# Ohio <br> Public Utilities Commission 

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

Case No.: 13-0533 -EL-EEC
Mercantile Customer: Port Clinton City School District
Electric Utility: Ohio Edison Company
Program Title or Bataan Elementary addition/renovation and New Middle Description: School

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: Mercantile Customer Information

## Name:Port Clinton City School District

Principal address:431 Portage Drive Port Clinton, Ohio 43452
Address of facility for which this energy efficiency program applies: 807 S . Jefferson St. \& 525 W. $6^{\text {th }}$ Street Port Clinton Ohio 43452

Name and telephone number for responses to questions:Neil Wittberg : 614.949.5616
Electricity use by the customer (check the box(es) that apply):
$\square$ The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.)
x The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

## Section 2: Application Information

A) The customer is filing this application (choose which applies):
$\square$ Individually, without electric utility participation.
Jointly with the electric utility.
B) The electric utility is: Ohio Edison Company
C) The customer is offering to commit (check any that apply):
$\boxtimes$ Energy savings from the customer's energy efficiency program.
(Complete Sections 3,5, 6, and 7.)
$\square$ Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
$\square$ Both the energy savings and the capacity savings 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 (check those that apply):
$\square$ Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)). If Checked, Please see Exhibit 1 and Exhibit 2
$\square$ Installation of new equipment to replace equipment that needed to be replaced The customer installed new equipment on the following date(s):
$\qquad$ .

】 Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):

## SEE EXHIBIT 2.

$\square$ Behavioral or operational improvement.
B) Energy savings achieved/to be achieved by the energy efficiency program:

1) If you checked the box indicating that the project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment $)-(\mathrm{kWh}$ used by new equipment $)=(\mathrm{kWh}$ per year saved $)]$. Please attach your calculations and record the results below:

Annual savings: $\qquad$ kWh
2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by the higher efficiency new equipment $)=(\mathrm{kWh}$ per year saved)]. Please attach your calculations and record the results below:

Annual savings: $\qquad$ kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment. Please see Exhibit 1 if applicable
3) If you checked the box indicating that the project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by higher efficiency new equipment $)=(\mathrm{kWh}$ per year saved $)]$. Please attach your calculations and record the results below:

Annual savings: $489,037 \mathrm{kWh}$
Please describe the less efficient ne $v$ equipment that was rejected in favor of the more efficient new equipment. Please see Exhibit 1 if applicable
4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

## Section 4: Demand Reduction/Demand Response Programs

A) The customer's program involves (check the one that applies):
$\square$ Coincident peak-demand savings from the customer's energy efficiency program.
$\square$ Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
$\square$ Potential peak-demand reduction (check the one that applies):
$\square$ 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.
$\square$ 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?
C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):
$\qquad$ kW

## 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:
$\boxtimes$ Option 1: A cash rebate reasonable arrangement.
OROption 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR
$\square$ Commitment payment
B) The value of the option that the customer is seeking is:

Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):

X A cash rebate of $\$ 31,200$. (Rebate shall not exceed $50 \%$ project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.
$\square$ 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
$\square$ A commitment payment valued at no more than \$ ___. (Attach documentation and calculations showing how this payment amount was determined.)

## OR

$\square$ Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of the customer's ongoing efficiency program. (Attach documentation that establishes the ongoing nature of the program.) In order to continue the exemption beyond the initial 24 month period, the customer will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

## Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

$\square$
Total Resource Cost (TRC) Test. The calculated TRC value is:
$\qquad$ (Continue to Subsection 1, then skip Subsection 2)
$\boxtimes$ Utility Cost Test (UCT) . The calculated UCT value is: See Exhibit 3 (Skip to Subsection 2.)

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

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

The electric utility's avoided supply costs were $\qquad$ -.

Our program costs were $\qquad$ -

The incremental measure costs were $\qquad$ .

Subsection 2: UCT Used (please fill in all blanks).
We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were See Exhibit 3
The utility's program costs were See Exhibit 3
The utility's incentive costs/rebate costs were See Exhibit 3

## Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.
- A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:

1) any confidentiality requirements associated with the agreement;
2) a description of any consequences of noncompliance with the terms of the commitment;
3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
5) a commitment by the customer to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.

- A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.


# Ohio <br> Public Utilities Commission 

Application to Commit Energy Efficiency/Reak Demand Reduction programs (Mercantile Customers Only)

Case No: 13-0533 EL-EEC

## State of Ohio:

Jeff Doribusch, Affiant, being duly sworn according to law, deposes and says that:

1. . Tam the duly authorized representative of:

PortiClinton City School District
[insert customer or EDU company name and any applicable name (s) doing business as
2. Shave personally examined all the information contained in the foregoing application; including any exfibitits and attachinents. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, T believe that the information is true, accurate and complete:


SWound ind subscribed before me this $\qquad$
 Jeffinornbuschi--Treasurer Print Name and Title
$\qquad$


| $\begin{aligned} & \text { Project } \\ & \text { No. } \end{aligned}$ | Project Name | Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment: | Description of methodologies, protocols and practices used in measuring and verifying project results | equipment if you had not replaced it early? <br> Also, please explain briefly how you determined this future replacement date. | Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Lighting Control Sensors | Installed daylight and occupancy sensors to shut the lights off when no motion or sunlight is detected. | The energy savings and rebate amount inputted into Exhibit 2A are taken from the FE Lighting Rebate Calculator (OE.PortClinton.MS.Lighting Project Cash Rebate Form). The number of sensors and watts controlled can be found in the Middle School building lighting countsheet, (OE.PortClinton.MS.Countsheet_ATTACHMENT.C.xIsx). | N/A | N/A |
| 2 | Variable Frequency Drives | Variable frequency drives were installed on multiple supply fans, return fans, and pumps throughout the new facility. | Data was gathered from the mechanical schedules (OE.PortClinton.MS.MechSchedule.AttachmentH.pdf) and input to the motors and drives rebate calculator to determine the cash rebate amount. kWh savings were calculated based on approximate runtimes for the different motor applications (see: attachment $F$ : <br> OE.PortClinton_MS.VFD.Calcs_ATTACHMENT.F.xlsx) | N/A | N/A |
| 3 | Energy Efficient Chillers | 2 new york air cooled chillers were installed as part of the facility renovation. | Data was gathered from the chiller specifications (OE.PortClinton.ChillerSpecs.Attachmentl.pdf) input to the savings calculator (OE.PCCS.MiddleSchool.Chiller.Calc.AttachmentJ.xlsx) to determine the kWh savings which was then input to the custom rebate calculator to determine the cash rebate amount. | N/A | N/A |
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Docket No. 13-0533
Site:
807 S. Jefferson St
Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.
 $834-E L-E E C$ dated $9 / 15 / 2010$, not to exceed the lesser of $50 \%$ of the project cost or $\$ 250,000$ per project. The rebate also cannot exceed $\$ 500,000$ per customer per year, per utility service territory


## Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs


Notes
(A) From Exhibit 2, $=\mathrm{kWh}$ saved $/ 1000$
(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE\&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).
(C) $=(\mathrm{A}) *(\mathrm{~B}$
(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
(E) This is the amount of the cash rebate paid to the customer for this project.
(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less
$(\mathrm{G})=(\mathrm{D})+(\mathrm{E})+(\mathrm{F})$
$(\mathrm{H})=(\mathrm{C}) /(\mathrm{G})$

# Port Clinton City School District ~ Port Clinton Middle Schoo 

Docket No. 13-0533

Site:
807 S. Jefferson St.



| Project Estimated Annual <br> Savings Summary |  |
| :--- | :---: |
| Estimated Annual kWh Savings | 95,815 |
| Total Change in Connected Load | -2.41 |


| Annual Estimated Cost Savings | $\$ 9,581.50$ |
| :--- | :---: |
| Annual Operating Hours | 2,080 |


| Interior Lighting Incentive @ <br> $\$ 0.05 / \mathrm{kWh}$ (excluding retrofit CFLs, <br> sensors, or LED exit signs) | $-\$ 280.95$ |
| :--- | :---: |
| Exterior Lighting Incentive @ <br> $\$ 0.05 / \mathrm{kWh}$ (excluding retrofit CFLs, <br> sensors, or LED exit signs) | $\$ 0.00$ |
| Total retrofit CFL Incentive @ <br> $\$ 1 /$ screw-in CFL lamp; $\$ 15 /$ hard- <br> wired CFL lamp (includes all retrofit <br> CFLs, both interior and exterior) | $\$ 0.00$ |
| Total retrofit LED Exit Incentive @ <br> $\$ 10 /$ exit sign | $\$ 0.00$ |
| Total Lighting Controls Incentive @ <br> $\$ 25 /$ sensor (includes all Lighting <br> Controls, both interior and exterior) | $\$ 6,250.00$ |


| Total Calculated Incentive | $\$ 5,969.05$ |
| :--- | :--- |


| Total Fixture Quantity excluding retrofit <br> CFLs and LED Exit Sign | 1 |
| :--- | :---: |
| Total Lamp Quantity for retrofit Screw-In <br> CFLs | 0 |
| Total Lamp Quantity for retrofit Hard-Wired <br> CFLs | 0 |
| Total Fixture Quantity for retrofit LED Exit <br> Signs | 0 |
| Total Quantity for Occupancy Sensors | 0 |
| Total Quantity for Daylight Sensors | 250 |



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Motor Rebate Calculation Form

| Motor ID, Location, and Operation Data |  |  |  | Old Motor Nameplate Data |  |  |  |  |  |  |  | New Motor Nameplate Data |  |  |  |  |  |  |  | TotalMotorIncentive $^{1} \$ \$$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unique Motor ID(s) |  | Motor Location | Annual <br> Hours of $\mathrm{Op}^{2}$ | Loading (Constant, or if variable, indicate control type) | $\begin{aligned} & \text { Load } \\ & \text { Factor } \\ & (\mathbf{L F})^{3} \end{aligned}$ | Enclosure type: TEFC or ODP | Mfr. | $\begin{gathered} \text { Model } \\ \text { Number } \end{gathered}$ | Motor HP | Nominal Efficiency | Speed (RPM) | Loading (Constant, or if variable, indicate control type) | $\begin{aligned} & \text { Load } \\ & \text { Factor } \\ & (\text { LF })^{3} \end{aligned}$ | Enclosure type: TEFC or ODP | Mfr. | $\begin{gathered} \text { Model } \\ \text { Number } \end{gathered}$ | Motor HP | Nominal Efficiency | Speed (RPM) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Motor IDs may be specified by HVAC application type and number. Application types eligible for this incentive include:

- Chilled Water Pump (CHWP),

Heating Hot Water Pump (HHWP),

- HVAC Fans (HVACF),
- Cooling Tower Fan (CTF), and
- Condensing Water Pump (CWP)

If the HVAC application is not listed above, please describe the application on a separate sheet and include it with your application package.
(1) Motor incentives are listed in Table $\mathbf{2}$ - Incentive levels per motor located on Motor Incentive Table tab
(2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value.
(3) For all motor applications, use the Load Factor (LF) default value of $\mathbf{0 . 8 0}$, unless data is available to support the use of a motor-specific LF other than $\mathbf{0 . 8 0}$. Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value.

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| Open Drip Proof (ODP) |  |  |  | Totally Enclosed Fan-Cooled (TEFC) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Size } \\ \text { HP } \end{gathered}$ |  | \# of Poles |  | Size <br> HP | \# of Poles |  |  |
|  | 6 | 4 | 2 |  | 6 | 4 | 2 |
|  | Speed (RPM) |  |  |  |  | peed (RP |  |
|  | 1200 | 1800 | 3600 |  | 1200 | 1800 | 3600 |
| 1 | 82.50\% | 85.50\% | 77.00\% | 1 | 82.50\% | 85.50\% | 77.00\% |
| 1.5 | 96.50\% | 86.50\% | 84.00\% | 1.5 | 87.50\% | 86.50\% | 84.00\% |
| 2 | 87.50\% | 86.50\% | 85.50\% | 2 | 88.50\% | 86.50\% | 85.50\% |
| 3 | 88.50\% | 89.50\% | 85.50\% | 3 | 89.50\% | 89.50\% | 86.50\% |
| 5 | 89.50\% | 89.50\% | 86.50\% | 5 | 89.50\% | 89.50\% | 88.50\% |
| 7.5 | 90.20\% | 91.00\% | 88.50\% | 7.5 | 91.00\% | 91.70\% | 89.50\% |
| 10 | 91.70\% | 91.70\% | 89.50\% | 10 | 91.00\% | 91.70\% | 90.20\% |
| 15 | 91.70\% | 93.00\% | 90.20\% | 15 | 91.70\% | 92.40\% | 91.00\% |
| 20 | 92.40\% | 93.00\% | 91.00\% | 20 | 91.70\% | 93.00\% | 91.00\% |
| 25 | 93.00\% | 93.60\% | 91.70\% | 25 | 93.00\% | 93.60\% | 91.70\% |
| 30 | 93.60\% | 94.10\% | 91.70\% | 30 | 93.00\% | 93.60\% | 91.70\% |
| 40 | 94.10\% | 94.10\% | 92.40\% | 40 | 94.10\% | 94.10\% | 92.40\% |
| 50 | 94.10\% | 94.50\% | 93.00\% | 50 | 94.10\% | 94.50\% | 93.00\% |
| 60 | 94.50\% | 95.00\% | 93.60\% | 60 | 94.50\% | 95.00\% | 93.60\% |
| 75 | 94.50\% | 95.00\% | 93.60\% | 75 | 94.50\% | 95.40\% | 93.60\% |
| 100 | 95.00\% | 95.40\% | 93.60\% | 100 | 95.00\% | 95.40\% | 94.10\% |
| 125 | 95.00\% | 95.40\% | 94.10\% | 125 | 95.00\% | 95.40\% | 95.00\% |
| 150 | 95.40\% | 95.80\% | 94.10\% | 150 | 95.80\% | 95.80\% | 95.00\% |
| 200 | 95.40\% | 95.80\% | 95.00\% | 200 | 95.80\% | 96.20\% | 95.40\% |


| Table 2 - Incentive Levels Per Motor through 10/11/2011 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Open Drip Proof (ODP) |  |  |  | Totally Enclosed Fan-Cooled (TEFC) |  |  |  |
| $\begin{gathered} \text { Size } \\ \text { HP } \end{gathered}$ | \# of Poles |  |  | Size <br> HP | \# of Poles |  |  |
|  | 6 | 4 | 2 |  | 6 | 4 | 2 |
|  | Speed (RPM) |  |  |  | Speed (RPM) |  |  |
|  | 1200 | 1800 | 3600 |  | 1200 | 1800 | 3600 |
| 1 | \$25 | \$25 | \$25 | 1 | \$25 | \$25 | \$25 |
| 1.5 | \$30 | \$30 | \$30 | 1.5 | \$30 | \$30 | \$30 |
| 2 | \$60 | \$60 | \$60 | 2 | \$60 | \$60 | \$60 |
| 3 | \$60 | \$60 | \$60 | 3 | \$60 | \$60 | \$60 |
| 5 | \$60 | \$60 | \$60 | 5 | \$60 | \$60 | \$60 |
| 7.5 | \$80 | \$80 | \$80 | 7.5 | \$80 | \$80 | \$80 |
| 10 | \$80 | \$80 | \$80 | 10 | \$80 | \$80 | \$80 |
| 15 | \$125 | \$125 | \$125 | 15 | \$125 | \$125 | \$125 |
| 20 | \$125 | \$125 | \$125 | 20 | \$125 | \$125 | \$125 |
| 25 | \$164 | \$164 | \$164 | 25 | \$164 | \$164 | \$164 |
| 30 | \$199 | \$199 | \$199 | 30 | \$199 | \$199 | \$199 |
| 40 | \$234 | \$234 | \$234 | 40 | \$234 | \$234 | \$234 |
| 50 | \$269 | \$269 | \$269 | 50 | \$269 | \$269 | \$269 |
| 60 | \$304 | \$304 | \$304 | 60 | \$304 | \$304 | \$304 |
| 75 | \$339 | \$339 | \$339 | 75 | \$339 | \$339 | \$339 |
| 100 | \$374 | \$374 | \$374 | 100 | \$374 | \$374 | \$374 |
| 125 | \$410 | \$410 | \$410 | 125 | \$410 | \$410 | \$410 |
| 150 | \$445 | \$445 | \$445 | 150 | \$445 | \$445 | \$445 |
| 200 | \$468 | \$468 | \$468 | 200 | \$468 | \$468 | \$468 |

## FirstEnergy

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| Project Name: | Port Clinton City School District |
| :--- | :--- |
| Site Name: | New Middle School |
| Completed by (Name): | Neil |
| Date completed: |  |

## Variable Frequency Drive Rebate Form

VFID and Controlled Motor Nameplate DATA

| Motor <br> Application | VFD <br> Manufacturer |  | Unique Motor ID(s) | Motor Location | Enclosure type: TEFC or ODP | Annual Hours of Operation ${ }^{2}$ | Load Factor $(\mathbf{L F})^{3}$ | Motor Model Number | Motor HP | Motor Nominal Efficiency | Total Motor <br> Incentive ${ }^{1}$ <br> \$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Supply Fan | Yaskawa | P7 | DOAS-B101 | AHU | ODP | 2790 | 0.8 |  | 20(2) | 93 | 1,400 |
| Exhaust Fan | Yaskawa | P7 | DOAS-B101 | AHU | ODP | 2790 | 0.8 |  | 7.5(2) | 91 | 525 |
| Supply Fan | Yaskawa | P7 | AHU-C201 | AHU-C201 | ODP | 2790 | 0.8 |  | 25 | 93.6 | 875 |
| Exhaust Fan | Yaskawa | P7 | HRU-C202 | AHU | ODP | 2790 | 0.8 |  | 5 | 89.5 | 175 |
| Supply Fan | Yaskawa | P7 | HRU-C202 | AHU | ODP | 2790 | 0.8 |  | 40 | 94.1 | 1,400 |
| HHWP | Yaskawa | P7 | P-C201a \& b | mech | ODP | 5520 | 0.8 |  | 20 (2) | 93 | 1,400 |
| Incentive through 10/11/2011 @ \$35/hp |  |  |  |  |  |  |  |  |  |  | 5,775 |

(1) VFD incentives (through 10/11/2011) are calculated at a flat rate of $\$ 35$ per horsepower controlled, up to a maximum of 500 hp controlled per VFD.

When a single VFD is used to control two motors in a lead/lag (standby, redundant) configuration, use only the horsepower rating of one motor to figure controlled horsepower. For instance, if a single VFD controls two 30 hp motors with only one operating at a time, the incentive calculation should be based on 30 hp : $30 \mathrm{hp} \mathrm{x} \$ 35 / \mathrm{hp}=\$ 900$.
2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value
(3) For all motor and VFD applications, use the Load Factor (LF) default value of 0.80 , unless data is available to support the use of a motor-specific LF other than 0.80 . Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value.

## FirstEnergy

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| Project Name: | Port Clinton City School District |
| :--- | :--- |
| Site Name: | New Middle School |
| Completed by (Name): | Neil |
| Date completed: |  |

## Variable Frequency Drive Rebate Form

VFD and Controlled Motor Nameplate DATA

(1) VFD incentives (through 10/11/2011) are calculated at a flat rate of $\$ 35$ per horsepower controlled, up to a maximum of 500 hp controlled per VFD.

When a single VFD is used to control two motors in a lead/lag (standby, redundant) configuration, use only the horsepower rating of one motor to figure controlled horsepower. For instance, if a single VFD controls two 30 hp motors with only one operating at a time, the incentive calculation should be based on 30 hp : $30 \mathrm{hp} \mathrm{x} \$ 35 / \mathrm{hp}=\$ 900$.
(2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value.
(3) For all motor and VFD applications, use the Load Factor (LF) default value of 0.80 , unless data is available to support the use of a motor-specific LF other than 0.80 . Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value.

Port Clinton City Schools ATTACHMENT J
New Middle School
Energy Efficient Chiller Calculation

| Make | Model | Quantity | IPLV | Runtime | Tons | Load Factor |
| :---: | :---: | :---: | :---: | :---: | ---: | ---: |
| York | YLAA0115SE | 2 | 14.6 | 2246 | 113.9 | 0.35 |


| ASHRAE 2007 Baseline IPLV |
| :---: |
| 10.4 |

$\begin{array}{r}\text { Savings (kWh) } \\ \hline 59,440\end{array}$

Binned Weather Data : Toledo Ohio
725360TY (1).bin


Client: Port Clinton
Site: Middle School ATTACHMENT C
Prepared By: Trace Searles
Date Last Worked On: 9/19/2012

Room By Room COMcheck Summary

| Area (sq ft) | Allowed Wattage | Proposed Wattage | \% Above/Below Code | Watts Saved |
| :---: | :---: | :---: | :---: | :---: |
| 66184 | 84671.4 | 87083 | $-2.85 \%$ | -2411.6 |
| Hours of Operation | Electric Rate | kWh Saved | \$ Saved |  |
| 0 | 0 | 0 | 0 |  |

Whole Building COMcheck Summary

| Building Type | COMcheck Rating |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| School | 1.2 |  |  |  |
| Area | Allowed Wattage | Proposed Wattage | \% Above/Below Code | Watts Saved |
|  | 0 | 87083 | \#DIV/0! | -87083 |


| Hours of Operation | Electric Rate | kWh Saved | \$ Saved |
| :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 |

Occupancy Sensor Summary

| Watts Controlled | OS>500W | OS<500W | OS Total |
| :---: | :---: | :---: | :---: |
| 77989 | 67 | 143 | 210 |

Photocell Sensor Summary

Watts Controlled OS>500W $\quad$ OS<500W $\quad$ OS Total | 44589 |
| :---: |

| Room Type | Area | COMcheck Rating | Allowed Wattage | Proposed Wattage |
| :---: | :---: | :---: | :---: | :---: |
| Audience | 0 | 0.9 | 0 | 0 |
| Classroom | 24686 | 1.4 | 34560.4 | 30550 |
| Conference Room | 2761 | 1.3 | 3589.3 | 3871 |
| Dining | 3344 | 0.9 | 3009.6 | 5822 |
| Dorm Room | 0 | 1.1 | 0 | 0 |
| Exam/Treatment | 0 | 1.5 | 0 | 0 |
| Exercise Area | 0 | 0.9 | 0 | 0 |
| Food Prep | 1176 | 1.2 | 1411.2 | 1773 |
| Gym | 8149 | 2.3 | 18742.7 | 13400 |
| Hall | 9963 | 0.5 | 4981.5 | 10027 |
| Laboratory | 0 | 1.4 | 0 | 0 |
| Laundry | 0 | 0.6 | 0 | 0 |
| Lobby | 402 | 1.3 | 522.6 | 740 |
| Locker | 678 | 0.6 | 406.8 | 1072 |
| Lounge | 0 | 1.2 | 0 | 0 |
| Mail Sorting | 0 | 1.2 | 0 | 0 |
| Mech/Elec | 4871 | 1.5 | 7306.5 | 4066 |
| Nurse | 327 | 1 | 327 | 341 |
| Office | 3573 | 1.1 | 3930.3 | 4739 |
| Operating Room | 0 | 2.2 | 0 | 0 |
| Parking Garage | 0 | 0.2 | 0 | 0 |
| Patient Room | 0 | 0.7 | 0 | 0 |
| Pharmacy | 0 | 1.2 | 0 | 0 |
| Reading | 1728 | 1.2 | 2073.6 | 5920 |
| Restroom | 1891 | 0.9 | 1701.9 | 1690 |
| Sales Area | 0 | 1.7 | 0 | 0 |
| Stacks | 0 | 1.7 | 0 | 0 |
| Stairs | 0 | 0.6 | 0 | 0 |
| Storage | 2635 | 0.8 | 2108 | 3072 |
| Workshop | 0 | 1.9 | 0 | 0 |
| Totals | 66184 |  | 84671.4 | 87083 |




[^0]





## Port Clinton City Schools <br> Middle Schoo

Attachment F

## VFD Savings Calculation

| TAG | Quantity | Motor hp | Eff | Runtime* | Load Factor | Usage(kWh) | Usage w/ VFD*** |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DOAS-B101 | 2 | 20 | 0.93 | 3000 | 0.8 | 76965.16129 | 61572.12903 |
| DOAS-B101 | 2 | 7.5 | 0.91 | 3000 | 0.8 | 29496.26374 | 23597.01099 |
| AHU-C201 | 1 | 25 | 0.936 | 3000 | 0.8 | 47794.87179 | 38235.89744 |
| HRU-C202 | 1 | 5 | 0.895 | 3000 | 0.8 | 9996.871508 | 7997.497207 |
| HRU-C202 | 1 | 40 | 0.941 | 3000 | 0.8 | 76065.46227 | 60852.36982 |
| P-C201a \& b | 2 | 20 | 0.93 | 1930 | 0.8 | 49514.25376 | 39611.40301 |
| P-C202a \& b | 2 | 20 | 0.93 | 1080 | 0.8 | 27707.45806 | 22165.96645 |
| P-c203a \& b | 2 | 15 | 0.93 | 1080 | 0.8 | 20780.59355 | 16624.47484 |
|  |  |  |  |  |  | Savings | 67664.2 |

*Runtime estimated based on school schedule
12 hrs/day * 180 school days + 8hrs/day on weekends* 72 days + 6hrs/day in summer * 45 days
**The HHW pumps only run during the heating season
$12 \mathrm{hrs} /$ day * 130 school days $+8 \mathrm{hrs} /$ day on weekends* 46 days
***
VFD Usage based on a $20 \%$ reduction in total energy use. This percentage is based on typical reductions measured in similar applications. $20 \%$ is fairly conserve
ative, actual savings are probably higher

| Project No. | Project Name | Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment: | Description of methodologies, protocols and practices used in measuring and verifying project results | equipment if you had not replaced it early? <br> Also, please explain briefly how you determined this future replacement date. | Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Lighting Controls | Occupancy and daylighting sensors installed to shut the lights off when no motion or sunlight is detected. | The energy savings and rebate amount input into Exhibit 2 A are taken from the FE Lighting Rebate Calculator (OE.PorClinton.Bataan.Lighting Project Cash Rebate Form). The number of sensors and watts controlled can be found in the Bataan building lighting countsheet, Attachment A: OE.PortClinton.Bataan.LightingCountsheet.ATTACHMENT.A. .xisx | N/A | Less efficient would be to install no sensors |
| 2 | Variable Frequency Drives | Variable Frequency drives were installed on heating and chilled water pumps as well as air handler supply and exhaust fans throughout the elementary | Data was gathered from the mechanical schedules (OE.PortClinton.Bataan.MechSchedule.AttachmentG.pdf) and input to the motors and drives rebate calculator to determine the cash rebate amount. kWh savings were calculated based on approximate runtimes for the different motor applications (see: attachment E : OE.PortClinton_Bataan.VFD.Calcs_ATTACHMENT.E.x\|sx) | N/A | No motor controls |
| 3 | Energy Efficient Chillers | (2) new energy efficient York air cooled chillers were installed at the elementary to provide chilled water to the chilled beam system. | Data was gathered from the chiller specifications (OE.PortClinton.ChillerSpecs.Attachmentl.pdf) input to the savings calculator (OE.PCCS. Bataan.Chiller.Calc.AttachmentK.x\|sx) to determine the kWh savings which was then input to the custom rebate calculator to determine the cash rebate amount. | N/A | ASHRAE code minimum chillers |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |


| Customer Legal Entity Name: Port Clinton City School District <br> Site Address: Bataan Elementary <br> Principal Address: 525 W. 6th Street |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Unadjusted Usage, kwh (A) | Weather Adjusted Usage, kwh (B) | Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1 |  |  |  |  |  |
|  | 2011 | 240,000 | 240,000 | 240,000 |  |  |  |  |  |
|  | Average | 240,000 | 240,000 | 240,000 |  |  |  |  |  |
| Project Number | Project Name | In-Service Date | Project Cost \$ | $\underset{\$}{50 \% \text { of Project Cost }}$ | KWh Saved/Year (D) counting towards utility compliance | KWh Saved/Year (E) eligible for incentive | Utility Peak Demand Reduction Contribution, KW (F) | Prescriptive Rebate Amount (G) \$ | $\begin{gathered} \text { Eligible } \\ \text { Rebate } \\ \text { Amount (H) } \\ \$ \$ 2 \\ \text { Note } 2 \end{gathered}$ |
| 1 | Lighting Controls | 07/11/2012 | \$34,075 | \$17,038 | 126,055 | 126,055 | - | \$8,527 | \$6,395 |
| 2 | Variable Frequency Drives | 08/08/2012 | \$317,142 | \$158,571 | 74,000 | 74,000 | - | \$8,838 | \$6,629 |
| 3 | Energy Efficient Chillers | 08/08/2012 | \$211,570 | \$105,785 | 66,063 | 66,063 | - | \$5,285 | \$3,964 |
|  |  |  |  |  | - | - | - |  |  |
|  |  |  |  |  | - | - | - |  |  |
|  |  |  |  |  | - | - | - |  |  |
|  |  |  |  |  | - | - | - |  |  |
|  |  | Total | \$562,787 |  | 266,118 | 266,118 | 0 | \$22,650 | \$16,988 |

Docket No. 13-0533
Site: $\quad 525$ W. 6th Street
Notes
(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings
 $834-E L-E E C$ dated $9 / 15 / 2010$, not to exceed the lesser of $50 \%$ of the project cost or $\$ 250,000$ per project. The rebate also cannot exceed $\$ 500,000$ per customer per year, per utility service territory


## Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs


Notes
(A) From Exhibit 2, $=\mathrm{kWh}$ saved $/ 1000$
(B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices.This value is consistent with avoided cost assumptions used in EE\&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).
(C) $=(\mathrm{A}) *(\mathrm{~B}$
(D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
(E) This is the amount of the cash rebate paid to the customer for this project.
(F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less
$(\mathrm{G})=(\mathrm{D})+(\mathrm{E})+(\mathrm{F})$
$(\mathrm{H})=(\mathrm{C}) /(\mathrm{G})$

Port Clinton City School District ~ Bataan Elementary
Docket No. 13-0533

Site:
525 W. 6th Street



| Project Estimated Annual <br> Savings Summary  <br> Estimated Annual kWh Savings  <br> Total Change in Connected Load  $\mathbf{1 2 6 , 0 5 5}$ |  |
| :--- | :---: |


| Annual Estimated Cost Savings | $\$ 12,605.50$ |
| :--- | :---: |
| Annual Operating Hours | 2,080 |


| Interior Lighting Incentive @ <br> $\$ 0.05 / \mathrm{kWh}$ (excluding retrofit CFLs, <br> sensors, or LED exit signs) | $-\$ 122.65$ |
| :--- | :---: |
| Exterior Lighting Incentive @ <br> $\$ 0.05 / \mathrm{kWh}$ (excluding retrofit CFLs, <br> sensors, or LED exit signs) | $\$ 0.00$ |
| Total retrofit CFL Incentive @ <br> $\$ 1 /$ screw-in CFL lamp; $\$ 15 / h a r d-$ <br> wired CFL lamp (includes all retrofit <br> CFLs, both interior and exterior) | $\$ 0.00$ |
| Total retrofit LED Exit Incentive @ <br> $\$ 10 /$ exit sign | $\$ 0.00$ |
| Total Lighting Controls Incentive @ <br> $\$ 25 /$ sensor (includes all Lighting <br> Controls, both interior and exterior) | $\$ 8,650.00$ |


| Total Calculated Incentive | $\$ 8,527.35$ |
| :--- | :--- |


| Total Fixture Quantity excluding retrofit <br> CFLs and LED Exit Sign | 1 |
| :--- | :---: |
| Total Lamp Quantity for retrofit Screw-In <br> CFLs | 0 |
| Total Lamp Quantity for retrofit Hard-Wired <br> CFLs | 0 |
| Total Fixture Quantity for retrofit LED Exit <br> Signs | 0 |
| Total Quantity for Occupancy Sensors | 0 |
| Total Quantity for Daylight Sensors | 346 |



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Motor Rebate Calculation Form

| Motor ID, Location, and Operation Data |  |  |  | Old Motor Nameplate Data |  |  |  |  |  |  |  | New Motor Nameplate Data |  |  |  |  |  |  |  | $\begin{array}{\|c\|} \text { Total } \\ \text { Motor } \\ \text { Incentive }^{1} \$ \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unique Motor ID(s) |  | Motor Location | Annual <br> Hours of $\mathrm{Op}^{2}$ | Loading (Constant, or if variable, indicate control type) | $\begin{aligned} & \text { Load } \\ & \text { Factor } \\ & (\mathbf{L F})^{3} \end{aligned}$ | Enclosure <br> type: TEFC <br> or ODP | Mfr. | Model Number | Motor HP | Nominal Efficiency | Speed (RPM) | Loading (Constant, or if variable, indicate control type) | $\begin{gathered} \text { Load } \\ \text { Factor } \\ (\mathbf{L F})^{3} \end{gathered}$ |  | Mfr. | Model Number | Motor HP | Nominal Efficiency | Speed (RPM) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | centive | hrough 10 | 1/2011) | \$0 |

Motor IDs may be specified by HVAC application type and number. Application types eligible for this incentive include:

- Chilled Water Pump (CHWP),

Heating Hot Water Pump (HHWP)

- HVAC Fans (HVACF),
- Cooling Tower Fan (CTF)
- Cooling Tower Fan (CTF), and
- Condensing Water Pump (CWP),

If the HVAC application is not listed above, please describe the application on a separate sheet and include it with your application package.
(1) Motor incentives are listed in Table 2 - Incentive levels per motor located on Motor Incentive Table tab
(2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value.
(3) For all motor applications, use the Load Factor (LF) default value of $\mathbf{0 . 8 0}$, unless data is available to support the use of a motor-specific LF other than $\mathbf{0 . 8 0}$. Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value

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| Table 1 - Minimum Motor Efficiency Requirements (NDMA Premium® Efficiencies) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Open Drip Proof (ODP) |  |  |  | Totally Enclosed Fan-Cooled (TEFC) |  |  |  |
| Size <br> HP | \# of Poles |  |  | $\begin{gathered} \text { Size } \\ \text { HP } \end{gathered}$ | \# of Poles |  |  |
|  | 6 | 4 | 2 |  | 6 | 4 | 2 |
|  | Speed (RPM) |  |  |  | Speed (RPM) |  |  |
|  | 1200 | 1800 | 3600 |  | 1200 | 1800 | 3600 |
| 1 | 82.50\% | 85.50\% | 77.00\% | 1 | 82.50\% | 85.50\% | 77.00\% |
| 1.5 | 96.50\% | 86.50\% | 84.00\% | 1.5 | 87.50\% | 86.50\% | 84.00\% |
| 2 | 87.50\% | 86.50\% | 85.50\% | 2 | 88.50\% | 86.50\% | 85.50\% |
| 3 | 88.50\% | 89.50\% | 85.50\% | 3 | 89.50\% | 89.50\% | 86.50\% |
| 5 | 89.50\% | 89.50\% | 86.50\% | 5 | 89.50\% | 89.50\% | 88.50\% |
| 7.5 | 90.20\% | 91.00\% | 88.50\% | 7.5 | 91.00\% | 91.70\% | 89.50\% |
| 10 | 91.70\% | 91.70\% | 89.50\% | 10 | 91.00\% | 91.70\% | 90.20\% |
| 15 | 91.70\% | 93.00\% | 90.20\% | 15 | 91.70\% | 92.40\% | 91.00\% |
| 20 | 92.40\% | 93.00\% | 91.00\% | 20 | 91.70\% | 93.00\% | 91.00\% |
| 25 | 93.00\% | 93.60\% | 91.70\% | 25 | 93.00\% | 93.60\% | 91.70\% |
| 30 | 93.60\% | 94.10\% | 91.70\% | 30 | 93.00\% | 93.60\% | 91.70\% |
| 40 | 94.10\% | 94.10\% | 92.40\% | 40 | 94.10\% | 94.10\% | 92.40\% |
| 50 | 94.10\% | 94.50\% | 93.00\% | 50 | 94.10\% | 94.50\% | 93.00\% |
| 60 | 94.50\% | 95.00\% | 93.60\% | 60 | 94.50\% | 95.00\% | 93.60\% |
| 75 | 94.50\% | 95.00\% | 93.60\% | 75 | 94.50\% | 95.40\% | 93.60\% |
| 100 | 95.00\% | 95.40\% | 93.60\% | 100 | 95.00\% | 95.40\% | 94.10\% |
| 125 | 95.00\% | 95.40\% | 94.10\% | 125 | 95.00\% | 95.40\% | 95.00\% |
| 150 | 95.40\% | 95.80\% | 94.10\% | 150 | 95.80\% | 95.80\% | 95.00\% |
| 200 | 95.40\% | 95.80\% | 95.00\% | 200 | 95.80\% | 96.20\% | 95.40\% |


| Table 2 - Incentive Levels Per Motor through 10/11/2011 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Open Drip Proof (ODP) |  |  |  | Totally Enclosed Fan-Cooled (TEFC) |  |  |  |
| $\begin{gathered} \text { Size } \\ \text { HP } \end{gathered}$ | \# of Poles |  |  | Size <br> HP | \# of Poles |  |  |
|  | 6 | 4 | 2 |  | 6 | 4 | 2 |
|  | Speed (RPM) |  |  |  | Speed (RPM) |  |  |
|  | 1200 | 1800 | 3600 |  | 1200 | 1800 | 3600 |
| 1 | \$25 | \$25 | \$25 | 1 | \$25 | \$25 | \$25 |
| 1.5 | \$30 | \$30 | \$30 | 1.5 | \$30 | \$30 | \$30 |
| 2 | \$60 | \$60 | \$60 | 2 | \$60 | \$60 | \$60 |
| 3 | \$60 | \$60 | \$60 | 3 | \$60 | \$60 | \$60 |
| 5 | \$60 | \$60 | \$60 | 5 | \$60 | \$60 | \$60 |
| 7.5 | \$80 | \$80 | \$80 | 7.5 | \$80 | \$80 | \$80 |
| 10 | \$80 | \$80 | \$80 | 10 | \$80 | \$80 | \$80 |
| 15 | \$125 | \$125 | \$125 | 15 | \$125 | \$125 | \$125 |
| 20 | \$125 | \$125 | \$125 | 20 | \$125 | \$125 | \$125 |
| 25 | \$164 | \$164 | \$164 | 25 | \$164 | \$164 | \$164 |
| 30 | \$199 | \$199 | \$199 | 30 | \$199 | \$199 | \$199 |
| 40 | \$234 | \$234 | \$234 | 40 | \$234 | \$234 | \$234 |
| 50 | \$269 | \$269 | \$269 | 50 | \$269 | \$269 | \$269 |
| 60 | \$304 | \$304 | \$304 | 60 | \$304 | \$304 | \$304 |
| 75 | \$339 | \$339 | \$339 | 75 | \$339 | \$339 | \$339 |
| 100 | \$374 | \$374 | \$374 | 100 | \$374 | \$374 | \$374 |
| 125 | \$410 | \$410 | \$410 | 125 | \$410 | \$410 | \$410 |
| 150 | \$445 | \$445 | \$445 | 150 | \$445 | \$445 | \$445 |
| 200 | \$468 | \$468 | \$468 | 200 | \$468 | \$468 | \$468 |

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| Project Name: | Port Clinton City School District |
| :--- | :--- |
| Site Name: | Bataan Elementary |
| Completed by (Name): | Neil |
| Date completed: |  |

## Variable Frequency Drive Rebate Form

| VFID and Controlled Motor Nameplate DATA |  |  |  |  |  |  |  |  |  |  | Total Motor <br> Incentive ${ }^{1}$ \$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Motor Application | VFD <br> Manufacturer |  | Unique Motor ID(s) | Motor Location | Enclosure type: TEFC or ODP | Annual Hours of Operation ${ }^{2}$ | Load Factor $(\mathbf{L F})^{3}$ | Motor Model Number | Motor HP | Motor Nominal Efficiency |  |
| Supply Fan | Yaskawa | P7 | AHU-D101 S | AHU-D101 | ODP | 2790 | 0.8 |  | 50 | 94.5 | 1,750 |
| Supply Fan | Yaskawa | P7 | AHU-D101 S | AHU-D203 | ODP | 2790 | 0.8 |  | 7.5 | 91 | 263 |
| Supply Fan | Yaskawa | P7 | DOAS-D201 | DOAS-D201 | ODP | 2790 | 0.8 |  | 30 | 94.1 | 1,050 |
| Supply Fan | Yaskawa | P7 | DOAS-D202 | DOAS-D202 | ODP | 2790 | 0.8 |  | 25 | 93.6 | 875 |
| Exhaust Fan | Yaskawa | P7 | DOAS-D201 | DOAS-D201-202 | ODP | 2790 | 0.8 |  | 15(2) | 93 | 1,050 |
| HHWP | Yaskawa | P7 | P-D101a \& b | mech | ODP | 5520 | 0.8 |  | 20 (2) | 93 | 1,400 |
| Incentive through 10/11/2011 @ \$35/hp |  |  |  |  |  |  |  |  |  |  | 6,388 |

(1) VFD incentives (through 10/11/2011) are calculated at a flat rate of $\$ 35$ per horsepower controlled, up to a maximum of 500 hp controlled per VFD

When a single VFD is used to control two motors in a lead/lag (standby, redundant) configuration, use only the horsepower rating of one motor to figure controlled horsepower. For instance, if a single VFD controls two 30 hp motors with only one operating at a time, the incentive calculation should be based on 30 hp : $30 \mathrm{hp} \mathrm{x} \$ 35 / \mathrm{hp}=\$ 900$.
(2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value
(3) For all motor and VFD applications, use the Load Factor (LF) default value of 0.80 , unless data is available to support the use of a motor-specific LF other than 0.80 . Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value

## FirstEnergy

Ohio Edison • The Illuminating Company • Toledo Edison

| Project Name: | Port Clinton City School District |
| :--- | :--- |
| Site Name: | Bataan Elementary |
| Completed by (Name): | Neil |
| Date completed: |  |

## Variable Frequency Drive Rebate Form


(1) VFD incentives (through 10/11/2011) are calculated at a flat rate of $\$ 35$ per horsepower controlled, up to a maximum of 500 hp controlled per VFD

When a single VFD is used to control two motors in a lead/lag (standby, redundant) configuration, use only the horsepower rating of one motor to figure controlled horsepower. For instance, if a single VFD controls two 30 hp motors with only one operating at a time, the incentive calculation should be based on 30 hp : $30 \mathrm{hp} \mathrm{x} \$ 35 / \mathrm{hp}=\$ 900$.
(2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value
(3) For all motor and VFD applications, use the Load Factor (LF) default value of 0.80 , unless data is available to support the use of a motor-specific LF other than 0.80 . Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value

Client: Port Clinton City Schools
Site: Bataan Elementary School ATCH. A Prepared By: Trace Searles
Date Last Worked On: 9/19/2012

## Room By Room COMcheck Summary

| Area (sq ft) | Allowed Wattage | Proposed Wattage | \% Above/Below Code | Watts Saved |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 90587 | 109272.8 | 110326 | $-0.96 \%$ | -1053.2 |


| Hours of Operation | Electric Rate | kWh Saved | \$ Saved |
| :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 |

Whole Building COMcheck Summary

| Building Type | COMcheck Rating |
| :---: | :---: |
| School | 1.2 |.


| Area | Allowed Wattage | Proposed Wattage | \% Above/Below Code | Watts Saved |
| :---: | :---: | :---: | :---: | :---: |
|  | 0 | 110326 | \#DIV/0! | -110326 |


| Hours of Operation | Electric Rate | kWh Saved | \$ Saved |
| :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 |

Occupancy Sensor Summary

| Watts Controlled | OS>500W | OS<500W | OS Total |
| :---: | :---: | :---: | :---: |
| 96840 | 111 | 187 | 298 |

Photocell Sensor Summary

| Watts Controlled | OS>500W | OS<500W | OS Total |
| :---: | :---: | :---: | :---: |
| 47163 | 48 | 0 | 48 |


| Room Type | Area | COMcheck Rating | Allowed Wattage | Proposed Wattage |
| :---: | :---: | :---: | :---: | :---: |
| Audience | 0 | 0.9 | 0 | 0 |
| Classroom | 40373 | 1.4 | 56522.2 | 52628 |
| Conference Room | 3431 | 1.3 | 4460.3 | 4270 |
| Dining | 4090 | 0.9 | 3681 | 9642 |
| Dorm Room | 0 | 1.1 | 0 | 0 |
| Exam/Treatment | 0 | 1.5 | 0 | 0 |
| Exercise Area | 0 | 0.9 | 0 | 0 |
| Food Prep | 1532 | 1.2 | 1838.4 | 2140 |
| Gym | 6354 | 2.3 | 14614.2 | 10368 |
| Hall | 17024 | 0.5 | 8512 | 8595 |
| Laboratory | 0 | 1.4 | 0 | 0 |
| Laundry | 0 | 0.6 | 0 | 0 |
| Lobby | 88 | 1.3 | 114.4 | 91 |
| Locker | 605 | 0.6 | 363 | 377 |
| Lounge | 0 | 1.2 | 0 | 0 |
| Mail Sorting | 0 | 1.2 | 0 | 0 |
| Mech/Elec | 4285 | 1.5 | 6427.5 | 2738 |
| Nurse | 612 | 1 | 612 | 887 |
| Office | 3186 | 1.1 | 3504.6 | 3952 |
| Operating Room | 0 | 2.2 | 0 | 0 |
| Parking Garage | 0 | 0.2 | 0 | 0 |
| Patient Room | 0 | 0.7 | 0 | 0 |
| Pharmacy | 0 | 1.2 | 0 | 0 |
| Reading | 2768 | 1.2 | 3321.6 | 8637 |
| Restroom | 3104 | 0.9 | 2793.6 | 2492 |
| Sales Area | 0 | 1.7 | 0 | 0 |
| Stacks | 0 | 1.7 | 0 | 0 |
| Stairs | 0 | 0.6 | 0 | 0 |
| Storage | 3135 | 0.8 | 2508 | 3509 |
| Workshop | 0 | 1.9 | 0 | 0 |
| Totals | 90587 |  | 109272.8 | 110326 |

## Port Clinton City Schools

## Attachment K

Bataan Elementary
Energy Efficient Chiller Calculation

| Make | Model | Quantity | IPLV | Runtime | Tons | Load Factor |
| :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| York | YLAA0141HE | 2 | 14.4 | 2246 | 131.1 | 0.35 |

Savings (kWh)

$$
66,063
$$

Binned Weather Data : Toledo Ohio


| 40 | 44 | 43 | 39.6 | 14.8 | 0.0041 | 199 | 199 | 197 | 595 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 35 | 39 | 37.4 | 35.8 | 12.7 | 0.0035 | 329 | 248 | 311 | 888 |
| 30 | 34 | 32.1 | 31.6 | 10.6 | 0.0027 | 269 | 182 | 180 | 631 |
| 25 | 29 | 27.6 | 28.2 | 9 | 0.0022 | 203 | 146 | 167 | 516 |
| 20 | 24 | 23.1 | 24.9 | 7.4 | 0.0017 | 150 | 100 | 147 | 397 |
| 15 | 19 | 17.4 | 20.9 | 5.6 | 0.0013 | 117 | 110 | 78 | 305 |
| 10 | 14 | 12 | 17.4 | 4 | 0.001 | 70 | 58 | 76 | 204 |
| 5 | 9 | 7.4 | 14.4 | 2.7 | 0.0008 | 56 | 20 | 42 | 118 |
| 0 | 4 | 2.6 | 11.3 | 1.3 | 0.0006 | 35 | 19 | 14 | 68 |
| -5 | -1 | -1.7 | 8.5 | 0.1 | 0.0005 | 25 | 6 | 13 | 44 |
| -10 | -6 | -7.1 | 5.1 | -1.3 | 0.0004 | 11 | 0 | 0 | 11 |

Port Clinton City Schools Attachment E

## Bataan Elementary

## VFD Savings Calculation

| TAG | Quantity | Motor hp | Eff | Runtime* | Load Factor | Usage(kWh) | Usage w/ VFD*** |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AHU-D101 S | 1 | 50 | 0.945 | 3000 | 0.8 | 94679.36508 | 75743.49206 |
| AHU-D101 S | 1 | 7.5 | 0.91 | 3000 | 0.8 | 14748.13187 | 11798.50549 |
| DOAS-D201 | 1 | 30 | 0.941 | 3000 | 0.8 | 57049.09671 | 45639.27736 |
| DOAS-D202 | 1 | 25 | 0.936 | 3000 | 0.8 | 47794.87179 | 38235.89744 |
| DOAS-D201-202 | 2 | 15 | 0.93 | 3000 | 0.8 | 57723.87097 | 46179.09677 |
| P-D101a \& b | 2 | 20 | 0.93 | 1930 | 0.8 | 49514.25376 | 39611.40301 |
| P-D102a \& b | 2 | 15 | 0.93 | 1080 | 0.8 | 20780.59355 | 16624.47484 |
| P-D103a \& b | 2 | 20 | 0.93 | 1080 | 0.8 | 27707.45806 | 22165.96645 |
|  |  |  |  |  |  | Savings | 73999.5 |

*Runtime estimated based on school schedule
$12 \mathrm{hrs} /$ day * 180 school days $+8 \mathrm{hrs} /$ day on weekends*72 days $+6 \mathrm{hrs} /$ day in summer $* 45$ days
**The HHW pumps only run during the heating season
12 hrs/day * 130 school days + 8hrs/day on weekends*46 days
***
VFD Usage based on a $20 \%$ reduction in total energy use. This percentage is based on typical reductions measured in similar applications.
$20 \%$ is fairly conservative, actual savings are probably higher.

## Mercantile Customer Project Commitment Agreement Cash Rebate Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMEN'T AGREEMENT ("Agreement") is made and entered into by and between Ohio Edison Company, its successors and assigns (herenafter called the "Company") and Port Clinton City School District, Taxpayer ID No. 34-6401093 its permitted successors and assigns (heremafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Paties as indicated below.

## WITNESSETH

WHEREAS, the Company is an electric distribution utility and electric light company, as both of these terms are delined in R.C. \$ $4928.01(\mathrm{~A})$; and

WHEREAS, Customer is a mercantile customer, as that term is detined in R.C. $\$ 4928.01(A)(19)$, doing business within the Company's certified service territory; and

WHEREAS, R.C. $\$ 4928.66$ (the "Statute") requires the Company to meet certain energy efficiency and peak demand reduction ("EE\&PDR") benchmarks; and

WIIEREAS, when complying with certain EE\&PDR benchmarks the Company may include the effects of mercantile customer-sited EE\&PDR projects; and

WHEREAS, Customer has certain customer-sited demand reduction, demand response, or energy efficiency project(s) as set forth in attached Exhibit 1 (the "Customer Energy Project(s)") that it desires to commit to the Company for integration into the Company's Energy Efficiency \& Peak Demand Reduction Program Pontfolio Plan ("Company Plan") that the Company will implement in order to comply with the Statule; and

VIIEREAS, the Customer, pursuant to the Public Utilities Commission of Ohio's ("Commission") September 15,2010 Order in Case No. 10-834-EL-EEC, desires to pursue a cash rebate of some of the costs pertaining to its Customer Energy Project(s) ("Cash Rebate") and is committing the Customer Energy Project(s) as a result of such incentive.

WHEREAS, Customer's decision to commit its Customer Energy Project(s) to the Company for indusion in the Company Plan has been reasomably encourged by the possibility of a Cash Rebate.

WHEREAS, in consideration of, and upon receipt of, said cash rebate, Customer will commit the Customer Energy Project(s) to the Company and will comply with all other terms and conditions set forth herein.

NOW THEREFORE, in consideration of the mutual promises set forth herein, and for other good and valuable consideration, the recoipt and sufficiency of which is hereby acknowledged, the parties, intending to be legally bound, do hereby agree as follows:

1. Customer Energy P'rojects. Customer hereby commits to the Company and Company accepts for integration into the Company Plan the Customer Energy Project(s) set forth on attached Exhibit 1. Said commitment shall be for the life of the Customer Energy Project(s). Company will incorporate said project(s) into the Company Plan to the extent that such projects qualify. In so committing, and as evidenced by the affidavit attached hereto as Exhibit A, Customer acknowledges that the information provided to the Company about the Customer Energy Project(s) is true and accurate to the best of its knowledge.
a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and/or kW reductions resulting from said projects for puposes of complying with the Statute. By committing the Customer Energy Project(s), Customer further acknowledges and agrees that the Company shall lake ownership of the energy efficiency capacity rights associated with said Project(s) and shall, at its sole diseretion, aggregate said capacity into the PJM markel through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements
b. The Company acknowledges that some of Customer's Energy Projects contemplated in this paragraph may have been performed under certain other fedenal and/or state programs in which certain parameters are reguired to be maintained in order to retain preferential funancing or other govermment benefits (individually and collectively, as appropriate, "Benefits"). In the event that the use of any such project by the Company in any way affects such Bencfits, and upon written request from the Customer, Company will release said Customer's Energy Project(s) to the extent necessary for Customer to meet the prerequisites for such Benefits. Customer acknowledges that such release (i) may affect Customer's cash rebate discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations.
c. Any future Customer Energy Project(s) committed by Customer shall be subject to a separate application and, upon approval by the Commission, said projects shall become part of this Agreement.
d. Customer will provide Company or Company's agent(s) with reasonable assistance in the preparation of the Commission's standard joint application for approval of this Agreement ("Joint Application") that will be filed with the Commission, with such Joint Application being consistent with then curent Commission requirements.
e. Upon written request and reasonable advance notice, Customer will grant employees or authorized agents of either the Company or the Commission reasonable, pre-aranged access to the Customer Energy Project(s) for purposes of measuring and verifying energy savings and/or peak demand reductions resulting from the Customer Energy Project(s). It is expressly agreed that consultants of either the Company or the Commission are their respective authorized agents.
2. Joint Application to the Commission. The Parties will submit the Joint Application using the Commission's standard "Application to Commit Energy Efficiency/Peak Demand Reduction Programs" ("Joint Application") in which they will seek the Commission's approval of (i) this Agreement: (ii) the commitment of the Customer Energy Project(s) for inchusion in the Company Plan; and (iii) the Customer's Cash Rebate.

The Joint Application shall include all information as set forth in the Commission's standard form which, includes without limitation:
i. A marrative description of the Customer Bnergy Project(s), including but not limited to, make, model and year of any installed and/or replaced equipment;
ii. A copy of this Agreement; and
iii, A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.
3. Customer Cash Rebate. Upon Commission approval of the Joint Application, Customer shall provide Company with a W. 9 tax form, which shall at a minimum include Customer's tax identification number. Within the greater of 90 days of the Commission's approval of the Joint Application or the completion of the Customer Energy Project, the Company will issue to the Customer the Cash Rebate in the amont set forth in the Commission's Finding and Order approving the Joint Application.
a. Customer acknowledges: i) that the Company will cap the Cash Rebate at the lesser of $50 \%$ of Customer Energy Project(s) cosis or $\$ 250,000$; ii) the maximum rebate that the Customer may receive per year is $\$ 500,000$ per Taxpayer Identification Number per utility service territory; and iii) if the Customer Lnergy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to lile such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discomted by $25 \%$; and
b. Customer acknowledges that breaches of this Agreement, include, but are not limited to:
i. Customer's failure to comply with the terms and conditions set forth in the Agreement, or its equivalent, within a reasonable period of time after receipt of witten notice of such non-compliance;
ii, Customer knowingly falsifying any documents provided to the Company or the Commission in connection with this Agreement or the Joint Application.
c. In the event of a breach of this Agrement by the Customer, Customer agrees and acknowledges that it will repay to the Company, within 90 days of reccipt of written notice of said breach, the full amount of the Cash Rebate paid under this Agreement. This remedy is in addition to any and all other remedies available to the Company by law or equity.
4. Termination of Agreement. This Agreement shall automatically terminate:
a. If the Commission fails to approve the Joint Agreement;
b. Upon order of the Commission; or
c. At the end of the life of the last Customer Energy Project subject to this Agreement.

Customer shall also have an option to terminate this Agrement should the Commission not approve the Customer's Cash Rebate, provided that Customer provides the Company with written notice of such termination within ten days of either the Commission issuing a final appeatable order or the Ohio Supreme Cout issuing its opinion should the matter be appealed.
5. Confidentiality. Each Party shall hold in confidence and not release or clisclose to any person any document or information fumished by the other Parly in connection with this Agreement that is designated as confidential and proprictary ("Confidential Information"), muless: (i) compelled to disclose such document or intormation by judicial, regulatory or administrative process or other provisions of law; (ii) such document or information is generally available to the public; or (iii) such document or information was available to the receiving Party on a non-contidential basis at the time of disclosure.
a. Notwithstanding the above, a Party may disclose to its employees, directors, altomeys, consultants and agents all documents and information fumished by the other Party in comection with this Agreement, provided that such employees, directors, attomeys,
consultants and agents have been advised of the confdential nature of this information and through such disclosure are deemed to be bound by the terms set forth herein.
b. A Party receiving such Confidential Intormation shall protect it with the same standard of care as its own confidential or proprietary information.
c. A Party receiving notice or othenwise concluding that Confidential Information funished by the other Paty in connection with this Agreement is being sought under any provision of law, to the extent it is permitted to do so under any applicable law, shall endeavor to: (i) promptly notify the other Party; and (ii) use reasonable efforts in cooperation with the other Party to seek confidential treatment of such Confidential Information, including without limitation, the flling of such information under a valid protective order.
d. By executing this Agreement, Customer hereby acknowledges and agrees that Company may disclose to the Commission or its Slaff any and all Customer information, inchading Confidential Information, related to a Cuslomer Energy Project, provided that Company uses reasonable efforts to seek confidential treatment of the same.
6. Taxes. Customer shall be responsible for all tax consequences (if any) arising from the payment of the Cash Rebate.
7. Notices. Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or faesimile trmsmission addressed as follows:

## If to the Company:

FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
Alth: Victoria Notziger
Telephone: $330-384-4684$
Fax: 330-761-4281
Email: vmofziger(ofirstentergycorp.com
If to the Customer:
Port Clinton City School District
431 Portage Dr.
Port Clinton, Ohio 43452
Atm:Jeff Dombusch
Telephone:419.732.2102
Fax:
Email:jdombusch@pecsd.net
or to such other person at such other address as a Party may designate by like notice to the other Party. Notice received after the close of the business day will be decmed received on the next business day; provided that notice by facsimile transmission will be deemed to have been reccived by the recipient if the recipient confirms receipt telephonically or in writing.
8. Authority to Act. The Parties represent and warrant that they are represented by counsel in comection with this Agreement, have been fully advised in comection with the execution thereot, have taken all legal and corporate steps necessary to enter into this Agreement, and that the undersigned has the athority to enter into this Agreement, to bind the Parties to all provisions herein and to take the actions required to be performed in fuffilment of the undertakings contained herein.
9. Non-Waiver. The delay or fature of either party to assent or enforce in any instance strict perfomance of any of the tems of this Agrement or to exercise any rights hereunder conferred, shall not be construed as a waver or relinguishment to any extent of its rights to assert or rely upon such terms or rights at amy later time or on any future occasion.
10. Entire Agreement. This Agreement, along with related exhibits, and the Company's Rider DSE, or its equivalent, as amended from time to time by the Commission, contans the Parties' entire understanding with respect to the matters addressed herein and there are no verbal or collateral representations, undertakings, or agreements not expressly set forth herein. No change in, addition to, or waver of the terms of this Agreement shall be binding upon any of the Parties untess the same is set forth in writing and signed by an authorized representative of each of the Parties. In the event of any conflict between Rider DSE or its equivalent and this document, the fatter shall prevail.
11. Assigmment. Customer may not assign any of its rights or obligations under this Agreement without obtaining the prior written consent of the Company, which consent will not be unreasonably withheld. No assignment of this Agreement will relieve the assigning Party of any of its obligations under this Agreement until such obligations have been assumed by the assignee and all necessary consents have been obtained.
12. Severability. If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties futher agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.
13. Governing Law. This Agreement shall be governed by the laws and regulations of the Slate of Ohio, without regard to its conflict of law provisions.
14. Execution and Counterparts. This Agreement may be executed in multiple counterparts, which taken together shatl constitute an originat without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original painted or photocopied docmments. Signatures transmitted by facsimile shall be considered original signatures.

IN IVITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized officers or representatives as of the day and year set forth below.

Ohio Edison Company_


IHLC: Y.P. Of Energy Efficiency
Date: $\qquad$ By: te:
Date: $11-27-12$

> Affidavit of Port Clinton City Schools - Exhibit _ A _

STATE OF OHIO
)

SS: COUNTY OF Ottawa )

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

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

FURTHER AFFIANT SAYETH NAUGHT.


This foregoing document was electronically filed with the Public Utilities

## Commission of Ohio Docketing Information System on

## 3/23/2013 5:10:51 PM

in

## Case No(s). 13-0533-EL-EEC

Summary: Application electronically filed by Ms. Lindsey E Sacher on behalf of Ohio Edison Company and Port Clinton City School District


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