hours	2790.0	
		Before After
Annual Energy Savings	241.2	13008.4 12767.2
2 HP Motor Replacement		
Motor HP Baseline	2.0	
Motor HP Actual	2.0	
	80.0	
Motor Efficiency Baseline		
Motor Efficiency Actual	86.5	
Load Factor	0.75	
Total Run Hours	2790.0	D. C
		Before After
Annual Energy Savings	293.3	3902.5 3609.3
7.5 HP Motor Replacement		
Motor HP Baseline	7.5	
Motor HP Actual	7.5	
Motor Efficiency Baseline	89.5	
Motor Efficiency Actual	91.7	
Load Factor	0.75	
Total Run Hours	2790.0	
. o.a. ran riodio	2.00.0	Before After
Annual Energy Savings	313.8	13081.0 12767.2
5, 5		

200 HP Motor Replacement Motor HP Baseline Motor HP Actual Motor Efficiency Baseline Motor Efficiency Actual Load Factor Total Run Hours	200.0 200.0 94.0 96.2 0.75 2790.0	
		Before After
Annual Energy Savings	7595.5	332128.7 324533.3
25 HP Motor Replacement		
Motor HP Baseline	25.0	
Motor HP Actual	25.0	
Motor Efficiency Baseline	91.0	
Motor Efficiency Actual	93.6	
Load Factor	0.75	
Total Run Hours	2790.0	
		Before After
Annual Energy Savings	1191.2	42884.8 41693.5
10 HP Motor Replacement		
Quantity	2	
Motor HP Baseline	10.0	
Motor HP Actual	10.0	
Motor Efficiency Baseline	85.0	
Motor Efficiency Actual	91.7	
Load Factor	0.75	
Total Run Hours	2790.0	
		Before After
Annual Energy Savings	1341.8	18364.8 17023.0

Motor savings total

13125.8

Before

450917.3

After

437791.5

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 "Statuto") 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 robate, 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.
- 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 (m) 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
- 111. 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.
 - Customer acknowledges. 1) that the Company will cap the Cash Rebate at the lesser of 50% of Customer Energy Project(s) costs or \$250,000, 11) 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 officied 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
 - Customer acknowledges that breaches of this Agreement, include, but are not limited to
 - 1 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;
 - 11. 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 Obio 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 herem

- A Party receiving such Confidential Information shall protect it with the same standard of care as its own confidential or proprietary information
- e 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.
- Taxes. Customer shall be responsible for all tax consequences (if any) arising from the payment
 of the Cash Rebate.
- 7 Notices. Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or facsimile transmission addressed as follows:

If to the Company

FirstEnergy Service Company 76 South Main Street Akron, OH 44308 Attn. Victoria Nofziger Telephone, 330-384-4684

Fax: 330-761-4281

Email: vmnofziger@firstenergycorp.com

If to the Customer:

The University of Toledo 2801 W Bancroft St Toledo OH 43606 Attn.Michael Green Telephone.419.530.1036 Fax. Email.

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 conformed, 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: Joh C Large
7)
Title: V.P. Of Energy Efficiency
Date;
University of Toledo
(Cjustomer)
By: Noker
Title: Director Energy
Date: 4/26/13

Affidavit of University of Toledo - Exhibit _A _

STATE OF OHIO)	SS:
COUNTY OF Lucas)	· ·	

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

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

FURTHER AFFIANT SAYETH NAUGHT

Sworn to before me and subscribed in my presence this freday of 11, 20

Notary

DIANA SUE HA DER Notary Public State of Otho Wood County

My Commission Expires Eec. 16, 2013

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

10/8/2013 12:50:06 PM

in

Case No(s). 13-0701-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