

Legal Department

American Electric Power
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Columbus, OH 43215-2373
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April 11, 2013

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

Yazen Alami Regulatory Services (614) 716-2920 (P) (614) 716-2950 (F) yalami@aep.com

Re:	In the Matter of Kalida Local Schools)
	and Ohio Power Company for) Case No. 13-0798-EL-EEC
	Approval of a Special Arrangement)
	Agreement with a Mercantile Customer)

Dear Chairman Snitchler,

Attached please find the Joint Application of Ohio Power Company (OPCo) and mercantile customer Kalida Local 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 2013.

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 statute also enables the Commission to approve special arrangements for mercantile customers that commit EE/PDR 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 provided to the Commission Staff for filing in Commission Docket 10-1799-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	

Attachments



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

Case No.: 13-0798-**EL-EEC**

Mercantile Customer: KALIDA LOCAL 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. <u>10-834-EL-POR</u>

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

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

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

Section 1: Company Information

territory.

Name: KALIDA LOCAL SCHOOLS

Principal address: N. 4th Street, Kalida, OH 45853

Address of facility for which this energy efficiency program applies: 301 N 3rd St, Kalida, Oh 45853

Name and telephone number for responses to questions:

Mr. Don Horstman, Kalida Local Schools, (419) 532-3532

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

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

\text{See Confidential and Proprietary Attachment 4 - Calculation of Rider Exemption and UCT which provides the facility consumption for the last three years, benchmark kWh, and the last 12 months usage.

\[
\text{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

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, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)).	
		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): 8/1/2010	
		Behavioral or operational improvement.	
B)	Energy savings achieved/to be achieved by your energy efficiency program:		
	1\	If you should the feet to disclose that seem market to show the saids	

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:

Annual savings: kWh

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:

Unit Quantity (watts) = Existing (watts x units) - Installed (watts x units)

kWh Reduction (Annual Savings) = Unit Quantity x (Deemed kWh/Unit)

Annual savings: 36,995 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.

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

The less efficient new equipment is the minimum required by Ohio State code or Federal Standard whichever is more stringent. For those measures where no code applies the baseline equipment is assumed to be the least efficient equipment available in the marketplace or standard practice, whichever results in the most conservative annual savings. Any information available describing the less efficient new equipment option is provided in 10-1599-EL-EEC for the work papers that provide all methodologies, protocols, and practices used in this application for prescriptive measures.

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)::
	Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
	Potential peak-demand reduction (choose which 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.
В)	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.
,	What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):
	Unit Quantity (watts) = Existing (watts x units) – Installed (watts x units)
	KW Demand Reduction = Unit Quantity (watts) x (Deemed KW/Unit (watts))
	15.0 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 customer is applying for:		ner is applying for:	
	○ Option	on 1: A cash rebate reasonable arrangement.	
	OR		
		Option 2: An exemption from the cost recovery mechanism implemented by the electric utility.	
	OR		
	Com	mitment payment	
B)	The value	of the option that the customer is seeking is:	
	Option 1:	A cash rebate reasonable arrangement, which is the lesser of (show both amounts):	
		A cash rebate of \$ 5,343.50. (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.)	
		See <u>Confidential and Proprietary Attachment 5 – Self Direct 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 progran (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 di an	ne TRC value of the program is calculated by dividing the value of our roided supply costs (generation capacity, energy, and any transmission or stribution) by the sum of our program overhead and installation costs and by 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 (ir	e calculated the UCT value of our program by dividing the value of our roided supply costs (capacity and energy) by the costs to our electric utility acluding administrative costs and incentives paid or rider exemption costs) obtain our commitment.
	Our avoided supply costs were \$ 15,753.47
	The utility's program costs were \$ 221.97
	The utility's incentive costs/rebate costs were \$ 5,343.50.

Published April 3, 2013 -9-

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 <u>Attachment 2 Self Direct Program Project Blank Application</u> 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 <u>Proprietary Attachment 3 Self Direct Program Project Completed Application.</u>)
 - 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.: 13-0798-EL-EEC
State of <i>Ohio</i> :
Allan leany, 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
2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.
Signature of Affiant & Title
Sworn and subscribed before me this
Signature of official administering oath Print Name and Title
My commission expires on $1-13-206$



Angie Doan Notary Public, State of Ohio My Commission Expires 01-13-2016



3/21/2013

Date: ____

Attachment 1 Self Direct Project Overview & Commitment Page 1 of 1

Self Direct Project Overview & Commitment

The Public Utility Commission of Ohio (PUCO) will soon review your application for participation in AEP Ohio's Energy

below, sign and fax to 877-607-0740. Customer Name	Efficiency/Peak Demand Response program. Based on you	ar submitted project, please select by initialing	ng one of the two options
Rep-12-08695 Solid N SRD ST, KALIDA, OH 45853			
AEP-12-08695		KALIDA LOCAL SCHOOLS	
N. 4th Street, Kalida, OH 45853 Date Received 11/16/2012 Project Installation Date 81/12010 Annual kWh Reduction 36,995 Total Project Cost \$27,251.78 Unadjusted Energy Efficiency Credit (EEC) Calculation \$5,124.66 Simple Payback (vrs) 9.2 Utility Cost Test (UCT) 2.8 Please Choose One Option Below and Initial: \(\text{ONTION Total Project COST} \) S5,343.50 Initial: \(\text{Initial: CWO} \) N/A Months (After PUCO Approval) Initial: \(\text{Initial: CWO} \) Note: This is a one time selection. By selecting Option 1, the customer will receive payment in the amount stated above. Selection of Option 2 - EE/PDR Rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of Option 2: EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects? YES	Project Number		
N. 4th Street, Kalida, OH 45853 Date Received 11/16/2012 Project Installation Date 81/12010 Annual kWh Reduction 36,995 Total Project Cost \$27,251.78 Unadjusted Energy Efficiency Credit (EEC) Calculation \$5,124.66 Simple Payback (vrs) 9.2 Utility Cost Test (UCT) 2.8 Please Choose One Option Below and Initial: \(\text{ONTION Total Project COST} \) S5,343.50 Initial: \(\text{Initial: CWO} \) N/A Months (After PUCO Approval) Initial: \(\text{Initial: CWO} \) Note: This is a one time selection. By selecting Option 1, the customer will receive payment in the amount stated above. Selection of Option 2 - EE/PDR Rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of Option 2: EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects? YES	Customer Premise Address		
Date Received 11/16/2012 Project Installation Date 8/1/2010 Annual kWh Reduction 36,995 S27,251.78 Unadjusted Energy Efficiency Credit (EEC) Calculation \$7,124.66 Simple Payback (vrs) 9.2			
Royal Reduction 36,995 1504 Project Cost 157,124.66 157,124.60 157,12			
Annual kWh Reduction Total Project Cost Unditive Cost Test (UCT) Definition 1 - Self Direct EEC: 75% Standard Exemption N/A Months (After PUCO Approval) Initial: N/A Note: This is a one time selection. By selecting Option 1, the customer will receive payment in the amount stated above. Selection of Option EE/PDR rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of Option 2: EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects? Project Overview: The Self Direct (Prescriptive) project that the above has completed and applied is as follows. Installed (1) HVAC Chiller, York YLAA009HE, with an IPLV of 0.805. Occupancy Sensors installed - 37,792 watts controlled The documentation that was included with the application proved that the energy measures applied for were purchased and installed. By signing this document, the Mercantile customer affirms its intention to commit and integrate the above listed energy efficiency resources into the utility's peak demand reduction, demand response, and energy efficiency programs. By signing, the Mercantile customer also agrees to serve as a joint applicant in any filings necessary to secure approval of this arrangement by the Public Utilities Commission of Ohio, and comply with any information and compliance reporting requirements imposed by rule or as part of that approval.	Control of the Contro		
Section Sect			
Unadjusted Energy Efficiency Credit (EEC) Calculation Simple Pavback (vrs) 9.2			The state of the s
Utility Cost Test (UCT) Please Choose One Option Below and Initial: Option 1 - Self Direct EEC: 75% \$5,343.50 Initial: Composition 1 - Self Direct EEC: 75% \$5,343.50 Initial: Composition 2 - EE/PDR Rider Exemption N/A Months (After PUCO Approval) Initial: N/A			
Detion 1 - Self Direct EEC: 75% S5,343.50 Initial: WA Note: This is a one time selection. By selecting Option 1, the customer will receive payment in the amount stated above. Selection of Option 2: EE/PDR rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of Option 2: EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects? Project Overview: The Self Direct (Prescriptive) project that the above has completed and applied is as follows. Installed (1) HVAC Chiller, York YLAA009HE, with an IPLV of 0.805. Occupancy Sensors installed - 37,792 watts controlled The documentation that was included with the application proved that the energy measures applied for were purchased and installed. By signing this document, the Mercantile customer affirms its intention to commit and integrate the above listed energy efficiency resources into the utility's peak demand reduction, demand response, and energy efficiency programs. By signing, the Mercantile customer also agrees to serve as a joint applicant in any filings necessary to secure approval of this arrangement by the Public Utilities Commission of Ohio, and comply with any information and compliance reporting requirements imposed by rule or as part of that approval.			
Option 1 - Self Direct EEC: 75% \$5,343.50 Initial:			
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Option 2 - EE/PDR Rider Exemption N/A Months (After PUCO Approval) Initial: N/A Note: This is a one time selection. By selecting Option 1, the customer will receive payment in the amount stated above. Selection of Option is EE/PDR rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of Option 2: EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects? Project Overview: The Self Direct (Prescriptive) project that the above has completed and applied is as follows. Installed (1) HVAC Chiller, York YLAA009HE, with an IPLV of 0.805. Occupancy Sensors installed - 37,792 watts controlled The documentation that was included with the application proved that the energy measures applied for were purchased and installed. By signing this document, the Mercantile customer affirms its intention to commit and integrate the above listed energy efficiency resources into the utility's peak demand reduction, demand response, and energy efficiency programs. By signing, the Mercantile customer also agrees to serve as a joint applicant in any filings necessary to secure approval of this arrangement by the Public Utilities Commission of Ohio, and comply with any information and compliance reporting requirements imposed by rule or as part of that approval.		Please Choose	e One Option Below and Initial
Note: This is a one time selection. By selecting Option 1, the customer will receive payment in the amount stated above. Selection of Option 1 EE/PDR rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of Option 2: EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects? Project Overview: The Self Direct (Prescriptive) project that the above has completed and applied is as follows. Installed (1) HVAC Chiller, York YLAA009HE, with an IPLV of 0.805. Occupancy Sensors installed - 37,792 watts controlled The documentation that was included with the application proved that the energy measures applied for were purchased and installed. By signing this document, the Mercantile customer affirms its intention to commit and integrate the above listed energy efficiency resources into the utility's peak demand reduction, demand response, and energy efficiency programs. By signing, the Mercantile customer also agrees to serve as a joint applicant in any filings necessary to secure approval of this arrangement by the Public Utilities Commission of Ohio, and comply with any information and compliance reporting requirements imposed by rule or as part of that approval.	Option 1 - Self Direct EEC: 75%	\$5,343.50	Initial: CW
Note: This is a one time selection. By selecting Option 1, the customer will receive payment in the amount stated above. Selection of Option I EE/PDR rider exemption, will result in the customer not being eligible to participate in any other energy efficiency programs offered by AEP Ohio during the period of exemption. In addition, the term of Option 2: EE/PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO. If Option 1 has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects? YES NO Project Overview: The Self Direct (Prescriptive) project that the above has completed and applied is as follows. Installed (1) HVAC Chiller, York YLAA009HE, with an IPLV of 0.805. Occupancy Sensors installed - 37,792 watts controlled The documentation that was included with the application proved that the energy measures applied for were purchased and installed. By signing this document, the Mercantile customer affirms its intention to commit and integrate the above listed energy efficiency resources into the utility's peak demand reduction, demand response, and energy efficiency programs. By signing, the Mercantile customer also agrees to serve as a joint applicant in any filings necessary to secure approval of this arrangement by the Public Utilities Commission of Ohio, and comply with any information and compliance reporting requirements imposed by rule or as part of that approval.	Option 2 - EE/PDR Rider Exemption	N/A Months (After PUCO Approval)	Initial: N/A
Occupancy Sensors installed - 37,792 watts controlled The documentation that was included with the application proved that the energy measures applied for were purchased and installed. By signing this document, the Mercantile customer affirms its intention to commit and integrate the above listed energy efficiency resources into the utility's peak demand reduction, demand response, and energy efficiency programs. By signing, the Mercantile customer also agrees to serve as a joint applicant in any filings necessary to secure approval of this arrangement by the Public Utilities Commission of Ohio, and comply with any information and compliance reporting requirements imposed by rule or as part of that approval.	Project Overview: The Self Direct (Prescriptive) project that the above has co	mpleted and applied is as follows.	N /
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Ohio Power Company KALIDA LOCAL SCHOOLS	installed. By signing this document, the Mercantile customer affirms its into the utility's peak demand reduction, demand response, and e to serve as a joint applicant in any filings necessary to secure ap	ention to commit and integrate the above listed e nergy efficiency programs. By signing, the Merc proval of this arrangement by the Public Utilities	nergy efficiency resources cantile customer also agrees s Commission of Ohio, and
Z Z will	Ohio Power Company	KALIDA LOÇAL SCHOOLS	,



RETROFIT AND NEW CONSTRUCTION

Step 1: Check Project, Equipment, and Customer Eligibility

- Project must be a facility improvement that results in a permanent reduction in electrical energy usage (kWh).
- Measures applying for credits must have a minimum operating hours of 2,245 hours per year. Projects with annual energy (kWh) savings greater than the facility's annual energy (kWh) consumption will not be eligible.
- 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 installed. You may submit the application via mail, fax, or e-mail.

> Submit your application to: Email: gridsmartohio@kema.com

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

Visit our web site at oridsmartohio.com
Submit a completed application prior to November 16, 2012 for any projects completed on or after January 1, 2009. Any applications received after the dealines may not be submitted to the PUCO by December 31st, 2012 and could jeopardize approval of any credit. Complete the checklist page and attach the documentation listed: customer information page, a signed Final Payment Agreement 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 selfdirect 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 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 account(s) for a defined period of time as stated on this Application. For this exemption the Energy Efficiency Efficiency Credit amount (Option 1) is compared to the estimated value of the estimated EE/PDR 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.

If you are viewing this document in Microsoft Excel, please note that each section of the application is accessible through the tabs at the bottom of the Excel window. Highlighted cells are for inputting information.

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APPLICATION CHECKLIST

APPLICATION		
Required Attachments Customer/Contractor Information (Completed and Signed)		
Completed Forms for Energy Efficiency Credits Requested AND Signed Final Payment Agreement Page		
☐ Itemized Invoices ☐ Equipment Specifications ☐ Scope of Work ☐ W-9 (LLC, Individual, Partnership, Property Management Companies)		
Worksheets Lighting HVAC Refrigeration Motors and VFD Custom		
Application Date:		
Completion Date:		
Project Cost:		
*Incomplete applications will delay processing and energy efficiency credits. Please complete and submit forms for above checked boxes.		
r rease complete and submit forms for above oriented 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

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TERMS AND CONDITIONS

AEP Ohio is offering prescriptive and custom incentives under the AEP Ohio Business Incentives for Energy Efficiency program to offer 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.

Please note that funds are limited and subject to availability.

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

AEP Ohio Business Incentives for Energy Efficiency program EEC are offered until approved funds are exhausted or November 16th of each program year, whichever comes first. The effective dates of the current program year and application submittal requirements are as follows:

- Self-direct projects are projects completed since 1/1/2009. 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 2012 AEP Ohio Business Incentives for Energy Efficiency program Applications should be received no later than November 16, 2012. Any applications received after the deadlines may not be submitted to the PUCO by December 31st, 2012 and could jeopardize approval of any incentive. AEP Ohio reserves the right to extend or shorten this timeline.
- Subsequent program year budgets and plans will be made available towards the end of the existing program year.
 AEP Ohio currently has filed with the PUCO to offer this program through the 2014 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 credits for some of the more common energy efficiency measures and custom 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 include non-residential accounts served on AEP Ohio's regulated retail rates. Qualifying projects must be installed in a facility in AEP Ohio's electric service territory in Ohio. These credits are available to all non-residential customers who pay into the Energy Efficiency and Peak Demand Response (EE/PDR) rider and receive their electricity over AEP Ohio wires, regardless which retail electric supplier the customer has chosen to purchase power. A customer may neither apply for nor receive incentives for the same product, equipment or service from more than one utility.

Custom projects must involve measures, which 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. The project simple payback prior to the incentive payment generally should fall between 1 to 7 years, or pass cost effectiveness test(s) determined by AEP Ohio to qualify for an incentive. Incentives are calculated based on first-year energy savings and peak demand reduction. Peak demand reduction is defined as the reduction in average load over the Performance Hours by the replacement of existing electrical equipment with more efficient electrical equipment. Peak Performance Hours is defined as the time between June 1st and August 31st on weekday, non-holidays, between the hours 3:00 PM and 6:00 PM Eastern Time.

Projects involving measures covered by the prescriptive credit portion of the program are not eligible for a custom credit. However, the applicant has the option to apply for a custom incentive for whole building integrated projects or systems, even if they include prescriptive measures. The prescriptive elements may be capped at the deemed savings and/or incentive level.

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TERMS AND CONDITIONS

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

- Projects must involve a new 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 (Please visit www.gridsmartohio.com for Renewables Program)
 - 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
 - Renewables (Please visit www.gridsmartohio.com for Renewables Program)
- Any measures installed at a facility must produce verifiable and persistent energy reduction and 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 incentive funds to AEP Ohio.
- Customer cannot 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.
- Used or rebuilt equipment is generally NOT eligible for an incentive.
- All installed equipment must meet state, federal, and local codes and requirements.
- Costs associated with internal labor are not eligible.
- Projects must be installed on the AEP Ohio electric account in Ohio served by an eligible electric rate type listed on the application.
- Equipment must be purchased, installed, and operating (or capable of operating in the case of seasonal uses) prior to submitting a final application for an incentive.
- AEP Ohio will issue incentive payments in the form of checks, not utility bill credits.
- The incentive is 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.

PROGRAM ENERGY EFFICIENCY CREDITS		
Energy efficiency cerdit levels for one-year	See tables for prescriptive credits. Custom credits	
energy savings	\$0.08/kWh X 75%	
Minimum/Maximum simple payback before	Must pass cost effectiveness test(s) (determined by	
energy efficiency credit applied	AEP Ohio). Generally between 1-7 years.	
Maximum payout	75% of 50% of the total cost (additional measure	
	caps may apply)	
Energy efficiency credit levels for projects	calculated amount on the Prescriptive or Custom	
completed since 1/1/2009	worksheets attached and subject to funding limits	
Credit Limit	See Incentive Limits and Tiering section	
Credit Calculation Order	Measure credit caps are applied first. Project cost	
	credit limits are applied second. Credit tiering is	
	applied third. And 75% factor applied to credit last.	

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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% the lesser of: 1) The calculated credit as approved by AEP Ohio, or 2) 50% of Total Project Cost (not including internal labor cost). In calculating the savings and energy efficiency credits for Custom measures, please contact AEP Ohio Business Incentives for Energy Efficiency Program office to determine appropriate baseline for savings.

Incentive Limits and Tiering

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

TARIFF	LIMIT PER BUSINESS ENTITY
General Service Tariffs 1, 2, 3 & 4	\$900,000 per year

- 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.
- The total credit paid for any self direct application cannot exceed 50% of the total project cost (not including internal labor). In addition to the above project cost limit, credit payment rates vary when a customer's calculated credit exceeds the tiers listed below:
- Tier 1 \$0 \$100,000 = 100% of eligible calculated credit value
- Tier 2 \$100,001 \$300,000 = 50% of eligible calculated credit value
- Tier 3 \$300,001 \$500,000 = 25% of eligible calculated credit value
- Tier 4 \$500,001 Beyond = 10% of eligible calculated credit value

Application

Application should be submitted by November 16, 2012 for any projects completed or or after Jan 1, 2009 or later. Any applications received after the deadlines may not be submitted to the PUCO by November 16, 2012 and could jeopardize approval of any incentive. Project documentation, such as copies of dated invoices for the purchase and installation of the measure 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 to any credit payment.

The location or business name on the invoice must be consistent with the application information. Applications shall all required documentation should be received by November 16, 2012 to be applicable for the 2012 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 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 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.

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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 may 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 or monitoring data analyses. The customers are required to allow access to project documents and the facility where the measures were installed for a period of five years after receipt of incentive payment 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.

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 your business as a result of your receipt of payment. W-9 (for LLC, Individual, Partnership, Property Management Companies) must be provided along with all applications.

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 may estimate the annual electricity usage of both the existing and proposed equipment 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 sources for these assumptions. If no savings analysis is provided by the customer/contractors, AEP Ohio reserves the right to utilize their approved methodology and analysis to determine energy savings.

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 and peak demand reduction to be used in calculating the credit amount. AEP Ohio also reserves the right to require specific measurement and verification activities including monitoring the retrofit to 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 operating conditions. For custom and "as found" projects, the applicant is required to provide information in order to allow AEP Ohio ti verify the baseline usage of the pre-existing equipment. Customers are encouraged to submit projects that warrant special treatnebt (i.e., non-typical projects) to be considered on a case-by-case basis by AEP Ohio.

Disclaimer

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

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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.

Tod made complete all il	Hommation	and provide required addi	itioi	ar accamentation to avoia pro-	Jooding dol	ayo.
	CUS	STOMER INFO	OF	RMATION		
Business Type (select	one)	Tax Status (from W	VQ)	How Did You	Hear?	
LARGE OFFICE		ORPORATION (Inc., PC, Etc.)	-	AEP Account Representative		
SMALL OFFICE	H	Government Agency	H	Contractor	_	
SCHOOL	H	Individual	H	Distributor	_	
SMALL RETAIL/SERVICE	H	Partnership	H	Website	\dashv	
LARGE RETAIL/SERVICE	H	Exempt	H	Other	╡	
HOTEL/MOTEL		OTHER (may receive 1099)	ш			
MEDICAL - Hospital	Ħ	(),,		Operat	ing Days	5
MEDICAL - Nursing Home	Ħ			Seven days/week	7	
ASSEMBLY/MEETING PLACE	Ħ			Five days/week	_	
RESTAURANT	Ħ	Operating Ho	ou			
GROCERY	Ħ	Low Hours (<8h /day)	П	Square	Footage	Э
CONDITIONED WAREHOUSE	Ħ	One shift (8h /day)	Ħ	Affected Area S.F.		
UNCONDITIONED WAREHOUSE	Ħ	Two shifts (16h/day)	Ħ			
INDUSTRIAL/MANUFACTURING		Three shifts (24h/day)	П			
COLLEGE/UNIVERSITY		Building Operating Hours				
GOVERNMENT/MUNICIPAL		Equipment Operating Hours				
OTHER/MISCELLANEOUS						
NAME OF APPLICANT'S BUSINESS				PROJECT NAME (IF APPLICABLE)		
NAME AS IT APPEARS ON UTILITY E	BILL	AEP OHIO ACCT #*		APPLICANT TAXPAYER ID # (SSN/F	EDERAL ID)	
MAILING ADDRESS			1	CITY	STATE	ZIP
INCTALLATION ADDDESC				OITV	CTATE	ZID
INSTALLATION ADDRESS				CITY	STATE	ZIP
		CLICTOMED CO		NTACT		
		CUSTOMER CO				
Please provide all contacts we may ne etc	eea to proces	s for this project. The business o	conta	act snould be the project decision mak	er, the technic	cai contact,
NAME OF CONTACT PERSON - Pref	ferred Contac	ct for Documentation		TITLE OF CONTACT		
CONTACT PHONE #	EXT.	CONTACT FAX #		CONTACT EMAIL ADDRESS		
SOLUTION P	ROVI	DER/CONTR	A(CTOR INFORMA	TION	* *
NAME OF CONTRACTING COMPAN						
NAME OF CONTACT PERSON				TITLE OF CONTACT PERSON		
CONTACT BUILDING II		100NT40T 54V "		00117407514411 4555500		
CONTACT PHONE #	EXT.	CONTACT FAX #		CONTACT EMAIL ADDRESS		
MAILING ADDRESS				CITY	STATE	ZIP
WALLING ADDITEGO				OH	OTATE	Z11
If there are questions abou	ut the	• .				•
application who should we co	ontact?	Customer	Ш	Contractor		
As an aliminia acceptance !	alforth - 1: 1	annation is a series to		unat annoidemetter ferre d'	in atla :: ::	dan 4k !-
As an eligible customer, I ver	rify the inf	ormation is correct and	req	uest consideration for partic	ipation und	der this
program.		D)				
CUSTOMER SIGNATURE (AEP OHIC	CUSTOME	K)		PRINT NAME		
TOTAL INCENTIVE REQUESTED***				DATE		
TOTAL INCENTIVE REQUESTED				DATE		
ESTIMATED COMPLETION DATE				ESTIMATED PROJECT COST		

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

 $^{^{\}star\star} \ Solution \ Provider/Contractor \ - \ Party \ involved \ in \ the \ application \ submittal \ (i.e. \ specs, \ scope \ of \ work, \ etc.)$

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



SELF-DIRECT APPLICATION AGREEMENT

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 **November 16**, **2012 for projects** completed on or after January 1, 2009. Any applications received after the deadlines may not be submitted to the PUCO by December 31st, 2012 and could jeoparidize 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 credits are available to all non-residential customers who pay into the Energy Efficiency and Demand Response (EE/PDR) rider and receive their electricity over AEP Ohio wires regardless from which retail electric supplier the customer has chosen to purchase power.

I certify that the information on this application is true and correct, and that the Taxpayer ID Number, tax status, and W-9 are the applicant's.

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. It is recommended for you to keep to a copy for your records.

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. 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/epawaste/hazard/index.htm

I understand that the Application and all required documentation should be received by the AEP Ohio Business Incentives for Energy Efficiency program by November 16, 2012 for any projects completed on or after January 1, 2009. Any applications received after the deadlines may not be submitted to the PUCO by December 31, 2012 and could jeopardize approval of any credit by the PUCO. All equipment must be fully operational.

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 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 16, 2012 to be eligible for funding under the current program period.

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SELF-DIRECT APPLICATION AGREEMENT

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 measure 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 oder 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 EFFIC	EIENCY CREDITS REQUESTED*
CUSTOMER SIGNATURE (AEP OHIO CUSTOMER)			
PRINT NAME	DATE		ACTUAL COMPLETION DATE

^{*}AEP Ohio will pay the lesser of 1) The calculated credit as approved by AEP Ohio 2) 50% of the total project cost of the project.

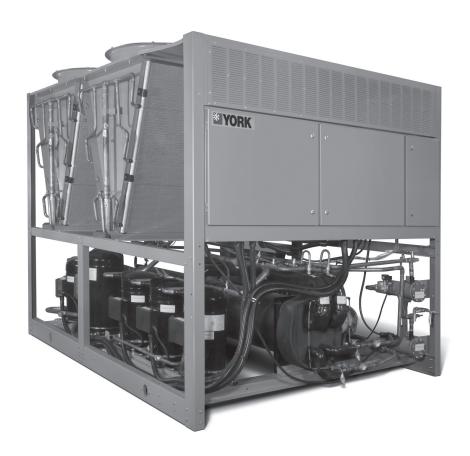
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Customer Name	ServiceAddress	ServiceCity	ServiceZip
KALIDA LOCAL SCHOOLS	200 N BROAD ST	KALIDA	45853
KALIDA LOCAL SCHOOLS	313 N BROAD ST	KALIDA	45853
KALIDA LOCAL SCHOOLS	301 N 3RD ST	KALIDA	45853
KALIDA LOCAL SCHOOLS	301 N 3RD ST REAR	KALIDA	45853-0269
KALIDA LOCAL SCHOOLS	301 N 3RD ST REAR	KALIDA	45853-0269

Form 150.62-EG3 (409)



BY JOHNSON CONTROLS



Model YLAA Air-Cooled Scroll Chillers Style A



70 – 175 TON 246 – 527 kW 60 Hz R-410A

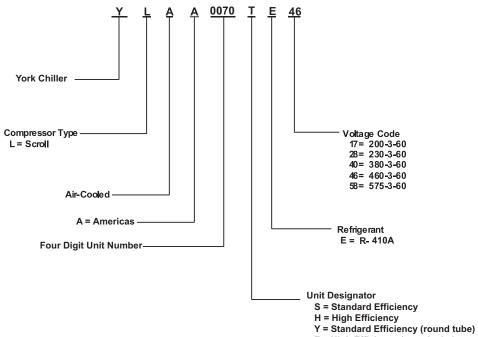


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Dual Pump Wiring	
Wiring	
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Application Data	
Cuido Canciliantiana	74

NOMENCLATURE

The model number denotes the following characteristics of the unit:



Z = High Efficiency (round tube)

FORM 150.62-EG3 (409)

Part Load Ratings - High Efficiency

	YLAA0091HE						
% DISPL	AMBIENT °F	TONS	COMP KW	EER			
100.0	95.0	88.2	88.2	10.8			
83.8	88.3	78.3	67.2	12.2			
50.0	70.0	51.5	31.2	14.9			
16.2	55.0	16.1	8.9	18.3			
IPLV: 14.9 EER							
Conve	rted to kW/t	on: 12/14.9	= 0.805				

VI	٨	۸	Λ4	Λ4	٠

% DISPL	AMBIENT °F	TONS	COMP KW	EER
100.0	95.0	98.5	106.1	10.2
86.1	89.4	89.2	82.3	11.6
57.0	75.3	66.1	44.3	14.6
43.0	65.7	50.5	31.5	16.6
13.9	55.0	16.1	9.0	18.1
		IPI V· 15 4 FFR		

YLAA0125HE						
% DISPL	AMBIENT °F	TONS	COMP KW	EER		
100.0	95.0	117.0	120.6	10.5		
75.0	83.9	95.3	77.6	12.6		
50.0	70.0	68.2	45.3	15.7		
25.0	55.0	33.0	22.1	16.7		

IPLV: 14.9 EER

YLAA0141HE							
% DISPL	AMBIENT °F	TONS	COMP KW	EER			
100.0	95.0	131.1	139.0	10.3			
77.7	86.3	112.0	93.0	12.6			
67.0	78.3	94.5	81.7	12.6			
44.7	65.4	66.5	46.2	15.6			
22.3	55.0	32.3	21.8	16.5			
		IDI V. 44 4 EED					

IDI	V٠	4 4	4	ᇚ

	YLAA0156HE							
% DISPL	AMBIENT °F	TONS	COMP KW	EER				
100.0	95.0	145.5	150.3	10.4				
80.0	87.1	126.4	106.8	12.3				
60.0	75.6	98.6	72.0	14.4				
40.0	64.2	70.9	41.0	16.7				
20.0	55.0	34.9	19.3	18.5				

IPLV: 15.5 EER

		YLAA0175HE		
% DISPL	AMBIENT °F	TONS	COMP KW	EER
100.0	95.0	174.2	190.0	10.1
83.3	88.2	154.4	142.4	11.6
66.7	80.6	132.5	100.3	13.6
50.0	70.4	102.9	66.7	15.4
33.3	59.6	71.5	38.3	16.6
16.7	55.0	35.1	18.6	17.8
		IPLV: 15.1 EER		_

JOHNSON CONTROLS 29

Kalida Local SD - New HS Addition AEP A/N: 076-699-993-0-7

Page 1 of 2

Room Area ID	Fixture Description	No of Light Fixtures	System Watts	Total Controlled Watts	No. of Occ Sensors
148	2LF28T8PS	6	50	300	1
149	3LF28T8PS	21	72	1512	1
106	3LF28T8PS	34	72	2448	2
143	2LF28T8PS	9	50	450	2
142b	2LF28T8PS	6	50	300	1
146a	3LF28T8PS	2	72	144	1
146b	3LF28T8PS	2	50	100	1
155	3LF28T8PS	12	72	864	1
156	3LF28T8PS	12	72	864	1
157	3LF28T8PS	12	72	864	1
162	3LF28T8PS	12	72	864	1
163	3LF28T8PS	12	72	864	1
150	3LF28T8PS	2	72	144	1
145	3LF28T8PS	2	72	144	1
153c	2LF28T8PS	21	50	1050	2
153b	2LF28T8PS	3	50	150	1
153a	2LF28T8PS	1	50	50	1
166a	2LF28T8PS	2	50	100	1
166b	3LF28T8PS	2	72	144	1
166	3LF28T8PS	16	72	1152	2
170	2LF28T8PS	2	50	100	1
168	2LF28T8PS	2	50	100	1
169	2LF28T8PS	2	50	100	1
153g	2LF28T8PS	1	50	50	1
171	3LF28T8PS	12	72	864	1
172	3LF28T8PS	4	72	288	1
174	3LF28T8PS	4	72	288	1
167	3LF28T8PS	12	72	864	1
153e	2LF28T8PS	2	50	100	1
153f	2LF28T8PS	1	50	50	1
165	3LF28T8PS	14	72	1008	1
165a	2LF28T8PS	1	50	50	1
164	3LF28T8PS	14	72	1008	1
160	3LF28T8PS	8	72	576	1
161	4LF28T8PS	1	95	95	1
158	2LF28T8PS	1	50	50	1
159	2LF28T8PS	1	50	50	1
153d	2LF28T8PS	1	50	50	1
154k	2LF28T8P\$	1	50	50	1
1541	3LF28T8PS	1	72	72	1

Kalida Local SD - New HS Addition AEP A/N: 076-699-993-0-7

Page 2 of 2

154j	3LF28T8PS	4	72	288	1
154h	3LF28T8PS	3	72	216	1
154q	3LF28T8PS	3	72	216	1
154a	F28 Twin Biax	11	56	616	1
154p	3LF28T8PS	3	72	216	1
154g	3LF28T8PS	8	72	576	1
154b	3LF28T8PS	5	72	360	1
154c	3LF28T8PS	2	72	144	1
154d	3LF28T8PS	4	72	288	1
154e	3LF28T8PS	2	72	144	1
154f	3LF28T8PS	2	72	144	1
154m	3LF28T8PS	2	72	144	1
154n	3LF28T8PS	1	72	72	1
207	3LF28T8PS	23	72	1656	2
210	2LF28T8PS	4	50	200	1
211	2LF28T8PS	4	50	200	1
214	3LF28T8PS	12	72	864	1
215	3LF28T8PS	12	72	864	1
220	3LF28T8PS	12	72	864	1
221	3LF28T8PS	12	72	864	1
221	3LF28T8PS	12	72	864	1
227	3LF28T8PS	12	72	864	1
228	3LF28T8PS	12	72	864	1
206e	2LF28T8PS	3	50	150	1
206b	2LF28T8PS	17	50	850	3
229	3LF28T8PS	12	72	864	1
226	3LF28T8PS	12	72	864	1
225	3LF28T8PS	12	72	864	1
222	2LF28T8PS	2	50	100	1
223	2LF28T8PS	6	50	300	1
206d	2LF28T8PS	1	50	50	1
218	4LF28T8PS	1	95	95	1
206c	3LF28T8PS	1	72	72	1
216	2LF28T8PS	1	50	50	1
217	2LF28T8PS	1	50	50	1
219	4LF28T8PS	7	95	665	1
212	4LF28T8PS	1	95	95	1
213a	3LF28T8PS	10	72	720	1
213b	3LF28T8PS	8	72	576	1
208	3LF28T8PS	12	72	864	1
209	3LF28T8PS	12	72	864	1
Total		558		37,942	88



OAC-P, MicroSet Passive Infrared Ceiling Sensor Low Voltage







PIR Activated

- MicroSet self-adjusting Time Delay and sensitivity
- · Optional built-in light level sensor
- Optional BAS/HVAC isolated relay
- NEMA WD7 Standard robotic method utilized to verify coverage patterns
- Selectable Walk Through Mode

Specifications:

Technology: Passive Infrared (PIR))
Power Requirements:

Input:

- 10-30 VDC from Greengate Switchpack or Greengate system.
- Maximum current needed is 25mA per sensor.

Output:

- Open collector output to switch up to ten Greengate Switchpacks.
- BAS with Isolated Form C Relay in (-R) model.
- Isolated Form C Relay Ratings: 1A 30 VDC/VAC.
 Time Delays: Self-adjustable, 15 seconds/test (10 min. Auto), or Selectable 5, 15, 30 minutes, or Zero Time Delay

Coverage: 500 and 1500 sq. ft.

Light Level Sensing (-R models): 0 to 300 foot-candles

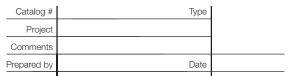
Operating Environment:

- Temperature: 32°F 104°F (0°C 40°C)
- Relative humidity: 20% to 90%, non-condensing
- For indoor use only

Housing: Durable, injection molded housing. Polycarbonate resin complies with UL 94V0. **Size:** 4.5"H x 1.42"W (114.3mm x 36.068mm) **LED lamp:** Red LED for Passive Infrared

Warranty: Five year

FCC Compliant cULus Listed RoHS Compliant cUlus RoHS





Overview

The MicroSet Passive Infrared Low Voltage Occupancy Sensing Ceiling Sensor is a motion sensing lighting control that is used for energy savings and convenience.

Technology

The sensor is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view and automatically switch lights ON. These sensors have multi-segmented lenses. For units to sense motion, the person must cross between two segments. The distance between segments increases the farther you are from the sensor, so motion has to be larger the farther you are from the unit. PIR sensors are considered Line-of sight sensors, meaning that the sensor must be able to have a direct Line-of-sight to the person making the motion. The sensor includes self-adaptive technology that continuously self-adjusts sensitivity and Time Delay in real-time, maximizing the potential energy savings that are available in the particular application. In Automatic ON Mode, the lights turn ON when a person enters the room. In Manual ON Mode (-R model only), the lights are turned ON by activating a momentary switch (model # GMDS-*) that is connected to the sensor. The MicroSet Passive Infrared Low Voltage Ceiling Sensor has an ambient light level sensor. When enabled, the daylighting feature (-R units only) prevents lights from turning ON when the room is adequately illuminated by natural light.

Applications

conference rooms common areas utility closets
open office areas break rooms
small private offices restrooms (non-partitioned)

Ordering

Catalog #	Recommended Room Size	Field of View	Features
OAC-P-0500-R	500 sq.ft.	360°	w/BAS Relay & Daylight Sensor
OAC-P-0500	500 sq.ft.	360°	
OAC-P-1500-R	1500 sq.ft.	360	w/BAS Relay & Daylight Sensor
OAC-P-1500	1500 sq.ft.	360°	

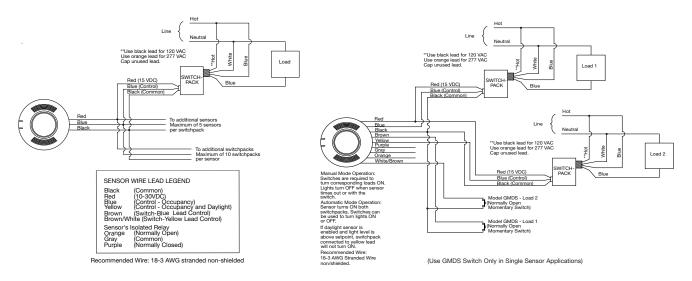
203 Cooper Circle Peachtree City, GA 30269 P: 800-553-3879 F: 800-954-7016



OAC-P, MicroSet PIR Low Voltage

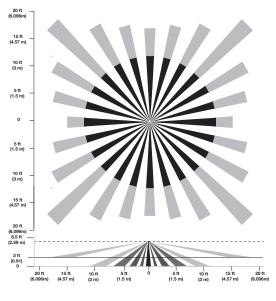
One Sensor, One Switchpack

Manual or Automatic-On Control of Two Standard Switchpacks



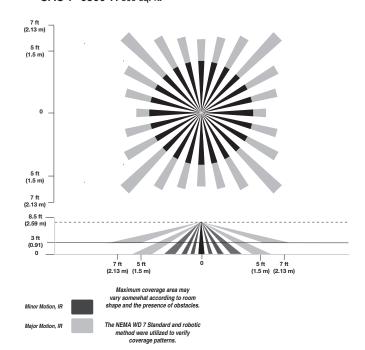
Coverage

OAC-P-1500-R 1500 sq. ft.



Recommended Mounting Height: 8 to 12 ft

OAC-P-0500-R 500 sq. ft.



Controls

DIP Switch Legend

	Time D	alou		Activ	otion		DID Cone	lels des	Walk-Throug	h Mada	LEDs		Overr	-1-	Swee		Full/Hal	f Logio	HVAC/Tra	okina	Zero Tim	o Dolos
	IIIIe L	relay	Relay		Relay 2	2	FIN Sells	sitivity	wank-miloug	II Woue	LEDS	-	Overr	iae	Swee	:p	Full/flai	LUGIC	HVAG/ II a	acking	Zeio iiiii	e Delay
DIP Switch	1	2	nelay	3	neiay 2	4		5		6		7		8		9		10	11		12	
Auto*	_	-	Auto	_	Auto	•	Full	~	Disable	•	Enable	•	Disable	_	Disable	•	Full	_	Disable	-	Disable	_
5 Minutes	•	_	Manual	_	Manual	•	50%	_	Enable	_	Disable	_	Enable	_	Enable	_	Half	_	Enable	_	Enable	_
15 Minutes	•	•	(-R model	only)	(-R model	only)					-						(-R mode	el only)	(-R mode	el only)		
30 Minutes	A	A	(,	(,			Daylight Sensor A	Adjustment							(,, o,	(oy,		
10 min. user mode Default =													PIR Detector									

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Catalog #

Reinforced lens is tamper-resistant

Type

OSW-P, Single & Dual Level 120/277V





- Exclusive Energy Savings Mode
- · Zero-crossing technology to maximize relay life and ensure wall switch longevity
- No minimum load requirement
- · Air-gap switch ensures no leakage current to load
- Manual OFF Pushbutton can be used in either mode
- NEMA WD7 Guide robotic method utilized to varify coverage patterns

Specifications:

Technology: Passive Infrared (PIR) Electrical Ratings: (per relay) 120 VAC:

Incandescent/Tungsten - Max. load: 6.7 amps, 800W, 60 Hz Fluorescent/Ballast - Max. load: 6.7 amps. Motor Load: 1/4HP @ 125 VAC

277 VAC:

Fluorescent/Ballast - Max. load: 4.3 amps, 1200W, 60 Hz Ballast Compatibility: Compatible with magnetic and electronic ballasts.

Time Delays: 15 sec. to 30 min.

Operating Environment:

- Temperature: 60°F 80°F (15°C 26°C)
- Relative humidity: Less than 95%, non-condensing
- For indoor use only

Housing: Durable, injection-molded housing. ABS resin complies with UL94VO.

Size:

- Mounting Plate Dimensions:
- 4.15"H X 1.94"W (10.54cm x 4.92cm)
- Product Housing Dimensions:

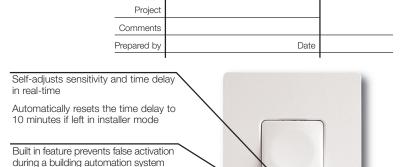
2.73"H X 1.8"W X 1.8"D (6.93cm x 4.57cm x 4.57cm)

Operating Modes:

- Automatic ON/Automatic OFF
- Manual ON/Automatic OFF

LED lamp: Red LED Warranty: Five vear

UL Listed c(VL)us



power on sweeps

Automatic ON mode provides maximum convenience

The OSW-P is a motion sensing lighting control and conventional wall switch all-in-one. This self-contained unit is offered in two versions: One switches a single circuit and the second has two relays and is commonly called a dual-level sensor. Wall switches are ideal for smaller spaces where you will not have obstructions of line-of-sight due to switch location, room orientation or furniture placement.

Operation

The OSW-P includes self-adapting technology that continually adjusts to conditions by adjusting sensitivity and time delay in real-time.

Single Circuit and Two Circuit/Dual-Level

In the Automatic ON Mode, the lights turn ON automatically when a person enters the room. In the Manual ON Mode, the lights are turned ON by pressing the touchplate at the top of the switch. In either mode, the lights will stay ON as long as the sensor detects motion in the room. When the room is vacated, the lights will turn OFF automatically after a preset time delay interval.

Two Circuit/Dual-Level

The OSW-P-0451-DMV allows the control of two separate loads with one switch. The Two Circuit operates the same in the Auto and Manual modes as the single circuit switch. To change light levels once the lights are ON, the user presses and holds the touchplate allowing the lights to cycle through in the following order: primary load only, both loads, secondary loads only. The Dual-Level also has an Energy Saver mode that ensures that the wall switch only activates one load. If both loads are on when the sensor times out, only the primary load will be activated. If only the primary or secondary load was on at time of shut out, the sensor will reactivate the load that was on at the time. If the lights were shut OFF manually, the switch will activate the primary load only.

Application

offices board room conference rooms utility rooms

Ordering

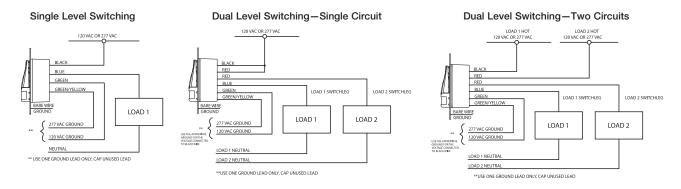
Catalog #	Ratings	Coverage	Shut-off Delay
OSW-P-0451-MV-* (*-W, V, A)	Incandescent: 0-800W @ 120V Fluorescent: 0-800W @ 120V Fluorescent: 0-1200W @ 277V	180°; 450 sq. ft. (41.80 sq. meters)	Adjustable 15 sec 30 min.
OSW-P-0451-DMV-* (*-W, V, A)	Incandescent: 0-800W @ 120V Fluorescent: 0-800W @ 120V Fluorescent: 0-1200W @ 277V		
* White, Ivory, Almond	Max Load/Relay		

P: 800-553-3879 Peachtree City, GA 30269 F: 800-954-7016

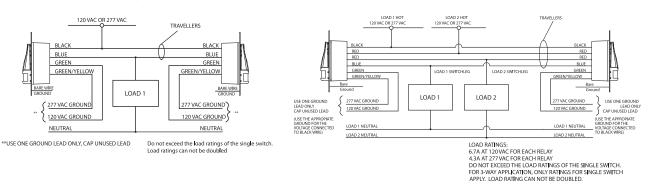


Occupancy Sensors - Wall Switch

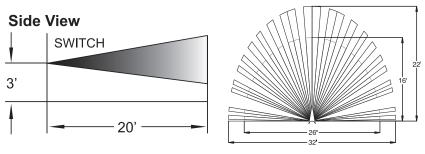
OSW-P, Single & Dual Level 120/277V



Three-way wiring diagram: Lights will turn-off automatically when sensor that detected motion last, times out.



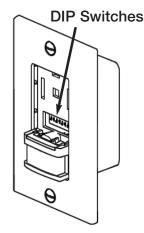
Coverage



The OSW-P series has a coverage range of 180°, a minor motion coverage area of approximately 300 sq. ft., and a maximum coverage area of approximately 450 sq. ft. Maximum coverage area may vary somewhat according to room shape and the presence of obstructions. Tape is provided which can be placed on the sensor lens to control the horizontal field of view on each side of the sensor.

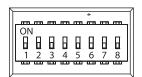
The NEMA WD 7 Guide and robotic method were utilized to verify coverage patterns.

Application



Time Delay	Switch Number						
(Minutes)	1	2	3	4			
0.25	-	-	-	-			
2	_	_	_	0			
4		-	0	-			
6	-	-	0	0			
8	-	0	-	-			
10	-	0 0 0	-	0			
12	_	0	00	-			
14	_	0	0	0			
16	0	-	-	-			
18	0 0 0	_	-	0			
20	0	-	0	-			
22	0	-	0	0			
24	0	0	-	-			
26	0	0	-	0			
28	0	0	0	_			
30	0	0	0	0			
0 = 0	N	- =	: OF	F			

	DIPSWITCH CONTROL LEGEND
Ì	1 - TIME DELAY
	2 - TIME DELAY
	3 - TIME DELAY
	4 - TIME DELAY
	5 - AUTO ON ▼/ MANUAL ON ▲ 6 - DISABLE SELF-ADJUST ▲
	6 - DISABLE SELF-ADJUST
	7 - ENERGY SAVER MODE ON
	DUAL LEVEL ONLY
	8 - OVERRIDE ON



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4/11/2013 10:16:59 AM

in

Case No(s). 13-0798-EL-EEC

Summary: Application of Kalida Local 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