

Legal Department

American Electric Power 1 Riverside Plaza Columbus, OH 43215-2373 AEP.com

March 12, 2012

Chairman Todd Snitchler Ohio Power Siting Board Public Utilities Commission of Ohio 180 East Broad Street Columbus, OH 43215-3793

Yazen Alami, Esq. (614) 716-2920 (P) (614) 716-3440 (F) yalami@aep.com

RE:		
In the Matter of Mount Vernon City Schools)	
and Ohio Power Company)	
for Approval of A Special)	Case No. 12-0858-EL-EEC
Arrangement Agreement)	
with a Mercantile Customer)	

Dear Chairman Snitchler,

Attached please find the Joint Application of Ohio Power Company (OPCo) and mercantile customer Mount Vernon City Schools for approval of a Special Arrangement of the commitment of energy efficiency/peak demand reduction (EE/PDR) resources toward compliance with the statutory benchmarks for 2012.

Amended Substitute Senate Bill 221 sets forth in R.C. 4928.66 EE/PDR benchmarks that electric distribution utilities shall be required to meet or exceed. The statute allows utilities to include EE/PDR resources committed by mercantile customers for integration into the utilities programs to be counted toward compliance with a utility's EE/PDR benchmarks. The statue also enables the Commission to approve special arrangements for mercantile customers that commit EE/PRD resources to be counted toward compliance with EE/PDR benchmarks.

The Commission's Order in Case No. 10-834-EL-EEC, established a streamlined process to expedite review of these special arrangements by developing a sample application process for parties to follow for consideration of such programs implemented during the prior three calendar years. Attached is OPCo's version of that application and accompanying affidavit. Any confidential information referenced in the Joint Application has been filed in Commission Docket 10-1599-EL-EEC, under a request for protective treatment. OPCo respectfully requests that the Commission treat the two cases as associated dockets.

Cordially,	
/s/ Yazen Alami	
Yazen Alami, Esq.	
Attachments	



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

Case No.: 12-0858-**EL-EEC**

Mercantile Customer: MOUNT VERNON CITY SCHOOLS

Electric Utility: Ohio Power

Program Title or Description: AEP Ohio Business Incentives for Energy Efficiency: Self Direct Program

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

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

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

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

Section 1: Company Information

Name: MOUNT VERNON CITY SCHOOLS

Principal address: 302 Martinsburg Rd, Mt Vernon, Oh 43050

Address of facility for which this energy efficiency program applies: 305 E Pleasant St,

Mount Vernon, Oh 43050-1822

Name and telephone number for responses to questions:

Stephen Short, Mount Vernon City Schools, (740) 397-7422

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

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

See <u>Confidential and Proprietary Attachment 4 – Calculation of Rider</u> <u>Exemption and UCT</u> which provides the facility consumption for the last three years, benchmark kWh, and the last 12 months usage.

The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.) When checked, see Attachment 6 – Supporting Documentation for a listing of the customer's name and service addresses of other accounts in the AEP Ohio service territory.

Section 2: Application Information

A)	The customer is filing this application (choose which applies):	
		Individually, on our own.
		Jointly with our electric utility.
B)	Our	electric utility is: Ohio Power Company
	"Co	application to participate in the electric utility energy efficiency program is nfidential and Proprietary Attachment 3 – Self Direct Program Project npleted Application."
C)	The	customer is offering to commit (choose which applies):
		Energy savings from our 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 demand reduction from the customer's energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

A)	The	customer's energy efficiency program involves (choose whichever applies):
		Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, 7/11/2008 and the date on which the customer would have replaced your equipment if you had not replaced it 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)).
		The remaining life of the equipment varies and is not known with certainty. The future replacement date is unknown and has historically been at the end of equipment life. Replacement was completed early to achieve energy savings and to reduce future maintenance costs.
		Installation of new equipment to replace equipment that needed to be replaced. The customer installed new equipment on the following date(s):
		Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):
		Behavioral or operational improvement.
B)	Ene	rgy savings achieved/to be achieved by your energy efficiency program:
	1)	If you checked the box indicating that your 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:
	Uı	nit Quantity (watts) = Existing (watts x units) - Installed (watts x units)
	kV	Wh Reduction (Annual Savings) = Unit Quantity x (Deemed kWh/Unit)
		Annual savings: 20,656 kWh
		See <u>Confidential and Proprietary Attachment 5 – Self Direct Program</u> <u>Project Calculation</u> for annual energy savings calculations and <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

2) If you checked the box indicating that you 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 the less efficient new equipment that you rejected in favor of the more efficient new equipment.

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

Annual savings: kWh

Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.

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

Section 4: Demand Reduction/Demand Response Programs

A)) The customer's program involves (check the one that applies):		
		Coincident peak-demand savings from the customer's energy efficiency program.	
		Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)	
		Potential peak-demand reduction check the one that applies):	
		Choose one or more of the following that applies:	
	☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.		
		☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.	
B)	On	what date did the customer initiate its demand reduction program?	
	The coincident peak-demand savings are permanent installations that reduce demand through energy efficiency and were installed on the date specified in Section 3 A above.		
C)	C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):		
	Uı	nit Quantity (watts) = Existing (watts x units) - Installed (watts x units)	
	KV	W Demand Reduction = Unit Quantity (watts) x (Deemed KW/Unit (watts))	
		6.7 kW	

See <u>Confidential and Proprietary Attachment 5 – Self Direct Program Project</u> <u>Calculation</u> for peak demand reduction calculation, and <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

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 custor	mer is applying for:
	○ Option	on 1: A cash rebate reasonable arrangement.
	OR	
		on 2: An exemption from the cost recovery mechanism implemented e electric utility.
	OR	
	Com	mitment payment
В)	The value	of the option that the customer is are seeking is:
	Option 1:	A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
		A cash rebate of \$ (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.)
		OR
		A cash rebate valued at no more than 50% of the total project cost, which is equal to \$ 1,965.60. (Attach documentation and calculations showing how this payment amount was determined.)
		See <u>Confidential and Proprietary Attachment 5 – Self Direct</u> <u>Program Project Calculation</u> for incentive calculations for this mercantile program.
	Option 2:	An exemption from payment of the electric utility's

energy efficiency/peak demand reduction rider.

Section 6: Cost Effectiveness

The program (choose whic	n is cost effective because it has a benefit/cost ratio greater than 1 using the ch 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: 2.8 (Skip to Subsection $2.$)
Subsection	on 1: TRC Test Used (please fill in all blanks).
av dis an	the TRC value of the program is calculated by dividing the value of our oided supply costs (generation capacity, energy, and any transmission or stribution) by the sum of our program overhead and installation costs and y incremental measure costs paid by either the customer or the electric ility.
	The electric utility's avoided supply costs were
	Our program costs were
	The utility's incremental measure costs were
Subsection	on 2: UCT Used (please fill in all blanks).
av (in	e calculated the UCT value of our program by dividing the value of our oided supply costs (capacity and energy) by the costs to our electric utility cluding administrative costs and incentives paid or rider exemption costs) obtain our commitment.
	Our avoided supply costs were \$ 5,860.58
	The utility's program costs were \$ 123.93
	The utility's incentive costs/rebate costs were \$ 1,965.60.

Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment.
 - See <u>Attachment 1 Self Direct Project Overview and Commitment</u> for a description of the project. See <u>Attachment 6 Supporting Documentation</u>, for the specifications of the replacement equipment <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed. Due to the length of time since the equipment replacement, the make, model and year of the replaced equipment is not available.
- A copy of the formal declaration or agreement that commits your program to the electric utility, including:
 - 1) any confidentiality requirements associated with the agreement;
 - See Attachment 2 Self Direct Program Project Blank Application including Rules and Requirements. All confidentially requirements are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as Confidential and Proprietary Attachment 3 Self Direct Program Project Completed Application.)
 - 2) a description of any consequences of noncompliance with the terms of the commitment;
 - See Attachment 2 Self Direct Program Project Blank Application including Rules and Requirements. All consequences of noncompliance are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as Confidential and Proprietary Attachment 3 Self Direct Program Project Completed Application.
 - 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
 - None required because the resources committed are permanent installations that reduce demand through increased efficiency during the Company's peak summer demand period generally defined as May through September and do not require specific coordination and communication to provide demand reduction capabilities to the Company.

- 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,
 - See <u>Attachment 2 Self Direct Program Blank Application</u> including Rules and Requirements granting such permission pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as <u>Confidential and Proprietary Attachment 3 Self Direct Program Project Completed Application</u>.
- 5) a commitment by you to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
 - See <u>Attachment 1 Self Direct Project Overview and Commitment</u> for the commitment to comply with any information and compliance reporting requirements imposed by rule or as part of the approval of this arrangement by the Public Utilities Commission of Ohio.
- 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.
 - The Company applies the same methodologies, protocols, and practices to Self Direct Program retrospective projects that are screened and submitted for approval as it does to prospective projects submitted through its Prescriptive and Custom Programs. The Commission has not published a technical reference manual for use by the Company so deviations can not be identified. The project submitted is a prescriptive project and energy savings are determined as described in Confidential and Proprietary Attachment 5 Self Direct Program Project Calculation, and 10-1599-EL-EEC for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.



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

Case No.: 12-0858-EL-EEC
State of Ohio:
TOO CHING YONG, Affiant, being duly sworn according to law, deposes and says that:
1. I am the duly authorized representative of:
KEMA Services, Inc agent of Ohio Power
 I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.
Signature of Affiant & Title
Sworn and subscribed before me this way of March ,2012 Month/Year
Signature of official administering oath Name and Title Outveach Coordinate
My commission expires on <u>June 01,2016</u>
KIMBERLY FLOWERS NOTARY PUBLIC

STATE OF OHIO

My Comm. Expires June 1, 2016



February 29, 2012

Self Direct Project Overv w & Commitment

Attachment I Page 1 of 1

Self Direct Proje	ect Overview & Commitment	
The Public Utility Commission of Ohio (PUCO) will soor	review your application for participation in AFP Object	nerov
Efficiency/Peak Demand Response program. Based on yo		
below, sign and fax to 877-607-0740.	an salatimes project, product of intianing of or of in	ino options
Customer Name	MOUNT VERNON CITY SCHOOLS	100 mm 1
Project Number	AEP-11-05352	365 (100 (100 (100 (100 (100 (100 (100 (10
Customer Premise Address	305 E PLEASANT ST, MOUNT VERNON, OH 43050	822
Customer Mailing Address	302 Martinsburg Rd, Mt Vernon, OH 43050	53F3758H313473
Date Received	12/16/2011	MATERIAL DESIGNATION
Project Installation Date	7/11/2008	5.022.07.07.00.0
Annual kWh Reduction	20,656	MARKAGOANA
Total Project Cost	\$5,616.00	E 25 C 25 P 6 C
Unadjusted Energy Efficiency Credit (EEC) Calculation	\$2,620.80	
Simple Payback (yrs)	6.8	Total State of the Sales
Utility Cost Test (UCT)	2.8	
	Please Choose One Option	Below and Init
Ontion 1 Salf Direct FFC: 759/	61 0/2 (0	50,0
Option 1 - Self Direct EEC: 75%	\$1,965.60	nitial:
		110
Option 2 - EE/PDR Rider Exemption	#N/A	
Note: This is a one time selection. By selecting Option 1, the cu		on of Option 2
Ohio during the period of exemption. In addition, the term of Op and could be changed by the PUCO.		
If Option 1 has been selected, will the Energy Efficiency Funds sele	cted help you move forward with other energy efficiency project	
	YES	NO
Project Overview:		
The Self Direct (Prescriptive) project that the above has co	ompleted and applied is as follows.	
(32) 400-watt metal halides fixtures were replaced with 6L	4' 32W T8 hi-bay fixtures.	
The documentation that was included with the application installed.		
By signing this document, the Mercantile customer affirms its in	tention to commit and integrate the above listed energy efficie	y resources
into the utility's peak demand reduction, demand response, and	energy efficiency programs. By signing, the Mercantile custo,	r also agrees
to serve as a joint applicant in any filings necessary to secure ap	pproval of this arrangement by the Public Utilities Commission	of Ohio, and
comply with any information and compliance reporting requiren	nents imposed by rule or as part of that approval.	
Ohio Power Company	MOUNT VERNON CITY SCHOOLS	
Ja J. Will	00 00	
зу:	By: Out 78CT	
Title: Manager	Title Superintendest	

2-28-12



Jan 2011 - Dec 2011

Step 1: Check Project and Equipment Eligibility

- ✓ Project must be a facility improvement that results in a permanent reduction in electrical energy usage (kWh).
- ✓ All installed equipment must meet or exceed the specifications given in the application and be installed in facilities served by AEP Ohio: Customer must have a valid AEP Ohio account number on an eligible AEP Ohio non-residential rate (see terms and conditions for list of eligible rates eligibility requirements).

Step 2: Submit Application

✓ Fill out the Customer Information form and the Worksheet for the measures that you are installing. You
may submit the application via mail, fax or e-mail.

Submit your application to:

AEP Ohio Business Incentives for Energy Efficiency
2740 Airport Drive Suite 160
Columbus, OH 43219
Call: (877)-607-0739
Fax: (877)-607-0740
Email: gridsmartohio@kema.com
Visit our web site at gridsmartohio.com

✓ Submit a completed application prior to Oct 1st for any projects prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could jeopardize approval of any incentive. Complete the checklist page and attach the documentation listed: customer information page, a signed Agreement and Signature page, measure worksheet, scope of work (type, quantity and wattage of old and new equipment), dated and itemized invoices for the purchase and installation of all equipment installed and specification sheets for all equipment installed showing that it meets the program specifications.

Step 3: Project Review

- ✓ The program team will review your Application. For some projects, an inspection will be part of the review, and you will be contacted to schedule it.
- ✓ After approval by AEP Ohio, the customer will be sent an Overview and Commitment form to sign for all self-direct projects. After the Overview and Commitment form is returned the project will be submitted to the Public Utilities Commission of Ohio (PUCO) for consideration. The PUCO will assign a case number and review the project details that were prepared by AEP Ohio. The PUCO may request additional information, approve or reject the energy efficiency credits.

Step 4: Receive Energy Efficiency Credits

- ✓ The program team will issue the energy efficiency credits, within four to six weeks after PUCO project approval.
- ✓ In lieu of a one-time energy efficiency credit, you may elect to seek an exemption from the Energy Efficiency / Peak Demand Reduction (EE/ PDR) Rider for the associated electric accounts(s) for a defined period of time as stated on this Application. For this exemption the Energy Efficiency Credit amount (Option 1) is compared to the estimated value of the estimated EE/PDR Rider obligation (Option 2), as calculated by AEP Ohio. The value of Option 2 will be approximately equal to the value of Option 1. If exemption is elected, the affective account is not eligible for other programs offered by AEP Ohio during the exemption period. Unless additional resources are committed, you will, after the specified number of months exempted, be again subject to the EE/ PDR Rider. New Construction projects are not eligible to elect Option 2. Major Renovation projects that do not have a representative billing history for three years prior to the project installation are also not eligible to elect Option 2.
- ✓ If the energy efficiency credit is elected, you remain in the EE/ PDR rider for the period of time that an exemption would have been in effect and may also participate in the AEP Ohio programs. However, during that period of time, you will not be allowed to elect the Option 2 exemption for any additional self-direct projects for the same account number.
- You are allowed and encouraged to consider using all or a portion of the energy credits, as received from AEP Ohio under this program, to help fund other energy efficiency and demand reduction projects you choose to initiate in the future. Future projects can also qualify for credits under the Prescriptive or Custom programs.



APPLICATION CHECKLIST

APPLICATION		
Required Attachments Customer/Contractor Information Completed Energy Efficiency Credits Requested Section of Agreement and Signature Page Itemized Invoices Equipment Specifications Scope of Work		
	Worksheets Lighting HVAC Refrigeration Motors and VFD Custom	
Application Date:		
Completion Date:		
Project Incremental Cost		
*Incomplete applications will delay processing and energy efficiency credits. Please complete and submit forms for above checked boxes.		
Please fill out if this is a revised submittal		
	ORIGINAL SUBMITTAL DATE:	
APPLICATION NUMBER (IF KNOWN):		

AEP Ohio Business Incentives Program for Energy Efficiency 2740 Airport Drive Suite 160 Columbus, OH 43219

> Phone: (877)-607-0739 Fax: (877)-607-0740 gridsmartohio@kema.com www.gridsmartohio.com



TERMS AND CONDITIONS

Columbus Southern Power and Ohio Power Company are collectively known as AEP Ohio (AEP Ohio). AEP Ohio is offering Prescriptive and Custom energy efficiency credits under the AEP Ohio Business Incentives Program for Energy Efficiency to credit the implementation of past cost-effective energy-efficiency improvements for non-residential (commercial and industrial) customers. AEP Ohio provides energy efficiency credits (EEC) for the purchase and installation of qualifying cost effective equipment in the customer's facility under the Terms and Conditions provided in this application and subject to regulatory approvals. Energy efficiency credits will only be provided in the form of a check or an Energy Efficiency/Peak Demand Reduction (EE/PDR) Rider exemption under this program.

All applications are subject to review and approval by AEP Ohio, its contractor(s)/agent(s), and the Public Utility Commission of Ohio (PUCO) prior to any EEC payments or exemptions from the EE/PDR rider in this program. Funds are limited and subject to availability.

Program Effective Dates

The AEP Ohio Business Incentives for Energy Efficiency program EEC are offered until approved funds are exhausted or Dec 31 of each program year, whichever comes first. The effective dates of Year 3 of the program and application submittal requirements are as follows:

- Self-direct projects are projects completed since 1/1/2008. Self-direct projects are eligible to apply for EEC with this
 application. Future projects that are not yet completed should apply on the Prescriptive/Custom application.
- All 2011 AEP Ohio Business Incentives for Energy Efficiency program Applications should be received no later than
 Oct 1st for any projects completed prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later.
 Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could
 jeopardize approval of any incentive. AEP Ohio reserves the right to extend or shorten this timeline.
- Subsequent program year plans will be made available toward the end of the existing program year. At the current time, AEP Ohio has a commitment to provide this program through the 2011 program year.

Program and Project Eligibility

The Self-Direct Program applies to customer facilities served by AEP Ohio's retail electric rates who meet the minimum energy usage requirements of 700,000 kWh per year or who are part of a national account involving multiple facilities in one or more states.

The AEP Ohio Business Incentives for Energy Efficiency program offers both Prescriptive energy efficiency credits for some of the more common energy efficiency measures and Custom energy efficiency credits for those eligible improvements not included on the list of Prescriptive measures. Program credits are available under the AEP Ohio Business Incentives for Energy Efficiency program to non-residential customers served at AEP Ohio's regulated retail rates, where qualifying projects are installed in a facility in AEP Ohio's electric service territory. These credits are available to all non residential customers who pay into the (EE/PDR) rider and receive their electricity over AEP Ohio wires, regardless of which retail electric supplier the customer has chosen to purchase power from.

Custom projects must involve measures that result in a reduction in electric energy usage due to an improvement in system efficiency. Projects that result in reduced energy consumption without an improvement in system efficiency are not eligible for a Custom credit. However, projects that involve an automated control technology such as energy management system programming may be eligible for a credit. All projects must meet AEP Ohio's cost-effectiveness requirements. The project simple payback prior to the credit must pass the utility cost effectiveness test(s) determined by AEP Ohio, to qualify for credit. Normally, most projects with a simple payback prior to the credit greater than one year and less than seven years generally pass the utility cost effectiveness test(s). The peak demand hours are defined as weekdays, non-holidays 3:00 PM to 6:00 PM, June through August.

Projects involving measures covered by the Prescriptive energy efficiency credit portion of the program are not eligible for a Custom energy efficiency credit. However, the applicant has the option to apply for a Custom energy efficiency credit for whole building integrated projects or systems even if they include Prescriptive measures.

The energy efficiency credits are calculated in the following Prescriptive or Custom worksheets.



TERMS AND CONDITIONS

Project requirements under the AEP Ohio Business Incentives Program for Energy Efficiency include the following:

- Projects must involve a facility improvement that results in a permanent reduction in electrical energy usage (kWh)
- Projects that are NOT eligible for a credit include the following:
 - Fuel switching (e.g. electric to gas or gas to electric)
 - Changes in operational and/or maintenance practices or simple control modifications not involving capital costs
 - Removal or termination of existing processes, facilities, and/or operations
 - On-site electricity generation
 - Projects involving gas-driven equipment in place of or to replace electric equipment (such as a chiller)
 - Projects focused primarily on power factor improvement;
 - Projects that involve peak-shifting (and not kWh savings)
 - Renewables
 - Are required by state or federal law, building or other codes, or are standard industry practice
 - Are easily reverted/removed or are installed entirely for reasons other than improving energy efficiency
 - Include other conditions to be determined by AEP Ohio.
- Any measures installed at a facility must produce <u>verifiable</u> and <u>persistent</u> energy reduction. Measures must be sustainable and provide 100% of the energy benefits as stated in the Application for a period of at least five (5) years or for the life of the product, whichever is less. If the Customer ceases to be a delivery service customer of AEP Ohio or removes the equipment or systems at any time during the 5-year period or the life of the product, the Customer may be required to return a prorated amount of credit funds to AEP Ohio.
- Customer can not apply for incentives for future projects and elect after the fact to apply for credits under this program.
- Confidential information contained in any documents associated with this application will be protected from public filings. However, this information may be disclosed to the Public Utilities Commission of Ohio for further review and approval.
- All equipment must be new. Used or rebuilt equipment is only eligible for energy efficiency credits if the energy efficiency rating of the used equipment is the same energy efficiency level of new equipment.
- · All installed equipment must meet state, federal, or local codes and requirements when applicable.
- Costs associated with internal labor are not eligible.
- Projects must be installed on the AEP Ohio electric account listed on the application
- Equipment must be purchased, installed, and operating (or capable of operating in the case of seasonal uses)
 prior to submitting an application for energy efficiency credits
- The energy efficiency credits are paid as a one-time, one-program offer and cannot be combined with incentive
 payments from other AEP Ohio programs. The customer may be eligible to participate in other programs offered
 by AEP Ohio, as long as no project receives more than one incentive/credit.

PROGRAM ENERGY	EFFICIENCY CREDITS
Energy efficiency credit levels for one-year	See tables for prescriptive credits
energy savings	Custom credits \$0.08/kWh x 75%
Minimum / Maximum simple payback before	Must pass cost effectiveness test(s)
energy efficiency credit applied	(determined by AEP Ohio)
energy emclericy credit applied	Generally 1 year Min / 7 year Max
Maximum payout	75% of 50% of the Incremental project cost
	(additional caps may also apply)
Energy efficiency credit levels for projects	Calculated amount on the Prescriptive or Custom
completed since 1/1/2008	worksheets attached and subject to funding limits
Credit Limit	Calculated credits greater than \$160,000 per
	project are subject to a sliding scale credit tiering
	calculation.
Credit Calculation Order	Measure credit caps are applied first
	Project cost credit limits are applied second
	Credit tiering is applied third
	75% factor applied to credit last



TERMS AND CONDITIONS

Energy Efficiency Credit Limits

For both the Prescriptive and Custom measures in this application, the total energy efficiency credits shall be 75% of the lesser of: 1) The calculated credit as approved by AEP Ohio, or 2) 50% of the incremental project cost with larger projects subject to the following limits and credit reductions. In calculating the savings and energy efficiency credits for Custom measures, please contact the AEP Ohio Business Incentives for Energy Efficiency Program office to determine appropriate baseline for savings.

Funding is limited

- The limit for each self-direct project is \$225,000.
- The limit for each business entity (corporation, LLC, partnership, etc) in the Self-Direct Program is based on their tariff, as indicated below:

TARIFF	LIMIT PER BUSINESS ENTITY
General Service Tariffs 1, 2, & 3	\$450,000 per year
Any Other Tariff General Service	\$450,000 overall for years 2009-2011
Tariff 4	·

- A business entity with facilities in both categories can qualify for both limits. All facilities served in one category for a business entity are combined to determine the limit.
- Limits are utility-specific, so there is a separate limit for facilities served by Ohio Power and those served by Columbus Southern Power.
- A sliding scale credit reduction will be incorporated when the calculated energy efficiency credits exceed \$160,000 per project.

Application

Applications should be submitted by Oct 1st for any projects completed prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could jeopardize approval of any incentive. Project documentation, such as copies of dated invoices for the purchase and installation of the measures and/or product specification sheets, is required. AEP Ohio reserves the right to request additional backup information, supporting detail, calculations, manufacturer specification sheets or any other information prior to any credit payment.

The location or business name on the invoice must be consistent with the application information. Applications and all required supporting documentation should be received by November 15, 2011 to be applicable for the 2011 program year.

A signed application with documentation verifying installation of the project including, but not limited to, equipment, invoices, approvals, and other related information must be submitted to AEP Ohio prior to application approval.

The project invoice should provide sufficient detail to separate the incremental project cost from the cost of other services such as repairs and building code compliance. AEP Ohio reserves the right to request additional supporting documentation as deemed necessary to ensure measure eligibility and verify that the expected energy savings will occur. Confidential information contained in any documents associated with this application will be protected from public filings. However, this information may be disclosed to the Public Utilities Commission of Ohio for further review and approval. Requested information could include: equipment purchase dates, installation dates, proof that the equipment is operational, manufacturer specifications, warranty information, and proof of customer co-payment.

The customer understands and agrees that all other terms and conditions, as specified in the application, including all attachments and exhibits attached to this application, serves as a contract for the customer's commitment of energy resources to AEP Ohio, shall apply.



TERMS AND CONDITIONS

Application Review Process

AEP Ohio will review Applications for eligibility and completeness. Completed applications will be reviewed in the order received. Funds are reserved for the project when AEP Ohio receives a complete application and determines that the project meets the program eligibility requirements. Applicants who submit incomplete applications will be notified of deficiencies upon review of the application, and could lose their place in line in the review process until all requested information is received. Applications must be completed and all information received by the deadlines defined above to begin processing. Applicants are encouraged to call the program hotline if they have any questions about documentation requirements.

Inspections

AEP Ohio reserves the right to inspect all projects to verify compliance with the program rules and verify the accuracy of project documentation. This may include installation inspections, verification of detailed lighting layout descriptions, metering, data collection, interviews, and utility bill data analysis. The customer must allow access to project documents and the facility where the measures were installed for a period of five years after receipt of energy efficiency credits by AEP Ohio. Customer understands and agrees that Program installations may also be subject to inspections by the PUCO or their designee, and photographs of installation may be required.

Requirements for Custom Project Electricity Savings Calculation

The annual electricity savings must be calculated for Custom projects using industry accepted engineering algorithms or simulation models. The applicant must estimate the annual electricity usage of both the equipment removed (and baseline) and equipment installed based on the current operation of the facility. A listing of the pre-existing information requirements is provided at the end of the custom application section. If the previous equipment was at the end of its useful life, the applicant must use, as the baseline, the equipment that would meet the applicable federal and local energy codes unless an "as found" baseline is being used by the applicant. If the applicant is using an "as found" baseline, additional specific information on the pre-existing information must be provided.

The applicant must be able to clearly describe the method used to calculate the savings. The applicant must provide all assumptions used in the calculations and document the source for these assumptions. The method and assumptions used by the applicant to calculate the annual savings will be reviewed by AEP Ohio. AEP Ohio is solely responsible for the final determination of the annual energy savings to be used in calculating the energy efficiency credit amount. AEP Ohio also reserves the right to require specific measurement and verification activities including monitoring the retrofit and determining the credit. Verification of the preexisting consumption may also be required.

AEP Ohio may need to conduct inspections of projects to verify equipment and operation conditions. For Custom and "as-found" projects, the applicant is required to provide information in order to allow AEP Ohio to verify the baseline usage of the pre-existing equipment.. Customers are encouraged to submit projects that warrant special treatment (i.e., non-typical projects) to be considered on a case-by-case basis by AEP Ohio.

Tax Liability

Credits are taxable and, if more than \$600, will be reported to the IRS unless the customer is exempt. AEP Ohio is not responsible for any taxes that may be imposed on the Payee as a result of the receipt of the energy efficiency credits.

Disclaimer

AEP Ohio does not guarantee the energy savings and does not make any warranties associated with the measures eligible for energy efficiency credits under this program. AEP Ohio has no obligations regarding and does not endorse any claims, promises, work, or equipment made, performed, or furnished by any contractors or equipment vendors or manufacturers that sell or install any energy efficiency measures and does not endorse or guarantee same. AEP Ohio is not responsible for the proper disposal/recycling of any waste generated as a result of this project. AEP Ohio is not liable for any damage caused by the operation or malfunction of the installed equipment.



Important: Please read the terms and conditions before signing and submitting this application. You must complete all information and provide required additional documentation to avoid processing delays.

	CU:	STOMER INFO	RMATIC	ON		•
Business Type (select one) LARGE OFFICE SMALL OFFICE SCHOOL SMALL RETAIL/SERVICE		Tax Status (from WS ORPORATION (Inc., PC, Etc.) TAX EXEMPT INDIVIDUAL OTHER (may receive 1099)	AEP Account Representative Contractor			
LARGE RETAIL/SERVICE HOTEL/MOTEL MEDICAL - Hospital MEDICAL - Nursing Home ASSEMBLY/MEETING PLACE RESTAURANT GROCERY CONDITIONED WAREHOUSE UNCONDITIONED WAREHOUSE INDUSTRIAL/MANUFACTURING COLLEGE/UNIVERSITY GOVERNMENT/MUNICIPAL OTHER/MISCELLANEOUS		Operating Da Seven days/week Five days/week Operating Ho One shift (8h /day) Two shifts (16h/day) Three shifts (24h/day) Building Operating Hours	3	Square F Affected Area S.F.	ootage	e
NAME OF APPLICANT'S BUSINESS			PROJECT NAME	(IF APPLICABLE)		
NAME AS IT APPEARS ON UTILITY B	ILL	AEP OHIO ACCT #*	APPLICANT TAX	PAYER ID # (SSN/FEDI	ERAL ID)	
MAILING ADDRESS			CITY		STATE	ZIP
INSTALLATION ADDRESS			CITY		STATE	ZIP
Please provide all contacts we may nee NAME OF CONTACT PERSON - Prefe	ed to proces		TITLE OF CONTA	ACT		
CONTACT PHONE #	EXT.	CONTACT FAX #	CONTACT EMAIL	L ADDRESS		
	CON	TRACTOR INF	ORMAT	ION		
NAME OF CONTRACTING COMPANY						
NAME OF CONTACT PERSON			TITLE OF CONT	ACT PERSON		
CONTACT PHONE #	EXT.	CONTACT FAX #	CONTACT EMAIL	L ADDRESS		
MAILING ADDRESS			CITY		STATE	ZIP
If there are questions about application who should we co		Customer		Contractor]	•
As an eligible customer, I ver program.	ify the in	formation is correct and	equest consid	leration for partici	pation ur	nder this
CUSTOMER SIGNATURE (AEP OHIO CUSTOMER)			PRINT NAME			
TOTAL INCENTIVE REQUESTED**			DATE			
COMPLETION DATE	PROJECT COST					

^{*} AEP Ohio Account Number where measure is installed

^{**} Incentive cannot exceed 50 percent of the total Incremental cost or other caps described in the Terms and Conditions.



SELF-DIRECT APPLICATION AGREEMENT

As an eligible AEP Ohio customer, I certify that the installation of the indicated energy efficiency measures, which will be demonstrated by the supporting documentation required by AEP Ohio. I certify that the work, was completed on this project on or after January 1, 2008. The energy efficiency measures are for use on-site and not for resale. I understand that project documentation, including copies of dated invoices for the purchase and installation of the measures and product specification sheets, is required. Further documentation requirements can be found at the program website www.gridsmartohio.com or by calling the program hotline.

I understand that the location or business name on the invoice must be consistent with the application information. Final Applications and all required supporting documentation should be received by Oct 1st for any projects completed prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could jeopardize approval of any incentive by the PUCO.

I agree to verification by the utility or their representatives of both sales transactions and equipment installation.

I understand that these energy efficiency credits are available to all eligible customers who pay the Energy Efficiency and Peak Demand Reduction (EE/PDR) rider and receive their electricity over AEP Ohio wires regardless of which retail electric supplier the customer has chosen to purchase power from.

I certify that the information on this application is true and correct, and that the Taxpayer ID Number and tax status is the applicant's. I understand that incentives over \$600 will be reported to the IRS unless the applicant is exempt. I understand that energy efficiency credits assume related energy benefits over a period of 5 years or for the life of the product, whichever is less.

I agree that if: I remove the related product(s) identified in my application before a period of 5 years or the end of the product life, whichever is less, I shall refund a prorated amount of energy efficiency credits to AEP Ohio based on the actual period of time in which the related product(s) were installed and operating. This is necessary to assure that the project's related energy benefits will be achieved.

I understand that the program may be modified or terminated without prior notice.

AEP Ohio reserves the right to refuse payment and participation if the customer or contractor violates Program rules and requirements. AEP Ohio is not liable for energy efficiency credits promised to customers as a result of misrepresentation of the Program.

Customer and customer's contractor shall be responsible to comply with any applicable codes or ordinances.

All submissions become the property of AEP Ohio. Keep a copy for your records.

I understand that the Application and all required documentation should be received by the AEP Ohio Business Incentives for Energy Efficiency program prior to Oct 1st for any projects completed prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could jeopardize approval of any incentive by the PUCO. All equipment must be fully operational.



SELF-DIRECT APPLICATION AGREEMENT

I understand that this project must involve a facility improvement that results in improved energy efficiency. I also understand that all materials removed, including lamps and PCB ballasts, must be permanently taken out of service and disposed of in accordance with local codes and ordinances. Equipment can not under any circumstances be resold for reuse. I understand it is my responsibility to be aware of any applicable codes or ordinances. Information about hazardous waste disposal can be found at: http://www.epa.gov/osw/hazwaste.htm.

AEP Ohio will pay 75% of the lesser of: 1) The calculated credit as approved by AEP Ohio subject to funding limits or 2) 50% of the incremental project cost (subject to application caps). I understand that AEP Ohio or their representatives have the right to ask for additional information at any time. AEP Ohio's Business Incentives Program for Energy Efficiency will make the final determination of energy efficiency credit levels for this project.

The program has a limited budget. Applications will be processed within the budget limits. Applications and all supporting documentation required should be received by November 15, 2011 to be eligible for funding under the current program period.

Customer understands and agrees that all other terms and conditions, as specified in the application, including all attachments and exhibits attached to this application which will serve as a contract for the Customer's commitment of energy and demand resources to AEP Ohio shall apply.

I understand that AEP Ohio does not guarantee the energy savings and does not make any warranties associated with the measures eligible for energy efficiency credits under this program, and, further, that AEP Ohio has no obligations regarding any claims, promises, work, or equipment made, performed, or furnished by any contractors or equipment vendors that sell or install any energy efficiency measures and does not endorse or guarantee same.

Energy efficiency credits will be based upon the final application and program terms and conditions, as well as the availability of funds.

Any and all energy savings generated by the project described in this application are hereby committed to AEP Ohio in order to count against its respective companies' benchmark requirements in S.B. 221.

ENERGY EFFICIENCY CREDITS REQUESTED

I have read and understand the program requirements and Measure Specifications and Terms and Conditions set forth in this application and agree to abide by those requirements. Furthermore, I concur that I must meet all eligibility criteria in order to be paid under this program.

ALL EQUIPMENT MUST BE INSTALLED AND OPERATIONAL. A CUSTOMER SIGNATURE IS REQUIRED FOR PAYMENT. SIGNED APPLICATIONS RECEIVED BY FAX OR EMAIL WILL BE TREATED THE SAME AS ORIGINAL APPLICATIONS RECEIVED BY MAIL. All submissions become the property of AEP Ohio. Keep a copy for your records.

TOTAL PROJECT COST		TOTAL ENERGY EFFICIENCY CREDITS REQUESTED	
CUSTOMER SIGNATURE (AEP CUSTOMER)			
PRINT NAME	DATE		ACTUAL COMPLETION DATE

Attachment 6 Supporting Documentation Page 1 of 5

Name	Street Address	City	State
MOUNT VERNON CITY SCHOOLS	305 E PLEASANT ST	MOUNT VERNON	ОН
MOUNT VERNON CITY SCHOOLS	298 Martinsburg Road	MOUNT VERNON	ОН
MOUNT VERNON CITY SCHOOLS	300 Newark Road	MOUNT VERNON	ОН

6 Lamp Heavy Duty Industrial Fixture





Features

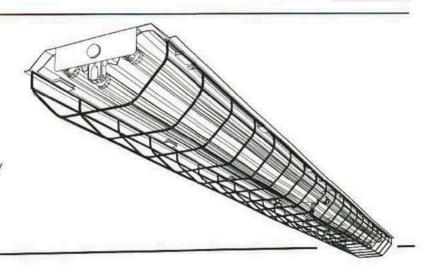
Combines the durability of a full steel body with the performance of a specular insert

Superior Light Quality, 92.5% Photometric Efficiency

Rigid, Four-Bend Press-Brake Formed Body

Optional wire guard kit

224 Watts (with high-lumen ballasts)



Technical Data

Housing: 20ga. (0.036") pre-painted steel die formed with sufficient knockouts for mounting and electrical supply.

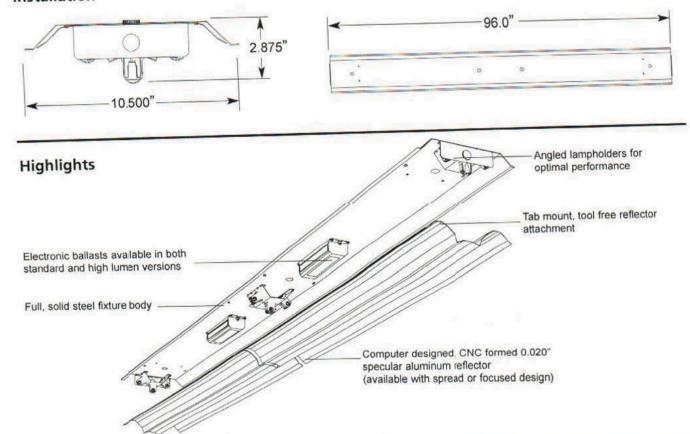
Finish: All cold rolled steel parts are painted with a smooth, glossy, highly reflective white paint.

Reflector: Can be ordered with a 95% specular, a 85% specular, or a 92% diffuse white enamel. (For maximum performance, 95% specular is recommended.) Substrate is 0.020" high quality aluminum. The reflector profile is optimized using computer analysis and manufactured using state of the art CNC equipment. A protective premask is applied to all reflective surfaces prior to manufacture.

Construction: The solid four-bend body provides added rigidity. The socket bars and endplates securely snap into place. The reflectors are attached to the fixture body with a tab lock system. No tools or additional fasteners are required for reflector installation and removal.

Mounting: Fixture can be surface, pendant, or chain suspended.

Installation





6 Lamp Heavy Duty Industrial Fixture



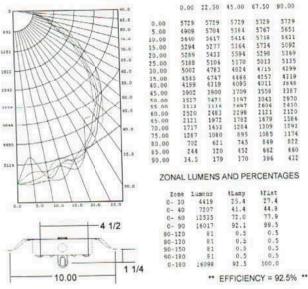
Photometrics



Energy Solutions international, inc. 1305 Mendota Heights Road Saint Paul, MN 55120

ENERGY SOLUTIONS 1 X 8 FLUORESCENT LUMINAIRE WITH WHITE INTERIOR, SPECULAR REFLECTORS AND NO LENS SIX LINEAR FLUORESCENT 32 WATT LAMPS, LUMEN RATING 2950 LMS TWO GE B3321277RHSC BALLAST OPERATING AT 120 VAC AND 218 WATTS

CANDLEPOWER SUMMARY



LUMINANCE SUMMARY - CD./SQ.M.

90 5439 4731 5439 5152 4906 4637 5419 4840 4511 3993 45 55 65 75 85 4188 3671 3189

PAINT REFLECTANCE = 0.78 S/MH = 1.49 SC (ALONG) = 1.27 SC (ACROSS) = 1.14

PREPARED IN PHOTOPIA FOR ENERGY SOLUTIONS ST. PAUL, MN

Case Study

250' x 40' x 25' Warehouse Space

Reflectances:

Ceiling 60 Walls 40 10 Floor

Power Strip Layout: 60 Fixtures



ESI HD Strip 1' x 8' (6) 32W FO32 T8 Lamps High Power Ballast (1.18) LDD: 1.12 1.37 watts/sq.foot UPS:

Illuminance: 73.4fc*

HID Layout: 60 Fixtures



HID High Bay Fixture (1) 400W Metal Halide

0.66 LDD:

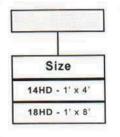
2.79 watts/sq.foot UPS: Illuminance: 80fc*

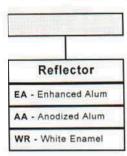
* Calculations made at 10,000hrs

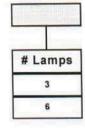
Ordering Information

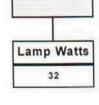
Part Number = Fixture Size + Reflector Material + # Lamps + Lamp Wattage + Voltage + Ballast Type + Options

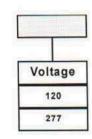
(Example 18HDEA632277H = 1'x8' Heavy Duty Strip with an enhanced aluminum reflector, 6-32W lamps, 277 volts, and a high power ballast)

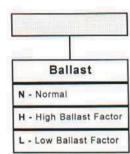












27621 - F32T8XL/SPX41ECO

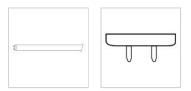
GE Ecolux® Starcoat® T8

- Passes TCLP, which can lower disposal costs.
- Provides significantly longer life than standard lamp helping to reduce maintenance costs

Photo Not Available

High Color Rendering





CAUTIONS & WARNINGS

Caution

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

Warning

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

GRAPHS & CHARTS

Graphs Spectral Power Distribution

GENERAL CHARACTERISTICS

Lamp Type Linear Fluorescent - Straight

Linear Bulb T8

 Base
 Medium Bi-Pin (G13)

 Rated Life
 40000.0 hrs

 Rated Life (instant start) @
 25000 h @ 3 h

 Time
 36000 h @ 12 h

Rated Life (rapid start) @ Time 40000.0 @ 3.0/45000.0 @

Bulb Material Soda lime
Starting Temperature (MIN) 10.0 K

LEED-EB MR Credit 26 picograms Hg per mean

lumen hour
Additional Info TCLP compliant

PHOTOMETRIC CHARACTERISTICS

Initial Lumens 2950.0
Mean Lumens 2800.0
Nominal Initial Lumens per Watt
Color Temperature 4100.0 K
Color Rendering Index (CRI) 85.0
S/P Ratio (Scotopic/Photopic 1.8

Ratio)

ELECTRICAL CHARACTERISTICS

Wattage 32.0 Voltage 137.0

Open Circuit Voltage (rapid 315 V @ 10 nV

start) Min @ Temperature

Current Crest Factor (MAX)

Cathode Resistance Ratio - Rh/ 4.25 Rc (MIN)
Cathode Resistance Ratio - Rh/ 6.5 Rc (MAX)

DIMENSIONS

Maximum Overall Length 47.7800 in(1213.6 mm)

1.7

(MOL)

 Minimum Overall Length
 47.6700 in(1210.8 mm)

 Nominal Length
 48.000 in(1219.2 mm)

 Bulb Diameter (DIA) (MIN)
 0.940 in(23.9 mm)

 Bulb Diameter (DIA) (MAX)
 1.100 in(27.9 mm)

 Bulb Diameter (DIA)
 1.000 in(25.4 mm)

 Max Base Face to Base Face
 47.220 in(1199.4 mm)

(A)

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 47.670 in(1210.8 mm)

Opposite Pin End (C)

PRODUCT INFORMATION

Product Code 27621

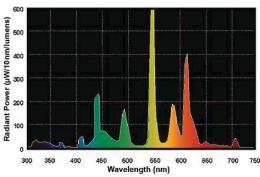
Description F32T8XL/SPX41ECO

ANSI Code 1005-2 Standard Package Case

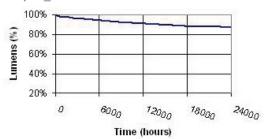
Standard Package GTIN 10043168276211

Package

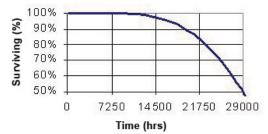
UPC 043168276214



Graphs_Lumen Maintenance



Graphs_Lamp Mortality





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

Case No.: 12-0858-**EL-EEC**

Mercantile Customer: MOUNT VERNON CITY SCHOOLS

Electric Utility: Ohio Power

Program Title or Description: AEP Ohio Business Incentives for Energy Efficiency: Self Direct Program

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

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

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

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

Section 1: Company Information

Name: MOUNT VERNON CITY SCHOOLS

Principal address: 302 Martinsburg Rd, Mt Vernon, Oh 43050

Address of facility for which this energy efficiency program applies: 305 E Pleasant St,

Mount Vernon, Oh 43050-1822

Name and telephone number for responses to questions:

Stephen Short, Mount Vernon City Schools, (740) 397-7422

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

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

See <u>Confidential and Proprietary Attachment 4 – Calculation of Rider</u> <u>Exemption and UCT</u> which provides the facility consumption for the last three years, benchmark kWh, and the last 12 months usage.

The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.) When checked, see Attachment 6 – Supporting Documentation for a listing of the customer's name and service addresses of other accounts in the AEP Ohio service territory.

Section 2: Application Information

A)	The customer is filing this application (choose which applies):		
		Individually, on our own.	
		Jointly with our electric utility.	
B)	Our	electric utility is: Ohio Power Company	
	"Co	application to participate in the electric utility energy efficiency program is nfidential and Proprietary Attachment 3 – Self Direct Program Project npleted Application."	
C)) The customer is offering to commit (choose which applies):		
		Energy savings from our 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 demand reduction from the customer's energy efficiency program. (Complete all sections of the Application.)	

Section 3: Energy Efficiency Programs

A)	The	customer's energy efficiency program involves (choose whichever applies):			
		Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, 7/11/2008 and the date on which the customer would have replaced your equipment if you had not replaced it 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)).			
	The remaining life of the equipment varies and is not known with certainty. The future replacement date is unknown and has historically been at the end of equipment life. Replacement was completed early to achieve energy savings and to reduce future maintenance costs.				
	Installation of new equipment to replace equipment that needed to be replaced. The customer installed new equipment on the following date(s):				
	Installation of new equipment for new construction or facility expansion The customer installed new equipment on the following date(s):				
		Behavioral or operational improvement.			
B)	Ene	rgy savings achieved/to be achieved by your energy efficiency program:			
	1)	If you checked the box indicating that your 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:			
	Uı	nit Quantity (watts) = Existing (watts x units) - Installed (watts x units)			
	kV	Wh Reduction (Annual Savings) = Unit Quantity x (Deemed kWh/Unit)			
		Annual savings: 20,656 kWh			
		See <u>Confidential and Proprietary Attachment 5 – Self Direct Program</u> <u>Project Calculation</u> for annual energy savings calculations and <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.			

2) If you checked the box indicating that you 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 the less efficient new equipment that you rejected in favor of the more efficient new equipment.

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

Annual savings: kWh

Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.

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

Section 4: Demand Reduction/Demand Response Programs

A)	The	customer's program involves (check the one that applies):
		Coincident peak-demand savings from the customer's energy efficiency program.
		Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
		Potential peak-demand reduction check the one that applies):
		Choose one or more of the following that applies:
		☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
		☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.
B)	On	what date did the customer initiate its demand reduction program?
	dem	coincident peak-demand savings are permanent installations that reduce and through energy efficiency and were installed on the date specified in ion 3 A above.
C)		is the peak demand reduction achieved or capable of being achieved (show ations through which this was determined):
	Uı	nit Quantity (watts) = Existing (watts x units) - Installed (watts x units)
	KV	V Demand Reduction = Unit Quantity (watts) x (Deemed KW/Unit (watts))
		6.7 kW

See <u>Confidential and Proprietary Attachment 5 – Self Direct Program Project</u> <u>Calculation</u> for peak demand reduction calculation, and <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.

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 custor	mer is applying for:
	○ Option	on 1: A cash rebate reasonable arrangement.
	OR	
		on 2: An exemption from the cost recovery mechanism implemented e electric utility.
	OR	
	Com	mitment payment
В)	The value	of the option that the customer is are seeking is:
	Option 1:	A cash rebate reasonable arrangement, which is the lesser of (show both amounts):
		A cash rebate of \$ (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.)
		OR
		A cash rebate valued at no more than 50% of the total project cost, which is equal to \$ 1,965.60. (Attach documentation and calculations showing how this payment amount was determined.)
		See <u>Confidential and Proprietary Attachment 5 – Self Direct</u> <u>Program Project Calculation</u> for incentive calculations for this mercantile program.
	Option 2:	An exemption from payment of the electric utility's

energy efficiency/peak demand reduction rider.

An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)
OR
A commitment payment valued at no more than \$ (Attach documentation and calculations showing how this payment amount was determined.)
OR
Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of an ongoing efficiency program that is practiced by our organization. (Attach documentation that establishes your organization's ongoing efficiency program. In order to continue the exemption beyond the initial 24 month period your organization 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 (choose whic	n is cost effective because it has a benefit/cost ratio greater than 1 using the ch 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: 2.8 (Skip to Subsection $2.$)
Subsection	on 1: TRC Test Used (please fill in all blanks).
av dis an	the TRC value of the program is calculated by dividing the value of our oided supply costs (generation capacity, energy, and any transmission or stribution) by the sum of our program overhead and installation costs and y incremental measure costs paid by either the customer or the electric ility.
	The electric utility's avoided supply costs were
	Our program costs were
	The utility's incremental measure costs were
Subsection	on 2: UCT Used (please fill in all blanks).
av (in	e calculated the UCT value of our program by dividing the value of our oided supply costs (capacity and energy) by the costs to our electric utility cluding administrative costs and incentives paid or rider exemption costs) obtain our commitment.
	Our avoided supply costs were \$ 5,860.58
	The utility's program costs were \$ 123.93
	The utility's incentive costs/rebate costs were \$ 1,965.60.

Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment.
 - See <u>Attachment 1 Self Direct Project Overview and Commitment</u> for a description of the project. See <u>Attachment 6 Supporting Documentation</u>, for the specifications of the replacement equipment <u>10-1599-EL-EEC</u> for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed. Due to the length of time since the equipment replacement, the make, model and year of the replaced equipment is not available.
- A copy of the formal declaration or agreement that commits your program to the electric utility, including:
 - 1) any confidentiality requirements associated with the agreement;
 - See Attachment 2 Self Direct Program Project Blank Application including Rules and Requirements. All confidentially requirements are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as Confidential and Proprietary Attachment 3 Self Direct Program Project Completed Application.)
 - 2) a description of any consequences of noncompliance with the terms of the commitment;
 - See Attachment 2 Self Direct Program Project Blank Application including Rules and Requirements. All consequences of noncompliance are pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as Confidential and Proprietary Attachment 3 Self Direct Program Project Completed Application.
 - 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
 - None required because the resources committed are permanent installations that reduce demand through increased efficiency during the Company's peak summer demand period generally defined as May through September and do not require specific coordination and communication to provide demand reduction capabilities to the Company.

- 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,
 - See <u>Attachment 2 Self Direct Program Blank Application</u> including Rules and Requirements granting such permission pursuant to the Retrospective Projects/Rules and Requirements that are part of the signed application which is provided as <u>Confidential and Proprietary Attachment 3 Self Direct Program Project Completed Application</u>.
- 5) a commitment by you to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
 - See <u>Attachment 1 Self Direct Project Overview and Commitment</u> for the commitment to comply with any information and compliance reporting requirements imposed by rule or as part of the approval of this arrangement by the Public Utilities Commission of Ohio.
- 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.
 - The Company applies the same methodologies, protocols, and practices to Self Direct Program retrospective projects that are screened and submitted for approval as it does to prospective projects submitted through its Prescriptive and Custom Programs. The Commission has not published a technical reference manual for use by the Company so deviations can not be identified. The project submitted is a prescriptive project and energy savings are determined as described in Confidential and Proprietary Attachment 5 Self Direct Program Project Calculation, and 10-1599-EL-EEC for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures, as needed.



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

Case No.: 12-0858-EL-EEC
State of Ohio:
TOO CHING YONG, Affiant, being duly sworn according to law, deposes and says that:
1. I am the duly authorized representative of:
KEMA Services, Inc agent of Ohio Power
 I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.
Signature of Affiant & Title BOTC
Sworn and subscribed before me this day of March ,2012 Month/Year
Signature of official administering oath Name and Title Outveach Coordinate
My commission expires on <u>June 01,2016</u>
KIMBERLY FLOWERS NOTARY PUBLIC

STATE OF OHIO

My Comm. Expires June 1, 2016



February 29, 2012

Self Direct Project Overv w & Commitment

Attachment I Page 1 of 1

Self Direct Proje	ect Overview & Commitment	
The Public Utility Commission of Ohio (PUCO) will soor	review your application for participation in AFP Objo	nergy
Efficiency/Peak Demand Response program. Based on yo		
below, sign and fax to 877-607-0740.	an salatimes project, presse server by intiming one of the	ino options
Customer Name	MOUNT VERNON CITY SCHOOLS	1000 000 000 000 000 000 000 000 000 00
Project Number	AEP-11-05352	365 (100 (100 100 100 100 100 100 100 100 1
Customer Premise Address	305 E PLEASANT ST, MOUNT VERNON, OH 4305	822
Customer Mailing Address	302 Martinsburg Rd, Mt Vernon, OH 43050	Barona Ribarda
Date Received	12/16/2011	MATERIAL DESIGNATION
Project Installation Date	7/11/2008	5.4226.573.4253
Annual kWh Reduction	20,656	Market Control
Total Project Cost	\$5,616.00	7625628F65
Unadjusted Energy Efficiency Credit (EEC) Calculation	\$2,620.80	
Simple Payback (yrs)	6.8	
Utility Cost Test (UCT)	2.8	SECTION STATES
	Please Choose One Optio	Below and Init
Ontion 1 Salf Direct FFC: 759/	61 0/2 (0	50,0
Option 1 - Self Direct EEC: 75%	\$1,965.60	nitial:
		110
Option 2 - EE/PDR Rider Exemption	#N/A	
Note: This is a one time selection. By selecting Option 1, the cu		on of Option 2
Ohio during the period of exemption. In addition, the term of Opendo and could be changed by the PUCO.		
If Option 1 has been selected, will the Energy Efficiency Funds sele	ected help you move forward with other energy efficiency projec-	
	YES.	NO
Project Overview:		
The Self Direct (Prescriptive) project that the above has co	ompleted and applied is as follows.	
(32) 400-watt metal halides fixtures were replaced with 6L	4' 32W T8 hi-bay fixtures.	
The documentation that was included with the application installed.		
By signing this document, the Mercantile customer affirms its in	tention to commit and integrate the above listed energy efficie	y resources
into the utility's peak demand reduction, demand response, and	energy efficiency programs. By signing, the Mercantile custo	r also agrees
to serve as a joint applicant in any filings necessary to secure ap	pproval of this arrangement by the Public Utilities Commission	of Ohio, and
comply with any information and compliance reporting requiren	nents imposed by rule or as part of that approval.	
Ohio Power Company	MOUNT VERNON CITY SCHOOLS	
Ja J. Will	00 00	
зу:	By: Out 78CT	
Title: Manager	Title Superintendest	

2-28-12



Jan 2011 - Dec 2011

Step 1: Check Project and Equipment Eligibility

- ✓ Project must be a facility improvement that results in a permanent reduction in electrical energy usage (kWh).
- ✓ All installed equipment must meet or exceed the specifications given in the application and be installed in facilities served by AEP Ohio: Customer must have a valid AEP Ohio account number on an eligible AEP Ohio non-residential rate (see terms and conditions for list of eligible rates eligibility requirements).

Step 2: Submit Application

✓ Fill out the Customer Information form and the Worksheet for the measures that you are installing. You
may submit the application via mail, fax or e-mail.

Submit your application to:

AEP Ohio Business Incentives for Energy Efficiency 2740 Airport Drive Suite 160 Columbus, OH 43219 Call: (877)-607-0739 Fax: (877)-607-0740 Email: gridsmartohio@kema.com

Visit our web site at gridsmartohio.com

✓ Submit a completed application prior to Oct 1st for any projects prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could jeopardize approval of any incentive. Complete the checklist page and attach the documentation listed: customer information page, a signed Agreement and Signature page, measure worksheet, scope of work (type, quantity and wattage of old and new equipment), dated and itemized invoices for the purchase and installation of all equipment installed and specification sheets for all equipment installed showing that it meets the program specifications.

Step 3: Project Review

- ✓ The program team will review your Application. For some projects, an inspection will be part of the review, and you will be contacted to schedule it.
- ✓ After approval by AEP Ohio, the customer will be sent an Overview and Commitment form to sign for all self-direct projects. After the Overview and Commitment form is returned the project will be submitted to the Public Utilities Commission of Ohio (PUCO) for consideration. The PUCO will assign a case number and review the project details that were prepared by AEP Ohio. The PUCO may request additional information, approve or reject the energy efficiency credits.

Step 4: Receive Energy Efficiency Credits

- ✓ The program team will issue the energy efficiency credits, within four to six weeks after PUCO project approval.
- ✓ In lieu of a one-time energy efficiency credit, you may elect to seek an exemption from the Energy Efficiency / Peak Demand Reduction (EE/ PDR) Rider for the associated electric accounts(s) for a defined period of time as stated on this Application. For this exemption the Energy Efficiency Credit amount (Option 1) is compared to the estimated value of the estimated EE/PDR Rider obligation (Option 2), as calculated by AEP Ohio. The value of Option 2 will be approximately equal to the value of Option 1. If exemption is elected, the affective account is not eligible for other programs offered by AEP Ohio during the exemption period. Unless additional resources are committed, you will, after the specified number of months exempted, be again subject to the EE/ PDR Rider. New Construction projects are not eligible to elect Option 2. Major Renovation projects that do not have a representative billing history for three years prior to the project installation are also not eligible to elect Option 2.
- ✓ If the energy efficiency credit is elected, you remain in the EE/ PDR rider for the period of time that an exemption would have been in effect and may also participate in the AEP Ohio programs. However, during that period of time, you will not be allowed to elect the Option 2 exemption for any additional self-direct projects for the same account number.
- You are allowed and encouraged to consider using all or a portion of the energy credits, as received from AEP Ohio under this program, to help fund other energy efficiency and demand reduction projects you choose to initiate in the future. Future projects can also qualify for credits under the Prescriptive or Custom programs.



APPLICATION CHECKLIST

APPLICATION				
	Required Attachments Customer/Contractor Information Completed Energy Efficiency Credits Requested Section of Agreement and Signature Page Itemized Invoices Equipment Specifications Scope of Work			
	Worksheets Lighting HVAC Refrigeration Motors and VFD Custom			
Application Date:				
Completion Date:				
Project Incremental Cost				
*Incomplete applications will delay processing and energy efficiency credits. Please complete and submit forms for above checked boxes.				
Please fill out if this is a revised submittal				
	ORIGINAL SUBMITTAL DATE:			
	APPLICATION NUMBER (IF KNOWN):			

AEP Ohio Business Incentives Program for Energy Efficiency 2740 Airport Drive Suite 160 Columbus, OH 43219

> Phone: (877)-607-0739 Fax: (877)-607-0740 gridsmartohio@kema.com www.gridsmartohio.com



TERMS AND CONDITIONS

Columbus Southern Power and Ohio Power Company are collectively known as AEP Ohio (AEP Ohio). AEP Ohio is offering Prescriptive and Custom energy efficiency credits under the AEP Ohio Business Incentives Program for Energy Efficiency to credit the implementation of past cost-effective energy-efficiency improvements for non-residential (commercial and industrial) customers. AEP Ohio provides energy efficiency credits (EEC) for the purchase and installation of qualifying cost effective equipment in the customer's facility under the Terms and Conditions provided in this application and subject to regulatory approvals. Energy efficiency credits will only be provided in the form of a check or an Energy Efficiency/Peak Demand Reduction (EE/PDR) Rider exemption under this program.

All applications are subject to review and approval by AEP Ohio, its contractor(s)/agent(s), and the Public Utility Commission of Ohio (PUCO) prior to any EEC payments or exemptions from the EE/PDR rider in this program. Funds are limited and subject to availability.

Program Effective Dates

The AEP Ohio Business Incentives for Energy Efficiency program EEC are offered until approved funds are exhausted or Dec 31 of each program year, whichever comes first. The effective dates of Year 3 of the program and application submittal requirements are as follows:

- Self-direct projects are projects completed since 1/1/2008. Self-direct projects are eligible to apply for EEC with this
 application. Future projects that are not yet completed should apply on the Prescriptive/Custom application.
- All 2011 AEP Ohio Business Incentives for Energy Efficiency program Applications should be received no later than
 Oct 1st for any projects completed prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later.
 Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could
 jeopardize approval of any incentive. AEP Ohio reserves the right to extend or shorten this timeline.
- Subsequent program year plans will be made available toward the end of the existing program year. At the current time, AEP Ohio has a commitment to provide this program through the 2011 program year.

Program and Project Eligibility

The Self-Direct Program applies to customer facilities served by AEP Ohio's retail electric rates who meet the minimum energy usage requirements of 700,000 kWh per year or who are part of a national account involving multiple facilities in one or more states.

The AEP Ohio Business Incentives for Energy Efficiency program offers both Prescriptive energy efficiency credits for some of the more common energy efficiency measures and Custom energy efficiency credits for those eligible improvements not included on the list of Prescriptive measures. Program credits are available under the AEP Ohio Business Incentives for Energy Efficiency program to non-residential customers served at AEP Ohio's regulated retail rates, where qualifying projects are installed in a facility in AEP Ohio's electric service territory. These credits are available to all non residential customers who pay into the (EE/PDR) rider and receive their electricity over AEP Ohio wires, regardless of which retail electric supplier the customer has chosen to purchase power from.

Custom projects must involve measures that result in a reduction in electric energy usage due to an improvement in system efficiency. Projects that result in reduced energy consumption without an improvement in system efficiency are not eligible for a Custom credit. However, projects that involve an automated control technology such as energy management system programming may be eligible for a credit. All projects must meet AEP Ohio's cost-effectiveness requirements. The project simple payback prior to the credit must pass the utility cost effectiveness test(s) determined by AEP Ohio, to qualify for credit. Normally, most projects with a simple payback prior to the credit greater than one year and less than seven years generally pass the utility cost effectiveness test(s). The peak demand hours are defined as weekdays, non-holidays 3:00 PM to 6:00 PM, June through August.

Projects involving measures covered by the Prescriptive energy efficiency credit portion of the program are not eligible for a Custom energy efficiency credit. However, the applicant has the option to apply for a Custom energy efficiency credit for whole building integrated projects or systems even if they include Prescriptive measures.

The energy efficiency credits are calculated in the following Prescriptive or Custom worksheets.



TERMS AND CONDITIONS

Project requirements under the AEP Ohio Business Incentives Program for Energy Efficiency include the following:

- Projects must involve a facility improvement that results in a permanent reduction in electrical energy usage (kWh)
- Projects that are NOT eligible for a credit include the following:
 - Fuel switching (e.g. electric to gas or gas to electric)
 - Changes in operational and/or maintenance practices or simple control modifications not involving capital costs
 - Removal or termination of existing processes, facilities, and/or operations
 - On-site electricity generation
 - Projects involving gas-driven equipment in place of or to replace electric equipment (such as a chiller)
 - Projects focused primarily on power factor improvement;
 - Projects that involve peak-shifting (and not kWh savings)
 - Renewables
 - Are required by state or federal law, building or other codes, or are standard industry practice
 - Are easily reverted/removed or are installed entirely for reasons other than improving energy efficiency
 - Include other conditions to be determined by AEP Ohio.
- Any measures installed at a facility must produce <u>verifiable</u> and <u>persistent</u> energy reduction. Measures must be sustainable and provide 100% of the energy benefits as stated in the Application for a period of at least five (5) years or for the life of the product, whichever is less. If the Customer ceases to be a delivery service customer of AEP Ohio or removes the equipment or systems at any time during the 5-year period or the life of the product, the Customer may be required to return a prorated amount of credit funds to AEP Ohio.
- Customer can not apply for incentives for future projects and elect after the fact to apply for credits under this program.
- Confidential information contained in any documents associated with this application will be protected from public filings. However, this information may be disclosed to the Public Utilities Commission of Ohio for further review and approval.
- All equipment must be new. Used or rebuilt equipment is only eligible for energy efficiency credits if the energy efficiency rating of the used equipment is the same energy efficiency level of new equipment.
- · All installed equipment must meet state, federal, or local codes and requirements when applicable.
- Costs associated with internal labor are not eligible.
- Projects must be installed on the AEP Ohio electric account listed on the application
- Equipment must be purchased, installed, and operating (or capable of operating in the case of seasonal uses)
 prior to submitting an application for energy efficiency credits
- The energy efficiency credits are paid as a one-time, one-program offer and cannot be combined with incentive
 payments from other AEP Ohio programs. The customer may be eligible to participate in other programs offered
 by AEP Ohio, as long as no project receives more than one incentive/credit.

PROGRAM ENERGY	EFFICIENCY CREDITS
Energy efficiency credit levels for one-year	See tables for prescriptive credits
energy savings	Custom credits \$0.08/kWh x 75%
Minimum / Maximum simple payback before	Must pass cost effectiveness test(s)
energy efficiency credit applied	(determined by AEP Ohio)
energy emclericy credit applied	Generally 1 year Min / 7 year Max
Maximum payout	75% of 50% of the Incremental project cost
Waxiiiidiii payout	(additional caps may also apply)
Energy efficiency credit levels for projects	Calculated amount on the Prescriptive or Custom
completed since 1/1/2008	worksheets attached and subject to funding limits
Credit Limit	Calculated credits greater than \$160,000 per
	project are subject to a sliding scale credit tiering
	calculation.
Credit Calculation Order	Measure credit caps are applied first
	Project cost credit limits are applied second
	Credit tiering is applied third
	75% factor applied to credit last



TERMS AND CONDITIONS

Energy Efficiency Credit Limits

For both the Prescriptive and Custom measures in this application, the total energy efficiency credits shall be 75% of the lesser of: 1) The calculated credit as approved by AEP Ohio, or 2) 50% of the incremental project cost with larger projects subject to the following limits and credit reductions. In calculating the savings and energy efficiency credits for Custom measures, please contact the AEP Ohio Business Incentives for Energy Efficiency Program office to determine appropriate baseline for savings.

Funding is limited

- The limit for each self-direct project is \$225,000.
- The limit for each business entity (corporation, LLC, partnership, etc) in the Self-Direct Program is based on their tariff, as indicated below:

TARIFF	LIMIT PER BUSINESS ENTITY
General Service Tariffs 1, 2, & 3	\$450,000 per year
Any Other Tariff General Service	\$450,000 overall for years 2009-2011
Tariff 4	·

- A business entity with facilities in both categories can qualify for both limits. All facilities served in one category for a business entity are combined to determine the limit.
- Limits are utility-specific, so there is a separate limit for facilities served by Ohio Power and those served by Columbus Southern Power.
- A sliding scale credit reduction will be incorporated when the calculated energy efficiency credits exceed \$160,000 per project.

Application

Applications should be submitted by Oct 1st for any projects completed prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could jeopardize approval of any incentive. Project documentation, such as copies of dated invoices for the purchase and installation of the measures and/or product specification sheets, is required. AEP Ohio reserves the right to request additional backup information, supporting detail, calculations, manufacturer specification sheets or any other information prior to any credit payment.

The location or business name on the invoice must be consistent with the application information. Applications and all required supporting documentation should be received by November 15, 2011 to be applicable for the 2011 program year.

A signed application with documentation verifying installation of the project including, but not limited to, equipment, invoices, approvals, and other related information must be submitted to AEP Ohio prior to application approval.

The project invoice should provide sufficient detail to separate the incremental project cost from the cost of other services such as repairs and building code compliance. AEP Ohio reserves the right to request additional supporting documentation as deemed necessary to ensure measure eligibility and verify that the expected energy savings will occur. Confidential information contained in any documents associated with this application will be protected from public filings. However, this information may be disclosed to the Public Utilities Commission of Ohio for further review and approval. Requested information could include: equipment purchase dates, installation dates, proof that the equipment is operational, manufacturer specifications, warranty information, and proof of customer co-payment.

The customer understands and agrees that all other terms and conditions, as specified in the application, including all attachments and exhibits attached to this application, serves as a contract for the customer's commitment of energy resources to AEP Ohio, shall apply.



TERMS AND CONDITIONS

Application Review Process

AEP Ohio will review Applications for eligibility and completeness. Completed applications will be reviewed in the order received. Funds are reserved for the project when AEP Ohio receives a complete application and determines that the project meets the program eligibility requirements. Applicants who submit incomplete applications will be notified of deficiencies upon review of the application, and could lose their place in line in the review process until all requested information is received. Applications must be completed and all information received by the deadlines defined above to begin processing. Applicants are encouraged to call the program hotline if they have any questions about documentation requirements.

Inspections

AEP Ohio reserves the right to inspect all projects to verify compliance with the program rules and verify the accuracy of project documentation. This may include installation inspections, verification of detailed lighting layout descriptions, metering, data collection, interviews, and utility bill data analysis. The customer must allow access to project documents and the facility where the measures were installed for a period of five years after receipt of energy efficiency credits by AEP Ohio. Customer understands and agrees that Program installations may also be subject to inspections by the PUCO or their designee, and photographs of installation may be required.

Requirements for Custom Project Electricity Savings Calculation

The annual electricity savings must be calculated for Custom projects using industry accepted engineering algorithms or simulation models. The applicant must estimate the annual electricity usage of both the equipment removed (and baseline) and equipment installed based on the current operation of the facility. A listing of the pre-existing information requirements is provided at the end of the custom application section. If the previous equipment was at the end of its useful life, the applicant must use, as the baseline, the equipment that would meet the applicable federal and local energy codes unless an "as found" baseline is being used by the applicant. If the applicant is using an "as found" baseline, additional specific information on the pre-existing information must be provided.

The applicant must be able to clearly describe the method used to calculate the savings. The applicant must provide all assumptions used in the calculations and document the source for these assumptions. The method and assumptions used by the applicant to calculate the annual savings will be reviewed by AEP Ohio. AEP Ohio is solely responsible for the final determination of the annual energy savings to be used in calculating the energy efficiency credit amount. AEP Ohio also reserves the right to require specific measurement and verification activities including monitoring the retrofit and determining the credit. Verification of the preexisting consumption may also be required.

AEP Ohio may need to conduct inspections of projects to verify equipment and operation conditions. For Custom and "as-found" projects, the applicant is required to provide information in order to allow AEP Ohio to verify the baseline usage of the pre-existing equipment.. Customers are encouraged to submit projects that warrant special treatment (i.e., non-typical projects) to be considered on a case-by-case basis by AEP Ohio.

Tax Liability

Credits are taxable and, if more than \$600, will be reported to the IRS unless the customer is exempt. AEP Ohio is not responsible for any taxes that may be imposed on the Payee as a result of the receipt of the energy efficiency credits.

Disclaimer

AEP Ohio does not guarantee the energy savings and does not make any warranties associated with the measures eligible for energy efficiency credits under this program. AEP Ohio has no obligations regarding and does not endorse any claims, promises, work, or equipment made, performed, or furnished by any contractors or equipment vendors or manufacturers that sell or install any energy efficiency measures and does not endorse or guarantee same. AEP Ohio is not responsible for the proper disposal/recycling of any waste generated as a result of this project. AEP Ohio is not liable for any damage caused by the operation or malfunction of the installed equipment.



Important: Please read the terms and conditions before signing and submitting this application. You must complete all information and provide required additional documentation to avoid processing delays.

CUSTOMER INFORMATION						
Business Type (select of LARGE OFFICE SMALL OFFICE SCHOOL SMALL RETAIL/SERVICE		Tax Status (from WS ORPORATION (Inc., PC, Etc.) TAX EXEMPT INDIVIDUAL OTHER (may receive 1099)	How Did You Hear? AEP Account Representative Contractor Website Cother			
LARGE RETAIL/SERVICE HOTEL/MOTEL MEDICAL - Hospital MEDICAL - Nursing Home ASSEMBLY/MEETING PLACE RESTAURANT GROCERY CONDITIONED WAREHOUSE UNCONDITIONED WAREHOUSE INDUSTRIAL/MANUFACTURING COLLEGE/UNIVERSITY GOVERNMENT/MUNICIPAL OTHER/MISCELLANEOUS		Operating Da Seven days/week Five days/week Operating Ho One shift (8h /day) Two shifts (16h/day) Three shifts (24h/day) Building Operating Hours	3	Square F Affected Area S.F.	ootage	e
NAME OF APPLICANT'S BUSINESS			PROJECT NAME	(IF APPLICABLE)		
NAME AS IT APPEARS ON UTILITY B	ILL	AEP OHIO ACCT #*	APPLICANT TAX	PAYER ID # (SSN/FEDI	ERAL ID)	
MAILING ADDRESS			CITY		STATE	ZIP
INSTALLATION ADDRESS			CITY		STATE	ZIP
Please provide all contacts we may nee NAME OF CONTACT PERSON - Prefe	ed to proces		TITLE OF CONTA	ACT		
CONTACT PHONE #	EXT.	CONTACT FAX #	CONTACT EMAIL	L ADDRESS		
	CON	TRACTOR INF	ORMAT	ION		
NAME OF CONTRACTING COMPANY						
NAME OF CONTACT PERSON			TITLE OF CONT	ACT PERSON		
CONTACT PHONE #	EXT.	CONTACT FAX #	CONTACT EMAIL	L ADDRESS		
MAILING ADDRESS			CITY		STATE	ZIP
If there are questions about application who should we co		Customer		Contractor]	•
As an eligible customer, I verify the information is correct and request consideration for participation under this						
program. CUSTOMER SIGNATURE (AEP OHIO CUSTOMER)			PRINT NAME			
TOTAL INCENTIVE REQUESTED**			DATE			
COMPLETION DATE			PROJECT COST			

^{*} AEP Ohio Account Number where measure is installed

^{**} Incentive cannot exceed 50 percent of the total Incremental cost or other caps described in the Terms and Conditions.



SELF-DIRECT APPLICATION AGREEMENT

As an eligible AEP Ohio customer, I certify that the installation of the indicated energy efficiency measures, which will be demonstrated by the supporting documentation required by AEP Ohio. I certify that the work, was completed on this project on or after January 1, 2008. The energy efficiency measures are for use on-site and not for resale. I understand that project documentation, including copies of dated invoices for the purchase and installation of the measures and product specification sheets, is required. Further documentation requirements can be found at the program website www.gridsmartohio.com or by calling the program hotline.

I understand that the location or business name on the invoice must be consistent with the application information. Final Applications and all required supporting documentation should be received by Oct 1st for any projects completed prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could jeopardize approval of any incentive by the PUCO.

I agree to verification by the utility or their representatives of both sales transactions and equipment installation.

I understand that these energy efficiency credits are available to all eligible customers who pay the Energy Efficiency and Peak Demand Reduction (EE/PDR) rider and receive their electricity over AEP Ohio wires regardless of which retail electric supplier the customer has chosen to purchase power from.

I certify that the information on this application is true and correct, and that the Taxpayer ID Number and tax status is the applicant's. I understand that incentives over \$600 will be reported to the IRS unless the applicant is exempt. I understand that energy efficiency credits assume related energy benefits over a period of 5 years or for the life of the product, whichever is less.

I agree that if: I remove the related product(s) identified in my application before a period of 5 years or the end of the product life, whichever is less, I shall refund a prorated amount of energy efficiency credits to AEP Ohio based on the actual period of time in which the related product(s) were installed and operating. This is necessary to assure that the project's related energy benefits will be achieved.

I understand that the program may be modified or terminated without prior notice.

AEP Ohio reserves the right to refuse payment and participation if the customer or contractor violates Program rules and requirements. AEP Ohio is not liable for energy efficiency credits promised to customers as a result of misrepresentation of the Program.

Customer and customer's contractor shall be responsible to comply with any applicable codes or ordinances.

All submissions become the property of AEP Ohio. Keep a copy for your records.

I understand that the Application and all required documentation should be received by the AEP Ohio Business Incentives for Energy Efficiency program prior to Oct 1st for any projects completed prior to Jan 1, 2009, and Nov 15th for any projects completed Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2011 and could jeopardize approval of any incentive by the PUCO. All equipment must be fully operational.



SELF-DIRECT APPLICATION AGREEMENT

I understand that this project must involve a facility improvement that results in improved energy efficiency. I also understand that all materials removed, including lamps and PCB ballasts, must be permanently taken out of service and disposed of in accordance with local codes and ordinances. Equipment can not under any circumstances be resold for reuse. I understand it is my responsibility to be aware of any applicable codes or ordinances. Information about hazardous waste disposal can be found at: http://www.epa.gov/osw/hazwaste.htm.

AEP Ohio will pay 75% of the lesser of: 1) The calculated credit as approved by AEP Ohio subject to funding limits or 2) 50% of the incremental project cost (subject to application caps). I understand that AEP Ohio or their representatives have the right to ask for additional information at any time. AEP Ohio's Business Incentives Program for Energy Efficiency will make the final determination of energy efficiency credit levels for this project.

The program has a limited budget. Applications will be processed within the budget limits. Applications and all supporting documentation required should be received by November 15, 2011 to be eligible for funding under the current program period.

Customer understands and agrees that all other terms and conditions, as specified in the application, including all attachments and exhibits attached to this application which will serve as a contract for the Customer's commitment of energy and demand resources to AEP Ohio shall apply.

I understand that AEP Ohio does not guarantee the energy savings and does not make any warranties associated with the measures eligible for energy efficiency credits under this program, and, further, that AEP Ohio has no obligations regarding any claims, promises, work, or equipment made, performed, or furnished by any contractors or equipment vendors that sell or install any energy efficiency measures and does not endorse or guarantee same.

Energy efficiency credits will be based upon the final application and program terms and conditions, as well as the availability of funds.

Any and all energy savings generated by the project described in this application are hereby committed to AEP Ohio in order to count against its respective companies' benchmark requirements in S.B. 221.

ENERGY EFFICIENCY CREDITS REQUESTED

I have read and understand the program requirements and Measure Specifications and Terms and Conditions set forth in this application and agree to abide by those requirements. Furthermore, I concur that I must meet all eligibility criteria in order to be paid under this program.

ALL EQUIPMENT MUST BE INSTALLED AND OPERATIONAL. A CUSTOMER SIGNATURE IS REQUIRED FOR PAYMENT. SIGNED APPLICATIONS RECEIVED BY FAX OR EMAIL WILL BE TREATED THE SAME AS ORIGINAL APPLICATIONS RECEIVED BY MAIL. All submissions become the property of AEP Ohio. Keep a copy for your records.

TOTAL PROJECT COST		TOTAL ENERGY EFFICIENCY CREDITS REQUESTED		
CUSTOMER SIGNATURE (AEP CUSTOMER)				
PRINT NAME	DATE		ACTUAL COMPLETION DATE	

Attachment 6 Supporting Documentation Page 1 of 5

Name	Street Address	City	State
MOUNT VERNON CITY SCHOOLS	305 E PLEASANT ST	MOUNT VERNON	ОН
MOUNT VERNON CITY SCHOOLS	298 Martinsburg Road	MOUNT VERNON	ОН
MOUNT VERNON CITY SCHOOLS	300 Newark Road	MOUNT VERNON	ОН

6 Lamp Heavy Duty Industrial Fixture





Features

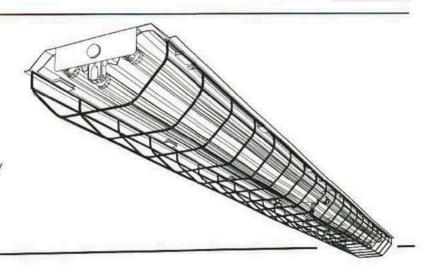
Combines the durability of a full steel body with the performance of a specular insert

Superior Light Quality, 92.5% Photometric Efficiency

Rigid, Four-Bend Press-Brake Formed Body

Optional wire guard kit

224 Watts (with high-lumen ballasts)



Technical Data

Housing: 20ga. (0.036") pre-painted steel die formed with sufficient knockouts for mounting and electrical supply.

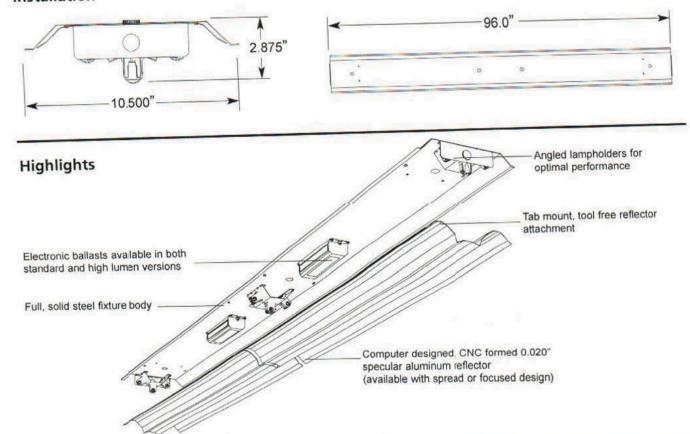
Finish: All cold rolled steel parts are painted with a smooth, glossy, highly reflective white paint.

Reflector: Can be ordered with a 95% specular, a 85% specular, or a 92% diffuse white enamel. (For maximum performance, 95% specular is recommended.) Substrate is 0.020" high quality aluminum. The reflector profile is optimized using computer analysis and manufactured using state of the art CNC equipment. A protective premask is applied to all reflective surfaces prior to manufacture.

Construction: The solid four-bend body provides added rigidity. The socket bars and endplates securely snap into place. The reflectors are attached to the fixture body with a tab lock system. No tools or additional fasteners are required for reflector installation and removal.

Mounting: Fixture can be surface, pendant, or chain suspended.

Installation





6 Lamp Heavy Duty Industrial Fixture



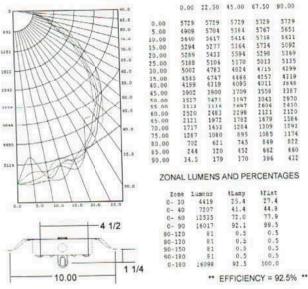
Photometrics



Energy Solutions international, inc. 1305 Mendota Heights Road Saint Paul, MN 55120

ENERGY SOLUTIONS 1 X 8 FLUORESCENT LUMINAIRE WITH WHITE INTERIOR, SPECULAR REFLECTORS AND NO LENS SIX LINEAR FLUORESCENT 32 WATT LAMPS, LUMEN RATING 2950 LMS TWO GE B3321277RHSC BALLAST OPERATING AT 120 VAC AND 218 WATTS

CANDLEPOWER SUMMARY



LUMINANCE SUMMARY - CD./SQ.M.

90 5439 4731 5439 5152 4906 4637 5419 4840 4511 3993 45 55 65 75 85 4188 3671 3189

PAINT REFLECTANCE = 0.78 S/MH = 1.49 SC (ALONG) = 1.27 SC (ACROSS) = 1.14

PREPARED IN PHOTOPIA FOR ENERGY SOLUTIONS ST. PAUL, MN

Case Study

250' x 40' x 25' Warehouse Space

Reflectances:

Ceiling 60 Walls 40 10 Floor

Power Strip Layout: 60 Fixtures



ESI HD Strip 1' x 8' (6) 32W FO32 T8 Lamps High Power Ballast (1.18) LDD: 1.12 1.37 watts/sq.foot UPS:

Illuminance: 73.4fc*

HID Layout: 60 Fixtures



HID High Bay Fixture (1) 400W Metal Halide

0.66 LDD:

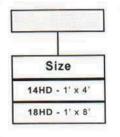
2.79 watts/sq.foot UPS: Illuminance: 80fc*

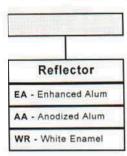
* Calculations made at 10,000hrs

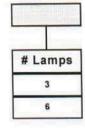
Ordering Information

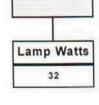
Part Number = Fixture Size + Reflector Material + # Lamps + Lamp Wattage + Voltage + Ballast Type + Options

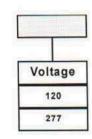
(Example 18HDEA632277H = 1'x8' Heavy Duty Strip with an enhanced aluminum reflector, 6-32W lamps, 277 volts, and a high power ballast)

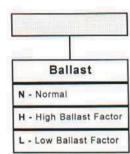












27621 - F32T8XL/SPX41ECO

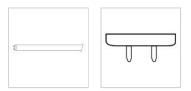
GE Ecolux® Starcoat® T8

- Passes TCLP, which can lower disposal costs.
- Provides significantly longer life than standard lamp helping to reduce maintenance costs

Photo Not Available

High Color Rendering





CAUTIONS & WARNINGS

Caution

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

Warning

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

GRAPHS & CHARTS

Graphs Spectral Power Distribution

GENERAL CHARACTERISTICS

Lamp Type Linear Fluorescent - Straight

Linear Bulb T8

 Base
 Medium Bi-Pin (G13)

 Rated Life
 40000.0 hrs

 Rated Life (instant start) @
 25000 h @ 3 h

 Time
 36000 h @ 12 h

Rated Life (rapid start) @ Time 40000.0 @ 3.0/45000.0 @

Bulb Material Soda lime
Starting Temperature (MIN) 10.0 K

LEED-EB MR Credit 26 picograms Hg per mean

lumen hour
Additional Info TCLP compliant

PHOTOMETRIC CHARACTERISTICS

Initial Lumens 2950.0
Mean Lumens 2800.0
Nominal Initial Lumens per Watt
Color Temperature 4100.0 K
Color Rendering Index (CRI) 85.0
S/P Ratio (Scotopic/Photopic 1.8

Ratio)

ELECTRICAL CHARACTERISTICS

Wattage 32.0 Voltage 137.0

Open Circuit Voltage (rapid 315 V @ 10 nV

start) Min @ Temperature

Current Crest Factor (MAX)

Cathode Resistance Ratio - Rh/ 4.25 Rc (MIN)
Cathode Resistance Ratio - Rh/ 6.5 Rc (MAX)

DIMENSIONS

Maximum Overall Length 47.7800 in(1213.6 mm)

1.7

(MOL)

 Minimum Overall Length
 47.6700 in(1210.8 mm)

 Nominal Length
 48.000 in(1219.2 mm)

 Bulb Diameter (DIA) (MIN)
 0.940 in(23.9 mm)

 Bulb Diameter (DIA) (MAX)
 1.100 in(27.9 mm)

 Bulb Diameter (DIA)
 1.000 in(25.4 mm)

 Max Base Face to Base Face
 47.220 in(1199.4 mm)

(A)

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 47.670 in(1210.8 mm)

Opposite Pin End (C)

PRODUCT INFORMATION

Product Code 27621

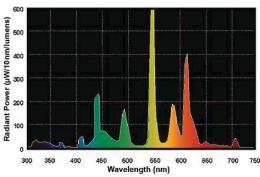
Description F32T8XL/SPX41ECO

ANSI Code 1005-2 Standard Package Case

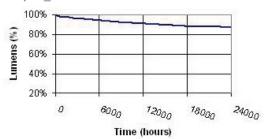
Standard Package GTIN 10043168276211

Package

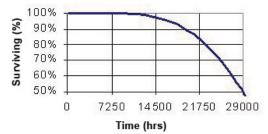
UPC 043168276214



Graphs_Lumen Maintenance



Graphs_Lamp Mortality



This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

3/12/2012 12:16:56 PM

in

Case No(s). 12-0858-EL-EEC

Summary: Application for Mount Vernon City Schools and Ohio Power Company for approval of a special arrangement agreement with a mercantile customer electronically filed by Mr. Yazen Alami on behalf of Ohio Power Company