



Legal Department

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

October 3, 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 )  
Trillium Farm Holdings LLC )  
and Ohio Power Company ) Case No. 18-0809-EL-EEC  
for Approval of a Special Arrangement )  
Agreement with a Mercantile Customer )

Tanner Wolfram  
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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/ Tanner Wolfram  
Tanner Wolfram

Attachment

**Case No.:** 18-0809-EL-EEC

**Mercantile Customer:** TRILLIUM FARM HOLDINGS LLC

**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](mailto:ee-pdr@puc.state.oh.us).

## Section 1: Company Information

Name: TRILLIUM FARM HOLDINGS LLC

Principal address: 10513 Croton Road, Johnstown, Oh 43031

Address of facility for which this energy efficiency program applies: County Road 255, Kenton, Oh 43326

Name and telephone number for responses to questions:

Jennifer Stump, Trillium Farm Holdings Llc, (740) 893-7200

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, 10/1/2016 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: 418,852 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  $[(\text{kWh used by less efficient new equipment}) - (\text{kWh used by the higher efficiency new equipment}) = (\text{kWh per year saved})]$ . 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  $[(\text{kWh used by less efficient new equipment}) - (\text{kWh used by higher efficiency new equipment}) = (\text{kWh per year saved})]$ . 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))

61.8 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 \$ 2,941.50. (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: 23.76 (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 \$ 129,581.51

The utility's program costs were \$ 2,513.11

The utility's incentive costs/rebate costs were \$ 2,941.50.

## 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 confidentiality 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.



**Public Utilities  
Commission**

Project # 18-22797  
Docket # 18-0809

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

Case No.: 18-0809-EL-EEC

State of Ohio :

Nigma Mustafa, 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.

Nigma Mustafa Engineer  
Signature of Affiant & Title

Sworn and subscribed before me this 9<sup>th</sup> day of August, 2018 Month/Year

Linda M. Schmidt  
Signature of official administering oath

LINDA M. SCHMIDT  
Print Name and Title  
Admin - Assistant

My commission expires on 7/31/2022



LINDA M. SCHMIDT  
Notary Public, State of Ohio  
My Commission Expires 7-31-2022



### 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	TRILLIUM FARM HOLDINGS LLC	
Project Number	AEP-18-22797	
Customer Premise Address	COUNTY ROAD 255, KENTON, OH 43326	
Customer Mailing Address	10513 Croton Road, Johnstown, OH 43031	
Date Received	3/7/2018	
Project Installation Date	10/1/2016	
Annual kWh Reduction	418,852	
Total Project Cost	\$7,844.00	
Unadjusted Energy Efficiency Credit (EEC) Calculation	\$3,922.00	
Simple Payback (yrs)	0.2	
Utility Cost Test (UCT) for EEC	23.76	
Utility Cost Test (UCT) for Exemption	0.09	
<i>Please Choose One Option Below and Initial</i>		
Self Direct EEC: 75%	\$2,941.50	<input checked="" type="checkbox"/> Initial: <u>CMH</u>
EE/PDR Rider Exemption	12 Months (with possible extension up to 144 months after PUCO Approval)	<input type="checkbox"/> 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?

☒ YES ☐ NO

Note: Exemptions for periods beyond 24 months are subject to look-back or 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.  
CFL lighting retrofit with LED lighting

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

[Signature]

Title: Manager

Date: 05/15/2018

TRILLIUM FARM HOLDINGS LLC

By: [Signature]

Title: Controller

Date: 5-9-2018



## Application Guidelines

Final Applications must be submitted before November 16, 2018 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 **Efficient Products for Business, Process Efficiency and New Construction Terms and Conditions** or **Self-Direct Terms and Conditions** for program rules and regulations.

### Step 2. Complete Applicant Information

- All fields in customer and project information sections must be completed.
- 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.
- Choose the incentive category on the worksheet based on 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 to receive funds.
- 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<sup>1</sup>

(For Self-Direct applications, skip to Step 6)

- Submitting a Pre-Approval Application to determine qualification and reserve program funds for a project is strongly recommended.
- All process efficiency projects require pre-approval.
- Complete all fields in Pre-Approval Agreement.
- 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.
- An inspection may be required during application review; applicants requiring inspection will be contacted for scheduling.

### Step 6. Submit Final Application

- Complete all fields for Final Application Agreement.
- Update the application if measures/equipment differs from pre-application.
- 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.
- An inspection may be required during application review; applicants requiring inspection will be contacted for scheduling.
- Self-Direct applications require additional steps. 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](mailto:aepohiosolutions@clearesult.com)

Visit our website at [AEPohio.com/solutions](http://AEPohio.com/solutions)

<sup>1</sup>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.



## Application Checklist

### Pre-Approval

- ☐ Completed Applicant Information
- ☐ Estimated Total Project Cost
- ☐ Estimated Completion Date
- ☐ Completed Incentives Requested Section of Application
- ☐ Applicable Incentive Worksheets Completed
- ☐ Completed and Signed Customer Agreement
- ☐ Equipment Specifications
- ☐ Proposed Scope of Work
- ☐ W-9 Form (Business Name Must Match Line 1 or 2 on the Form)

### Final Application Only (Without Pre-Approval)

- ☐ Completed Applicant Information
- ☐ Completed Incentives Requested Section of Application
- ☐ Applicable Incentive Worksheets Completed
- ☐ Total Project Cost
- ☐ Completion date
- ☐ Completed and Signed Customer Agreement
- ☐ Completed Third-Party Payment Release Authorization (optional)
- ☐ Itemized Invoices
- ☐ Equipment Specifications
- ☐ Scope of Work
- ☐ W-9 Form (Business Name Must Match Line 1 or 2 on the Form)

### Final Application (With Pre-Approval)

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





## Applicant Information

**AEP Application Number AEP - \_ \_ - \_ \_ \_ \_ \_**

**Application Type** (Select One)

### CUSTOMER INFORMATION

Business Name \_\_\_\_\_

Name as It Appears on Utility Bill \_\_\_\_\_

How many AEP Ohio Accounts are at the Project Site? \_\_\_\_\_

AEP Ohio Account Numbers for this Project<sup>1</sup> \_\_\_\_\_

Taxpayer ID \_\_\_\_\_ - \_\_\_\_\_ W-9 Tax Status (Select One) \_\_\_\_\_

### MAILING ADDRESS - WHERE CHECK WILL BE SENT

Contact Name \_\_\_\_\_ Contact Title \_\_\_\_\_

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) \_\_\_\_\_

<sup>1</sup>Please only enter the first eleven digits of the account number.



## Applicant Information

### CONTRACTOR INFORMATION

Company Name \_\_\_\_\_

Contact Name \_\_\_\_\_ Title of Contact \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State OH Zip \_\_\_\_\_

Phone \_\_\_\_\_ Ext. \_\_\_\_\_ Contact Email \_\_\_\_\_

### PRIMARY CUSTOMER CONTACT INFORMATION

Contact Name \_\_\_\_\_ Title of Contact \_\_\_\_\_

Phone \_\_\_\_\_ Ext. \_\_\_\_\_ Contact Email \_\_\_\_\_

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

### Incentive Summary Table

INCENTIVE CATEGORY	TOTAL INCENTIVES
LIGHTING	
HVAC	
MOTORS & DRIVES	
COMPRESSED AIR	
REFRIGERATION/FOOD SERVICE	
AGRICULTURE	
MISCELLANEOUS	
PROCESS EFFICIENCY	
NC LIGHTING (SELF-DIRECT ONLY)	
<b>TOTAL INCENTIVES</b>	

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



## 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 \_\_\_\_\_

Total Requested Incentive<sup>1</sup> \_\_\_\_\_

Total Self-Direct Requested Incentive<sup>2</sup> \_\_\_\_\_

Print Name

Date

AEP Ohio Customer Signature

\_\_\_\_\_

PRINT APPLICATION

<sup>1</sup>Incentives have a threshold of 50% of the project cost and total incentives paid to a threshold of \$25,000 and Bid4Efficiency above that.

<sup>2</sup>Self-Direct incentives are 75% of Total Requested Incentive, after 50% of the project cost threshold and tiering is applied.



## Third Party Payment Release

### THIRD PARTY PAYMENT RELEASE AUTHORIZATION (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**

**AEP Ohio Customer Signature**



## ULTRA LED™ A-line Lamps

Omnidirectional



Rated up to 25,000 hours at 70% lumen maintenance, SYLVANIA ULTRA LED A-line omnidirectional lamps offer years of service and reduce energy and maintenance costs. SYLVANIA ULTRA LED lamps are environmentally preferred products. They are RoHS compliant and contain no mercury, lead or other hazardous materials. They emit no UV or IR radiation. A CRI of 80 ensures good color definition and with warm white 2700K and cool 5000K color temperature, these lamps can be used in many applications in both homes and businesses.

### Key Features & Benefits

- Dimmable down to 10%\*
- Long life: up to 25,000 hours (L<sub>70</sub>)
- UV and IR free
- Mercury and lead free
- RoHS compliant
- Available in 2700K and 5000K color temperatures
- Suitable for indoor or covered outdoor environments
- Reduces energy consumption up to 85%
- Last up to 16 times longer than incandescent lamps
- No warm-up time, instant-on with full light output and stable color

\* Performance may vary depending on dimmer used in application.



### Product Offering

Ordering Abbreviation	Wattage	Color Temperature	Typical Lumens
LED6W A19	6	2700K & 5000K	450
LED6.5A19	6.5	2700K & 5000K	450
LED8.5A19	8.5	2700K & 5000K	800
LED9W A19	9	2700K & 5000K	800
LED9.5W A19	9.5	2700K & 5000K	1100
LED15W A21	15	2700K & 5000K	1600

### Applications

- Downlights
- Pendant fixtures
- Table lamps
- Wall sconces

### Market Segments

- Healthcare
- Hospitality
- Residential
- Retail

### Application Notes

1. Operating temperature range between -20°C and +45°C (-4°F and +113°F)
2. Not for use with emergency light fixtures or exit lights
3. Suitable for totally enclosed fixtures (6, 6.5, 8.5, 9, 9.5W only)
4. Suitable for damp locations

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



## Ordering Information

Item Number	Ordering Abbreviation	Wattage (W)	Base Type	Replaces	Input Voltage (V)	Average Rated Life (hrs.) <sup>1</sup>	CCT <sup>3</sup>	Typical Lumens (lm) <sup>2</sup>	CRI <sup>4</sup>	Power Factor	Bulb Finish	ENERGY STAR <sup>®</sup>
79163*	LED6.5A19/DIM/827/G5/RP	6.5	Medium	40W	120	25,000	2700K	450	80	0.88	Frosted	Yes
79242*	LED6A19/DIM/O/827/G5	6	Medium	40W	120	25,000	2700K	450	80	0.90	Frosted	Yes
79161*	LED8.5A19/DIM/827/G5/RP	8.5	Medium	60W	120	25,000	2700K	800	80	0.89	Frosted	Yes
79162*	LED6.5A19/DIM/850/G5/RP	6.5	Medium	40W	120	25,000	5000K	450	80	0.88	Frosted	Yes
79245*	LED6A19/DIM/O/850/G5/RP	6	Medium	40W	120	25,000	5000K	450	80	0.90	Frosted	Yes
79246*	LED9A19/DIM/O/827/G5	9	Medium	60W	120	25,000	2700K	800	80	0.90	Frosted	Yes
79160*	LED8.5A19/DIM/850/G5/RP	8.5	Medium	60W	120	25,000	5000K	800	80	0.89	Frosted	Yes
79249*	LED9A19/DIM/O/850/G5/RP	9	Medium	60W	120	25,000	5000K	800	80	0.90	Frosted	Yes
79486*	LED9.5A19/DIM/O/827/G4	9.5	Medium	75W	120	25,000	2700K	1100	80	0.90	Frosted	Yes
79489*	LED9.5A19/DIM/O/850/G4/RP	9.5	Medium	75W	120	25,000	5000K	1100	80	0.90	Frosted	Yes
79491*	LED15A21/DIM/O/827/G4	15	Medium	100W	120	25,000	2700K	1600	80	0.90	Frosted	Yes
79494*	LED15A21/DIM/O/850/G4/RP	15	Medium	100W	120	25,000	5000K	1600	80	0.90	Frosted	Yes

\* 79160 replaces 79249, 79161 replaces 79246, 79162 replaces 79245, 79163 replaces 79242, 79242 replaces 79099, 79245 replaces 79102, 79246 replaces 79103, 79249 replaces 72557, 79486 replaces 79082, 79489 replaces 79125, 79491 replaces 79105, 79494 replaces 75166

OSRAM SYLVANIA submits most lamps for ENERGY STAR testing. Early qualification for ENERGY STAR lamps begin at 25,000 hours (L<sub>70</sub>) regardless that the design of the lamp is manufactured for a greater life expectancy. As the lamps pass ENERGY STAR qualifications, manufacturers are able to increase rated life as dictated by ENERGY STAR guidelines becoming either provisionally qualified or fully qualified. Please visit [EnergyStar.gov](http://EnergyStar.gov) for more information about testing requirements for ENERGY STAR qualified products.

1. Hours lifetime with 70% (L<sub>70</sub>) lumen maintenance 2. Thermally stable typical lumens (±10%) 3. Thermally stable typical CCT (±10%) 4. CRI – Color Rendering Index

## Ordering Guide

LED	6	A19	/	DIM	/	O	/	8	27	/	G5	/	RP
LED Lamps	Wattage	Lamp Type A19		Dimmable		Omnidirectional		CRI 80	CCT 2700K, 5000K		Generation 5		Retail Pack

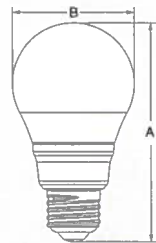
## Energy Savings

Basic Product Description	LED Life (hrs.)	LED Lumens	Similar Incandescent	Incandescent Life (hrs.)	Incandescent Lumens	Watts Saved	Energy Savings*	LED Life vs. Incandescent
LED6A19	25,000	450	40W A19	1500	465	34	\$93	>16x
LED6.5A19	25,000	450	40W A19	1500	465	33.5	\$92	>16x
LED8.5A19	25,000	800	60W A19	1000	850	51.5	\$141	25x
LED9A19	25,000	800	60W A19	1000	850	51	\$140	25x
LED9.5A19	25,000	1100	75W A19	750	1170	65.5	\$180	33x
LED15A21	25,000	1600	100W A19	750	1600	85	\$233	33x

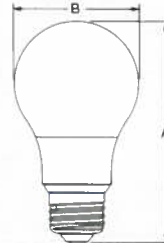
\*Energy savings over life of lamp calculated at \$0.11/kWh

## Lamp Dimensions

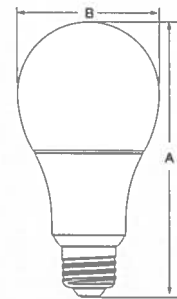
	(A) MOL (Inches)	(B) Diameter (Inches)
LED6A19 & LED9A19	4.24	2.36
LED9.5A19, LED6.5A19 & LED8.5A19	4.21	2.36
LED15A21	5.22	2.72



LED6A19 & LED9A19



LED6.5A19, LED8.5A19 & LED9.5A19

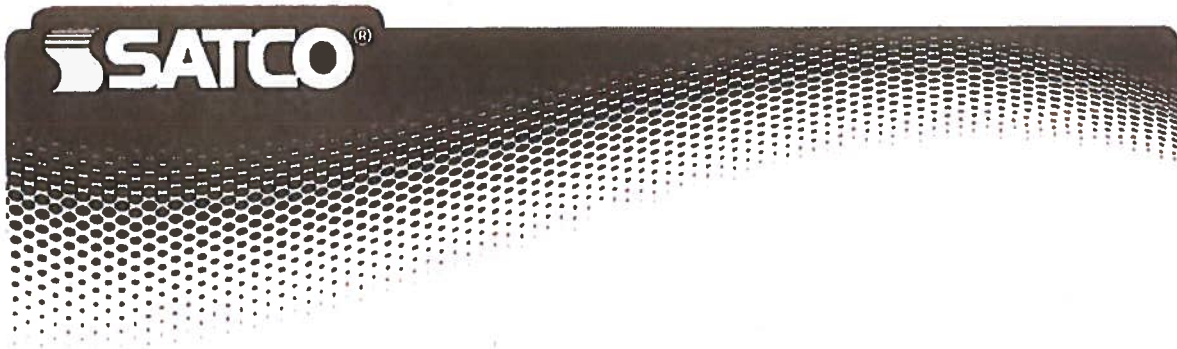


LED15A21





**B** Other



## S9378

9A19/LED/2700K/800L/120V  
Discontinued - 9 watt; A19 LED; 2700K; Medium base; 300' beam spread; 120 volts; 72-Pk Display

### Features

- Solid State LED lighting
- A shaped replacement lamp
- Long life
- Approved for totally enclosed fixtures
- Dimmable
- Free standing display pack



**72** Display Pack

S9378

This item has been discontinued.  
Possible replacement:

- S9629

Item Number	UPC	Voltage	Watts	Incandescent Equivalent	Lamp Shape	Base	ANSI Base	
S9378	045923093784	120	9	60W	A19	Medium	E26	
Lamp Code		Dimmable/Non-Dimmable	Finish	MOL In Inches	MOD In Inches	Initial Lumens	Average Rated Hours	Kelvin Temp
9A19/LED/2700K/800L/120V		Dimmable	Frosted	4-3/8"	2-3/8"	800	25000	2700
Color	CRI	Beam Spread Deg	Operating Temperature	Pack	Package Type	RoHS Compliant	UL or ETL Listed	
Warm White	80	300	-20C (-4F) to a maximum of +45C (+113F)	72	Box	Yes	Yes	
UL Classification			Warranty	Status	Suggested Substitute			
cULus - Damp Location Rated			3 Year Limited	Discontinued	S9629			

A Other

# TCP SpringLight<sup>™</sup> Specifications

## Compact Fluorescent

### Applications:

Perfect for most applications: Use where a standard incandescent is used.

- + Table Lamps
- + Floor Lamps
- + Ceiling Fixtures
- + Wall Sconces
- + Vanities
- + Track Lighting



### Features and Benefits:

- Long life, 10,000 hour average rated life – SpringLamps<sup>®</sup>
- 8,000 hour average rated life – globes/a-lamp/floodlights
- Lasts 9 years, based on 3 hours use per day – SpringLamps<sup>®</sup>
- Lasts 7 years, based on 3 hours use per day – globes/a-lamp/floodlights
- Replace less often, ideal for hard to reach places
- Lower maintenance costs for lamp replacements
- Saves up to 75% in energy costs compared to similar light output incandescent lamps
- Available in the following color temperatures: 2700K, 3500K, 4100K, 5000K and 6500K
- Quick run-up time
- Medium base and compact height fits anywhere a standard incandescent fits
- Instant start, flicker free
- End of Life logic guards against violent failures
- World class phosphor insures high lumen output and excellent lumen maintenance
- Up to 23 watts approved for enclosed fixtures



ISO 9002  
CERTIFIED

RoHS  
COMPLIANT

### Catalog Number

### Notes

### Type



### Specifications: (at full brightness)

End of Life Protection	Yes
Ballast Type	Electronic
Starting Method	Modified Rapid Start
Input Line Voltage	120VAC
Input Line Frequency	50/60HZ
Lamp Life (rated)	10,000 Hours / 8,000 Hours
Color Temperature	2700°K
Color Rendering Index	82
Minimum Starting Temperature	-20°F, -29°C
Maximum Operating Temperature	160°F, 71°C
U.L. / C.U.L. Listed	Yes
FCC Compliance	47 C.F.R. Part 18
Lamp Operating Frequency	45 KHZ
Lamp Current Crest Factor	<1.60
Max. Open Circuit Voltage	600V
Total Harmonic Distortion	<150%
Power Factor Rated	>.50

### Special Application Notes:

Up to 23 watt is UL approved for totally enclosed fixtures.

Use a 27 watt in an open recessed can.

Do not use more than 2 bulbs in an enclosed fixture.

If fixture is manufactured for incandescents, use no higher than the CFL equivalent wattage, as shown on chart.



For the most up-to-date specs, please visit [www.tcp.com](http://www.tcp.com)

TCP<sup>®</sup>  
325 Campus Dr. | Aurora, Ohio 44202 | P: 1-800-324-1496 | [tcp.com](http://tcp.com)  
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## SpringLight™ Specifications

### Meeting Your Needs.

SpringLight™ is our basic standard CFL lineup which includes half SpringLamps® and standard floods. These high quality lamps are reasonably priced, designed to fit your budget, and are available in a variety of pack sizes from 1-packs to contractor packs and pallet programs.

Item Number	Item Description	Unit/Ballast Watts	Incandescent Comparison (Watts)	Initial Lumens	CCT (Kelvin)	CRI	HQ/L/Height (Inches)	Diameter/Width (Inches)	Input Line Current	Case Quantity
<b>SPRINGLIGHT™ SPRINGLAMPS®</b>										
801009	9W SpringLamp 27K	9	40	500	2700	82	4.0	1.8	.15A	12
80100935	9W SpringLamp 35K	9	40	550	3500	82	4.0	1.8	.15A	12
80100941	9W SpringLamp 41K	9	40	550	4100	82	4.0	1.8	.15A	12
80100950	9W SpringLamp 50K	9	40	500	5000	82	4.0	1.8	.15A	12
801014	14W SpringLamp 27K	14	60	900	2700	82	4.4	1.8	.23A	12
8010143	14W SpringLamp 27K 3PK	14	60	900	2700	82	4.4	1.8	.23A	12
80101435	14W SpringLamp 35K	14	60	900	3500	82	4.4	1.8	.23A	12
80101441	14W SpringLamp 41K	14	60	900	4100	82	4.4	1.8	.23A	12
801014413	14W SpringLamp 41K 3PK	14	60	900	4100	82	4.4	1.8	.23A	12
80101450	14W SpringLamp 50K	14	60	850	5000	82	4.4	1.8	.23A	12
80101465	14W SpringLamp 65K	14	60	850	6500	82	4.4	1.8	.23A	12
801019	19W SpringLamp 27K	19	75	1225	2700	82	4.4	2.3	.31A	12
8010193	19W SpringLamp 27K 3PK	19	75	1225	2700	82	4.4	2.3	.31A	12
80101935	19W SpringLamp 35K	19	75	1225	3500	82	4.4	2.3	.31A	12
80101941	19W SpringLamp 41K	19	75	1200	4100	82	4.4	2.3	.31A	12
801019413	19W SpringLamp 41K 3PK	19	75	1200	4100	82	4.4	2.3	.31A	12
80101950	19W SpringLamp 50K	19	75	1200	5000	82	4.4	2.3	.31A	12
80101965	19W SpringLamp 65K	19	75	1200	6500	82	4.4	2.3	.31A	12
801023	23W SpringLamp 27K	23	100	1600	2700	82	4.8	2.3	.38A	12
8010233	23W SpringLamp 27K 3PK	23	100	1600	2700	82	4.8	2.3	.38A	12
80102335	23W SpringLamp 35K	23	100	1600	3500	82	4.8	2.3	.38A	12
80102341	23W SpringLamp 41K	23	100	1600	4100	82	4.8	2.3	.38A	12
801023413	23W SpringLamp 41K 3PK	23	100	1600	4100	82	4.8	2.3	.38A	12
80102350	23W SpringLamp 50K	23	100	1500	5000	82	4.8	2.3	.38A	12
80102365	23W SpringLamp 65K	23	100	1500	6500	82	4.8	2.3	.38A	12
801027	27W SpringLamp 27K	27	100	1750	2700	82	5.5	2.4	.45A	12
8010273	27W SpringLamp 27K 3PK	27	100	1750	2700	82	5.5	2.4	.45A	12
80102735	27W SpringLamp 35K	27	100	1750	3500	82	5.5	2.4	.45A	12
80102741	27W SpringLamp 41K	27	100	1750	4100	82	5.5	2.4	.45A	12
801027413	27W SpringLamp 41K 3PK	27	100	1750	4100	82	5.5	2.4	.45A	12
80102750	27W SpringLamp 50K	27	100	1750	5000	82	5.5	2.4	.45A	12
80102765	27W SpringLamp 65K	27	100	1750	6500	82	5.5	2.4	.45A	12
801032	32W SpringLamp 27K	32	125	2100	2700	82	6.0	2.8	.53A	12
80103241	32W SpringLamp 41K	32	125	2000	4100	82	6.0	2.8	.53A	12
801042	42W SpringLamp 27K	42	150	2750	2700	82	7.0	2.8	.70A	12
80104241	42W SpringLamp 41K	42	150	2650	4200	82	7.0	2.8	.70A	12
<b>SPRINGLIGHT™ REFLECTOR LAMPS</b>										
802014	14w R20 Flood SpringLamp	14	50	495	2700	82	4.3	2.5	.23A	12
803014	14w R30 Flood SpringLamp	14	65	645	2700	82	5.4	3.7	.23A	12
8030142	14w R30 Flood SpringLamp 2PK	14	65	645	2700	82	5.4	3.7	.23A	12
804023	23w R40 Flood SpringLamp	23	85	1150	2700	82	6.1	4.8	.38A	12
805023	23w Par38 Flood SpringLamp	23	90	1200	2700	82	6.2	4.8	.38A	12
8050232	23w Par38 Flood SpringLamp 2PK	23	90	1200	2700	82	6.2	4.8	.38A	12
<b>SPRINGLIGHT™ GLOBES</b>										
8060093	9w G25 Globe SpringLamp 3PK	9	40	495	2700	82	4.3	3.1	.15A	12
8060143	14w G25 Globe SpringLamp 3PK	14	60	800	2700	82	4.3	3.1	.23A	12
<b>SPRINGLIGHT™ A-LAMPS</b>										
8070093	9w A-Lamp SpringLamp 3PK	9	40	450	2700	82	4.1	2.2	.15A	12
8070143	14w A-Lamp SpringLamp 3PK	14	60	800	2700	82	4.3	3.1	.23A	12
<b>SPRINGLIGHT™ MULTIPACKS</b>										
8011412	14w SpringLamp 12PK	14	60	900	2700	82	4.4	1.8	.23A	12
8011912	19w SpringLamp 12PK	19	75	1225	2700	82	4.4	2.3	.31A	12
8012312	23w SpringLamp 12PK	23	100	1600	2700	82	4.8	2.3	.38A	12
8012712	27w SpringLamp 12PK	27	100	1750	2700	82	5.5	2.4	.45A	12
801R30146	14w R30 SpringLamp 6PK	14	65	645	2700	82	5.4	3.7	.23A	12



SpringLamp



R20 Flood



P30 Flood



R40 Flood



PAR38 Flood



G25 Globe



A-Lamp

For the most up-to-date specs,  
please visit [www.tcp.com](http://www.tcp.com)

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

**Commission of Ohio Docketing Information System on**

**10/3/2018 10:58:06 AM**

**in**

**Case No(s). 18-0809-EL-EEC**

Summary: Application Trillium Farm Holdings LLC and Ohio Power Company for approval of a special arrangement agreement with a mercantile customer electronically filed by Mr. Steven T Nourse on behalf of Ohio Power Company