AEP
AMERICAN ELECTRIC POWER

Legal Department

April 26, 2018

Chairman Asim Z. Haque
Public Utilities Commission of Ohio
180 East Broad Street
Columbus, OH 43215-3793

Re: **In the Matter of the Application of**	)	
BTMS Investments	)	
and Ohio Power Company	)	**Case No. 18-0043-EL-EEC**
for Approval of a Special Arrangement	)	
Agreement with a Mercantile Customer	)	

Julie E Sanders
Legal Fellow
Regulatory Services
(614) 716-2942 (T)
(614) 716-2950
jesanders2@aep.com

Dear Chairman Haque,

Attached please find the Joint Application of Ohio Power Company (AEP Ohio) and the above-referenced mercantile customer 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 2018 (hereinafter "Joint Application").

Amended Substitute Senate Bill 221, codified at R.C. 4928.66, sets forth EE/PDR benchmarks that electric distribution utilities are 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. The attached Joint Application and affidavit conforms with AEP Ohio's version of the streamlined sample application. As requested by Commission Staff, any confidential information referenced in the Joint Application has been provided confidentially to Commission Staff for filing in Commission Docket 10-1599-EL-EEC and subject to the confidentially protections of R.C. 4901.16 and OAC 4901-1-24(E). AEP Ohio respectfully requests that the Commission treat the two cases as associated dockets and that any confidential information provided to Staff for filing in connection with the Joint Application be subject to the protective order requested in Docket 10-1599-EL-EEC.

Cordially,

/s/ Julie E. Sanders
Julie E.Sanders

Attachments

Ohio | Public Utilities Commission

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

Case No.: 18-0043-**EL-EEC**

Mercantile Customer: BTMS INVESTMENTS

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 ee-pdr@puc.state.oh.us.

Section 1: Company Information

Name: BTMS INVESTMENTS

Principal address: 505 E Jefferson St, Bluffton, Oh 45817

Address of facility for which this energy efficiency program applies: 505 E Jefferson St, Bluffton, Oh 45817-1349

Name and telephone number for responses to questions:

Gene Heitmeyer, Btms Investments, (419) 358-0129

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 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.

☐ 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

The application to participate in the electric utility energy efficiency program is "Confidential and Proprietary Attachment 3 – Self Direct Program Project Completed 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, 8/9/2016 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) Energy 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:

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

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

Annual savings: 11,535 kWh

See Confidential and Proprietary Attachment 5 – Self Direct Program Project Calculation for annual energy savings calculations 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.

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) 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))

.1 kW

See Confidential and Proprietary Attachment 5 – Self Direct Program Project Calculation for peak demand reduction 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.

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

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

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

A) The customer is applying for:

☒ Option 1: A cash rebate reasonable arrangement.

OR

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

OR

☐ Commitment payment

B) 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 $ 637.18. (Attach documentation and calculations showing how this payment amount was determined.)

See Confidential and Proprietary Attachment 5 – Self Direct Program Project Calculation 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 is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

☐ Total Resource Cost (TRC) Test. The calculated TRC value is: _____ (Continue to Subsection 1, then skip Subsection 2)

☒ Utility Cost Test (UCT) . The calculated UCT value is: 4.02 (Skip to Subsection 2.)

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

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

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The utility's incremental measure costs were _____.

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

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

Our avoided supply costs were $ 2,840.91

The utility's program costs were $ 69.21

The utility's incentive costs/rebate costs were $ 637.18.

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 Attachment 1 - Self Direct Project Overview and Commitment for a description of the project. See Attachment 6 – Supporting Documentation, for the specifications of the replacement equipment 10-1599-EL-EEC 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 Attachment 2 – Self Direct Program Blank Application 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 Confidential and Proprietary Attachment 3 – Self Direct Program Project Completed Application.

5) a commitment by you to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.

   See Attachment 1 - Self Direct Project Overview and Commitment 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.

Ohio | Public Utilities Commission

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

Case No.: 18-0043-EL-EEC

State of Ohio :

Allan Leamy, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

   DNV GL Energy Services USA 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.

Allan Leamy EE ENGINEER
Signature of ~~Affiant~~ & Title

Sworn and subscribed before me this 16th day of March, 2018 Month/Year

Dawn M. Irving
Signature of official administering oath

Dawn S. Irving / Notary
Print Name and Title

My commission expires on 9-3-2019

NOTARIAL SEAL STATE OF OHIO

DAWN G IRVING
NOTARY PUBLIC
STATE OF OHIO
Comm. Expires
September 03, 2019

AEP OHIO
A unit of American Electric Power

Self Direct Project Overview & Commitment

The Public Utility Commission of Ohio (PUCO) will soon review your application for participation in AEP Ohio's Energy Efficiency/Peak Demand Response program. Based on your submitted project, please select by initialing one of the two options below, sign and fax to 877-607-0740.

Customer Name	BTMS INVESTMENTS		
Project Number	AEP-17-21827		
Customer Premise Address	505 E JEFFERSON ST, BLUFFTON, OH 45817-1349		
Customer Mailing Address	505 E Jefferson St, Bluffton, OH 45817		
Date Received	10/23/2017		
Project Installation Date	8/9/2016		
Annual kWh Reduction	11,535		
Total Project Cost	$3,490.12		
Unadjusted Energy Efficiency Credit (EEC) Calculation	$849.57		
Simple Payback (yrs)	3.4		
Utility Cost Test (UCT) for EEC	4.02		
Utility Cost Test (UCT) for Exemption	0.03		
		Please Choose One Option Below and Initial	
Self Direct EEC: 75%	$637.18	[X]	Initial: GL.
EE/PDR Rider Exemption	11 Months (After PUCO Approval)	[ ]	Initial:

Note: *This is a one time selection. By selecting EEC, the customer will receive payment in the amount stated above. Selection of 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 EE PDR rider exemption is subject to ongoing review for compliance and could be changed by the PUCO.*

If EEC has been selected, will the Energy Efficiency Funds selected help you move forward with other energy efficiency projects? X YES ___ NO

Note: Exemptions for periods beyond 24 months are subject to [illegible] true up adjustments every year to ensure that the exemption accurately reflects the EEDR savings. Applicants must file for renewal for any exemption beyond 12 months.

Project Overview:

The Self Direct (Prescriptive and Custom) project that the above has completed and applied is as follows.
Retrofitted (5) 400w MH into (5) TWH-LED 30C
Retrofitted (3) 250w MH into (3) TWH-LED 20C
Retrofitted (2) Inc exit into (2) LED exit
TWH-LED 30C w/ Photocell
TWH-LED 20C w/ Photocell
(6) 4F32T8 w/ Occupancy sensor

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.

Ohio Power Company

Title: Manager

Date: 1/4/2017

BTMS INVESTMENTS

By: Gene Bertmoyer

Title: Gen. Mgr.

Date: 1-3-18

SIGN HERE

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APPLICATION GUIDELINES

All 2017 AEP Ohio Business Incentives Program projects must be completed and Final Applications received no later than November 10, 2017, in order to qualify for incentives identified in this application.

Step 1: Verify Eligibility

- ✓ Customer must have a valid AEP Ohio account.
- ✓ Equipment/measure must be installed at facilities served by the AEP Ohio account.
- ✓ Project must produce permanent reduction in electrical energy use (kWh).
- ✓ All installed equipment must meet or exceed the specifications in the application.
- ✓ **Please see the Terms and Conditions for Self-Direct or**
- ✓ **Terms and Conditions for all other programs for program eligibility and requirements.**

Step 2: Complete Applicant Information

- ✓ All fields in customer and project information sections must be completed.
- ✓ Solution Provider/contractor information must be completed if project is not self-performed.

Step 3: Complete the Incentive Worksheet(s)

- ✓ Find and read specifications related to the project.
- ✓ Ensure new equipment/measure meets or exceeds the specifications.
- ✓ Choose the incentive category on the worksheet based on the installed equipment and specifications.
- ✓ Complete all fields (fixture description, operating hours, etc.) on the related worksheet.

Step 4: Sign Customer Agreement

- ✓ Read the Terms and Conditions before signing and submitting the application.
- ✓ Sign Pre-Approval Agreement and submit the application to reserve funds.
- ✓ Sign Final Application Agreement and submit the application after the project is completed.
- ✓ Complete Third Party Payment Release Authorization ONLY if incentive payment is to be paid to an entity other than AEP Ohio customer listed on the Applicant Information page.

Step 5: Submit Pre-Approval Application[1]

(For Self-Direct applications, skip to Step 7)

- ✓ Submitting a Pre-Approval Application to determine qualification and reserve program funds for a project is strongly recommended.
- ✓ All Process Efficiency measures require pre-approval.
- ✓ Complete all fields for Pre-Approval Agreement section.
- ✓ **Pre-Approval Application must be submitted with:**
  - **Proposed scope of work (type and quantity of old and new equipment must be listed)**
  - **Specification sheets for all proposed equipment**
  - **W-9 form**
- ✓ Submit application via email, fax or mail.
- ✓ During the application review, an inspection may be required; the team will contact applicants requiring an inspection for scheduling.

Step 6: Complete Project

- ✓ New equipment must be installed and operational to submit a Final Application.

Step 7: Submit Final Application

- ✓ Submit a Final Application.
- ✓ Use the same application used during pre-approval (if applicable).
  - Change Application Type to Final Application
- ✓ Complete all fields for Final Application Agreement section.
- ✓ Update the application if there are any changes (customer contact, incentive measure, equipment, etc.).
- ✓ **Final Application must be submitted with:**
  - **Dated and itemized material invoice**
  - **External labor invoice (if applicable)**
  - **If Pre-Approval Application was not submitted, include the documents listed on Step 5**
- ✓ Submit application via email, fax or mail.
- ✓ During the application review, an inspection may be required; the team will contact applicants requiring an inspection for scheduling.

Additional steps are required for Self-Direct applications after application submission. Please see the Self-Direct Terms and Conditions for details.

AEP Ohio Business Incentives Program
445 Hutchinson Avenue, Suite 300
Columbus, Ohio 43235
877-541-3048 | aepohiosolutions@clearesult.com
Visit our website at AEPohio.com/solutions

[1]A Pre-Approval Application is not a guarantee of an incentive; the actual incentive will be based on the energy savings and equipment installed as determined in the Final Application. Funds are reserved for 90 days, unless an applicant is granted an extension. The program team reserves the right to contact the customer before the reservation expiration date to ensure that the project is moving forward. If the project is not underway, the reservation may be cancelled. Reserved funds are not transferable to other projects, facilities and/or customers. A waiting list will be established when funds become fully subscribed.

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CHECKLIST OF REQUIRED ATTACHMENTS

PRE-APPROVAL

- ☐ Completed Applicant Information Form
- ☐ Estimated Total Project Cost
- ☐ Estimated Completion Date
- ☐ Completed Incentives Requested Section of Application
- ☐ Applicable Incentive Worksheets
- ☐ Completed Third-Party Payment Release Authorization Section with W9 (optional)
- ☐ Signed Customer Agreement Form
- ☐ Equipment Speci ications
- ☐ Proposed Scope of Work
- ☐ W-9 (Customer's W-9 or 3rd party W-9, if applicable)

FINAL APPLICATION ONLY (NO PRE APP SUBMITTED)

- ☐ Completed Applicant Information Form
- ☐ Completed Incentives Requested Section of Application
- ☐ Applicable Incentive Worksheets
- ☐ Total Project Cost
- ☐ Completion date
- ☐ Completed and Signed Final Payment Agreement and Customer Agreement Forms
- ☐ Completed Third-Party Payment Release Authorization Section with W9 (optional))
- ☐ Itemized Invoices
- ☐ Equipment Speci ications
- ☐ Scope of Work
- ☐ W-9 (Customer's W-9 or 3rd party W-9, if applicable)

FINAL APPLICATION (IF PRE APP HAS BEEN SUBMITTED)

- ☐ Completed Applicant Information Form (optional)
- ☐ Assigned Project Number on Signature Page
- ☐ Total Project Cost
- ☐ Project Completion Date
- ☐ Completed and Signed Final Payment Agreement and Customer Agreement Forms
- ☐ Completed Third-Party Payment Release Authorization Section (optional)
- ☐ Itemized Invoices
- ☐ Updated Scope of Work (if there were changes from pre)
- ☐ Applicable Incentive Worksheets (if there were changes from pre)

AEP Ohio Business Incentives Program
445 Hutchinson Avenue, Suite 300
Columbus, Ohio 43235
877-541-3048 | aepohiosolutions@clearesult.com
Visit our website at AEPohio.com/solutions

Revised Submittal
Please complete below if this is a revised submittal.

Submittal date_____

AEP Project Number (if known) AEP - _ _ - _ _ _ _ _

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APPLICANT INFORMATION

AEP Application Number AEP - _ _ - _ _ _ _ _

Application Type (Select One)

Customer Information

Business Name _____

Name as It Appears on Utility Bill _____

AEP Ohio Account Number* at Project Site _____ Multiple AEP Ohio Account Numbers for this Project? (Select O

Taxpayer ID _____ - _____ W-9 Tax Status (Select One)

Contact Name _____ Contact Title _____

Mailing Address - where check will be sent

Mailing Address _____ City _____ State OH Zip _____

Phone _____ Ext. _____ Contact Email _____

How Did You Hear About the Program? (Select One) _____ AEP OH Energy Advisor _____

Project Information

Project Name (if applicable) _____

☐ Check if mailing address and project site address are the same.

Project Site Address _____ City _____ State OH Zip _____

Building Type (Select One) _____ Shift (Select One) _____

Annual Operating Hours _____ Building Area (sq. ft.) _____

Construction Type (Select One)

Does the facility have a data center? (Select One)

*Please only enter the first eleven digits of the account number.

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APPLICANT INFORMATION

Solution Provider/Contractor Information (If project is not self-performed by customer)

Contracting Company Name _____

Contact Name _____ Title of Contact _____

Mailing Address _____ City _____ State OH Zip _____

Phone _____ Ext. _____ Contact Email _____

Who should we contact with questions about the application? ❒ Customer ❒ Contractor

Primary Contact Information

Contact Name _____ Title of Contact _____

Phone _____ Ext. _____ Contact Email _____

INCENTIVE SUMMARY TABLE (THIS TABLE SELF-POPULATES FROM WORKSHEETS)

Incentive Category	Applied for Incentives	Applicable Self- Direct Incentives
Lighting		
HVAC		
Motors		
Motor Rewind		
Drives		
Compressed Air		
Refrigeration/Food Service		
Agriculture		
Miscellaneous		
Process Efficiency		
NC Lighting (SD Only)		
Total		

AEP Application Number AEP - _ _ - _ _ _ _ _

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CUSTOMER AGREEMENT

Application Agreement

By signing this document, I agree to program requirements outlined in the measure specifications, Terms and Conditions for the applicable program and Final Application Agreement. As an eligible customer, I verify the information is correct and request consideration for participation under this program. Furthermore, I concur that I meet all eligibility criteria in order to receive payment under this program.

Link to Efficient Products for Business/Process Efficiency Terms and Conditions, and Final Application Agreement
Link to Self-Direct Terms and Conditions, and Final Application Agreement

Pre-Application **Final-Application**

Project Completion Year (Select One) _____ **Self-Direct** _____

Project Completion Date _____ **Total Project Cost** _____

Date _____ **Total Applied for Incentive** _____

Total Requested Incentive[1] _____ **Total Self-Direct Requested Incentive**[2] _____

Print Name **AEP Ohio Customer Signature**

_____ _____

Third Party Payment Release Authorization (Optional, NOT APPLICABLE TO Self-Direct)

Complete this section ONLY if incentive payment is to be paid to an entity other than the AEP Ohio customer.

Make checks payable to: Company/Individual _____

Mailing Address _____ City _____ State OH Zip _____

Phone _____ Ext. _____

Taxpayer ID of 3rd Party _____ - _____ W-9 Tax Status _____

By signing this document, I authorize the payment of the incentive to the third party named above and understand that I will not receive the incentive payment from AEP Ohio. I also understand that my release of the payment to a third party does not exempt me from the program requirements outlined in the measure specifications, Terms and Conditions, and Final Application Agreement.

Print Name **Date** **Customer Signature (AEP Ohio Customer)**

_____ _____ _____

SUBMIT VIA EMAIL **PRINT APPLICATION**

[1]Incentives have a threshold of 50% of the project cost and total incentives paid to a threshold of $25,000 and Bid4Efficiency above that.
[2]Self-Direct incentives are 75% of Total Requested Incentive, after 50% of the project cost threshold and tiering is applied.

LITHONIA LIGHTING®

Contractor Select

LED Exit/Unit Combos

FEATURES & SPECIFICATIONS

INTENDED USE

Combination emergency lighting unit and exit. Suitable for illuminating the path of egress and for marking the means of egress in accordance with Life Safety Code NFPA 101.

CONSTRUCTION

Injection-molded, flame-retardant, high-impact, thermoplastic housing with snap-fit design components for easy installation. Universal J-box pattern. Universal chevrons are easily removed for directional indication. Fully assembled single face with extra faceplate for easy field-conversion to double face. Track and swivel arrangement permits full range of lamp adjustment.

Letters 6" high with 3/4" stroke, with 100 ft viewing distance rating, based on UL924 standards.

OPTICS

The typical life of the LED lamp is 10 years. Two 1W LED lamps for emergency light.

ELECTRICAL

Dual-voltage input 120V or 277V AC; 9.6V output. Emergency combo provided with test switch, status indicator and rechargeable battery. Maintenance-free nickel-cadmium battery provides 90 minutes of emergency power. High output (HO) option provides up to 3W of LED remote capacity.

INSTALLATION

Top, back or end mounting capability (canopy included).

LISTINGS

UL Listed. Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards. Indoor damp location 32°F to 122°F (0°C to 50°C) listed standard.

WARRANTY

2-year limited warranty (Battery is prorated.). Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

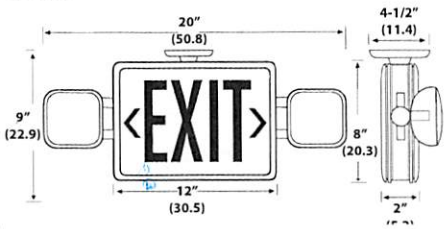
All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25°C.
Specifications subject to change without notice.

LED

ECR LED

LED Combo



All dimensions are inches (centimeters).
Shipping weight: 3.6 lbs. (1.6 kgs.).

ORDERING INFORMATION

Catalog Number	UPC	Description	Supply Voltage	Input Wattage	Pallet Qty.	Standard Carton Qty.
ECR LED M6	784231874516	Red	120/277	3.8	108	6
ECG LED M6	784231874592	Green	120/277	3.2	108	6
ECR LED HO M6	784231874561	Red, high output	120/277	3.8	108	6
ECG LED HO M6	784231874615	Green, high output	120/277	3.2	108	6

Accessories: *Order as separate catalog number.*

ELA WG3	Wireguard (back mount only)[1]
ELA LED M12	Single remote lamp[2,3]
ELA LED T M12	Double remote lamp[2,3]
ELA LED WP M12	Single, weather-proof remote lamp[2,3]
ELA LED T WP M12	Double, weather-proof remote lamp[2,3]

Notes

1. See spec sheet ELA-WG.
2. See spec sheet LED-Remote Lamps.
3. Only available with HO option.

Cataleg Number | Date | Project

OVERVIEW

The WSD is a stylish, easy to install, and simple to use Wall Switch Decorator style Passive Infrared (PIR) sensor. It is ideal for private offices, copy rooms, closets, or any small enclosed space without obstructions. A user programmable time delay ensures that once the room is vacated the sensor will time out and turn off the lights. Additionally, the WSD sensor has several On Modes and Switch Modes that can be programmed using the front push-button. For rooms with obstructions, the Dual Technology WSD PDT Series sensor is recommended. Additionally, all WSD Family sensors have a patent-pending wiring method that enables them to function either with or without a neutral connection. WSD units come pre-configured for wiring without a neutral; however, if connection to neutral is required by code, contractors can convert the unit in seconds.

FEATURES

- Compatible w/LEDs, electronic & magnetic ballasts, CFLs, & incandescents
- 100% passive detection, no potential for interference with other building systems
- Small motion detection to 20 ft
- Push-button programmable without removing cover plate - adjustable time delays & operating modes
- Dual technology (PDT) utilizes PIR/Microphonics detection (patented)
- Self-grounding mounting strap
- Device accommodates powering over ground or neutral connection (patent pending)
- Ultra low current leakage (<0.5 mA) when connected via ground
- Fully meets NEC 2011 Section 404.2C neutral requirements - no current leakage to ground when connected to neutral
- Line power and load wires are interchangeable - impossible to wire backwards (patented)

Warranty

Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

AcuityControls

Sensor Switch™

WSD Family

WSD
WSD PDT

WSD 2P
WSD PDT 2P

ORDERING INFORMATION

WSD SINGLE RELAY

Series		Operating Mode[1]		Voltage		Color[3]				Temp / Humidity	
WSD	Passive Infrared (PIR)	[blank]	Auto-on (default) or vacancy	[blank]	120/277VAC	WH	White	AL	Lt. Almond	[blank]	Standard
WSD PDT	Dual Technology (PIR/ Microphonics)	SA	Vacancy (default) or auto-on	347[2]	347VAC	IV	Ivory	BK	Black	LT	Low Temp/ High Humidity
		VA	Vacancy only			GY	Gray				

WSD DUAL RELAY

Series		Operating Mode[1]		Voltage		Color[3]				Temp / Humidity	
WSD 2P	Passive Infrared (PIR)	[blank]	Pole 1 auto-on	[blank]	120/277VAC	WH	White	AL	Lt. Almond	[blank]	Standard
WSD PDT 2P	Dual Technology (PIR/ Microphonics		Pole 2 vacancy	347[2]	347VAC	IV	Ivory	BK	Black	LT	Low Temp/ High Humidity
		2SA	Both poles vacancy (default)			GY	Gray				

Notes:
1. Operating Modes reprogrammable via push-button except for VA version
2. Wall plates included in white or ivory only for 347 VAC units
3. Matching wall plate provided for 120/277 VAC units

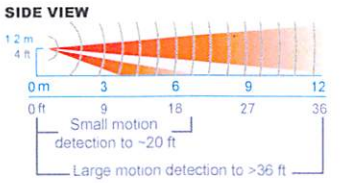
SPECIFICATIONS

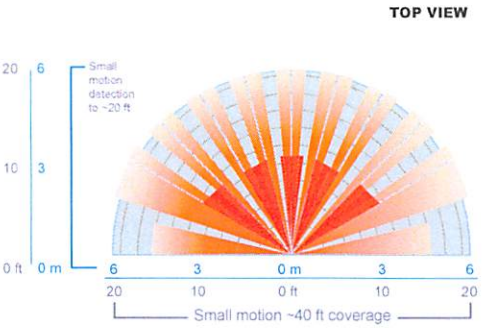
Size:	2.74"H x 1.68"W x 1.63"D (not including ground strap)
Weight:	5 oz
Mounting:	Single gang switch box
Mounting Height:	30-48 in
Maximum Load/ Pole:	(Relay) 800W @ 120VAC, 1200W @ 277VAC, 1500 W @ 347VAC
Minimum Load:	None
Motor Load:	1/4 HP
Frequency:	50/60Hz (timers are 1.2x for 50Hz)
Temperature Rating:	0°C-60°C

ROHS compliant

COVERAGE PATTERNS

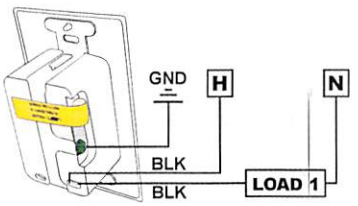
- Small motion (e.g., hand movements) detection up to 20 ft (6.10 m), ~625 ft²
- Large motion (e.g., walking) detection greater than 36 ft (10.97 m), ~2025 ft²
- Wall-to-Wall coverage
- Passive Dual Technology (Microphonics) provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is utilized to prevent non-occupant noises from keeping the lights on.





WIRING TO GROUND (no NEUTRAL)

SINGLE RELAY



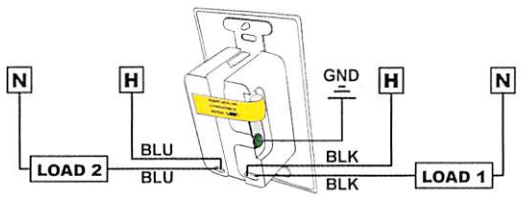
WIRE COLOR KEY

120/277 VAC WIRING

BLACK*	- Line 1 Input	*BLACK wires can be reversed
BLACK*	- Load 1 Output	
BLUE*	- Line 2 Input	*BLUE wires can be reversed
BLUE*	- Load 2 Output	

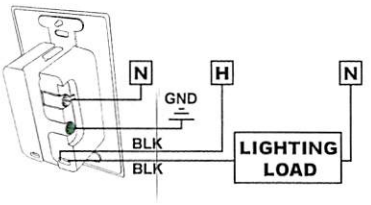
347 VAC WIRING (-347 Option)
Red wires replace Black wires.

DUAL RELAY

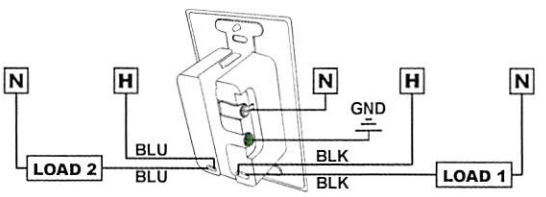


WIRING TO NEUTRAL

SINGLE RELAY



DUAL RELAY



Notes:
- Unit will draw power from either line connection.
- When switching 277 VAC or 347 VAC on both relays, the line inputs must be of the same phase.

LITHONIA LIGHTING

TWH LED

Wall Luminaire

Familiar Design. New Technology.

Cast in a traditional dayform, the TWH LED luminaire offers a popular, classic appearance. Its advanced LEDs deliver an expected service life of more than 20 years and eliminate frequent lamp and ballast replacements associated with traditional technologies.

Key Features:

- Energy savings of up to 77% vs. comparable metal halide luminaires; saves more than $153 per luminaire, per year over 400W metal halide
- 20+ years expected service life (with lumen maintenance of L87/100,000 hours)
- Larger footprint hides unsightly wall stains from various sized luminaires, eliminating the need to repaint
- Individual optics over each LED focuses the light on the lens and allows a larger percentage of light to reach the ground where it is needed

TWH LED			
Model	Watts	Lumens	Metal Halide Replacement
TWH LED 10C 50K	39W	3,400	175-250W
TWH LED 20C 50K	72W	7,000	Up to 400W
TWH LED 30C 50K	104W	8,400	400W equivalent

DLC

lighting facts

Quick Facts:

- Replaces 175-400W MH
- Lumen packages from 3,400-8,400 lumens
- Input watts from 39-104W
- Type III optics
- 5000K CCT stocked; 4000K CCT optional
- Weight: 28 lbs

LITHONIA LIGHTING

TWH LED WALL LUMINAIRE

Ordering Information

EXAMPLE: TWH LED 30C 1000 50K T3M MVOLT DDBXD

TWH LED

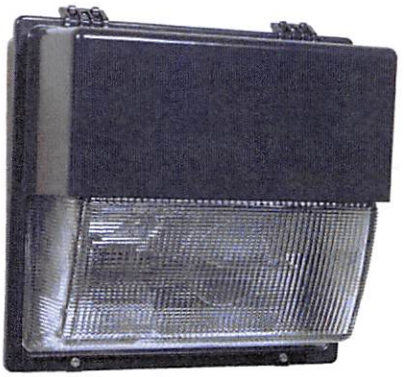
Series	Performance Package	Distribution	Voltage	Control Options	Other Options	Finish *(required)*
TWH LED	**LEDs** 10C 10 LEDs (one engine) 20C 20 LEDs (two engines) 30C 30 LEDs (one engine) **Drive current** 1000 1000 mA (1 A) **Color temperature** 50K 5000K (standard) 40K 4000K (optional)	T3M Type III Medium	MVOLT [1] 120 [1] 208 [1] 240 [1] 277 [1] 347 [2] 480 [2]	**Shipped installed** PER NEMA twist-lock receptacle only (no controls) PE Photoelectric cell, button type [7] **Shipped separately** SC Shorting cap	**Shipped installed** SF Single fuse (120, 277, 347V) [4] DF Double fuse (208, 240, 480V) [3] TP Tamper proof screws NOM NOM Certified SPD Separate surge protection ELSW Emergency battery backup (standard 0°C) [5] ELCW Emergency battery backup (cold weather -20°C) [5] **Shipped separately** VG Vandal guard [6] WG Wire guard [6]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
TWH LED 10C 1000 50K T3M MVOLT DDBXD	TWH LED 10C 50K
TWH LED 20C 1000 50K T3M MVOLT DDBXD	TWH LED 20C 50K
TWH LED 30C 1000 50K T3M MVOLT DDBXD	TWH LED 30C 50K

Accessories *Ordered and shipped separately*	
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [7]
DLL347 1.5 CUL JU	Photocell - SSL twist-lock (347V) [7]
DLL480 1.5 CUL JU	Photocell - SSL twist-lock (480V) [7]
SC U	Shorting cap [7]
TWHVG U	Vandal guard accessory [8]
TWHWG U	Wire guard accessory [8]

Notes
1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options) or photocontrol (PE).
2. Not available with 10C option.
3. Must specify voltage; not available with MVOLT.
4. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
5. Not available with 30C , 347, 480, PER, or SPD. Emergency mode IES files located on product page at www.lithonia.com. ELSW and ELCW warranty is 3-year period.
6. Also available as a separate accessory; see Accessories information at left.
7. Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.
8. Requires field modification (only when ordered as a separate accessory).



One Lithonia Way, Conyers, GA 30012 | Phone: 800.315.4935 | www.lithonia.com

AcuityBrands.

INTERMATIC

EK4236S & EK4736S
Electronic Photo Control Swivel Mount

EK4236S (Side Lens) & EK4736S (Top Lens)

8 Year Limited Warranty

Project:

Location:

Product Type:

Contact/Phone:

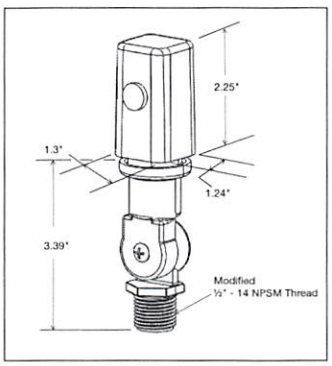
Model #:

Stem and Swivel Mount, Photo Control

The EK4236S and EK4736S are electronic photo controls that come with a swivel arm for easy reorientation of the photo control after installation. They fit standard ½" knockouts in standard outlet boxes and wall pack lighting fixtures. They are made with UV stabilized, high impact, plastic housing that stand up to outdoor environments and feature silicon light sensors with zero-crossing circuits to provide a long service life.


EK4236S


EK4736S



Features

- Dusk-to-dawn control of outdoor lighting
- Floodlights and security lighting
- Ideal for LED fixtures totaling 1650 W @ 277 VAC
- Non-drifting silicon light sensor IR filtered for human eye response
- Zero-cross technology helps device withstand severe inrush current and extend relay life
- Exceeds 10,000 ON/OFF operations at full load to meet the life expectancy of LED fixtures
- All components meet 15-year life requirements

Regulatory Listings

- ANSI C136.24 compliant
- UL certified to U.S. (UL773A) & CSA certified to Canadian (C22.2 No. 55-M1986/ TIL A-15) safety standards

Operating Specifications

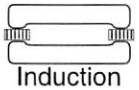
- Voltage: 105-305 VAC, 50/60Hz
- Dielectric strength: 2500 VAC
- Operating ambient temperature range: -40°F to 158°F (-40°C to 70°C)
- Instant turn ON light level 1.5 fc
- OFF light level: 2.25 fc
- Turn OFF to ON ratio 1.5:1 with 2-5 second delay
- Fail mode: ON
- Power consumption <.5W @ 277 VAC
- 255 Joule MOV surge protection component
- 6" long, 18awg wire leads

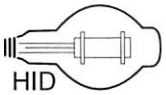
Warranty

- Limited 8-year manufacturer's warranty

Compatible with

LED


Induction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TITLE 20 CA LISTED

UL

SA C US

Model Number	Max VAC	Tungsten (Watts)	Ballast (VA)	Electronic Ballast (LED)	Turn ON Foot Candles (fc)	Turn OFF to ON Ratio	Fail Mode
EK4236S (Side Lens)	105-305	1000	1800	6 Amps	1.5	1.5:1 with 2-5 second delay (2.25 fc OFF)	ON
EK4736S (Top Lens)	105-305	1000	1800	6 Amps	1.5	1.5:1 with 2-5 second delay (2.25 fc OFF)	ON

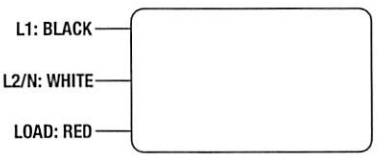
EK4236S & EK4736S

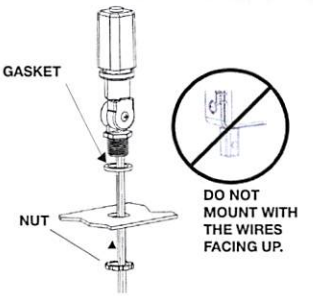
INTERMATIC

Specification

The photo control shall be an electronic control based on a solid-state photo sensor and relay switch circuit. Switch operation shall have a rating of 1000 Watts tungsten and 1800 Watts ballast at 105-305 VAC. For high inrush LED type fixtures, the photo control switch operation shall have a 6 Amp Electronic Ballast rating at 105-305 VAC. The photo control shall fail in an ON state. The photo control operating voltage shall be clearly identified on the control housing. The photo control shall be equipped with inherent delay action eliminating activation by light flashes. The photo control shall have a swivel arm for reorientation after installation. It also shall have a ½" NPSM threaded steam for fit to standard ½" knockouts in common electrical boxes and light fixtures and have min 6" long, 18 awg wire leads. The lens for light input shall be located in the top☐ /side☐ of the photo control. The photo control shall consist of industrial grade electronic components: 255 Joule MOV, solid state light sensor and silver alloy relay contacts. The photo control shall be 100% factory tested and function within specified light levels. The photo control shall be agency certified and tested accordingly. The photo control shall meet agency standards and all other requirements of ANSI C136.24. The photo control shall operate over a temperature range of -40°F to 158°F (-40°C to 70°C). The photo control should have a manufacturer's limited warranty of 8 years minimum. The photo control shall be the electronic dusk-to-dawn type, Intermatic model _____.

Diagrams





Limited Product Warranty

(1) What is Covered By This Limited Warranty?
Intermatic Incorporated ("Intermatic") warrants Intermatic's EK4136S ("Product") to be free from defects in material or workmanship for a period of eight (8) years from date of purchase. This warranty is extended to the owner of the light fixture on which the photo control is installed only and is non-transferable ("purchaser"). If the purchaser discovers a defect in material or workmanship, the purchaser must promptly submit a warranty claim. Upon a determination by Intermatic that the Product is defective, Intermatic shall correct any defect in material or workmanship by replacing the Defective Product. Any repair to Product, including both parts and labor, shall be at Intermatic's expense. The foregoing remedy is the purchaser's exclusive remedy for a breach of warranty. The product must be installed in the appropriate application in complete accordance with the installation instructions. The Product must not be opened, modified, exposed to extreme heat or cold, submerged or subjected to abnormal use or service. Product failures due to damage by accident, dropping, or abuse in handling, acts of God, or any negligent use, are not covered by this warranty. Intermatic shall determine, in its sole discretion, whether any Product returned by a purchaser has been used in accordance with its instructions, is an appropriate model for the purchaser's use thereof, and whether the Product is defective.

(2) Disclaimer of Warranty
THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER EXPRESSED WARRANTIES. TO THE EXTENT ALLOWED BY LAW, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION OF THIS LIMITED WARRANTY.

(3) Limitation of Remedies
IN NO CASE SHALL INTERMATIC BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. SUCH EXCLUDED DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, DAMAGE TO SOFTWARE, LOSS OF DATA, LOSS OF PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME, THE CLAIMS OF THIRD PARTIES INCLUDING CUSTOMERS, DAMAGE TO PROPERTY AND PERSONAL INJURY. SOME STATES DO NOT ALLOW LIMITS ON WARRANTIES OR ON REMEDIES FOR BREACH IN CERTAIN TRANSACTIONS, IN SUCH STATES, THE LIMITS IN THIS PARAGRAPH AND IN PARAGRAPH (2) MAY NOT APPLY.

(4) Time Limit for Bringing Suit
No action arising out of any claimed breach of warranty may be brought more than one year after the cause of action has occurred.

(5) No Other Warranties
Unless modified in writing signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this agreement. No employee of Intermatic or any other party is authorized to make any warranty in addition to those made in this agreement. This warranty is made by: Intermatic Incorporated/After Sales Service, 7777 Winn Rd., Spring Grove, IL. 60081-9698/815-675-7000 http://www.intermatic.com

(6) Claim Procedure
The warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased, or (b) mailing the product, along with proof of purchase, postage prepaid, to the authorized service center listed below.

Address all communications and products returns to:
Intermatic Warranty Coordinator
7777 Winn Road Spring Grove, Illinois 60081-9698, Fax: 815-675-7055

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/26/2018 1:36:33 PM

in

Case No(s). 18-0043-EL-EEC

Summary: Application BTMS Investments and Ohio Power Company for approval of a special arrangement agreement with a mercantile customer
electronically filed by Julie E Sanders on behalf of Ohio Power Company